

**Instance Types** 

# **Amazon EC2**



Copyright © 2024 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

### **Amazon EC2: Instance Types**

Copyright © 2024 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

# **Table of Contents**

| lns | tance types                   | 1     |
|-----|-------------------------------|-------|
|     | Current generation instances  | 1     |
|     | Previous generation instances | 2     |
|     | Instance performance          | 2     |
| Na  | ming conventions              | 4     |
| Spo | ecifications                  | 6     |
|     | General purpose               | 7     |
|     | Available sizes               | 8     |
|     | Platform summary              | 10    |
|     | Performance specifications    | 13    |
|     | Network specifications        | 33    |
|     | Amazon EBS specifications     | 47    |
|     | Instance store specifications | 65    |
|     | Security specifications       | 71    |
|     | Compute optimized             | 93    |
|     | Available sizes               | 94    |
|     | Platform summary              | 96    |
|     | Performance specifications    | 98    |
|     | Network specifications        | 113   |
|     | Amazon EBS specifications     | 124   |
|     | Instance store specifications | 137   |
|     | Security specifications       | 141   |
|     | Memory optimized              | 158   |
|     | Available sizes               | 159   |
|     | Platform summary              | 162   |
|     | Performance specifications    | . 165 |
|     | Network specifications        | 188   |
|     | Amazon EBS specifications     | 204   |
|     | Instance store specifications | 224   |
|     | Security specifications       | 233   |
|     | Storage optimized             | 256   |
|     | Available sizes               | 257   |
|     | Platform summary              | 258   |
|     | Performance specifications    | . 259 |

|   | Network specifications        | 264 |
|---|-------------------------------|-----|
|   | Amazon EBS specifications     | 269 |
|   | Instance store specifications | 274 |
|   | Security specifications       | 280 |
|   | Accelerated computing         | 284 |
|   | Available sizes               | 284 |
|   | Platform summary              | 286 |
|   | Performance specifications    | 288 |
|   | Network specifications        | 296 |
|   | Amazon EBS specifications     | 302 |
|   | Instance store specifications | 308 |
|   | Security specifications       | 312 |
|   | High-performance computing    | 319 |
|   | Available sizes               | 320 |
|   | Platform summary              | 320 |
|   | Performance specifications    | 321 |
|   | Network specifications        | 322 |
|   | Amazon EBS specifications     | 323 |
|   | Instance store specifications | 324 |
|   | Security specifications       | 325 |
|   | Previous generation           | 326 |
|   | Available sizes               | 327 |
|   | Platform summary              | 328 |
|   | Performance specifications    | 329 |
|   | Network specifications        | 334 |
|   | Amazon EBS specifications     | 338 |
|   | Instance store specifications | 341 |
|   | Security specifications       | 343 |
| n | stance types by Region        | 349 |
|   | US East (Ohio)                | 349 |
|   | US East (N. Virginia)         | 349 |
|   | US West (N. California)       | 350 |
|   | US West (Oregon)              | 350 |
|   | Africa (Cape Town)            | 351 |
|   | Asia Pacific (Hong Kong)      | 351 |
|   | Asia Pacific (Hyderabad)      | 351 |

|    | Asia Pacific (Jakarta)    | 352         |
|----|---------------------------|-------------|
|    | Asia Pacific (Melbourne)  | 352         |
|    | Asia Pacific (Mumbai)     | 352         |
|    | Asia Pacific (Osaka)      | 353         |
|    | Asia Pacific (Seoul)      | 353         |
|    | Asia Pacific (Singapore)  | 353         |
|    | Asia Pacific (Sydney)     | 354         |
|    | Asia Pacific (Tokyo)      | 354         |
|    | Canada (Central)          | 355         |
|    | Canada West (Calgary)     | 355         |
|    | Europe (Frankfurt)        | 356         |
|    | Europe (Ireland)          | 356         |
|    | Europe (London)           | 357         |
|    | Europe (Milan)            | 357         |
|    | Europe (Paris)            | 357         |
|    | Europe (Spain)            | 358         |
|    | Europe (Stockholm)        | 358         |
|    | Europe (Zurich)           | 358         |
|    | Israel (Tel Aviv)         | 359         |
|    | Middle East (Bahrain)     | 359         |
|    | Middle East (UAE)         | 359         |
|    | South America (São Paulo) | 360         |
| ٩V | VS Nitro System           | 361         |
|    | Nitro components          | 361         |
|    | Virtualized instances     | 361         |
|    | Bare metal instances      | 362         |
|    | Requirements              | 363         |
| Qι | ıotas                     | 364         |
|    | On-Demand Instance quotas | 364         |
|    | Spot Instance quotas      | 365         |
|    | Dedicated Host quotas     | 365         |
| ٦, | ocument history           | <b>77</b> 2 |

# **Amazon EC2 instance types**

When you launch an EC2 instance, the *instance type* that you specify determines the hardware of the host computer used for your instance. Each instance type offers different compute, memory, and storage capabilities, and is grouped in an instance family based on these capabilities. Select an instance type based on the requirements of the application or software that you plan to run on your instance.

Amazon EC2 dedicates some resources of the host computer, such as CPU, memory, and instance storage, to a particular instance. Amazon EC2 shares other resources of the host computer, such as the network and the disk subsystem, among instances. If each instance on a host computer tries to use as much of one of these shared resources as possible, each receives an equal share of that resource. However, when a resource is underused, an instance can consume a higher share of that resource while it's available.

Each instance type provides higher or lower minimum performance from a shared resource. For example, instance types with high I/O performance have a larger allocation of shared resources. Allocating a larger share of shared resources also reduces the variance of I/O performance. For most applications, moderate I/O performance is more than enough. However, for applications that require greater or more consistent I/O performance, consider an instance type with higher I/O performance.

#### **Contents**

- Current generation instances
- Previous generation instances
- Amazon EC2 instance type naming conventions
- Amazon EC2 instance type specifications
- Instances built on the AWS Nitro System
- Amazon EC2 instance type quotas

## **Current generation instances**

For the best performance, we recommend that you use the following instance types when you launch new instances. For more information, see Amazon EC2 Instance Types.

General purpose: M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | Mac2-m2 | Mac2-m2pro | T2 | T3 | T3a | T4g

- Compute optimized: C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a
   | C7g | C7gd | C7gn | C7i
- Memory optimized: R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X1 | X2gd | X2idn | X2iedn | X2iezn | X1e | z1d
- Storage optimized: D2 | D3 | D3en | H1 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated computing: DL1 | DL2q | F1 | G4ad | G4dn | G5 | G5g | G6 | Gr6 | Inf1 | Inf2 | P2 | P3 |
   P3dn | P4d | P4de | P5 | Trn1 | Trn1n | VT1
- High-performance computing: Hpc6a | Hpc6id | Hpc7a | Hpc7g

## **Previous generation instances**

Amazon Web Services offers previous generation instance types for users who have optimized their applications around them and have yet to upgrade. We encourage you to use current generation instance types to get the best performance, but we continue to support the following previous generation instance types. For more information about which current generation instance type would be a suitable upgrade, see Previous Generation Instances.

General purpose: A1 | M1 | M2 | M3 | M4 | T1

• Compute optimized: C1 | C3 | C4

• Memory optimized: R3 | R4

• Storage optimized: 12

Accelerated computing: G3

## Instance performance

#### **Fixed performance instances**

Fixed performance instances provide fixed CPU resources. These instances can deliver and sustain full CPU performance at any time, and for as long as a workload needs it.

Previous generation instances

If you need consistently high CPU performance for applications such as video encoding, high volume websites, or HPC applications, we recommend that you use fixed performance instances.

#### **Burstable performance instances**

Burstable performance (T) instances provide a baseline level of CPU performance with the ability to burst above the baseline. The baseline CPU is designed to meet the needs of the majority of general purpose workloads, such as large-scale micro-services, web servers, small and medium databases, data logging, code repositories, virtual desktops, and development and test environments.

The baseline utilization and ability to burst are governed by CPU credits. Each burstable performance instance continuously earns credits when it stays below the CPU baseline, and continuously spends credits when it bursts above the baseline.

For more information, see <u>Burstable performance instances</u> in the *Amazon EC2 User Guide for Linux Instances*.

#### Flex instances

M7i-flex instances offer a balance of compute, memory, and network resources, and they provide the most cost-effective way to run a broad spectrum of general purpose applications. M7i-flex instances provide reliable CPU resources to deliver a baseline CPU performance of 40 percent, which is designed to meet the compute requirements for a majority of general purpose workloads. When more performance is needed, M7i-flex instances provide the ability to exceed the baseline CPU performance and deliver up to 100 percent CPU performance for 95 percent of the time over a 24-hour window.

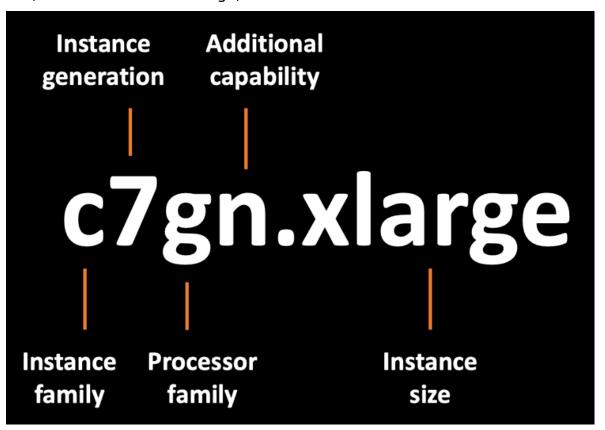
M7i-flex instances running at a high CPU utilization that is consistently above the baseline for long periods of time might see a gradual reduction in the maximum burst CPU throughput.

For more information, see <u>M7i-flex instances</u>.

Instance performance 3

# Amazon EC2 instance type naming conventions

Amazon EC2 provides a variety of instance types so you can choose the type that best meets your requirements. Instance types are named based on their family, generation, processor family, additional capabilities, and size. The first position of the instance type name indicates the instance family, for example c. The second position indicates the instance generation, for example 7. The third position indicates the processor family, for example g. The remaining letters before the period indicate additional capabilities, such as instance store volumes. After the period (.) is the instance size, such as small or  $4 \times 1 = 1$  for bare metal instances.



| Instance families  | Processor families   | Additional capabilities  |
|--|--|--|
| <ul> <li>C – Compute optimized</li> <li>D – Dense storage</li> <li>F – FPGA</li> <li>G – Graphics intensive</li> </ul> | <ul> <li>a – AMD processors</li> <li>g – AWS Graviton processor</li> <li>i – Intel processors</li> </ul> | <ul> <li>b – Block storage optimizat ion</li> <li>d – Instance store volumes</li> <li>e – Extra storage or memory</li> <li>flex – Flex instance</li> </ul> |

| Instance families  | Processor families | Additional capabilities                           |
|--|--------------------|---|
| <ul> <li>Hpc – High performance computing</li> </ul>                                     |                    | <ul> <li>n – Network and EBS optimized</li> </ul> |
| <ul> <li>I – Storage optimized</li> </ul>  |                    | • <b>q</b> – Qualcomm inference                   |
| <ul> <li>Im – Storage optimized         (1 to 4 ratio of vCPU to memory)     </li> </ul> |                    | <ul><li>z – High performance</li></ul>            |
| <ul> <li>Is – Storage optimized (1 to<br/>6 ratio of vCPU to memory)</li> </ul>          |                    |   |
| • Inf – AWS Inferentia   |                    |   |
| • <b>M</b> – General purpose   |                    |   |
| • Mac – macOS  |                    |   |
| • <b>P</b> – GPU accelerated   |                    |   |
| • <b>R</b> – Memory optimized  |                    |   |
| • <b>T</b> – Burstable performance   |                    |   |
| • Trn – AWS Trainium   |                    |   |
| • <b>U</b> – High memory   |                    |   |
| • VT – Video transcoding   |                    |   |
| • X – Memory intensive   |                    |   |

# **Amazon EC2 instance type specifications**

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and give you the flexibility to choose the appropriate mix of resources for your applications. Each instance type includes one or more instance sizes, allowing you to scale your resources to the requirements of your target workload.

We group EC2 instance into the following categories:

- General purpose Provide a balance of compute, memory, and networking resources. These
  instances are ideal for applications that use these resources in equal proportions, such as web
  servers and code repositories.
  - **Burstable performance** The T instance family is also referred to as burstable performance instances. These instances provide a baseline CPU performance with the ability to burst above the baseline at any time. For more information, see <u>Burstable performance instances</u> in the *Amazon EC2 User Guide for Linux Instances*.
- **Compute optimized** Designed for compute intensive applications that benefit from high performance processors. These instances are ideal for batch processing workloads, media transcoding, high performance web servers, high performance computing (HPC), scientific modeling, dedicated gaming servers, ad server engines, and machine learning inference.
- Memory optimized Designed to deliver fast performance for workloads that process large data sets in memory.
- **Storage optimized** Designed for workloads that require high, sequential read and write access to very large data sets on local storage. They are optimized to deliver tens of thousands of low-latency, random I/O operations per second (IOPS) to applications.
- Accelerated computing Use hardware accelerators, or co-processors, to perform functions, such as floating point number calculations, graphics processing, or data pattern matching, more efficiently than is possible in software running on CPUs.
- **High-performance computing** Purpose built to offer the best price performance for running HPC workloads at scale on AWS. These instances are ideal for applications that benefit from high-performance processors, such as large, complex simulations and deep learning workloads.
- Previous generation AWS offers previous generation instance types for users who have optimized their applications around them and have yet to upgrade. We encourage you to use

current generation instance types to get the best performance, but we continue to support previous generation instance types.

To determine which instance types meet your requirements, such as supported Regions, compute resources, or storage resources, see Find an Amazon EC2 instance type.

#### **Contents**

- General purpose instances
- Compute optimized instances
- Memory optimized instances
- Storage optimized instances
- Accelerated computing instances
- High-performance computing instances
- Previous generation instances

## **General purpose instances**

General purpose instances provide a balance of compute, memory, and networking resources. These instances are ideal for applications that use these resources in equal proportions, such as web servers and code repositories.

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

General purpose 7

# **Available sizes**

| Instance<br>type | Available sizes  |  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|--|--|
| M5               | m5.large m5.xlarge  m5.2xlarge  m5.4xlarge  m5.8xlarge  <br>m5.12xlarge  m5.16xlarge  m5.24xlarge  m5.metal  |  |  |  |  |  |  |  |  |
| M5a              | m5a.large   m5a.xlarge   m5a.2xlarge   m5a.4xlarge   m5a.8xlar<br>ge   m5a.12xlarge   m5a.16xlarge   m5a.24xlarge  |  |  |  |  |  |  |  |  |
| M5ad             | <pre>m5ad.large   m5ad.xlarge   m5ad.2xlarge   m5ad.4xlarge   m5ad.8xlarge   m5ad.12xlarge   m5ad.16xlarge   m5ad.24xlarge</pre>                               |  |  |  |  |  |  |  |  |
| M5d              | <pre>m5d.large   m5d.xlarge   m5d.2xlarge   m5d.4xlarge   m5d.8xlar<br/>ge   m5d.12xlarge   m5d.16xlarge   m5d.24xlarge   m5d.metal</pre>                      |  |  |  |  |  |  |  |  |
| M5dn             | <pre>m5dn.large   m5dn.xlarge   m5dn.2xlarge   m5dn.4xlarge   m5dn.8xlarge   m5dn.12xlarge   m5dn.16xlarge   m5dn.24xlarge   m5dn.metal</pre>                  |  |  |  |  |  |  |  |  |
| M5n              | m5n.large   m5n.xlarge   m5n.2xlarge   m5n.4xlarge   m5n.8xlar<br>ge   m5n.12xlarge   m5n.16xlarge   m5n.24xlarge   m5n.metal                                  |  |  |  |  |  |  |  |  |
| M5zn             | m5zn.large  m5zn.xlarge  m5zn.2xlarge  m5zn.3xlarge  <br>m5zn.6xlarge  m5zn.12xlarge  m5zn.metal   |  |  |  |  |  |  |  |  |
| M6a              | m6a.large   m6a.xlarge   m6a.2xlarge   m6a.4xlarge   m6a.8xlar<br>ge   m6a.12xlarge   m6a.16xlarge   m6a.24xlarge   m6a.32xlarge  <br>m6a.48xlarge   m6a.metal |  |  |  |  |  |  |  |  |
| M6g              | <pre>m6g.medium   m6g.large   m6g.xlarge   m6g.2xlarge   m6g.4xlarge   m6g.8xlarge   m6g.12xlarge   m6g.16xlarge   m6g.metal</pre>                             |  |  |  |  |  |  |  |  |
| M6gd             | <pre>m6gd.medium   m6gd.large   m6gd.xlarge   m6gd.2xlarge   m6gd.4xlarge   m6gd.8xlarge   m6gd.12xlarge   m6gd.16xlarge   m6gd.metal</pre>                    |  |  |  |  |  |  |  |  |

Available sizes 8

| Instance<br>type | Available sizes  |
|------------------|--|
| M6i              | <pre>m6i.large   m6i.xlarge   m6i.2xlarge   m6i.4xlarge   m6i.8xlar<br/>ge   m6i.12xlarge   m6i.16xlarge   m6i.24xlarge   m6i.32xlarge  <br/>m6i.metal</pre>                       |
| M6id             | <pre>m6id.large   m6id.xlarge   m6id.2xlarge   m6id.4xlarge   m6id.8xlarge   m6id.12xlarge   m6id.16xlarge   m6id.24xlarge   m6id.32xlarge   m6id.metal</pre>                      |
| M6idn            | <pre>m6idn.large   m6idn.xlarge   m6idn.2xlarge   m6idn.4xlarge   m6idn.8xlarge   m6idn.12xlarge   m6idn.16xlarge   m6idn.24x   large   m6idn.32xlarge   m6idn.metal</pre>         |
| M6in             | <pre>m6in.large   m6in.xlarge   m6in.2xlarge   m6in.4xlarge   m6in.8xlarge   m6in.12xlarge   m6in.16xlarge   m6in.24xlarge   m6in.32xlarge   m6in.metal</pre>                      |
| M7a              | m7a.medium  m7a.large  m7a.xlarge  m7a.2xlarge  m7a.4xlar<br>ge  m7a.8xlarge  m7a.12xlarge  m7a.16xlarge  m7a.24xlarge  <br>m7a.32xlarge  m7a.48xlarge  m7a.metal-48xl             |
| M7g              | m7g.medium   m7g.large   m7g.xlarge   m7g.2xlarge   m7g.4xlarge   m7g.8xlarge   m7g.12xlarge   m7g.16xlarge   m7g.metal  |
| M7gd             | <pre>m7gd.medium  m7gd.large  m7gd.xlarge  m7gd.2xlarge   m7gd.4xlarge  m7gd.8xlarge  m7gd.12xlarge  m7gd.16xlarge   m7gd.metal</pre>  |
| M7i              | <pre>m7i.large   m7i.xlarge   m7i.2xlarge   m7i.4xlarge   m7i.8xlar<br/>ge   m7i.12xlarge   m7i.16xlarge   m7i.24xlarge   m7i.48xlarge  <br/>m7i.metal-24xl   m7i.metal-48xl</pre> |
| M7i-flex         | <pre>m7i-flex.large  m7i-flex.xlarge  m7i-flex.2xlarge  m7i-flex. 4xlarge  m7i-flex.8xlarge</pre>  |
| Mac1             | mac1.metal   |

Available sizes 9

| Instance<br>type | Available sizes   |
|------------------|---|
| Mac2             | mac2.metal  |
| Mac2-m2          | mac2-m2.metal   |
| Mac2-<br>m2pro   | mac2-m2pro.metal  |
| T2               | t2.nano t2.micro t2.small t2.medium  t2.large t2.xlarge   t2.2xlarge              |
| Т3               | t3.nano t3.micro t3.small t3.medium  t3.large t3.xlarge  <br>t3.2xlarge           |
| T3a              | t3a.nano t3a.micro  t3a.small  t3a.medium  t3a.large  <br>t3a.xlarge  t3a.2xlarge |
| T4g              | t4g.nano t4g.micro  t4g.small  t4g.medium  t4g.large  <br>t4g.xlarge  t4g.2xlarge |

# **Platform summary**

| Instance<br>type | Hyperviso<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instance:<br>available | Dedicated<br>Hosts<br>support | Spot<br>support | Hibernati<br>on<br>support | Supported operating systems |
|------------------|----------------|---|---------------------------------|-------------------------------|-----------------|----------------------------|-----------------------------|
| M5               | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | ✓                          | Windows  <br>Linux          |
| M5a              | Nitro          | AMD<br>(x86_64)                         | X                               | X                             | ✓               | ✓                          | Windows  <br>Linux          |
| M5ad             | Nitro          | AMD<br>(x86_64)                         | X                               | X                             | ✓               | ✓                          | Windows  <br>Linux          |

Platform summary 10

| Instance<br>type | Hyperviso<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instance:<br>available | Dedicated<br>Hosts<br>support | Spot<br>support | Hibernati<br>on<br>support | Supported operating systems |
|------------------|----------------|---|---------------------------------|-------------------------------|-----------------|----------------------------|-----------------------------|
| M5d              | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | ✓                          | Windows  <br>Linux          |
| M5dn             | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | x                          | Windows  <br>Linux          |
| M5n              | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | x                          | Windows  <br>Linux          |
| M5zn             | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | x                          | Windows  <br>Linux          |
| M6a              | Nitro          | AMD<br>(x86_64)                         | ✓                               | ✓                             | ✓               | x                          | Windows  <br>Linux          |
| M6g              | Nitro          | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                             | ✓               | X                          | Linux                       |
| M6gd             | Nitro          | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                             | ✓               | X                          | Linux                       |
| M6i              | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | ✓                          | Windows  <br>Linux          |
| M6id             | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | ✓                          | Windows  <br>Linux          |
| M6idn            | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | X                          | Windows  <br>Linux          |
| M6in             | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | x                          | Windows  <br>Linux          |

Platform summary 11

| Instance<br>type | Hyperviso<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instance:<br>available | Dedicated<br>Hosts<br>support | Spot<br>support | Hibernati<br>on<br>support | Supported operating systems |
|------------------|----------------|---|---------------------------------|-------------------------------|-----------------|----------------------------|-----------------------------|
| М7а              | Nitro          | AMD<br>(x86_64)                         | ✓                               | ✓                             | ✓               | X                          | Windows  <br>Linux          |
| M7g              | Nitro          | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                             | ✓               | X                          | Linux                       |
| M7gd             | Nitro          | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                             | ✓               | X                          | Linux                       |
| M7i              | Nitro          | Intel<br>(x86_64)                       | ✓                               | ✓                             | ✓               | ✓                          | Windows  <br>Linux          |
| M7i-flex         | Nitro          | Intel<br>(x86_64)                       | X                               | X                             | ✓               | ✓                          | Windows  <br>Linux          |
| Mac1             | Nitro          | Intel<br>(x86_64_m<br>ac)               | ✓                               | ✓                             | X               | X                          | Linux                       |
| Mac2             | Nitro          | Apple<br>(arm64_ma<br>c)                | ✓                               | ✓                             | X               | X                          | Linux                       |
| Mac2-<br>m2      | Nitro          | Apple<br>(arm64_ma<br>c)                | ✓                               | ✓                             | X               | X                          | Linux                       |
| Mac2-<br>m2pro   | Nitro          | Apple<br>(arm64_ma<br>c)                | ✓                               | ✓                             | X               | X                          | Linux                       |

Platform summary 12

| Instance<br>type | Hyperviso<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instance:<br>available |   | Spot<br>support | Hibernati<br>on<br>support | Supported operating systems |
|------------------|----------------|---|---------------------------------|---|-----------------|----------------------------|-----------------------------|
| T2               | Xen            | Intel<br>(x86_64)                       | X                               | X | ✓               | ✓                          | Windows  <br>Linux          |
| Т3               | Nitro          | Intel<br>(x86_64)                       | X                               | ✓ | ✓               | ✓                          | Windows  <br>Linux          |
| T3a              | Nitro          | AMD<br>(x86_64)                         | X                               | X | ✓               | ✓                          | Windows  <br>Linux          |
| T4g              | Nitro          | AWS<br>Graviton<br>(arm64)              | X                               | X | ✓               | X                          | Linux                       |

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
|               |           |                 | M5                          |       |              |                        |                  |
| m5.large      | X         | 8.00            | Intel Xeon<br>Platinum 8175 | 2     | 1            | 2                      | X                |
| m5.xlarge     | X         | 16.00           | Intel Xeon<br>Platinum 8175 | 4     | 2            | 2                      | X                |
| m5.2xlarge    | X         | 32.00           | Intel Xeon<br>Platinum 8175 | 8     | 4            | 2                      | X                |
| m5.4xlarge    | X         | 64.00           | Intel Xeon<br>Platinum 8175 | 16    | 8            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| m5.8xlarge    | X         | 128.00          | Intel Xeon<br>Platinum 8175 | 32    | 16           | 2                      | X                |
| m5.12xlarge   | X         | 192.00          | Intel Xeon<br>Platinum 8175 | 48    | 24           | 2                      | X                |
| m5.16xlarge   | X         | 256.00          | Intel Xeon<br>Platinum 8175 | 64    | 32           | 2                      | X                |
| m5.24xlarge   | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
| m5.metal      | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
|               |           |                 | M5a                         |       |              |                        |                  |
| m5a.large     | X         | 8.00            | AMD EPYC<br>7571            | 2     | 1            | 2                      | X                |
| m5a.xlarge    | X         | 16.00           | AMD EPYC<br>7571            | 4     | 2            | 2                      | X                |
| m5a.2xlarge   | X         | 32.00           | AMD EPYC<br>7571            | 8     | 4            | 2                      | X                |
| m5a.4xlarge   | X         | 64.00           | AMD EPYC<br>7571            | 16    | 8            | 2                      | X                |
| m5a.8xlarge   | X         | 128.00          | AMD EPYC<br>7571            | 32    | 16           | 2                      | X                |
| m5a.12xlarge  | X         | 192.00          | AMD EPYC<br>7571            | 48    | 24           | 2                      | X                |

| Instance type     | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|-------------------|-----------|-----------------|-----------------------------|-------|--------------|------------------|------------------|
| m5a.16xlarge      | X         | 256.00          | AMD EPYC<br>7571            | 64    | 32           | 2                | X                |
| m5a.24xlarge      | X         | 384.00          | AMD EPYC<br>7571            | 96    | 48           | 2                | X                |
|                   |           |                 | M5ad                        |       |              |                  |                  |
| m5ad.large        | X         | 8.00            | AMD EPYC<br>7571            | 2     | 1            | 2                | X                |
| m5ad.xlarge       | X         | 16.00           | AMD EPYC<br>7571            | 4     | 2            | 2                | X                |
| m5ad.2xlarge      | X         | 32.00           | AMD EPYC<br>7571            | 8     | 4            | 2                | X                |
| m5ad.4xlarge      | X         | 64.00           | AMD EPYC<br>7571            | 16    | 8            | 2                | X                |
| m5ad.8xlarge      | X         | 128.00          | AMD EPYC<br>7571            | 32    | 16           | 2                | X                |
| m5ad.12xl<br>arge | X         | 192.00          | AMD EPYC<br>7571            | 48    | 24           | 2                | X                |
| m5ad.16xl<br>arge | X         | 256.00          | AMD EPYC<br>7571            | 64    | 32           | 2                | X                |
| m5ad.24xl<br>arge | X         | 384.00          | AMD EPYC<br>7571            | 96    | 48           | 2                | X                |
|                   |           |                 | M5d                         |       |              |                  |                  |
| m5d.large         | X         | 8.00            | Intel Xeon<br>Platinum 8175 | 2     | 1            | 2                | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| m5d.xlarge    | X         | 16.00           | Intel Xeon<br>Platinum 8175 | 4     | 2            | 2                      | X                |
| m5d.2xlarge   | X         | 32.00           | Intel Xeon<br>Platinum 8175 | 8     | 4            | 2                      | X                |
| m5d.4xlarge   | X         | 64.00           | Intel Xeon<br>Platinum 8175 | 16    | 8            | 2                      | X                |
| m5d.8xlarge   | X         | 128.00          | Intel Xeon<br>Platinum 8175 | 32    | 16           | 2                      | X                |
| m5d.12xlarge  | X         | 192.00          | Intel Xeon<br>Platinum 8175 | 48    | 24           | 2                      | X                |
| m5d.16xlarge  | X         | 256.00          | Intel Xeon<br>Platinum 8175 | 64    | 32           | 2                      | X                |
| m5d.24xlarge  | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
| m5d.metal     | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
|               |           |                 | M5dn                        |       |              |                        |                  |
| m5dn.large    | X         | 8.00            | Intel Xeon<br>Platinum 8259 | 2     | 1            | 2                      | x                |
| m5dn.xlarge   | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| m5dn.2xlarge  | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | x                |

| Instance type     | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-------------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| m5dn.4xlarge      | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |
| m5dn.8xlarge      | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | X                |
| m5dn.12xl<br>arge | X         | 192.00          | Intel Xeon<br>Platinum 8259 | 48    | 24           | 2                      | X                |
| m5dn.16xl<br>arge | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 64    | 32           | 2                      | X                |
| m5dn.24xl<br>arge | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
| m5dn.metal        | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
|                   |           |                 | M5n                         |       |              |                        |                  |
| m5n.large         | X         | 8.00            | Intel Xeon<br>Platinum 8259 | 2     | 1            | 2                      | x                |
| m5n.xlarge        | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| m5n.2xlarge       | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | X                |
| m5n.4xlarge       | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |
| m5n.8xlarge       | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | x                |

| Instance type     | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-------------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| m5n.12xlarge      | X         | 192.00          | Intel Xeon<br>Platinum 8259 | 48    | 24           | 2                      | X                |
| m5n.16xlarge      | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 64    | 32           | 2                      | X                |
| m5n.24xlarge      | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
| m5n.metal         | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
|                   |           |                 | M5zn                        |       |              |                        |                  |
| m5zn.large        | X         | 8.00            | Intel Xeon<br>Platinum 8252 | 2     | 1            | 2                      | X                |
| m5zn.xlarge       | X         | 16.00           | Intel Xeon<br>Platinum 8252 | 4     | 2            | 2                      | X                |
| m5zn.2xlarge      | X         | 32.00           | Intel Xeon<br>Platinum 8252 | 8     | 4            | 2                      | X                |
| m5zn.3xlarge      | X         | 48.00           | Intel Xeon<br>Platinum 8252 | 12    | 6            | 2                      | X                |
| m5zn.6xlarge      | X         | 96.00           | Intel Xeon<br>Platinum 8252 | 24    | 12           | 2                      | X                |
| m5zn.12xl<br>arge | X         | 192.00          | Intel Xeon<br>Platinum 8252 | 48    | 24           | 2                      | X                |
| m5zn.metal        | X         | 192.00          | Intel Xeon<br>Platinum 8252 | 48    | 24           | 2                      | X                |
|                   |           |                 | M6a                         |       |              |                        |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------|-------|--------------|------------------------|------------------|
| m6a.large     | X         | 8.00            | AMD EPYC<br>7R13 | 2     | 1            | 2                      | X                |
| m6a.xlarge    | X         | 16.00           | AMD EPYC<br>7R13 | 4     | 2            | 2                      | X                |
| m6a.2xlarge   | X         | 32.00           | AMD EPYC<br>7R13 | 8     | 4            | 2                      | X                |
| m6a.4xlarge   | X         | 64.00           | AMD EPYC<br>7R13 | 16    | 8            | 2                      | X                |
| m6a.8xlarge   | X         | 128.00          | AMD EPYC<br>7R13 | 32    | 16           | 2                      | X                |
| m6a.12xlarge  | X         | 192.00          | AMD EPYC<br>7R13 | 48    | 24           | 2                      | X                |
| m6a.16xlarge  | X         | 256.00          | AMD EPYC<br>7R13 | 64    | 32           | 2                      | X                |
| m6a.24xlarge  | X         | 384.00          | AMD EPYC<br>7R13 | 96    | 48           | 2                      | X                |
| m6a.32xlarge  | X         | 512.00          | AMD EPYC<br>7R13 | 128   | 64           | 2                      | X                |
| m6a.48xlarge  | X         | 768.00          | AMD EPYC<br>7R13 | 192   | 96           | 2                      | X                |
| m6a.metal     | X         | 768.00          | AMD EPYC<br>7R13 | 192   | 96           | 2                      | X                |
|               |           |                 | M6g              |       |              |                        |                  |

| Instance type   | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-----------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| m6g.medium      | X         | 4.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| m6g.large       | X         | 8.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| m6g.xlarge      | X         | 16.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| m6g.2xlarge     | X         | 32.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| m6g.4xlarge     | X         | 64.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| m6g.8xlarge     | X         | 128.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| m6g.12xlarge    | X         | 192.00          | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| m6g.16xlarge    | X         | 256.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
| m6g.metal       | X         | 256.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|                 |           |                 | M6gd                       |       |              |                        |                  |
| m6gd.medi<br>um | X         | 4.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| m6gd.large      | X         | 8.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |

| Instance type     | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| m6gd.xlarge       | X         | 16.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| m6gd.2xlarge      | X         | 32.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| m6gd.4xlarge      | X         | 64.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| m6gd.8xlarge      | X         | 128.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| m6gd.12xl<br>arge | X         | 192.00          | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| m6gd.16xl<br>arge | X         | 256.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
| m6gd.metal        | X         | 256.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|                   |           |                 | M6i                        |       |              |                        |                  |
| m6i.large         | X         | 8.00            | Intel Xeon Ice<br>Lake     | 2     | 1            | 2                      | X                |
| m6i.xlarge        | X         | 16.00           | Intel Xeon Ice<br>Lake     | 4     | 2            | 2                      | X                |
| m6i.2xlarge       | X         | 32.00           | Intel Xeon Ice<br>Lake     | 8     | 4            | 2                      | X                |
| m6i.4xlarge       | X         | 64.00           | Intel Xeon Ice<br>Lake     | 16    | 8            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| m6i.8xlarge   | X         | 128.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| m6i.12xlarge  | X         | 192.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| m6i.16xlarge  | X         | 256.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| m6i.24xlarge  | X         | 384.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| m6i.32xlarge  | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| m6i.metal     | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | M6id                   |       |              |                        |                  |
| m6id.large    | X         | 8.00            | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |
| m6id.xlarge   | X         | 16.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |
| m6id.2xlarge  | X         | 32.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| m6id.4xlarge  | X         | 64.00           | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| m6id.8xlarge  | X         | 128.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| m6id.12xlarge      | X         | 192.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| m6id.16xlarge      | X         | 256.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| m6id.24xlarge      | X         | 384.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| m6id.32xlarge      | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| m6id.metal         | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|                    |           |                 | M6idn                  |       |              |                        |                  |
| m6idn.large        | X         | 8.00            | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |
| m6idn.xlarge       | X         | 16.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |
| m6idn.2xlarge      | X         | 32.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| m6idn.4xlarge      | X         | 64.00           | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| m6idn.8xlarge      | X         | 128.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| m6idn.12x<br>large | X         | 192.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| m6idn.16x<br>large | X         | 256.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| m6idn.24x<br>large | X         | 384.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| m6idn.32x<br>large | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| m6idn.metal        | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|                    |           |                 | M6in                   |       |              |                        |                  |
| m6in.large         | X         | 8.00            | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |
| m6in.xlarge        | X         | 16.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | x                |
| m6in.2xlarge       | X         | 32.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| m6in.4xlarge       | X         | 64.00           | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| m6in.8xlarge       | X         | 128.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| m6in.12xlarge      | X         | 192.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| m6in.16xlarge      | X         | 256.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| m6in.24xlarge | X         | 384.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| m6in.32xlarge | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| m6in.metal    | X         | 512.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | M7a                    |       |              |                        |                  |
| m7a.medium    | X         | 4.00            | AMD EPYC<br>9R14       | 1     | 1            | 1                      | X                |
| m7a.large     | X         | 8.00            | AMD EPYC<br>9R14       | 2     | 2            | 1                      | X                |
| m7a.xlarge    | X         | 16.00           | AMD EPYC<br>9R14       | 4     | 4            | 1                      | X                |
| m7a.2xlarge   | X         | 32.00           | AMD EPYC<br>9R14       | 8     | 8            | 1                      | X                |
| m7a.4xlarge   | X         | 64.00           | AMD EPYC<br>9R14       | 16    | 16           | 1                      | X                |
| m7a.8xlarge   | X         | 128.00          | AMD EPYC<br>9R14       | 32    | 32           | 1                      | X                |
| m7a.12xlarge  | X         | 192.00          | AMD EPYC<br>9R14       | 48    | 48           | 1                      | X                |
| m7a.16xlarge  | X         | 256.00          | AMD EPYC<br>9R14       | 64    | 64           | 1                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| m7a.24xlarge       | X         | 384.00          | AMD EPYC<br>9R14           | 96    | 96           | 1                      | X                |
| m7a.32xlarge       | X         | 512.00          | AMD EPYC<br>9R14           | 128   | 128          | 1                      | X                |
| m7a.48xlarge       | X         | 768.00          | AMD EPYC<br>9R14           | 192   | 192          | 1                      | X                |
| m7a.metal<br>-48xl | X         | 768.00          | AMD EPYC<br>9R14           | 192   | 192          | 1                      | X                |
|                    |           |                 | M7g                        |       |              |                        |                  |
| m7g.medium         | X         | 4.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                      | X                |
| m7g.large          | X         | 8.00            | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| m7g.xlarge         | X         | 16.00           | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |
| m7g.2xlarge        | X         | 32.00           | AWS Graviton3<br>Processor | 8     | 8            | 1                      | X                |
| m7g.4xlarge        | X         | 64.00           | AWS Graviton3<br>Processor | 16    | 16           | 1                      | X                |
| m7g.8xlarge        | X         | 128.00          | AWS Graviton3<br>Processor | 32    | 32           | 1                      | X                |
| m7g.12xlarge       | X         | 192.00          | AWS Graviton3<br>Processor | 48    | 48           | 1                      | X                |

| Instance type     | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| m7g.16xlarge      | X         | 256.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
| m7g.metal         | X         | 256.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
|                   |           |                 | M7gd                       |       |              |                        |                  |
| m7gd.medi<br>um   | X         | 4.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                      | X                |
| m7gd.large        | X         | 8.00            | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| m7gd.xlarge       | X         | 16.00           | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |
| m7gd.2xlarge      | X         | 32.00           | AWS Graviton3<br>Processor | 8     | 8            | 1                      | X                |
| m7gd.4xlarge      | X         | 64.00           | AWS Graviton3<br>Processor | 16    | 16           | 1                      | X                |
| m7gd.8xlarge      | X         | 128.00          | AWS Graviton3<br>Processor | 32    | 32           | 1                      | X                |
| m7gd.12xl<br>arge | X         | 192.00          | AWS Graviton3<br>Processor | 48    | 48           | 1                      | X                |
| m7gd.16xl<br>arge | X         | 256.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
| m7gd.metal        | X         | 256.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
|                   |           |                 | M7i                        |       |              |                        |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------------|-------|--------------|------------------------|------------------|
| m7i.large     | X         | 8.00            | Intel Xeon<br>Sapphire<br>Rapids | 2     | 1            | 2                      | X                |
| m7i.xlarge    | X         | 16.00           | Intel Xeon<br>Sapphire<br>Rapids | 4     | 2            | 2                      | X                |
| m7i.2xlarge   | X         | 32.00           | Intel Xeon<br>Sapphire<br>Rapids | 8     | 4            | 2                      | X                |
| m7i.4xlarge   | x         | 64.00           | Intel Xeon<br>Sapphire<br>Rapids | 16    | 8            | 2                      | X                |
| m7i.8xlarge   | X         | 128.00          | Intel Xeon<br>Sapphire<br>Rapids | 32    | 16           | 2                      | X                |
| m7i.12xlarge  | X         | 192.00          | Intel Xeon<br>Sapphire<br>Rapids | 48    | 24           | 2                      | X                |
| m7i.16xlarge  | X         | 256.00          | Intel Xeon<br>Sapphire<br>Rapids | 64    | 32           | 2                      | X                |
| m7i.24xlarge  | x         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                      | X                |
| m7i.48xlarge  | x         | 768.00          | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                      | X                |

| Instance type        | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|----------------------|-----------|-----------------|----------------------------------|-------|--------------|------------------|------------------|
| m7i.metal<br>-24xl   | X         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                | X                |
| m7i.metal<br>-48xl   | X         | 768.00          | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                | X                |
|                      |           |                 | M7i-flex                         |       |              |                  |                  |
| m7i-flex.large       | X         | 8.00            | Intel Xeon<br>Sapphire<br>Rapids | 2     | 1            | 2                | X                |
| m7i-flex.<br>xlarge  | X         | 16.00           | Intel Xeon<br>Sapphire<br>Rapids | 4     | 2            | 2                | X                |
| m7i-flex.<br>2xlarge | X         | 32.00           | Intel Xeon<br>Sapphire<br>Rapids | 8     | 4            | 2                | X                |
| m7i-flex.<br>4xlarge | X         | 64.00           | Intel Xeon<br>Sapphire<br>Rapids | 16    | 8            | 2                | X                |
| m7i-flex.<br>8xlarge | X         | 128.00          | Intel Xeon<br>Sapphire<br>Rapids | 32    | 16           | 2                | X                |
|                      |           |                 | Mac1                             |       |              |                  |                  |
| mac1.metal           | X         | 32.00           | Intel Core<br>i7-8700B           | 12    | 6            | 2                | X                |

| Instance type        | Burstable | Memory<br>(GiB) | Processor                           | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|----------------------|-----------|-----------------|-------------------------------------|-------|--------------|------------------------|------------------|
|                      |           |                 | Mac2                                |       |              |                        |                  |
| mac2.metal           | X         | 16.00           | Apple M1 chip<br>with 8-core<br>CPU | 8     | 4            | 2                      | X                |
|                      |           |                 | Mac2-m2                             |       |              |                        |                  |
| mac2-m2.m<br>etal    | X         | 24.00           | Apple M2 with<br>8-core CPU         | 8     | 8            | 1                      | X                |
|                      |           |                 | Mac2-m2pro                          |       |              |                        |                  |
| mac2-m2pr<br>o.metal | X         | 32.00           | Apple M2 Pro<br>with 12-core<br>CPU | 12    | 12           | 1                      | X                |
|                      |           |                 | T2                                  |       |              |                        |                  |
| t2.nano              | ✓         | 0.50            | Intel Xeon<br>Family                | 1     | 1            | 1                      | X                |
| t2.micro             | ✓         | 1.00            | Intel Xeon<br>Family                | 1     | 1            | 1                      | X                |
| t2.small             | ✓         | 2.00            | Intel Xeon<br>Family                | 1     | 1            | 1                      | X                |
| t2.medium            | ✓         | 4.00            | Intel Broadwell<br>E5-2686v4        | 2     | 2            | 1                      | X                |
| t2.large             | ✓         | 8.00            | Intel Broadwell<br>E5-2686v4        | 2     | 2            | 1                      | X                |
| t2.xlarge            | ✓         | 16.00           | Intel Broadwell<br>E5-2686v4        | 4     | 4            | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| t2.2xlarge    | ✓         | 32.00           | Intel Broadwell<br>E5-2686v4 | 8     | 8            | 1                      | X                |
|               |           |                 | Т3                           |       |              |                        |                  |
| t3.nano       | ✓         | 0.50            | Intel Skylake<br>P-8175      | 2     | 1            | 2                      | X                |
| t3.micro      | <b>√</b>  | 1.00            | Intel Skylake<br>P-8175      | 2     | 1            | 2                      | X                |
| t3.small      | ✓         | 2.00            | Intel Skylake<br>P-8175      | 2     | 1            | 2                      | X                |
| t3.medium     | ✓         | 4.00            | Intel Skylake<br>P-8175      | 2     | 1            | 2                      | X                |
| t3.large      | ✓         | 8.00            | Intel Skylake<br>P-8175      | 2     | 1            | 2                      | X                |
| t3.xlarge     | ✓         | 16.00           | Intel Skylake<br>P-8175      | 4     | 2            | 2                      | X                |
| t3.2xlarge    | ✓         | 32.00           | Intel Skylake<br>P-8175      | 8     | 4            | 2                      | X                |
|               |           |                 | T3a                          |       |              |                        |                  |
| t3a.nano      | ✓         | 0.50            | AMD EPYC<br>7571             | 2     | 1            | 2                      | X                |
| t3a.micro     | ✓         | 1.00            | AMD EPYC<br>7571             | 2     | 1            | 2                      | x                |
| t3a.small     | ✓         | 2.00            | AMD EPYC<br>7571             | 2     | 1            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| t3a.medium    | ✓         | 4.00            | AMD EPYC<br>7571           | 2     | 1            | 2                      | X                |
| t3a.large     | ✓         | 8.00            | AMD EPYC<br>7571           | 2     | 1            | 2                      | X                |
| t3a.xlarge    | ✓         | 16.00           | AMD EPYC<br>7571           | 4     | 2            | 2                      | X                |
| t3a.2xlarge   | ✓         | 32.00           | AMD EPYC<br>7571           | 8     | 4            | 2                      | X                |
|               |           |                 | T4g                        |       |              |                        |                  |
| t4g.nano      | ✓         | 0.50            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| t4g.micro     | ✓         | 1.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| t4g.small     | ✓         | 2.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| t4g.medium    | ✓         | 4.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| t4g.large     | ✓         | 8.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| t4g.xlarge    | ✓         | 16.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| t4g.2xlarge   | ✓         | 32.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |

Performance specifications 32

# **Network specifications**

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                          |                                   |     | ı   | <b>4</b> 5     |                  |                                   |                                     |      |
| m5.large <sup>1</sup>    | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5.xlarge <sup>1</sup>   | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5.2xlarge <sup>1</sup>  | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5.4xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5.8xlarge               | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5.12xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5.16xlarge              | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5.24xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5.metal                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 15a            |                  |                                   |                                     |      |
| m5a.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5a.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5a.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5a.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| m5a.8xlarge <sup>1</sup> | 7.5 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5a.12xlarge             | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m5a.16xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5a.24xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | М   | 5ad            |                  |                                   |                                     |      |
| m5ad.large <sup>1</sup>  | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5ad.xlarge <sup>1</sup> | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5ad.2xlarge             | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5ad.4xlarge             | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5ad.8xlarge             | 7.5 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5ad.12xl<br>arge        | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5ad.16xl<br>arge        | 12 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5ad.24xl<br>arge        | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 15d            |                  |                                   |                                     |      |
| m5d.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5d.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m5d.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m5d.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5d.8xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5d.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5d.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5d.24xlarge             | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| m5d.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 5dn            |                  |                                   |                                     |      |
| m5dn.large <sup>1</sup>  | 2.1 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5dn.xlarge <sup>1</sup> | 4.1 / 25.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m5dn.2xlarge<br>1        | 8.125 / 25.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5dn.4xlarge<br>1        | 16.25 / 25.0                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5dn.8xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5dn.12xl<br>arge        | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5dn.16xl<br>arge        | 75 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5dn.24xl<br>arge        | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5dn.metal               | 100 Gigabit                       | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                          |                                   |     | M   | 15n            |                  |                                   |                                     |      |
| m5n.large <sup>1</sup>   | 2.1 / 25.0                        | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| m5n.xlarge <sup>1</sup>  | 4.1 / 25.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m5n.2xlarge <sup>1</sup> | 8.125 / 25.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5n.4xlarge <sup>1</sup> | 16.25 / 25.0                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5n.8xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5n.12xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5n.16xlarge             | 75 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5n.24xlarge             | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m5n.metal                | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | М   | 5zn            |                  |                                   |                                     |      |
| m5zn.large <sup>1</sup>  | 3.0 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m5zn.xlarge <sup>1</sup> | 5.0 / 25.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5zn.2xlarge<br>1        | 10.0 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m5zn.3xlarge             | 15.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m5zn.6xlarge             | 50 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| m5zn.12xl<br>arge        | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m5zn.metal               | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 16a            |                  |                                   |                                     |      |
| m6a.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m6a.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6a.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6a.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6a.8xlarge              | 12.5 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6a.12xlarge             | 18.75 Gigabit                     | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6a.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6a.24xlarge             | 37.5 Gigabit                      | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6a.32xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6a.48xlarge             | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6a.metal                | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 16g            |                  |                                   |                                     |      |
| m6g.medium<br>1          | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| m6g.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m6g.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6g.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type                | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|------------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m6g.4xlarge <sup>1</sup>     | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6g.8xlarge                  | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6g.12xlarge                 | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6g.16xlarge                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6g.metal                    | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                              |                                   |     | М   | 6gd            |                  |                                   |                                     |      |
| m6gd.medi<br>um <sup>1</sup> | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| m6gd.large <sup>1</sup>      | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m6gd.xlarge <sup>1</sup>     | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6gd.2xlarge                 | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6gd.4xlarge                 | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6gd.8xlarge                 | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6gd.12xl<br>arge            | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6gd.16xl<br>arge            | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| m6gd.metal                   | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                              |                                   |     | N   | 16i            |                  |                                   |                                     |      |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m6i.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| m6i.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m6i.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m6i.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6i.8xlarge               | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m6i.12xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m6i.16xlarge              | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6i.24xlarge              | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6i.32xlarge              | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6i.metal                 | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | М   | 6id            |                  |                                   |                                     |      |
| m6id.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m6id.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6id.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6id.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6id.8xlarge              | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m6id.12xlarge             | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m6id.16xlarge             | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6id.24xlarge             | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m6id.32xlarge            | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m6id.metal               | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | M   | 6idn           |                  |                                   |                                     |      |
| m6idn.large <sup>1</sup> | 3.125 / 25.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m6idn.xlarge<br>1        | 6.25 / 30.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6idn.2xlarge            | 12.5 / 40.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6idn.4xlarge<br>1       | 25.0 / 50.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6idn.8xlarge            | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6idn.12x<br>large       | 75 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6idn.16x<br>large       | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6idn.24x<br>large       | 150 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6idn.32x<br>large       | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
| m6idn.metal              | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
|                          |                                   |     | M   | 6in            |                  |                                   |                                     |      |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m6in.large <sup>1</sup>   | 3.125 / 25.0                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| m6in.xlarge <sup>1</sup>  | 6.25 / 30.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6in.2xlarge <sup>1</sup> | 12.5 / 40.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m6in.4xlarge <sup>1</sup> | 25.0 / 50.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6in.8xlarge              | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6in.12xlarge             | 75 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m6in.16xlarge             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6in.24xlarge             | 150 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m6in.32xlarge             | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
| m6in.metal                | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
|                           |                                   |     | M   | 17a            |                  |                                   |                                     |      |
| m7a.medium<br>1           | 0.39 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| m7a.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m7a.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m7a.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m7a.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7a.8xlarge               | 12.5 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7a.12xlarge              | 18.75 Gigabit                     | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |

| Instance type                | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|------------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m7a.16xlarge                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m7a.24xlarge                 | 37.5 Gigabit                      | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m7a.32xlarge                 | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m7a.48xlarge                 | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| m7a.metal<br>-48xl           | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                              |                                   |     | M   | 17g            |                  |                                   |                                     |      |
| m7g.medium                   | 0.52 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| m7g.large <sup>1</sup>       | 0.937 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m7g.xlarge <sup>1</sup>      | 1.876 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m7g.2xlarge <sup>1</sup>     | 3.75 / 15.0                       | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m7g.4xlarge <sup>1</sup>     | 7.5 / 15.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7g.8xlarge                  | 15 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7g.12xlarge                 | 22.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m7g.16xlarge                 | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m7g.metal                    | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                              |                                   |     | М   | 7gd            |                  |                                   |                                     |      |
| m7gd.medi<br>um <sup>1</sup> | 0.52 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m7gd.large <sup>1</sup>  | 0.937 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m7gd.xlarge <sup>1</sup> | 1.876 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| m7gd.2xlarge             | 3.75 / 15.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m7gd.4xlarge<br>1        | 7.5 / 15.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7gd.8xlarge             | 15 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7gd.12xl<br>arge        | 22.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m7gd.16xl<br>arge        | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| m7gd.metal               | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | N   | 17i            |                  |                                   |                                     |      |
| m7i.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| m7i.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m7i.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| m7i.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| m7i.8xlarge              | 12.5 Gigabit                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| m7i.12xlarge             | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| m7i.16xlarge             | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |

| Instance type                     | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |  |
|-----------------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|--|
| m7i.24xlarge                      | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| m7i.48xlarge                      | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| m7i.metal<br>-24xl                | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| m7i.metal<br>-48xl                | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| M7i-flex                          |                                   |     |     |                |                  |                                   |                                     |      |  |
| m7i-flex.large                    | 0.39 / 12.5                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |  |
| m7i-flex.<br>xlarge <sup>1</sup>  | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| m7i-flex.<br>2xlarge <sup>1</sup> | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| m7i-flex.<br>4xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| m7i-flex.<br>8xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| Mac1                              |                                   |     |     |                |                  |                                   |                                     |      |  |
| mac1.metal                        | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
|                                   |                                   |     | М   | ac2            |                  |                                   |                                     |      |  |
| mac2.metal                        | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |

| Instance type        | Baseline / Burst bandwidth (Gbps) | EFA | ENA  | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|----------------------|-----------------------------------|-----|------|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                      |                                   |     | Mac  | 2-m2           |                  |                                   |                                     |      |
| mac2-m2.m<br>etal    | 10 Gigabit                        | X   | ✓    | X              | 1                | 8                                 | 30                                  | ✓    |
|                      |                                   |     | Mac2 | -m2pro         |                  |                                   |                                     |      |
| mac2-m2pr<br>o.metal | 10 Gigabit                        | X   | ✓    | X              | 1                | 8                                 | 30                                  | ✓    |
|                      |                                   |     | -    | Т2             |                  |                                   |                                     |      |
| t2.nano              | Low to<br>Moderate                | X   | X    | X              | 1                | 2                                 | 2                                   | ✓    |
| t2.micro             | Low to<br>Moderate                | X   | X    | X              | 1                | 2                                 | 2                                   | ✓    |
| t2.small             | Low to<br>Moderate                | X   | X    | X              | 1                | 3                                 | 4                                   | ✓    |
| t2.medium            | Low to<br>Moderate                | X   | X    | X              | 1                | 3                                 | 6                                   | ✓    |
| t2.large             | Low to<br>Moderate                | X   | X    | X              | 1                | 3                                 | 12                                  | ✓    |
| t2.xlarge            | Moderate                          | X   | X    | X              | 1                | 3                                 | 15                                  | ✓    |
| t2.2xlarge           | Moderate                          | X   | X    | X              | 1                | 3                                 | 15                                  | ✓    |
|                      |                                   |     |      | Т3             |                  |                                   |                                     |      |
| t3.nano <sup>1</sup> | 0.032 / 5.0                       | X   | ✓    | X              | 1                | 2                                 | 2                                   | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |  |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|--|
| t3.micro <sup>1</sup>    | 0.064 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 2                                   | ✓    |  |
| t3.small <sup>1</sup>    | 0.128 / 5.0                       | X   | ✓   | X              | 1                | 3                                 | 4                                   | ✓    |  |
| t3.medium <sup>1</sup>   | 0.256 / 5.0                       | X   | ✓   | X              | 1                | 3                                 | 6                                   | ✓    |  |
| t3.large <sup>1</sup>    | 0.512 / 5.0                       | X   | ✓   | x              | 1                | 3                                 | 12                                  | ✓    |  |
| t3.xlarge <sup>1</sup>   | 1.024 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| t3.2xlarge <sup>1</sup>  | 2.048 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| T3a                      |                                   |     |     |                |                  |                                   |                                     |      |  |
| t3a.nano <sup>1</sup>    | 0.032 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 2                                   | ✓    |  |
| t3a.micro <sup>1</sup>   | 0.064 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 2                                   | ✓    |  |
| t3a.small <sup>1</sup>   | 0.128 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |  |
| t3a.medium <sup>1</sup>  | 0.256 / 5.0                       | x   | ✓   | X              | 1                | 3                                 | 6                                   | ✓    |  |
| t3a.large <sup>1</sup>   | 0.512 / 5.0                       | X   | ✓   | X              | 1                | 3                                 | 12                                  | ✓    |  |
| t3a.xlarge <sup>1</sup>  | 1.024 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| t3a.2xlarge <sup>1</sup> | 2.048 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
|                          |                                   |     | Т   | 4g             |                  |                                   |                                     |      |  |
| t4g.nano <sup>1</sup>    | 0.032 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 2                                   | ✓    |  |
| t4g.micro <sup>1</sup>   | 0.064 / 5.0                       | X   | ✓   | X              | 1                | 2                                 | 2                                   | ✓    |  |
| t4g.small <sup>1</sup>   | 0.128 / 5.0                       | x   | ✓   | x              | 1                | 3                                 | 4                                   | ✓    |  |
| t4g.medium <sup>1</sup>  | 0.256 / 5.0                       | X   | ✓   | X              | 1                | 3                                 | 6                                   | ✓    |  |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| t4g.large <sup>1</sup>   | 0.512 / 5.0                       | X   | ✓   | X              | 1                | 3                                 | 12                                  | ✓    |
| t4g.xlarge <sup>1</sup>  | 1.024 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| t4g.2xlarge <sup>1</sup> | 2.048 / 5.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

#### Note

<sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see instance network bandwidth.

For 32xlarge and metal instance types that support 200 Gbps, at least 2 ENIs, each attached to a different network card, are required on the instance to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve a max of 170 Gbps.

# **Amazon EBS specifications**

| Instance<br>type       | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|------------------------|--|---|---|------|--------------------|--|--|--|
|                        | M5   |   |   |      |                    |  |  |  |
| m5.large <sup>1</sup>  | 650.00 /<br>4750.00                          | 81.25 /<br>593.75   | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| m5.xlarge <sup>1</sup> | 1150.00 /<br>4750.00                         | 143.75 /<br>593.75  | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |  |

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|--|---|---|------|--------------------|
| m5.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                         | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |
| m5.4xlarge              | 4750.00                                      | 593.75  | 18750.00                                      | ✓    | default            |
| m5.8xlarge              | 6800.00                                      | 850.00  | 30000.00                                      | ✓    | default            |
| m5.12xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| m5.16xlarge             | 13600.00                                     | 1700.00   | 60000.00                                      | ✓    | default            |
| m5.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| m5.metal                | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                         |  | M   | 5a  |      |                    |
| m5a.large <sup>1</sup>  | 650.00 /<br>2880.00                          | 81.25 /<br>360.00                                 | 3600.00 /<br>16000.00                         | ✓    | default            |
| m5a.xlarge <sup>1</sup> | 1085.00 /<br>2880.00                         | 135.62 /<br>360.00                                | 6000.00 /<br>16000.00                         | ✓    | default            |
| m5a.2xlarge<br>1        | 1580.00 /<br>2880.00                         | 197.50 /<br>360.00                                | 8333.00 /<br>16000.00                         | ✓    | default            |
| m5a.4xlarge             | 2880.00                                      | 360.00  | 16000.00                                      | ✓    | default            |
| m5a.8xlarge             | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| m5a.12xlarge            | 6780.00                                      | 847.50  | 30000.00                                      | ✓    | default            |
| m5a.16xlarge            | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| m5a.24xlarge            | 13750.00                                     | 1718.75   | 60000.00                                      | ✓    | default            |

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|-------------------------|-------------------------------------|---|---|------|--------------------|--|--|--|
| M5ad                    |                                     |   |   |      |                    |  |  |  |
| m5ad.large <sup>1</sup> | 650.00 /<br>2880.00                 | 81.25 /<br>360.00                                 | 3600.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| m5ad.xlarge             | 1085.00 /<br>2880.00                | 135.62 /<br>360.00                                | 6000.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| m5ad.2xlarge            | 1580.00 /<br>2880.00                | 197.50 /<br>360.00                                | 8333.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| m5ad.4xlarge            | 2880.00                             | 360.00  | 16000.00                                      | ✓    | default            |  |  |  |
| m5ad.8xlarge            | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |  |  |  |
| m5ad.12xl<br>arge       | 6780.00                             | 847.50  | 30000.00                                      | ✓    | default            |  |  |  |
| m5ad.16xl<br>arge       | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |
| m5ad.24xl<br>arge       | 13750.00                            | 1718.75   | 60000.00                                      | ✓    | default            |  |  |  |
|                         |                                     | M   | 5d  |      |                    |  |  |  |
| m5d.large <sup>1</sup>  | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| m5d.xlarge <sup>1</sup> | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| m5d.2xlarge             | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |  |  |  |

| Instance<br>type              | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------------|-------------------------------------|---|---|------|--------------------|
| m5d.4xlarge                   | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |
| m5d.8xlarge                   | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |
| m5d.12xla<br>rge              | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| m5d.16xla<br>rge              | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |
| m5d.24xla<br>rge              | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| m5d.metal                     | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
|                               |                                     | M5  | idn   |      |                    |
| m5dn.large <sup>1</sup>       | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |
| m5dn.xlarge<br>1              | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |
| m5dn.2xla<br>rge <sup>1</sup> | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |
| m5dn.4xla<br>rge              | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |
| m5dn.8xla<br>rge              | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |
| m5dn.12xl<br>arge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|-------------------------|-------------------------------------|---|---|------|--------------------|--|--|--|
| m5dn.16xl<br>arge       | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |  |  |  |
| m5dn.24xl<br>arge       | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| m5dn.metal              | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| M5n                     |                                     |   |   |      |                    |  |  |  |
| m5n.large <sup>1</sup>  | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| m5n.xlarge <sup>1</sup> | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| m5n.2xlarge             | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |  |  |  |
| m5n.4xlarge             | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |  |  |  |
| m5n.8xlarge             | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |  |  |  |
| m5n.12xla<br>rge        | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |
| m5n.16xla<br>rge        | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |  |  |  |
| m5n.24xla<br>rge        | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| m5n.metal               | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |  |
|-------------------------|-------------------------------------|---|---|------|--------------------|--|--|--|--|
|                         | M5zn                                |   |   |      |                    |  |  |  |  |
| m5zn.large <sup>1</sup> | 800.00 /<br>3170.00                 | 100.00 /<br>396.25                                | 3333.00 /<br>13333.00                         | ✓    | default            |  |  |  |  |
| m5zn.xlarge<br>1        | 1564.00 /<br>3170.00                | 195.50 /<br>396.25                                | 6667.00 /<br>13333.00                         | ✓    | default            |  |  |  |  |
| m5zn.2xlarge            | 3170.00                             | 396.25  | 13333.00                                      | ✓    | default            |  |  |  |  |
| m5zn.3xlarge            | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |  |  |  |  |
| m5zn.6xlarge            | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |  |
| m5zn.12xl<br>arge       | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |  |
| m5zn.metal              | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |  |
|                         |                                     | M   | 6a  |      |                    |  |  |  |  |
| m6a.large <sup>1</sup>  | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |  |  |  |  |
| m6a.xlarge <sup>1</sup> | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |  |  |  |  |
| m6a.2xlarge<br>1        | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |  |  |  |  |
| m6a.4xlarge<br>1        | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |  |  |  |  |
| m6a.8xlarge             | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |  |  |  |  |

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS<br>optimization<br>2 |  |  |  |
|-------------------------|--|---|---|------|--------------------------|--|--|--|
| m6a.12xlarge            | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default                  |  |  |  |
| m6a.16xlarge            | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default                  |  |  |  |
| m6a.24xlarge            | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default                  |  |  |  |
| m6a.32xlarge            | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default                  |  |  |  |
| m6a.48xlarge            | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default                  |  |  |  |
| m6a.metal               | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default                  |  |  |  |
| M6g                     |  |   |   |      |                          |  |  |  |
| m6g.medium              | 315.00 /<br>4750.00                          | 39.38 /<br>593.75   | 2500.00 /<br>20000.00                         | ✓    | default                  |  |  |  |
| m6g.large <sup>1</sup>  | 630.00 /<br>4750.00                          | 78.75 /<br>593.75   | 3600.00 /<br>20000.00                         | ✓    | default                  |  |  |  |
| m6g.xlarge <sup>1</sup> | 1188.00 /<br>4750.00                         | 148.50 /<br>593.75  | 6000.00 /<br>20000.00                         | ✓    | default                  |  |  |  |
| m6g.2xlarge             | 2375.00 /<br>4750.00                         | 296.88 /<br>593.75  | 12000.00 /<br>20000.00                        | ✓    | default                  |  |  |  |
| m6g.4xlarge             | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default                  |  |  |  |
| m6g.8xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default                  |  |  |  |
| m6g.12xla<br>rge        | 14250.00                                     | 1781.25   | 50000.00                                      | ✓    | default                  |  |  |  |

| Instance<br>type              | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|-------------------------------|--|---|---|------|--------------------|--|--|--|
| m6g.16xla<br>rge              | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| m6g.metal                     | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| M6gd                          |  |   |   |      |                    |  |  |  |
| m6gd.medi<br>um <sup>1</sup>  | 315.00 /<br>4750.00                          | 39.38 /<br>593.75                                 | 2500.00 /<br>20000.00                         | ✓    | default            |  |  |  |
| m6gd.large <sup>1</sup>       | 630.00 /<br>4750.00                          | 78.75 /<br>593.75                                 | 3600.00 /<br>20000.00                         | ✓    | default            |  |  |  |
| m6gd.xlarge                   | 1188.00 /<br>4750.00                         | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓    | default            |  |  |  |
| m6gd.2xla<br>rge <sup>1</sup> | 2375.00 /<br>4750.00                         | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓    | default            |  |  |  |
| m6gd.4xla<br>rge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |  |  |  |
| m6gd.8xla<br>rge              | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |
| m6gd.12xl<br>arge             | 14250.00                                     | 1781.25   | 50000.00                                      | ✓    | default            |  |  |  |
| m6gd.16xl<br>arge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| m6gd.metal                    | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
|                               |  | М   | 6i  |      |                    |  |  |  |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| m6i.large <sup>1</sup>   | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| m6i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| m6i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| m6i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| m6i.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| m6i.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| m6i.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| m6i.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| m6i.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| m6i.metal                | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
|                          |  | Me  | Sid   |      |                    |
| m6id.large <sup>1</sup>  | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| m6id.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| m6id.2xlarge             | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type               | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------------|--|---|---|------|--------------------|
| m6id.4xlarge                   | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| m6id.8xlarge                   | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| m6id.12xl<br>arge              | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| m6id.16xl<br>arge              | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| m6id.24xl<br>arge              | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| m6id.32xl<br>arge              | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| m6id.metal                     | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
|                                |  | M6  | idn   |      |                    |
| m6idn.large <sup>1</sup>       | 1562.00 /<br>25000.00                        | 195.31 /<br>3125.00   | 6250.00 /<br>100000.00                        | ✓    | default            |
| m6idn.xlarge<br>1              | 3125.00 /<br>25000.00                        | 390.62 /<br>3125.00   | 12500.00 /<br>100000.00                       | ✓    | default            |
| m6idn.2xl<br>arge <sup>1</sup> | 6250.00 /<br>25000.00                        | 781.25 /<br>3125.00   | 25000.00 /<br>100000.00                       | ✓    | default            |
| m6idn.4xl<br>arge <sup>1</sup> | 12500.00 /<br>25000.00                       | 1562.50 /<br>3125.00  | 50000.00 /<br>100000.00                       | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| m6idn.8xl<br>arge        | 25000.00                                     | 3125.00   | 100000.00                                     | ✓    | default            |
| m6idn.12x<br>large       | 37500.00                                     | 4687.50   | 150000.00                                     | ✓    | default            |
| m6idn.16x<br>large       | 50000.00                                     | 6250.00   | 200000.00                                     | ✓    | default            |
| m6idn.24x<br>large       | 75000.00                                     | 9375.00   | 300000.00                                     | ✓    | default            |
| m6idn.32x<br>large       | 100000.00                                    | 12500.00  | 400000.00                                     | ✓    | default            |
| m6idn.metal              | 100000.00                                    | 12500.00  | 400000.00                                     | ✓    | default            |
|                          |  | Me  | Sin   |      |                    |
| m6in.large <sup>1</sup>  | 1562.00 /<br>25000.00                        | 195.31 /<br>3125.00   | 6250.00 /<br>100000.00                        | ✓    | default            |
| m6in.xlarge <sup>1</sup> | 3125.00 /<br>25000.00                        | 390.62 /<br>3125.00   | 12500.00 /<br>100000.00                       | ✓    | default            |
| m6in.2xlarge             | 6250.00 /<br>25000.00                        | 781.25 /<br>3125.00   | 25000.00 /<br>100000.00                       | ✓    | default            |
| m6in.4xlarge             | 12500.00 /<br>25000.00                       | 1562.50 /<br>3125.00  | 50000.00 /<br>100000.00                       | ✓    | default            |
| m6in.8xlarge             | 25000.00                                     | 3125.00   | 100000.00                                     | ✓    | default            |

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|--|---|---|------|--------------------|
| m6in.12xl<br>arge       | 37500.00                                     | 4687.50   | 150000.00                                     | ✓    | default            |
| m6in.16xl<br>arge       | 50000.00                                     | 6250.00   | 200000.00                                     | ✓    | default            |
| m6in.24xl<br>arge       | 75000.00                                     | 9375.00   | 300000.00                                     | ✓    | default            |
| m6in.32xl<br>arge       | 100000.00                                    | 12500.00  | 400000.00                                     | ✓    | default            |
| m6in.metal              | 100000.00                                    | 12500.00  | 400000.00                                     | ✓    | default            |
|                         |  | М   | 7a  |      |                    |
| m7a.medium<br>1         | 325.00 /<br>10000.00                         | 40.62 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| m7a.large <sup>1</sup>  | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| m7a.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| m7a.2xlarge<br>1        | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| m7a.4xlarge<br>1        | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| m7a.8xlarge             | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| m7a.12xlarge            | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|--|---|---|------|--------------------|
| m7a.16xlarge            | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| m7a.24xlarge            | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| m7a.32xlarge            | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| m7a.48xlarge            | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
| m7a.metal<br>-48xl      | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
|                         |  | M   | 7g  |      |                    |
| m7g.medium<br>1         | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓    | default            |
| m7g.large <sup>1</sup>  | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| m7g.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| m7g.2xlarge             | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| m7g.4xlarge             | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| m7g.8xlarge             | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| m7g.12xla<br>rge        | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |

| Instance<br>type              | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------------|--|---|---|------|--------------------|
| m7g.16xla<br>rge              | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| m7g.metal                     | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
|                               |  | М7  | 'gd   |      |                    |
| m7gd.medi<br>um <sup>1</sup>  | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| m7gd.large <sup>1</sup>       | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| m7gd.xlarge<br>1              | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| m7gd.2xla<br>rge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| m7gd.4xla<br>rge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| m7gd.8xla<br>rge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| m7gd.12xl<br>arge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| m7gd.16xl<br>arge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| m7gd.metal                    | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
|                               |  | М   | 7i  |      |                    |

| Instance<br>type                | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------------|-------------------------------------|---|---|------|--------------------|
| m7i.large <sup>1</sup>          | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| m7i.xlarge <sup>1</sup>         | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| m7i.2xlarge <sup>1</sup>        | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| m7i.4xlarge <sup>1</sup>        | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| m7i.8xlarge                     | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| m7i.12xlarge                    | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |
| m7i.16xlarge                    | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |
| m7i.24xlarge                    | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| m7i.48xlarge                    | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |
| m7i.metal<br>-24xl              | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| m7i.metal<br>-48xl              | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |
|                                 |                                     | M7i-  | -flex   |      |                    |
| m7i-flex.<br>large <sup>1</sup> | 312.00 /<br>10000.00                | 39.06 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |

| Instance<br>type                  | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-----------------------------------|--|---|---|------|--------------------|
| m7i-flex.<br>xlarge <sup>1</sup>  | 625.00 /<br>10000.00                         | 78.12 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| m7i-flex.<br>2xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| m7i-flex.<br>4xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| m7i-flex.<br>8xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
|                                   |  | Ma  | ıc1   |      |                    |
| mac1.metal                        | 14000.00                                     | 1750.00   | 80000.00                                      | ✓    | default            |
|                                   |  | Ma  | ıc2   |      |                    |
| mac2.metal                        | 10000.00                                     | 1250.00   | 55000.00                                      | ✓    | default            |
|                                   |  | Mac   | 2-m2  |      |                    |
| mac2-m2.m<br>etal                 | 8000.00                                      | 1000.00   | 55000.00                                      | ✓    | default            |
|                                   |  | Mac2-   | m2pro   |      |                    |
| mac2-m2pr<br>o.metal              | 8000.00                                      | 1000.00   | 55000.00                                      | ✓    | default            |
|                                   |  | Т   | 2   |      |                    |
|                                   |  | т   | 3   |      |                    |

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|--|---|---|------|--------------------|
| t3.nano <sup>1</sup>    | 43.00 /<br>2085.00                           | 5.38 / 260.62   | 250.00 /<br>11800.00                          | ✓    | default            |
| t3.micro <sup>1</sup>   | 87.00 /<br>2085.00                           | 10.88 /<br>260.62   | 500.00 /<br>11800.00                          | ✓    | default            |
| t3.small <sup>1</sup>   | 174.00 /<br>2085.00                          | 21.75 /<br>260.62   | 1000.00 /<br>11800.00                         | ✓    | default            |
| t3.medium <sup>1</sup>  | 347.00 /<br>2085.00                          | 43.38 /<br>260.62   | 2000.00 /<br>11800.00                         | ✓    | default            |
| t3.large <sup>1</sup>   | 695.00 /<br>2780.00                          | 86.88 /<br>347.50   | 4000.00 /<br>15700.00                         | ✓    | default            |
| t3.xlarge <sup>1</sup>  | 695.00 /<br>2780.00                          | 86.88 /<br>347.50   | 4000.00 /<br>15700.00                         | ✓    | default            |
| t3.2xlarge <sup>1</sup> | 695.00 /<br>2780.00                          | 86.88 /<br>347.50   | 4000.00 /<br>15700.00                         | ✓    | default            |
|                         |  | T3  | 3a  |      |                    |
| t3a.nano <sup>1</sup>   | 45.00 /<br>2085.00                           | 5.62 / 260.62   | 250.00 /<br>11800.00                          | ✓    | default            |
| t3a.micro <sup>1</sup>  | 90.00 /<br>2085.00                           | 11.25 /<br>260.62   | 500.00 /<br>11800.00                          | ✓    | default            |
| t3a.small <sup>1</sup>  | 175.00 /<br>2085.00                          | 21.88 /<br>260.62   | 1000.00 /<br>11800.00                         | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| t3a.medium <sup>1</sup>  | 350.00 /<br>2085.00                 | 43.75 /<br>260.62                                 | 2000.00 /<br>11800.00                         | ✓    | default            |
| t3a.large <sup>1</sup>   | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |
| t3a.xlarge <sup>1</sup>  | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |
| t3a.2xlarge <sup>1</sup> | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |
|                          |                                     | T   | 1g  |      |                    |
| t4g.nano <sup>1</sup>    | 43.00 /<br>2085.00                  | 5.38 / 260.62                                     | 250.00 /<br>11800.00                          | ✓    | default            |
| t4g.micro <sup>1</sup>   | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11800.00                          | ✓    | default            |
| t4g.small <sup>1</sup>   | 174.00 /<br>2085.00                 | 21.75 /<br>260.62                                 | 1000.00 /<br>11800.00                         | ✓    | default            |
| t4g.medium               | 347.00 /<br>2085.00                 | 43.38 /<br>260.62                                 | 2000.00 /<br>11800.00                         | ✓    | default            |
| t4g.large <sup>1</sup>   | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |
| t4g.xlarge <sup>1</sup>  | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| t4g.2xlarge <sup>1</sup> | 695.00 /<br>2780.00                 | 86.88 /<br>347.50                                 | 4000.00 /<br>15700.00                         | ✓    | default            |

### Note

## **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM support 2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------|
|               |                              | M5                        | Sad                             |  |                |
| m5ad.large    | 1 x 75 GB                    | NVMe<br>SSD               | 30,000 / 15,000                 |  | ✓              |
| m5ad.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 59,000 / 29,000                 |  | ✓              |
| m5ad.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 117,000 / 57,000                |  | ✓              |

Instance store specifications 65

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>&</sup>lt;sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |  |  |  |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|--|--|--|
| m5ad.4xlarge  | 2 x 300 GB                   | NVMe<br>SSD               | 234,000 / 114,000               |  | ✓                    |  |  |  |
| m5ad.8xlarge  | 2 x 600 GB                   | NVMe<br>SSD               | 466,666 / 233,334               |  | ✓                    |  |  |  |
| m5ad.12xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |  |  |  |
| m5ad.16xlarge | 4 x 600 GB                   | NVMe<br>SSD               | 933,332 / 466,668               |  | ✓                    |  |  |  |
| m5ad.24xlarge | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |  |  |  |
| M5d           |                              |                           |                                 |  |                      |  |  |  |
| m5d.large     | 1 x 75 GB                    | NVMe<br>SSD               | 30,000 / 15,000                 |  | ✓                    |  |  |  |
| m5d.xlarge    | 1 x 150 GB                   | NVMe<br>SSD               | 59,000 / 29,000                 |  | ✓                    |  |  |  |
| m5d.2xlarge   | 1 x 300 GB                   | NVMe<br>SSD               | 117,000 / 57,000                |  | ✓                    |  |  |  |
| m5d.4xlarge   | 2 x 300 GB                   | NVMe<br>SSD               | 234,000 / 114,000               |  | ✓                    |  |  |  |
| m5d.8xlarge   | 2 x 600 GB                   | NVMe<br>SSD               | 466,666 / 233,334               |  | ✓                    |  |  |  |
| m5d.12xlarge  | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |  |  |  |

Instance store specifications 66

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |  |  |  |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|--|--|--|
| m5d.16xlarge  | 4 x 600 GB                   | NVMe<br>SSD               | 933,332 / 466,668               |  | ✓                    |  |  |  |
| m5d.24xlarge  | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |  |  |  |
| m5d.metal     | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |  |  |  |
| M5dn          |                              |                           |                                 |  |                      |  |  |  |
| m5dn.large    | 1 x 75 GB                    | NVMe<br>SSD               | 29,000 / 14,500                 |  | ✓                    |  |  |  |
| m5dn.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 58,000 / 29,000                 |  | ✓                    |  |  |  |
| m5dn.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 116,000 / 58,000                |  | ✓                    |  |  |  |
| m5dn.4xlarge  | 2 x 300 GB                   | NVMe<br>SSD               | 232,000 / 116,000               |  | ✓                    |  |  |  |
| m5dn.8xlarge  | 2 x 600 GB                   | NVMe<br>SSD               | 464,000 / 232,000               |  | ✓                    |  |  |  |
| m5dn.12xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 350,000               |  | ✓                    |  |  |  |
| m5dn.16xlarge | 4 x 600 GB                   | NVMe<br>SSD               | 930,000 / 465,000               |  | ✓                    |  |  |  |
| m5dn.24xlarge | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>700,000          |  | ✓                    |  |  |  |

Instance store specifications 67

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| m5dn.metal    | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>700,000          |  | ✓                    |
|               |                              | Mé                        | 6gd                             |  |                      |
| m6gd.medium   | 1 x 59 GB                    | NVMe<br>SSD               | 13,438 / 5,625                  |  | ✓                    |
| m6gd.large    | 1 x 118 GB                   | NVMe<br>SSD               | 26,875 / 11,250                 |  | ✓                    |
| m6gd.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 53,750 / 22,500                 |  | ✓                    |
| m6gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| m6gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 215,000 / 90,000                |  | ✓                    |
| m6gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |
| m6gd.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| m6gd.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| m6gd.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
|               |                              | Mo                        | Sid                             |  |                      |
| m6id.large    | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |

Instance store specifications 68

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| m6id.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| m6id.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| m6id.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |
| m6id.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| m6id.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| m6id.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| m6id.24xlarge | 4 x 1425 GB                  | NVMe<br>SSD               | 1,609,996 /<br>805,000          |  | ✓                    |
| m6id.32xlarge | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
| m6id.metal    | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
|               |                              | М6                        | idn                             |  |                      |
| m6idn.large   | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| m6idn.xlarge  | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |

Instance store specifications 69

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| m6idn.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| m6idn.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |
| m6idn.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| m6idn.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| m6idn.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| m6idn.24xlarge | 4 x 1425 GB                  | NVMe<br>SSD               | 1,609,996 /<br>805,000          |  | ✓                    |
| m6idn.32xlarge | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
| m6idn.metal    | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
|                |                              | M7                        | <b>'</b> gd                     |  |                      |
| m7gd.medium    | 1 x 59 GB                    | NVMe<br>SSD               | 16,771 / 8,385                  |  | ✓                    |
| m7gd.large     | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| m7gd.xlarge    | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |

Instance store specifications 70

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM support 2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------|
| m7gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓              |
| m7gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓              |
| m7gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓              |
| m7gd.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓              |
| m7gd.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓              |
| m7gd.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓              |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

### **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | M5                           |                |          |                   |
| m5.large      | ✓                     | Instance<br>store not               | X                            | X              | ✓        | X                 |

<sup>&</sup>lt;sup>2</sup> For more information, see <u>Instance store volume TRIM support</u>.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       | supported                           |                              |                |          |                   |
| m5.xlarge     | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| m5.2xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| m5.4xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| m5.8xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| m5.12xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| m5.16xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| m5.24xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| m5.metal      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | M5a                          |                |          |                   |
| m5a.large     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| m5a.xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| m5a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| m5a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| m5a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| m5a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| m5a.16xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| m5a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       | ŀ                                   | 45ad                         |                |          |                   |
| m5ad.large    | ✓                     | ✓                                   | x                            | x              | ✓        | x                 |
| m5ad.xlarge   | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5ad.2xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5ad.4xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5ad.8xlarge  | ✓                     | ✓                                   | X                            | x              | ✓        | ✓                 |
| m5ad.12xlarge | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5ad.16xlarge | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5ad.24xlarge | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
|               |                       |                                     | M5d                          |                |          |                   |
| m5d.large     | ✓                     | ✓                                   | x                            | x              | ✓        | x                 |
| m5d.xlarge    | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5d.2xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5d.4xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5d.8xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| m5d.12xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5d.16xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5d.24xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| m5d.metal     | ✓                     | ✓                                   | X                            | X              | X        | x                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       | N                                   | 15dn                         |                |          |                   |
| m5dn.large    | ✓                     | ✓                                   | ✓                            | X              | ✓        | x                 |
| m5dn.xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.12xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.16xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.24xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m5dn.metal    | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |
|               |                       |                                     | M5n                          |                |          |                   |
| m5n.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| m5n.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m5n.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m5n.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m5n.8xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m5n.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m5n.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m5n.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m5n.metal     | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
|               |                       | r                                   | M5zn                         |                |          |                   |
| m5zn.large    | <b>√</b>              | Instance<br>store not<br>supported  | <b>√</b>                     | X              | <b>√</b> | X                 |
| m5zn.xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m5zn.2xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m5zn.3xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m5zn.6xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m5zn.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m5zn.metal    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
|               |                       |                                     | M6a                          |                |          |                   |
| m6a.large     | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | X                 |
| m6a.xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| m6a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m6a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| m6a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| m6a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6a.32xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6a.48xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6a.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|               |                       |                                     | M6g                          |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m6g.medium    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| m6g.large     | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | ✓                 |
| m6g.xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| m6g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| m6g.4xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | ✓                 |
| m6g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| m6g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| m6g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| m6g.metal     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |  |
| M6gd          |                       |                                     |                              |                |          |                   |  |  |  |
| m6gd.medium   | ✓                     | ✓                                   | x                            | x              | x        | x                 |  |  |  |
| m6gd.large    | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |  |  |  |
| m6gd.xlarge   | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |  |  |  |
| m6gd.2xlarge  | ✓                     | ✓                                   | X                            | X              | x        | ✓                 |  |  |  |
| m6gd.4xlarge  | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |  |  |  |
| m6gd.8xlarge  | ✓                     | ✓                                   | X                            | X              | x        | ✓                 |  |  |  |
| m6gd.12xlarge | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |  |  |  |
| m6gd.16xlarge | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |  |  |  |
| m6gd.metal    | ✓                     | ✓                                   | x                            | x              | x        | x                 |  |  |  |
|               |                       |                                     | M6i                          |                |          |                   |  |  |  |
| m6i.large     | ✓                     | Instance<br>store not<br>supported  | <b>√</b>                     | x              | <b>√</b> | X                 |  |  |  |
| m6i.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m6i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| m6i.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.32xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| m6i.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|               |                       | ı                                   | M6id                         |                |          |                   |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m6id.large     | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |
| m6id.xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.2xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.4xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.8xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.12xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.16xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.24xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.32xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6id.metal     | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
|                |                       | N                                   | 16idn                        |                |          |                   |
| m6idn.large    | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |
| m6idn.xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| m6idn.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6idn.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6idn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| m6idn.12xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| m6idn.16xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| m6idn.24xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| m6idn.32xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |  |
| m6idn.metal    | ✓                     | ✓                                   | ✓                            | x              | X        | x                 |  |  |  |
| M6in           |                       |                                     |                              |                |          |                   |  |  |  |
| m6in.large     | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |  |
| m6in.xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| m6in.2xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |
| m6in.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | <b>√</b> | ✓                 |  |  |  |
| m6in.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| m6in.12xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| m6in.16xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| m6in.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |
| m6in.32xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |
| m6in.metal    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | x        | X                 |  |  |
| M7a           |                       |                                     |                              |                |          |                   |  |  |
| m7a.medium    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| m7a.8xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.12xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7a.16xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.32xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.48xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7a.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
| M7g            |                       |                                     |                              |                |          |                   |  |  |
| m7g.medium     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m7g.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| m7g.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| m7g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| m7g.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| m7g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| m7g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| m7g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| m7g.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|               |                       | N                                   | 17gd                         |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m7gd.medium   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| m7gd.large    | ✓                     | ✓                                   | ✓                            | x              | X        | x                 |
| m7gd.xlarge   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| m7gd.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| m7gd.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| m7gd.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| m7gd.12xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | X                 |
| m7gd.16xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | X                 |
| m7gd.metal    | ✓                     | ✓                                   | ✓                            | x              | x        | X                 |
|               |                       |                                     | М7і                          |                |          |                   |
| m7i.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| m7i.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| m7i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | x                 |
| m7i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| m7i.8xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i.12xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7i.16xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| m7i.48xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i.metal-24xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
| m7i.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| M7i-flex       |                       |                                     |                              |                |          |                   |  |  |
| m7i-flex.large | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |

| Instance type    | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|------------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| m7i-flex.xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i-flex.2xlarge | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i-flex.4xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| m7i-flex.8xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
|                  |                       | ľ                                   | Mac1                         |                |          |                   |  |  |
| mac1.metal       | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |  |  |
|                  |                       | ı                                   | Mac2                         |                |          |                   |  |  |
| mac2.metal       | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |  |  |
| Mac2-m2          |                       |                                     |                              |                |          |                   |  |  |
| mac2-m2.metal    | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | x        | x                 |  |  |

| Instance type        | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|----------------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
|                      | Mac2-m2pro            |                                     |                              |                |          |                   |  |  |  |
| mac2-m2pr<br>o.metal | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |  |
| T2                   |                       |                                     |                              |                |          |                   |  |  |  |
| t2.nano              | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |  |
| t2.micro             | ✓                     | Instance<br>store not<br>supported  | x                            | x              | X        | X                 |  |  |  |
| t2.small             | ✓                     | Instance<br>store not<br>supported  | x                            | x              | X        | X                 |  |  |  |
| t2.medium            | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |  |
| t2.large             | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |  |  |  |
| t2.xlarge            | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| t2.2xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
|               |                       |                                     | Т3                           |                |          |                   |
| t3.nano       | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | X                 |
| t3.micro      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | X                 |
| t3.small      | ✓                     | Instance<br>store not<br>supported  | x                            | X              | ✓        | X                 |
| t3.medium     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3.large      | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3.xlarge     | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | ✓        | x                 |
| t3.2xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | T3a                          |                |          |                   |
| t3a.nano      | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3a.micro     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3a.small     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | X                 |
| t3a.medium    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | x                 |
| t3a.large     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3a.xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| t3a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | x                 |
|               |                       |                                     | T4g                          |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| t4g.nano      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | X                 |
| t4g.micro     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| t4g.small     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| t4g.medium    | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |
| t4g.large     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| t4g.xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | X                 |
| t4g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |

### **Compute optimized instances**

Compute optimized instances are designed for compute intensive applications that benefit from high performance processors. These instances are ideal for batch processing workloads,

Compute optimized 93

media transcoding, high performance web servers, high performance computing (HPC), scientific modeling, dedicated gaming servers, ad server engines, and machine learning inference.

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

### **Available sizes**

| Instance<br>type | Available sizes  |
|------------------|--|
| C5               | <pre>c5.large c5.xlarge c5.2xlarge c5.4xlarge c5.9xlarge  c5.12xlarge c5.18xlarge c5.24xlarge c5.metal</pre>   |
| C5a              | c5a.large   c5a.xlarge   c5a.2xlarge   c5a.4xlarge   c5a.8xlar<br>ge   c5a.12xlarge   c5a.16xlarge   c5a.24xlarge  |
| C5ad             | <pre>c5ad.large   c5ad.xlarge   c5ad.4xlarge   c5ad.8xlarge   c5ad.12xlarge   c5ad.16xlarge   c5ad.24xlarge</pre>  |
| C5d              | c5d.large   c5d.xlarge   c5d.2xlarge   c5d.4xlarge   c5d.9xlar<br>ge   c5d.12xlarge   c5d.18xlarge   c5d.24xlarge   c5d.metal                                  |
| C5n              | c5n.large   c5n.xlarge   c5n.2xlarge   c5n.4xlarge   c5n.9xlar<br>ge   c5n.18xlarge   c5n.metal  |
| C6a              | c6a.large   c6a.xlarge   c6a.2xlarge   c6a.4xlarge   c6a.8xlar<br>ge   c6a.12xlarge   c6a.16xlarge   c6a.24xlarge   c6a.32xlarge  <br>c6a.48xlarge   c6a.metal |

Available sizes 94

| Instance<br>type | Available sizes  |
|------------------|--|
| C6g              | <pre>c6g.medium   c6g.large   c6g.xlarge   c6g.2xlarge   c6g.4xlarge   c6g.8xlarge   c6g.12xlarge   c6g.16xlarge   c6g.metal</pre>   |
| C6gd             | c6gd.medium   c6gd.large   c6gd.xlarge   c6gd.2xlarge   c6gd.4xlarge   c6gd.8xlarge   c6gd.12xlarge   c6gd.16xlarge   c6gd.metal   |
| C6gn             | c6gn.medium  c6gn.large  c6gn.xlarge  c6gn.2xlarge  <br>c6gn.4xlarge  c6gn.8xlarge  c6gn.12xlarge  c6gn.16xlarge   |
| C6i              | c6i.large   c6i.xlarge   c6i.2xlarge   c6i.4xlarge   c6i.8xlar<br>ge   c6i.12xlarge   c6i.16xlarge   c6i.24xlarge   c6i.32xlarge  <br>c6i.metal                                  |
| C6id             | c6id.large   c6id.xlarge   c6id.2xlarge   c6id.4xlarge   c6id.8xlarge   c6id.12xlarge   c6id.16xlarge   c6id.24xlarge   c6id.32xlarge   c6id.metal                               |
| C6in             | c6in.large   c6in.xlarge   c6in.2xlarge   c6in.4xlarge   c6in.8xlarge   c6in.12xlarge   c6in.16xlarge   c6in.24xlarge   c6in.32xlarge   c6in.metal                               |
| C7a              | c7a.medium   c7a.large   c7a.xlarge   c7a.2xlarge   c7a.4xlar<br>ge   c7a.8xlarge   c7a.12xlarge   c7a.16xlarge   c7a.24xlarge  <br>c7a.32xlarge   c7a.48xlarge   c7a.metal-48xl |
| C7g              | c7g.medium   c7g.large   c7g.xlarge   c7g.2xlarge   c7g.4xlarge   c7g.8xlarge   c7g.12xlarge   c7g.16xlarge   c7g.metal  |
| C7gd             | <pre>c7gd.medium  c7gd.large  c7gd.xlarge  c7gd.2xlarge   c7gd.4xlarge  c7gd.8xlarge  c7gd.12xlarge  c7gd.16xlarge   c7gd.metal</pre>  |
| C7gn             | c7gn.medium  c7gn.large  c7gn.xlarge  c7gn.2xlarge  <br>c7gn.4xlarge  c7gn.8xlarge  c7gn.12xlarge  c7gn.16xlarge  <br>c7gn.metal   |

Available sizes 95

| Instance<br>type | Available sizes   |
|------------------|---|
| C7i              | c7i.large   c7i.xlarge   c7i.2xlarge   c7i.4xlarge   c7i.8xlar<br>ge   c7i.12xlarge   c7i.16xlarge   c7i.24xlarge   c7i.48xlarge  <br>c7i.metal-24xl   c7i.metal-48xl |

## **Platform summary**

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| C5               | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| C5a              | Nitro         | AMD<br>(x86_64)                         | x                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| C5ad             | Nitro         | AMD<br>(x86_64)                         | X                               | X                            | ✓               | X                       | Windows<br>  Linux          |
| C5d              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | 1               | ✓                       | Windows<br>  Linux          |
| C5n              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| C6a              | Nitro         | AMD<br>(x86_64)                         | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| C6g              | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |

Platform summary 96

| Instance<br>type | Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| C6gd             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| C6gn             | Nitro         | AWS<br>Graviton<br>(arm64)              | X                               | ✓                            | ✓               | X                       | Linux                       |
| C6i              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| C6id             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| C6in             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| C7a              | Nitro         | AMD<br>(x86_64)                         | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| C7g              | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| C7gd             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| C7gn             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| C7i              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |

Platform summary 97

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                                | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|---------------|-----------|-----------------|--|-------|--------------|------------------|------------------|
|               |           |                 | C5                                       |       |              |                  |                  |
| c5.large      | X         | 4.00            | Intel Xeon<br>Platinum<br>8124M          | 2     | 1            | 2                | X                |
| c5.xlarge     | x         | 8.00            | Intel Xeon<br>Platinum<br>8124M          | 4     | 2            | 2                | X                |
| c5.2xlarge    | x         | 16.00           | Intel Xeon<br>Platinum<br>8124M          | 8     | 4            | 2                | X                |
| c5.4xlarge    | x         | 32.00           | Intel Xeon<br>Platinum<br>8124M          | 16    | 8            | 2                | X                |
| c5.9xlarge    | x         | 72.00           | Intel Xeon<br>Platinum<br>8124M          | 36    | 18           | 2                | X                |
| c5.12xlarge   | X         | 96.00           | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 48    | 24           | 2                | X                |
| c5.18xlarge   | X         | 144.00          | Intel Xeon<br>Platinum<br>8124M          | 72    | 36           | 2                | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                                | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|--|-------|--------------|------------------------|------------------|
| c5.24xlarge   | X         | 192.00          | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 96    | 48           | 2                      | X                |
| c5.metal      | x         | 192.00          | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 96    | 48           | 2                      | X                |
|               |           |                 | C5a                                      |       |              |                        |                  |
| c5a.large     | X         | 4.00            | 2nd Gen AMD<br>EPYC 7R32                 | 2     | 1            | 2                      | X                |
| c5a.xlarge    | X         | 8.00            | 2nd Gen AMD<br>EPYC 7R32                 | 4     | 2            | 2                      | X                |
| c5a.2xlarge   | X         | 16.00           | 2nd Gen AMD<br>EPYC 7R32                 | 8     | 4            | 2                      | X                |
| c5a.4xlarge   | X         | 32.00           | 2nd Gen AMD<br>EPYC 7R32                 | 16    | 8            | 2                      | X                |
| c5a.8xlarge   | X         | 64.00           | 2nd Gen AMD<br>EPYC 7R32                 | 32    | 16           | 2                      | X                |
| c5a.12xlarge  | X         | 96.00           | 2nd Gen AMD<br>EPYC 7R32                 | 48    | 24           | 2                      | X                |
| c5a.16xlarge  | X         | 128.00          | 2nd Gen AMD<br>EPYC 7R32                 | 64    | 32           | 2                      | X                |
| c5a.24xlarge  | X         | 192.00          | 2nd Gen AMD<br>EPYC 7R32                 | 96    | 48           | 2                      | X                |
|               |           |                 | C5ad                                     |       |              |                        |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                       | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|---------------------------------|-------|--------------|------------------------|------------------|
| c5ad.large    | X         | 4.00            | 2nd Gen AMD<br>EPYC 7R32        | 2     | 1            | 2                      | X                |
| c5ad.xlarge   | X         | 8.00            | 2nd Gen AMD<br>EPYC 7R32        | 4     | 2            | 2                      | X                |
| c5ad.2xlarge  | X         | 16.00           | 2nd Gen AMD<br>EPYC 7R32        | 8     | 4            | 2                      | X                |
| c5ad.4xlarge  | X         | 32.00           | 2nd Gen AMD<br>EPYC 7R32        | 16    | 8            | 2                      | X                |
| c5ad.8xlarge  | X         | 64.00           | 2nd Gen AMD<br>EPYC 7R32        | 32    | 16           | 2                      | X                |
| c5ad.12xlarge | X         | 96.00           | 2nd Gen AMD<br>EPYC 7R32        | 48    | 24           | 2                      | X                |
| c5ad.16xlarge | X         | 128.00          | 2nd Gen AMD<br>EPYC 7R32        | 64    | 32           | 2                      | X                |
| c5ad.24xlarge | X         | 192.00          | 2nd Gen AMD<br>EPYC 7R32        | 96    | 48           | 2                      | X                |
|               |           |                 | C5d                             |       |              |                        |                  |
| c5d.large     | X         | 4.00            | Intel Xeon<br>Platinum<br>8124M | 2     | 1            | 2                      | X                |
| c5d.xlarge    | X         | 8.00            | Intel Xeon<br>Platinum<br>8124M | 4     | 2            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                                | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|--|-------|--------------|------------------------|------------------|
| c5d.2xlarge   | X         | 16.00           | Intel Xeon<br>Platinum<br>8124M          | 8     | 4            | 2                      | X                |
| c5d.4xlarge   | X         | 32.00           | Intel Xeon<br>Platinum<br>8124M          | 16    | 8            | 2                      | X                |
| c5d.9xlarge   | x         | 72.00           | Intel Xeon<br>Platinum<br>8124M          | 36    | 18           | 2                      | X                |
| c5d.12xlarge  | X         | 96.00           | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 48    | 24           | 2                      | X                |
| c5d.18xlarge  | x         | 144.00          | Intel Xeon<br>Platinum<br>8124M          | 72    | 36           | 2                      | X                |
| c5d.24xlarge  | X         | 192.00          | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 96    | 48           | 2                      | X                |
| c5d.metal     | X         | 192.00          | 2nd Gen Intel<br>Xeon Platinum<br>8275CL | 96    | 48           | 2                      | X                |
|               |           |                 | C5n                                      |       |              |                        |                  |
| c5n.large     | x         | 5.25            | Intel Xeon<br>Platinum<br>8124M          | 2     | 1            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                       | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |  |  |  |
|---------------|-----------|-----------------|---------------------------------|-------|--------------|------------------------|------------------|--|--|--|
| c5n.xlarge    | X         | 10.50           | Intel Xeon<br>Platinum<br>8124M | 4     | 2            | 2                      | X                |  |  |  |
| c5n.2xlarge   | X         | 21.00           | Intel Xeon<br>Platinum<br>8124M | 8     | 4            | 2                      | X                |  |  |  |
| c5n.4xlarge   | X         | 42.00           | Intel Xeon<br>Platinum<br>8124M | 16    | 8            | 2                      | X                |  |  |  |
| c5n.9xlarge   | X         | 96.00           | Intel Xeon<br>Platinum<br>8124M | 36    | 18           | 2                      | X                |  |  |  |
| c5n.18xlarge  | X         | 192.00          | Intel Xeon<br>Platinum<br>8124M | 72    | 36           | 2                      | X                |  |  |  |
| c5n.metal     | X         | 192.00          | Intel Xeon<br>Platinum<br>8124M | 72    | 36           | 2                      | X                |  |  |  |
| C6a           |           |                 |                                 |       |              |                        |                  |  |  |  |
| c6a.large     | X         | 4.00            | AMD EPYC<br>7R13                | 2     | 1            | 2                      | X                |  |  |  |
| c6a.xlarge    | X         | 8.00            | AMD EPYC<br>7R13                | 4     | 2            | 2                      | X                |  |  |  |
| c6a.2xlarge   | X         | 16.00           | AMD EPYC<br>7R13                | 8     | 4            | 2                      | X                |  |  |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |  |  |  |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|--|--|--|
| c6a.4xlarge   | X         | 32.00           | AMD EPYC<br>7R13           | 16    | 8            | 2                      | X                |  |  |  |
| c6a.8xlarge   | X         | 64.00           | AMD EPYC<br>7R13           | 32    | 16           | 2                      | X                |  |  |  |
| c6a.12xlarge  | X         | 96.00           | AMD EPYC<br>7R13           | 48    | 24           | 2                      | X                |  |  |  |
| c6a.16xlarge  | X         | 128.00          | AMD EPYC<br>7R13           | 64    | 32           | 2                      | X                |  |  |  |
| c6a.24xlarge  | X         | 192.00          | AMD EPYC<br>7R13           | 96    | 48           | 2                      | X                |  |  |  |
| c6a.32xlarge  | X         | 256.00          | AMD EPYC<br>7R13           | 128   | 64           | 2                      | X                |  |  |  |
| c6a.48xlarge  | X         | 384.00          | AMD EPYC<br>7R13           | 192   | 96           | 2                      | X                |  |  |  |
| c6a.metal     | X         | 384.00          | AMD EPYC<br>7R13           | 192   | 96           | 2                      | X                |  |  |  |
| C6g           |           |                 |                            |       |              |                        |                  |  |  |  |
| c6g.medium    | X         | 2.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |  |  |  |
| c6g.large     | X         | 4.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |  |  |  |
| c6g.xlarge    | X         | 8.00            | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |  |  |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| c6g.2xlarge   | X         | 16.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| c6g.4xlarge   | X         | 32.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| c6g.8xlarge   | X         | 64.00           | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| c6g.12xlarge  | X         | 96.00           | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| c6g.16xlarge  | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
| c6g.metal     | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|               |           |                 | C6gd                       |       |              |                        |                  |
| c6gd.medium   | X         | 2.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| c6gd.large    | X         | 4.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| c6gd.xlarge   | X         | 8.00            | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| c6gd.2xlarge  | X         | 16.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| c6gd.4xlarge  | X         | 32.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | x                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| c6gd.8xlarge  | X         | 64.00           | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| c6gd.12xlarge | X         | 96.00           | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| c6gd.16xlarge | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
| c6gd.metal    | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|               |           |                 | C6gn                       |       |              |                        |                  |
| c6gn.medium   | X         | 2.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| c6gn.large    | X         | 4.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| c6gn.xlarge   | X         | 8.00            | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| c6gn.2xlarge  | X         | 16.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| c6gn.4xlarge  | X         | 32.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| c6gn.8xlarge  | X         | 64.00           | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| c6gn.12xlarge | X         | 96.00           | AWS Graviton2<br>Processor | 48    | 48           | 1                      | x                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------|------------------|
| c6gn.16xlarge | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | X                |
|               |           |                 | C6i                        |       |              |                  |                  |
| c6i.large     | X         | 4.00            | Intel Xeon Ice<br>Lake     | 2     | 1            | 2                | X                |
| c6i.xlarge    | X         | 8.00            | Intel Xeon Ice<br>Lake     | 4     | 2            | 2                | X                |
| c6i.2xlarge   | X         | 16.00           | Intel Xeon Ice<br>Lake     | 8     | 4            | 2                | x                |
| c6i.4xlarge   | X         | 32.00           | Intel Xeon Ice<br>Lake     | 16    | 8            | 2                | x                |
| c6i.8xlarge   | X         | 64.00           | Intel Xeon Ice<br>Lake     | 32    | 16           | 2                | X                |
| c6i.12xlarge  | X         | 96.00           | Intel Xeon Ice<br>Lake     | 48    | 24           | 2                | X                |
| c6i.16xlarge  | X         | 128.00          | Intel Xeon Ice<br>Lake     | 64    | 32           | 2                | X                |
| c6i.24xlarge  | X         | 192.00          | Intel Xeon Ice<br>Lake     | 96    | 48           | 2                | X                |
| c6i.32xlarge  | X         | 256.00          | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                | X                |
| c6i.metal     | X         | 256.00          | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                | X                |
|               |           |                 | C6id                       |       |              |                  |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| c6id.large    | X         | 4.00            | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |
| c6id.xlarge   | X         | 8.00            | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |
| c6id.2xlarge  | X         | 16.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| c6id.4xlarge  | X         | 32.00           | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| c6id.8xlarge  | X         | 64.00           | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| c6id.12xlarge | X         | 96.00           | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| c6id.16xlarge | X         | 128.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| c6id.24xlarge | X         | 192.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| c6id.32xlarge | X         | 256.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| c6id.metal    | X         | 256.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | C6in                   |       |              |                        |                  |
| c6in.large    | X         | 4.00            | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| c6in.xlarge   | X         | 8.00            | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |
| c6in.2xlarge  | X         | 16.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| c6in.4xlarge  | X         | 32.00           | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| c6in.8xlarge  | X         | 64.00           | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| c6in.12xlarge | X         | 96.00           | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| c6in.16xlarge | X         | 128.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| c6in.24xlarge | X         | 192.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| c6in.32xlarge | X         | 256.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| c6in.metal    | X         | 256.00          | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | <b>C7</b> a            |       |              |                        |                  |
| c7a.medium    | X         | 2.00            | AMD EPYC<br>9R14       | 1     | 1            | 1                      | X                |
| c7a.large     | X         | 4.00            | AMD EPYC<br>9R14       | 2     | 2            | 1                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|--------------------|-----------|-----------------|----------------------------|-------|--------------|------------------|------------------|
| c7a.xlarge         | X         | 8.00            | AMD EPYC<br>9R14           | 4     | 4            | 1                | X                |
| c7a.2xlarge        | X         | 16.00           | AMD EPYC<br>9R14           | 8     | 8            | 1                | X                |
| c7a.4xlarge        | X         | 32.00           | AMD EPYC<br>9R14           | 16    | 16           | 1                | X                |
| c7a.8xlarge        | X         | 64.00           | AMD EPYC<br>9R14           | 32    | 32           | 1                | X                |
| c7a.12xlarge       | X         | 96.00           | AMD EPYC<br>9R14           | 48    | 48           | 1                | X                |
| c7a.16xlarge       | X         | 128.00          | AMD EPYC<br>9R14           | 64    | 64           | 1                | X                |
| c7a.24xlarge       | X         | 192.00          | AMD EPYC<br>9R14           | 96    | 96           | 1                | X                |
| c7a.32xlarge       | X         | 256.00          | AMD EPYC<br>9R14           | 128   | 128          | 1                | X                |
| c7a.48xlarge       | X         | 384.00          | AMD EPYC<br>9R14           | 192   | 192          | 1                | X                |
| c7a.metal<br>-48xl | X         | 384.00          | AMD EPYC<br>9R14           | 192   | 192          | 1                | X                |
|                    |           |                 | C7g                        |       |              |                  |                  |
| c7g.medium         | X         | 2.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| c7g.large     | X         | 4.00            | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| c7g.xlarge    | X         | 8.00            | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |
| c7g.2xlarge   | X         | 16.00           | AWS Graviton3<br>Processor | 8     | 8            | 1                      | X                |
| c7g.4xlarge   | X         | 32.00           | AWS Graviton3<br>Processor | 16    | 16           | 1                      | X                |
| c7g.8xlarge   | X         | 64.00           | AWS Graviton3<br>Processor | 32    | 32           | 1                      | X                |
| c7g.12xlarge  | X         | 96.00           | AWS Graviton3<br>Processor | 48    | 48           | 1                      | X                |
| c7g.16xlarge  | X         | 128.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
| c7g.metal     | X         | 128.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
|               |           |                 | C7gd                       |       |              |                        |                  |
| c7gd.medium   | X         | 2.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                      | X                |
| c7gd.large    | X         | 4.00            | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| c7gd.xlarge   | X         | 8.00            | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| c7gd.2xlarge  | X         | 16.00           | AWS Graviton3<br>Processor   | 8     | 8            | 1                      | X                |
| c7gd.4xlarge  | X         | 32.00           | AWS Graviton3<br>Processor   | 16    | 16           | 1                      | X                |
| c7gd.8xlarge  | X         | 64.00           | AWS Graviton3<br>Processor   | 32    | 32           | 1                      | X                |
| c7gd.12xlarge | X         | 96.00           | AWS Graviton3<br>Processor   | 48    | 48           | 1                      | X                |
| c7gd.16xlarge | X         | 128.00          | AWS Graviton3<br>Processor   | 64    | 64           | 1                      | X                |
| c7gd.metal    | X         | 128.00          | AWS Graviton3<br>Processor   | 64    | 64           | 1                      | X                |
|               |           |                 | C7gn                         |       |              |                        |                  |
| c7gn.medium   | X         | 2.00            | AWS Graviton3<br>E Processor | 1     | 1            | 1                      | X                |
| c7gn.large    | X         | 4.00            | AWS Graviton3<br>E Processor | 2     | 2            | 1                      | X                |
| c7gn.xlarge   | X         | 8.00            | AWS Graviton3<br>E Processor | 4     | 4            | 1                      | X                |
| c7gn.2xlarge  | X         | 16.00           | AWS Graviton3<br>E Processor | 8     | 8            | 1                      | X                |
| c7gn.4xlarge  | X         | 32.00           | AWS Graviton3<br>E Processor | 16    | 16           | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------------|-------|--------------|------------------------|------------------|
| c7gn.8xlarge  | X         | 64.00           | AWS Graviton3<br>E Processor     | 32    | 32           | 1                      | X                |
| c7gn.12xlarge | X         | 96.00           | AWS Graviton3<br>E Processor     | 48    | 48           | 1                      | X                |
| c7gn.16xlarge | X         | 128.00          | AWS Graviton3<br>E Processor     | 64    | 64           | 1                      | X                |
| c7gn.metal    | X         | 128.00          | AWS Graviton3<br>E Processor     | 64    | 64           | 1                      | X                |
|               |           |                 | C7i                              |       |              |                        |                  |
| c7i.large     | X         | 4.00            | Intel Xeon<br>Sapphire<br>Rapids | 2     | 1            | 2                      | X                |
| c7i.xlarge    | x         | 8.00            | Intel Xeon<br>Sapphire<br>Rapids | 4     | 2            | 2                      | X                |
| c7i.2xlarge   | X         | 16.00           | Intel Xeon<br>Sapphire<br>Rapids | 8     | 4            | 2                      | X                |
| c7i.4xlarge   | x         | 32.00           | Intel Xeon<br>Sapphire<br>Rapids | 16    | 8            | 2                      | X                |
| c7i.8xlarge   | X         | 64.00           | Intel Xeon<br>Sapphire<br>Rapids | 32    | 16           | 2                      | X                |

| Instance type  | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|----------------|-----------|-----------------|----------------------------------|-------|--------------|------------------|------------------|
| c7i.12xlarge   | X         | 96.00           | Intel Xeon<br>Sapphire<br>Rapids | 48    | 24           | 2                | X                |
| c7i.16xlarge   | x         | 128.00          | Intel Xeon<br>Sapphire<br>Rapids | 64    | 32           | 2                | X                |
| c7i.24xlarge   | X         | 192.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                | X                |
| c7i.48xlarge   | X         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                | X                |
| c7i.metal-24xl | X         | 192.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                | X                |
| c7i.metal-48xl | X         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                | X                |

## **Network specifications**

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|               |                                   |     |     | <b>C</b> 5     |                  |                                   |                                     |      |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c5.large <sup>1</sup>    | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c5.xlarge <sup>1</sup>   | 1.25 / 10.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c5.2xlarge <sup>1</sup>  | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c5.4xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c5.9xlarge               | 12 Gigabit                        | x   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c5.12xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5.18xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c5.24xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c5.metal                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | C   | .5a            |                  |                                   |                                     |      |
| c5a.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c5a.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c5a.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c5a.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5a.8xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5a.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5a.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c5a.24xlarge             | 20 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | C   | 5ad            |                  |                                   |                                     |      |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c5ad.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c5ad.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c5ad.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c5ad.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5ad.8xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5ad.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5ad.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c5ad.24xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | .5d            |                  |                                   |                                     |      |
| c5d.large <sup>1</sup>    | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c5d.xlarge <sup>1</sup>   | 1.25 / 10.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c5d.2xlarge <sup>1</sup>  | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c5d.4xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5d.9xlarge               | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5d.12xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5d.18xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c5d.24xlarge              | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c5d.metal                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | .5n            |                  |                                   |                                     |      |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c5n.large <sup>1</sup>   | 3.0 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c5n.xlarge <sup>1</sup>  | 5.0 / 25.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c5n.2xlarge <sup>1</sup> | 10.0 / 25.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c5n.4xlarge <sup>1</sup> | 15.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5n.9xlarge              | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c5n.18xlarge             | 100 Gigabit                       | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c5n.metal                | 100 Gigabit                       | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | C   | :6a            |                  |                                   |                                     |      |
| c6a.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| c6a.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6a.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6a.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c6a.8xlarge              | 12.5 Gigabit                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c6a.12xlarge             | 18.75 Gigabit                     | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c6a.16xlarge             | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c6a.24xlarge             | 37.5 Gigabit                      | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c6a.32xlarge             | 50 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c6a.48xlarge             | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6a.metal                | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                           |                                   |     | C   | 6g             |                  |                                   |                                     |      |
| c6g.medium <sup>1</sup>   | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c6g.large <sup>1</sup>    | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c6g.xlarge <sup>1</sup>   | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6g.2xlarge <sup>1</sup>  | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6g.4xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6g.8xlarge               | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6g.12xlarge              | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6g.16xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c6g.metal                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | 5gd            |                  |                                   |                                     |      |
| c6gd.medium               | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c6gd.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c6gd.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6gd.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6gd.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c6gd.8xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6gd.12xlarge             | 20 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c6gd.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c6gd.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | 5gn            |                  |                                   |                                     |      |
| c6gn.medium<br>1          | 1.6 / 16.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c6gn.large <sup>1</sup>   | 3.0 / 25.0                        | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| c6gn.xlarge <sup>1</sup>  | 6.3 / 25.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6gn.2xlarge <sup>1</sup> | 12.5 / 25.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c6gn.4xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6gn.8xlarge              | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6gn.12xlarge             | 75 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6gn.16xlarge             | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | (   | :6i            |                  |                                   |                                     |      |
| c6i.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c6i.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6i.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6i.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6i.8xlarge               | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c6i.12xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c6i.16xlarge              | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6i.24xlarge              | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6i.32xlarge              | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6i.metal                 | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | c   | 6id            |                  |                                   |                                     |      |
| c6id.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c6id.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6id.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6id.4xlarge <sup>1</sup> | 6.25 / 12.5                       | x   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c6id.8xlarge              | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c6id.12xlarge             | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c6id.16xlarge             | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6id.24xlarge             | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6id.32xlarge             | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c6id.metal                | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | c   | 6in            |                  |                                   |                                     |      |
| c6in.large <sup>1</sup>   | 3.125 / 25.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c6in.xlarge <sup>1</sup>  | 6.25 / 30.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c6in.2xlarge <sup>1</sup> | 12.5 / 40.0                       | x   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c6in.4xlarge <sup>1</sup> | 25.0 / 50.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6in.8xlarge              | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6in.12xlarge             | 75 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c6in.16xlarge             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c6in.24xlarge             | 150 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c6in.32xlarge             | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
| c6in.metal                | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
|                           |                                   |     | C   | .7a            |                  |                                   |                                     |      |
| c7a.medium <sup>1</sup>   | 0.39 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c7a.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c7a.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7a.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7a.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7a.8xlarge               | 12.5 Gigabit                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c7a.12xlarge              | 18.75 Gigabit                     | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| c7a.16xlarge              | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c7a.24xlarge              | 37.5 Gigabit                      | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| c7a.32xlarge              | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c7a.48xlarge              | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c7a.metal<br>-48xl        | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | .7g            |                  |                                   |                                     |      |
| c7g.medium <sup>1</sup>   | 0.52 / 12.5                       | X   | ✓   | x              | 1                | 2                                 | 4                                   | ✓    |
| c7g.large <sup>1</sup>    | 0.937 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| c7g.xlarge <sup>1</sup>   | 1.876 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7g.2xlarge <sup>1</sup>  | 3.75 / 15.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7g.4xlarge <sup>1</sup>  | 7.5 / 15.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7g.8xlarge               | 15 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7g.12xlarge              | 22.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c7g.16xlarge              | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7g.metal                 | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | 7gd            |                  |                                   |                                     |      |
| c7gd.medium<br>1          | 0.52 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c7gd.large <sup>1</sup>   | 0.937 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c7gd.xlarge <sup>1</sup>  | 1.876 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c7gd.2xlarge <sup>1</sup> | 3.75 / 15.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7gd.4xlarge <sup>1</sup> | 7.5 / 15.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c7gd.8xlarge              | 15 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7gd.12xlarge             | 22.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c7gd.16xlarge             | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7gd.metal                | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | C   | 7gn            |                  |                                   |                                     |      |
| c7gn.medium<br>1          | 3.125 / 25.0                      | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| c7gn.large <sup>1</sup>   | 6.25 / 30.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c7gn.xlarge <sup>1</sup>  | 12.5 / 40.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c7gn.2xlarge <sup>1</sup> | 25.0 / 50.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| c7gn.4xlarge              | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7gn.8xlarge              | 100 Gigabit                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7gn.12xlarge             | 150 Gigabit                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7gn.16xlarge             | 200 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| c7gn.metal                | 200 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | (   | :7i            |                  |                                   |                                     |      |
| c7i.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| c7i.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| c7i.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c7i.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7i.8xlarge              | 12.5 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| c7i.12xlarge             | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| c7i.16xlarge             | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7i.24xlarge             | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7i.48xlarge             | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7i.metal-24xl           | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| c7i.metal-48xl           | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |

#### Note

<sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

For 32xlarge and metal instance types that support 200 Gbps, at least 2 ENIs, each attached to a different network card, are required on the instance to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve a max of 170 Gbps.

# **Amazon EBS specifications**

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|-------------------------------------|---|---|------|--------------------|
|                         |                                     | c   | 5   |      |                    |
| c5.large <sup>1</sup>   | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 4000.00 /<br>20000.00                         | ✓    | default            |
| c5.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓    | default            |
| c5.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 10000.00 /<br>20000.00                        | ✓    | default            |
| c5.4xlarge              | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| c5.9xlarge              | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| c5.12xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| c5.18xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| c5.24xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| c5.metal                | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
|                         |                                     | C   | 5a  |      |                    |
| c5a.large <sup>1</sup>  | 200.00 /<br>3170.00                 | 25.00 /<br>396.25                                 | 800.00 /<br>13300.00                          | ✓    | default            |
| c5a.xlarge <sup>1</sup> | 400.00 /<br>3170.00                 | 50.00 /<br>396.25                                 | 1600.00 /<br>13300.00                         | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS<br>optimization<br>2 |
|--------------------------|--|---|---|------|--------------------------|
| c5a.2xlarge <sup>1</sup> | 800.00 /<br>3170.00                          | 100.00 /<br>396.25  | 3200.00 /<br>13300.00                         | ✓    | default                  |
| c5a.4xlarge <sup>1</sup> | 1580.00 /<br>3170.00                         | 197.50 /<br>396.25  | 6600.00 /<br>13300.00                         | ✓    | default                  |
| c5a.8xlarge              | 3170.00                                      | 396.25  | 13300.00                                      | ✓    | default                  |
| c5a.12xlarge             | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default                  |
| c5a.16xlarge             | 6300.00                                      | 787.50  | 26700.00                                      | ✓    | default                  |
| c5a.24xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default                  |
|                          |  | C5  | ad  |      |                          |
| c5ad.large <sup>1</sup>  | 200.00 /<br>3170.00                          | 25.00 /<br>396.25   | 800.00 /<br>13300.00                          | ✓    | default                  |
| c5ad.xlarge <sup>1</sup> | 400.00 /<br>3170.00                          | 50.00 /<br>396.25   | 1600.00 /<br>13300.00                         | ✓    | default                  |
| c5ad.2xlarge<br>1        | 800.00 /<br>3170.00                          | 100.00 /<br>396.25  | 3200.00 /<br>13300.00                         | ✓    | default                  |
| c5ad.4xlarge             | 1580.00 /<br>3170.00                         | 197.50 /<br>396.25  | 6600.00 /<br>13300.00                         | ✓    | default                  |
| c5ad.8xlarge             | 3170.00                                      | 396.25  | 13300.00                                      | ✓    | default                  |
| c5ad.12xl<br>arge        | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default                  |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| c5ad.16xl<br>arge        | 6300.00                                      | 787.50  | 26700.00                                      | ✓    | default            |
| c5ad.24xl<br>arge        | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
|                          |  | C   | 5d  |      |                    |
| c5d.large <sup>1</sup>   | 650.00 /<br>4750.00                          | 81.25 /<br>593.75   | 4000.00 /<br>20000.00                         | ✓    | default            |
| c5d.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                         | 143.75 /<br>593.75  | 6000.00 /<br>20000.00                         | ✓    | default            |
| c5d.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                         | 287.50 /<br>593.75  | 10000.00 /<br>20000.00                        | ✓    | default            |
| c5d.4xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| c5d.9xlarge              | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| c5d.12xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| c5d.18xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| c5d.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| c5d.metal                | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | C   | 5n  |      |                    |
| c5n.large <sup>1</sup>   | 650.00 /<br>4750.00                          | 81.25 /<br>593.75   | 4000.00 /<br>20000.00                         | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS<br>optimization<br>2 |
|--------------------------|--|---|---|------|--------------------------|
| c5n.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                         | 143.75 /<br>593.75  | 6000.00 /<br>20000.00                         | ✓    | default                  |
| c5n.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                         | 287.50 /<br>593.75  | 10000.00 /<br>20000.00                        | ✓    | default                  |
| c5n.4xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default                  |
| c5n.9xlarge              | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default                  |
| c5n.18xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default                  |
| c5n.metal                | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default                  |
|                          |  | Ce  | Sa  |      |                          |
| c6a.large <sup>1</sup>   | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default                  |
| c6a.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default                  |
| c6a.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default                  |
| c6a.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default                  |
| c6a.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default                  |
| c6a.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default                  |
| c6a.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default                  |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| c6a.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| c6a.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| c6a.48xlarge             | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
| c6a.metal                | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
|                          |  | C   | 5g  |      |                    |
| c6g.medium               | 315.00 /<br>4750.00                          | 39.38 /<br>593.75   | 2500.00 /<br>20000.00                         | ✓    | default            |
| c6g.large <sup>1</sup>   | 630.00 /<br>4750.00                          | 78.75 /<br>593.75   | 3600.00 /<br>20000.00                         | ✓    | default            |
| c6g.xlarge <sup>1</sup>  | 1188.00 /<br>4750.00                         | 148.50 /<br>593.75  | 6000.00 /<br>20000.00                         | ✓    | default            |
| c6g.2xlarge <sup>1</sup> | 2375.00 /<br>4750.00                         | 296.88 /<br>593.75  | 12000.00 /<br>20000.00                        | ✓    | default            |
| c6g.4xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| c6g.8xlarge              | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| c6g.12xlarge             | 14250.00                                     | 1781.25   | 50000.00                                      | ✓    | default            |
| c6g.16xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| c6g.metal                | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | C6  | gd  |      |                    |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| c6gd.medium              | 315.00 /<br>4750.00                 | 39.38 /<br>593.75                                 | 2500.00 /<br>20000.00                         | ✓    | default            |
| c6gd.large <sup>1</sup>  | 630.00 /<br>4750.00                 | 78.75 /<br>593.75                                 | 3600.00 /<br>20000.00                         | ✓    | default            |
| c6gd.xlarge <sup>1</sup> | 1188.00 /<br>4750.00                | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓    | default            |
| c6gd.2xlarge             | 2375.00 /<br>4750.00                | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓    | default            |
| c6gd.4xlarge             | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| c6gd.8xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| c6gd.12xl<br>arge        | 14250.00                            | 1781.25   | 50000.00                                      | ✓    | default            |
| c6gd.16xl<br>arge        | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| c6gd.metal               | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |                                     | C6  | gn  |      |                    |
| c6gn.medium              | 760.00 /<br>9500.00                 | 95.00 /<br>1187.50                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| c6gn.large <sup>1</sup>  | 1235.00 /<br>9500.00                | 154.38 /<br>1187.50                               | 5000.00 /<br>40000.00                         | ✓    | default            |
| c6gn.xlarge <sup>1</sup> | 2375.00 /<br>9500.00                | 296.88 /<br>1187.50                               | 10000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| c6gn.2xlarge             | 4750.00 /<br>9500.00                | 593.75 /<br>1187.50                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| c6gn.4xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| c6gn.8xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| c6gn.12xl<br>arge        | 28500.00                            | 3562.50   | 120000.00                                     | ✓    | default            |
| c6gn.16xl<br>arge        | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
|                          |                                     | C   | 6i  |      |                    |
| c6i.large <sup>1</sup>   | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| c6i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| c6i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| c6i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| c6i.8xlarge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| c6i.12xlarge             | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |
| c6i.16xlarge             | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |
| c6i.24xlarge             | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |

| Instance<br>type          | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------|-------------------------------------|---|---|------|--------------------|
| c6i.32xlarge              | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
| c6i.metal                 | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
|                           |                                     | Cé  | iid   |      |                    |
| c6id.large <sup>1</sup>   | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| c6id.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| c6id.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| c6id.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| c6id.8xlarge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| c6id.12xlarge             | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |
| c6id.16xlarge             | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |
| c6id.24xlarge             | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| c6id.32xlarge             | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
| c6id.metal                | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
|                           |                                     | Cé  | iin   |      |                    |
| c6in.large <sup>1</sup>   | 1562.00 /<br>25000.00               | 195.31 /<br>3125.00                               | 6250.00 /<br>100000.00                        | ✓    | default            |

| Instance<br>type          | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe     | EBS optimization 2 |
|---------------------------|--|---|---|----------|--------------------|
| c6in.xlarge <sup>1</sup>  | 3125.00 /<br>25000.00                        | 390.62 /<br>3125.00   | 12500.00 /<br>100000.00                       | ✓        | default            |
| c6in.2xlarge <sup>1</sup> | 6250.00 /<br>25000.00                        | 781.25 /<br>3125.00   | 25000.00 /<br>100000.00                       | ✓        | default            |
| c6in.4xlarge <sup>1</sup> | 12500.00 /<br>25000.00                       | 1562.50 /<br>3125.00  | 50000.00 /<br>100000.00                       | ✓        | default            |
| c6in.8xlarge              | 25000.00                                     | 3125.00   | 100000.00                                     | ✓        | default            |
| c6in.12xlarge             | 37500.00                                     | 4687.50   | 150000.00                                     | ✓        | default            |
| c6in.16xlarge             | 50000.00                                     | 6250.00   | 200000.00                                     | ✓        | default            |
| c6in.24xlarge             | 75000.00                                     | 9375.00   | 300000.00                                     | ✓        | default            |
| c6in.32xlarge             | 100000.00                                    | 12500.00  | 400000.00                                     | ✓        | default            |
| c6in.metal                | 100000.00                                    | 12500.00  | 400000.00                                     | ✓        | default            |
|                           |  | C   | 7a  |          |                    |
| c7a.medium                | 325.00 /<br>10000.00                         | 40.62 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓        | default            |
| c7a.large <sup>1</sup>    | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓        | default            |
| c7a.xlarge <sup>1</sup>   | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | <b>√</b> | default            |
| c7a.2xlarge <sup>1</sup>  | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓        | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| c7a.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| c7a.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| c7a.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| c7a.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| c7a.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| c7a.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| c7a.48xlarge             | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
| c7a.metal<br>-48xl       | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
|                          |  | C   | 7g  |      |                    |
| c7g.medium<br>1          | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| c7g.large <sup>1</sup>   | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| c7g.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| c7g.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| c7g.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| c7g.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| c7g.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| c7g.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| c7g.metal                | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
|                          |  | С7  | gd  |      |                    |
| c7gd.medium              | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| c7gd.large <sup>1</sup>  | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| c7gd.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| c7gd.2xlarge             | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| c7gd.4xlarge             | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| c7gd.8xlarge             | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| c7gd.12xl<br>arge        | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| c7gd.16xl<br>arge        | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| c7gd.metal               | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |

| Instance<br>type               | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------------|-------------------------------------|---|---|------|--------------------|
|                                |                                     | С7  | gn  |      |                    |
| c7gn.medium<br>1               | 521.00 /<br>10000.00                | 65.12 /<br>1250.00                                | 2083.00 /<br>40000.00                         | ✓    | default            |
| c7gn.large <sup>1</sup>        | 1042.00 /<br>10000.00               | 130.25 /<br>1250.00                               | 4167.00 /<br>40000.00                         | ✓    | default            |
| c7gn.xlarge <sup>1</sup>       | 2083.00 /<br>10000.00               | 260.38 /<br>1250.00                               | 8333.00 /<br>40000.00                         | ✓    | default            |
| c7gn.2xlarge                   | 4167.00 /<br>10000.00               | 520.88 /<br>1250.00                               | 16667.00 /<br>40000.00                        | ✓    | default            |
| c7gn.4xlarge                   | 8333.00 /<br>10000.00               | 1041.62 /<br>1250.00                              | 33333.00 /<br>40000.00                        | ✓    | default            |
| c7gn.8xlarge                   | 16667.00 /<br>20000.00              | 2083.38 /<br>2500.00                              | 66667.00 /<br>80000.00                        | ✓    | default            |
| c7gn.12xl<br>arge <sup>1</sup> | 25000.00 /<br>30000.00              | 3125.00 /<br>3750.00                              | 100000.00 /<br>120000.00                      | ✓    | default            |
| c7gn.16xl<br>arge <sup>1</sup> | 33333.00 /<br>40000.00              | 4166.62 /<br>5000.00                              | 133333.00 /<br>160000.00                      | ✓    | default            |
| c7gn.metal <sup>1</sup>        | 33333.00 /<br>40000.00              | 4166.62 /<br>5000.00                              | 133333.00 /<br>160000.00                      | ✓    | default            |
|                                |                                     | C   | 7i  |      |                    |
| c7i.large <sup>1</sup>         | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| c7i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| c7i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| c7i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| c7i.8xlarge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| c7i.12xlarge             | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |
| c7i.16xlarge             | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |
| c7i.24xlarge             | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| c7i.48xlarge             | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |
| c7i.metal<br>-24xl       | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| c7i.metal<br>-48xl       | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |

### Note

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

### **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
|               |                              | C5                        | ad                              |  |                      |
| c5ad.large    | 1 x 75 GB                    | NVMe<br>SSD               | 16,283 / 7,105                  |  | ✓                    |
| c5ad.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 32,566 / 14,211                 |  | ✓                    |
| c5ad.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 65,132 / 28,421                 |  | ✓                    |
| c5ad.4xlarge  | 2 x 300 GB                   | NVMe<br>SSD               | 130,262 / 56,842                |  | ✓                    |
| c5ad.8xlarge  | 2 x 600 GB                   | NVMe<br>SSD               | 260,526 / 113,684               |  | ✓                    |
| c5ad.12xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 412,500 / 180,000               |  | ✓                    |
| c5ad.16xlarge | 2 x 1200 GB                  | NVMe<br>SSD               | 521,052 / 227,368               |  | ✓                    |
| c5ad.24xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 825,000 / 360,000               |  | ✓                    |
|               |                              | C                         | 5d                              |  |                      |

Instance store specifications 137

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| c5d.large     | 1 x 50 GB                    | NVMe<br>SSD               | 20,000 / 9,000                  |  | ✓                    |
| c5d.xlarge    | 1 x 100 GB                   | NVMe<br>SSD               | 40,000 / 18,000                 |  | ✓                    |
| c5d.2xlarge   | 1 x 200 GB                   | NVMe<br>SSD               | 80,000 / 37,000                 |  | ✓                    |
| c5d.4xlarge   | 1 x 400 GB                   | NVMe<br>SSD               | 175,000 / 75,000                |  | ✓                    |
| c5d.9xlarge   | 1 x 900 GB                   | NVMe<br>SSD               | 350,000 / 170,000               |  | ✓                    |
| c5d.12xlarge  | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |
| c5d.18xlarge  | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |
| c5d.24xlarge  | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |
| c5d.metal     | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |
|               |                              | C6                        | igd                             |  |                      |
| c6gd.medium   | 1 x 59 GB                    | NVMe<br>SSD               | 13,438 / 5,625                  |  | ✓                    |
| c6gd.large    | 1 x 118 GB                   | NVMe<br>SSD               | 26,875 / 11,250                 |  | ✓                    |

Instance store specifications 138

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| c6gd.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 53,750 / 22,500                 |  | ✓                    |
| c6gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| c6gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 215,000 / 90,000                |  | ✓                    |
| c6gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |
| c6gd.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| c6gd.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| c6gd.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| C6id          |                              |                           |                                 |  |                      |
| c6id.large    | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| c6id.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| c6id.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| c6id.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |

Instance store specifications 139

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| c6id.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| c6id.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| c6id.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| c6id.24xlarge | 4 x 1425 GB                  | NVMe<br>SSD               | 1,609,996 /<br>805,000          |  | ✓                    |
| c6id.32xlarge | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
| c6id.metal    | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
|               |                              | <b>C</b> 7                | 'gd                             |  |                      |
| c7gd.medium   | 1 x 59 GB                    | NVMe<br>SSD               | 16,771 / 8,385                  |  | ✓                    |
| c7gd.large    | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| c7gd.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| c7gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| c7gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |

Instance store specifications 140

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| c7gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| c7gd.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| c7gd.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| c7gd.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

### **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| C5            |                       |                                     |                              |                |          |                   |  |
| c5.large      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | X                 |  |
| c5.xlarge     | ✓                     | Instance<br>store not<br>supported  | x                            | X              | ✓        | ✓                 |  |

<sup>&</sup>lt;sup>2</sup> For more information, see <u>Instance store volume TRIM support</u>.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c5.2xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | <b>√</b> | ✓                 |
| c5.4xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| c5.9xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | X              | ✓        | ✓                 |
| c5.12xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| c5.18xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| c5.24xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| c5.metal      | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
|               |                       |                                     | C5a                          |                |          |                   |
| c5a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c5a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c5a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c5a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c5a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c5a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c5a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c5a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
|               |                       |                                     | C5ad                         |                |          |                   |
| c5ad.large    | ✓                     | ✓                                   | ✓                            | X              | ✓        | X                 |
| c5ad.xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c5ad.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c5ad.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c5ad.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c5ad.12xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c5ad.16xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c5ad.24xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
|               |                       |                                     | C5d                          |                |          |                   |
| c5d.large     | ✓                     | ✓                                   | x                            | x              | ✓        | x                 |
| c5d.xlarge    | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| c5d.2xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| c5d.4xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| c5d.9xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| c5d.12xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| c5d.18xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| c5d.24xlarge  | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| c5d.metal     | ✓                     | ✓                                   | X                            | X              | X        | x                 |
|               |                       |                                     | C5n                          |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| c5n.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |
| c5n.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| c5n.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| c5n.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| c5n.9xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| c5n.18xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| c5n.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |
| C6a           |                       |                                     |                              |                |          |                   |  |
| c6a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | X                 |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |
| c6a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6a.32xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6a.48xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6a.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
|               |                       |                                     | C6g                          |                |          |                   |
| c6g.medium    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | x                 |
| c6g.large     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | ✓                 |
| c6g.xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | ✓                 |
| c6g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | ✓                 |
| c6g.4xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | ✓                 |
| c6g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| c6g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| c6g.metal     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | X                 |
|               |                       | (                                   | C6gd                         |                |          |                   |
| c6gd.medium   | ✓                     | ✓                                   | x                            | X              | x        | x                 |
| c6gd.large    | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |
| c6gd.xlarge   | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |
| c6gd.2xlarge  | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |
| c6gd.4xlarge  | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |
| c6gd.8xlarge  | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |
| c6gd.12xlarge | ✓                     | ✓                                   | x                            | X              | x        | ✓                 |
| c6gd.16xlarge | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| c6gd.metal    | ✓                     | ✓                                   | X                            | X              | X        | X                 |
|               |                       | (                                   | C6gn                         |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| c6gn.medium   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |  |  |  |
| c6gn.large    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |  |  |  |
| c6gn.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |  |  |  |
| c6gn.2xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |  |  |  |
| c6gn.4xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |  |  |  |
| c6gn.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |  |  |  |
| c6gn.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |  |  |  |
| c6gn.16xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |  |  |  |
|               | C6i                   |                                     |                              |                |          |                   |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6i.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c6i.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c6i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c6i.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c6i.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6i.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6i.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6i.32xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6i.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
|               |                       |                                     | C6id                         |                |          |                   |
| c6id.large    | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |
| c6id.xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c6id.2xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| c6id.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| c6id.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c6id.12xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| c6id.16xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c6id.24xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| c6id.32xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| c6id.metal    | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
|               |                       | (                                   | C6in                         |                |          |                   |
| c6in.large    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6in.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6in.2xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c6in.4xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6in.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6in.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6in.16xlarge | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| c6in.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| c6in.32xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c6in.metal    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|               |                       |                                     | C7a                          |                |          |                   |
| c7a.medium    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c7a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c7a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c7a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c7a.16xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c7a.32xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.48xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7a.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|                |                       |                                     | C7g                          |                |          |                   |
| c7g.medium     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| c7g.large      | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | ✓                 |
| c7g.xlarge     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c7g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| c7g.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| c7g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| c7g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| c7g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | ✓                 |
| c7g.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | x                 |
|               |                       |                                     | C7gd                         |                |          |                   |
| c7gd.medium   | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| c7gd.large    | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| c7gd.xlarge   | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| c7gd.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c7gd.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| c7gd.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| c7gd.12xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| c7gd.16xlarge | ✓                     | ✓                                   | ✓                            | X              | x        | x                 |
| c7gd.metal    | ✓                     | ✓                                   | ✓                            | X              | x        | x                 |
|               |                       | (                                   | C7gn                         |                |          |                   |
| c7gn.medium   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| c7gn.large    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | x                 |
| c7gn.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| c7gn.2xlarge  | ✓                     | Instance<br>store not<br>supported  | <b>√</b>                     | x              | X        | X                 |
| c7gn.4xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c7gn.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| c7gn.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| c7gn.16xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | x        | X                 |
| c7gn.metal    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
|               |                       |                                     | C7i                          |                |          |                   |
| c7i.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.xlarge    | ✓                     | Instance<br>store not<br>supported  | <b>√</b>                     | X              | <b>√</b> | X                 |
| c7i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c7i.8xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.12xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| c7i.16xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.48xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| c7i.metal-24xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| c7i.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |

# **Memory optimized instances**

Memory optimized instances are designed to deliver fast performance for workloads that process large data sets in memory.

Memory optimized 158

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

### **Available sizes**

| Instance<br>type | Available sizes  |
|------------------|--|
| R5               | r5.large r5.xlarge  r5.2xlarge  r5.4xlarge  r5.8xlarge  <br>r5.12xlarge  r5.16xlarge  r5.24xlarge  r5.metal                        |
| R5a              | r5a.large  r5a.xlarge  r5a.2xlarge  r5a.4xlarge  r5a.8xlar<br>ge  r5a.12xlarge  r5a.16xlarge  r5a.24xlarge                         |
| R5ad             | r5ad.large  r5ad.xlarge  r5ad.2xlarge  r5ad.4xlarge  <br>r5ad.8xlarge  r5ad.12xlarge  r5ad.16xlarge  r5ad.24xlarge                 |
| R5b              | r5b.large  r5b.xlarge  r5b.2xlarge  r5b.4xlarge  r5b.8xlar<br>ge  r5b.12xlarge  r5b.16xlarge  r5b.24xlarge  r5b.metal              |
| R5d              | r5d.large  r5d.xlarge  r5d.2xlarge  r5d.4xlarge  r5d.8xlar<br>ge  r5d.12xlarge  r5d.16xlarge  r5d.24xlarge  r5d.metal              |
| R5dn             | r5dn.large  r5dn.xlarge  r5dn.2xlarge  r5dn.4xlarge  <br>r5dn.8xlarge  r5dn.12xlarge  r5dn.16xlarge  r5dn.24xlarge  <br>r5dn.metal |
| R5n              | r5n.large  r5n.xlarge  r5n.2xlarge  r5n.4xlarge  r5n.8xlar<br>ge  r5n.12xlarge  r5n.16xlarge  r5n.24xlarge  r5n.metal              |

Available sizes 159

| Instance<br>type | Available sizes  |
|------------------|--|
| R6a              | r6a.large   r6a.xlarge   r6a.2xlarge   r6a.4xlarge   r6a.8xlar<br>ge   r6a.12xlarge   r6a.16xlarge   r6a.24xlarge   r6a.32xlarge  <br>r6a.48xlarge   r6a.metal                   |
| R6g              | r6g.medium  r6g.large  r6g.xlarge  r6g.2xlarge  r6g.4xlarge  r6g.8xlarge  r6g.12xlarge  r6g.16xlarge  r6g.metal  |
| R6gd             | r6gd.medium  r6gd.large  r6gd.xlarge  r6gd.2xlarge  <br>r6gd.4xlarge  r6gd.8xlarge  r6gd.12xlarge  r6gd.16xlarge  <br>r6gd.metal   |
| R6i              | r6i.large   r6i.xlarge   r6i.2xlarge   r6i.4xlarge   r6i.8xlar<br>ge   r6i.12xlarge   r6i.16xlarge   r6i.24xlarge   r6i.32xlarge  <br>r6i.metal                                  |
| R6idn            | r6idn.large   r6idn.xlarge   r6idn.2xlarge   r6idn.4xlarge   r6idn.8xlarge   r6idn.12xlarge   r6idn.16xlarge   r6idn.24x large   r6idn.32xlarge   r6idn.metal                    |
| R6in             | r6in.large   r6in.xlarge   r6in.2xlarge   r6in.4xlarge   r6in.8xlarge   r6in.12xlarge   r6in.16xlarge   r6in.24xlarge   r6in.32xlarge   r6in.metal                               |
| R6id             | r6id.large   r6id.xlarge   r6id.2xlarge   r6id.4xlarge   r6id.8xlarge   r6id.12xlarge   r6id.16xlarge   r6id.24xlarge   r6id.32xlarge   r6id.metal                               |
| R7a              | r7a.medium   r7a.large   r7a.xlarge   r7a.2xlarge   r7a.4xlar<br>ge   r7a.8xlarge   r7a.12xlarge   r7a.16xlarge   r7a.24xlarge  <br>r7a.32xlarge   r7a.48xlarge   r7a.metal-48xl |
| R7g              | r7g.medium  r7g.large  r7g.xlarge  r7g.2xlarge  r7g.4xlarge  r7g.8xlarge  r7g.12xlarge  r7g.16xlarge  r7g.metal  |

Available sizes 160

| Instance<br>type | Available sizes   |
|------------------|---|
| R7gd             | r7gd.medium  r7gd.large  r7gd.xlarge  r7gd.2xlarge  <br>r7gd.4xlarge  r7gd.8xlarge  r7gd.12xlarge  r7gd.16xlarge  <br>r7gd.metal                                      |
| R7i              | r7i.large   r7i.xlarge   r7i.2xlarge   r7i.4xlarge   r7i.8xlar<br>ge   r7i.12xlarge   r7i.16xlarge   r7i.24xlarge   r7i.48xlarge  <br>r7i.metal-24xl   r7i.metal-48xl |
| R7iz             | r7iz.large  r7iz.xlarge  r7iz.2xlarge  r7iz.4xlarge  <br>r7iz.8xlarge  r7iz.12xlarge  r7iz.16xlarge  r7iz.32xlarge  <br>r7iz.metal-16xl  r7iz.metal-32xl              |
| U-3tb1           | u-3tb1.56xlarge   |
| U-6tb1           | u-6tb1.56xlarge  u-6tb1.112xlarge  u-6tb1.metal   |
| U-9tb1           | u-9tb1.112xlarge  u-9tb1.metal  |
| U-12tb1          | u-12tb1.112xlarge  u-12tb1.metal  |
| U-18tb1          | u-18tb1.112xlarge  u-18tb1.metal  |
| U-24tb1          | u-24tb1.112xlarge  u-24tb1.metal  |
| X1               | x1.16xlarge  x1.32xlarge  |
| X2gd             | <pre>x2gd.medium  x2gd.large  x2gd.xlarge  x2gd.2xlarge   x2gd.4xlarge  x2gd.8xlarge  x2gd.12xlarge  x2gd.16xlarge   x2gd.metal</pre>                                 |
| X2idn            | x2idn.16xlarge   x2idn.24xlarge   x2idn.32xlarge   x2idn.metal  |
| X2iedn           | <pre>x2iedn.xlarge   x2iedn.2xlarge   x2iedn.4xlarge   x2iedn.8x large   x2iedn.16xlarge   x2iedn.24xlarge   x2iedn.32xlarge   x2iedn.metal</pre>                     |

Available sizes 161

| Instance<br>type | Available sizes   |
|------------------|---|
| X2iezn           | x2iezn.2xlarge   x2iezn.4xlarge   x2iezn.6xlarge   x2iezn.8x large   x2iezn.12xlarge   x2iezn.metal         |
| X1e              | <pre>x1e.xlarge   x1e.2xlarge   x1e.4xlarge   x1e.8xlarge   x1e.16xla rge   x1e.32xlarge</pre>              |
| z1d              | <pre>z1d.large   z1d.xlarge   z1d.2xlarge   z1d.3xlarge   z1d.6xlar<br/>ge   z1d.12xlarge   z1d.metal</pre> |

## **Platform summary**

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| R5               | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| R5a              | Nitro         | AMD<br>(x86_64)                         | x                               | X                            | ✓               | ✓                       | Windows<br>  Linux          |
| R5ad             | Nitro         | AMD<br>(x86_64)                         | x                               | X                            | ✓               | ✓                       | Windows<br>  Linux          |
| R5b              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R5d              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| R5dn             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |

Platform summary 162

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| R5n              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R6a              | Nitro         | AMD<br>(x86_64)                         | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R6g              | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| R6gd             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| R6i              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R6idn            | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R6in             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R6id             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| R7a              | Nitro         | AMD<br>(x86_64)                         | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| R7g              | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |

Platform summary 163

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| R7gd             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| R7i              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| R7iz             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| U-3tb1           | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | X               | X                       | Windows<br>  Linux          |
| U-6tb1           | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | X               | X                       | Windows<br>  Linux          |
| U-9tb1           | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | X               | X                       | Windows<br>  Linux          |
| U-12tb1          | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | X               | X                       | Windows<br>  Linux          |
| U-18tb1          | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | X               | X                       | Windows<br>  Linux          |
| U-24tb1          | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | X               | X                       | Windows<br>  Linux          |
| X1               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| X2gd             | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |

Platform summary 164

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| X2idn            | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| X2iedn           | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| X2iezn           | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| X1e              | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| z1d              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
|               |           |                 | R5                          |       |              |                        |                  |
| r5.large      | X         | 16.00           | Intel Xeon<br>Platinum 8175 | 2     | 1            | 2                      | X                |
| r5.xlarge     | X         | 32.00           | Intel Xeon<br>Platinum 8175 | 4     | 2            | 2                      | X                |
| r5.2xlarge    | X         | 64.00           | Intel Xeon<br>Platinum 8175 | 8     | 4            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------|------------------|
| r5.4xlarge    | X         | 128.00          | Intel Xeon<br>Platinum 8175 | 16    | 8            | 2                | X                |
| r5.8xlarge    | X         | 256.00          | Intel Xeon<br>Platinum 8175 | 32    | 16           | 2                | X                |
| r5.12xlarge   | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 48    | 24           | 2                | X                |
| r5.16xlarge   | X         | 512.00          | Intel Xeon<br>Platinum 8175 | 64    | 32           | 2                | X                |
| r5.24xlarge   | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                | X                |
| r5.metal      | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                | X                |
|               |           |                 | R5a                         |       |              |                  |                  |
| r5a.large     | X         | 16.00           | AMD EPYC<br>7571            | 2     | 1            | 2                | X                |
| r5a.xlarge    | X         | 32.00           | AMD EPYC<br>7571            | 4     | 2            | 2                | X                |
| r5a.2xlarge   | X         | 64.00           | AMD EPYC<br>7571            | 8     | 4            | 2                | X                |
| r5a.4xlarge   | X         | 128.00          | AMD EPYC<br>7571            | 16    | 8            | 2                | X                |
| r5a.8xlarge   | X         | 256.00          | AMD EPYC<br>7571            | 32    | 16           | 2                | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------|-------|--------------|------------------------|------------------|
| r5a.12xlarge  | X         | 384.00          | AMD EPYC<br>7571 | 48    | 24           | 2                      | X                |
| r5a.16xlarge  | X         | 512.00          | AMD EPYC<br>7571 | 64    | 32           | 2                      | X                |
| r5a.24xlarge  | X         | 768.00          | AMD EPYC<br>7571 | 96    | 48           | 2                      | X                |
|               |           |                 | R5ad             |       |              |                        |                  |
| r5ad.large    | X         | 16.00           | AMD EPYC<br>7571 | 2     | 1            | 2                      | X                |
| r5ad.xlarge   | X         | 32.00           | AMD EPYC<br>7571 | 4     | 2            | 2                      | X                |
| r5ad.2xlarge  | X         | 64.00           | AMD EPYC<br>7571 | 8     | 4            | 2                      | X                |
| r5ad.4xlarge  | X         | 128.00          | AMD EPYC<br>7571 | 16    | 8            | 2                      | X                |
| r5ad.8xlarge  | X         | 256.00          | AMD EPYC<br>7571 | 32    | 16           | 2                      | X                |
| r5ad.12xlarge | X         | 384.00          | AMD EPYC<br>7571 | 48    | 24           | 2                      | X                |
| r5ad.16xlarge | X         | 512.00          | AMD EPYC<br>7571 | 64    | 32           | 2                      | X                |
| r5ad.24xlarge | X         | 768.00          | AMD EPYC<br>7571 | 96    | 48           | 2                      | X                |
|               |           |                 | R5b              |       |              |                        |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| r5b.large     | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 2     | 1            | 2                      | X                |
| r5b.xlarge    | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| r5b.2xlarge   | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | X                |
| r5b.4xlarge   | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |
| r5b.8xlarge   | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | X                |
| r5b.12xlarge  | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 48    | 24           | 2                      | X                |
| r5b.16xlarge  | X         | 512.00          | Intel Xeon<br>Platinum 8259 | 64    | 32           | 2                      | X                |
| r5b.24xlarge  | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
| r5b.metal     | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
|               |           |                 | R5d                         |       |              |                        |                  |
| r5d.large     | X         | 16.00           | Intel Xeon<br>Platinum 8175 | 2     | 1            | 2                      | X                |
| r5d.xlarge    | X         | 32.00           | Intel Xeon<br>Platinum 8175 | 4     | 2            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| r5d.2xlarge   | X         | 64.00           | Intel Xeon<br>Platinum 8175 | 8     | 4            | 2                      | X                |
| r5d.4xlarge   | X         | 128.00          | Intel Xeon<br>Platinum 8175 | 16    | 8            | 2                      | X                |
| r5d.8xlarge   | X         | 256.00          | Intel Xeon<br>Platinum 8175 | 32    | 16           | 2                      | X                |
| r5d.12xlarge  | X         | 384.00          | Intel Xeon<br>Platinum 8175 | 48    | 24           | 2                      | X                |
| r5d.16xlarge  | X         | 512.00          | Intel Xeon<br>Platinum 8175 | 64    | 32           | 2                      | X                |
| r5d.24xlarge  | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
| r5d.metal     | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
|               |           |                 | R5dn                        |       |              |                        |                  |
| r5dn.large    | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 2     | 1            | 2                      | X                |
| r5dn.xlarge   | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| r5dn.2xlarge  | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | X                |
| r5dn.4xlarge  | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| r5dn.8xlarge  | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | X                |
| r5dn.12xlarge | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 48    | 24           | 2                      | X                |
| r5dn.16xlarge | X         | 512.00          | Intel Xeon<br>Platinum 8259 | 64    | 32           | 2                      | X                |
| r5dn.24xlarge | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
| r5dn.metal    | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
|               |           |                 | R5n                         |       |              |                        |                  |
| r5n.large     | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 2     | 1            | 2                      | X                |
| r5n.xlarge    | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| r5n.2xlarge   | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | X                |
| r5n.4xlarge   | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |
| r5n.8xlarge   | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | X                |
| r5n.12xlarge  | X         | 384.00          | Intel Xeon<br>Platinum 8259 | 48    | 24           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| r5n.16xlarge  | X         | 512.00          | Intel Xeon<br>Platinum 8259 | 64    | 32           | 2                      | X                |
| r5n.24xlarge  | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
| r5n.metal     | X         | 768.00          | Intel Xeon<br>Platinum 8259 | 96    | 48           | 2                      | X                |
|               |           |                 | R6a                         |       |              |                        |                  |
| r6a.large     | X         | 16.00           | AMD EPYC<br>7R13            | 2     | 1            | 2                      | X                |
| r6a.xlarge    | X         | 32.00           | AMD EPYC<br>7R13            | 4     | 2            | 2                      | X                |
| r6a.2xlarge   | X         | 64.00           | AMD EPYC<br>7R13            | 8     | 4            | 2                      | X                |
| r6a.4xlarge   | X         | 128.00          | AMD EPYC<br>7R13            | 16    | 8            | 2                      | X                |
| r6a.8xlarge   | X         | 256.00          | AMD EPYC<br>7R13            | 32    | 16           | 2                      | X                |
| r6a.12xlarge  | X         | 384.00          | AMD EPYC<br>7R13            | 48    | 24           | 2                      | X                |
| r6a.16xlarge  | X         | 512.00          | AMD EPYC<br>7R13            | 64    | 32           | 2                      | X                |
| r6a.24xlarge  | X         | 768.00          | AMD EPYC<br>7R13            | 96    | 48           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| r6a.32xlarge  | X         | 1024.00         | AMD EPYC<br>7R13           | 128   | 64           | 2                      | X                |
| r6a.48xlarge  | X         | 1536.00         | AMD EPYC<br>7R13           | 192   | 96           | 2                      | X                |
| r6a.metal     | X         | 1536.00         | AMD EPYC<br>7R13           | 192   | 96           | 2                      | X                |
|               |           |                 | R6g                        |       |              |                        |                  |
| r6g.medium    | X         | 8.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| r6g.large     | X         | 16.00           | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| r6g.xlarge    | X         | 32.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| r6g.2xlarge   | X         | 64.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| r6g.4xlarge   | X         | 128.00          | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| r6g.8xlarge   | X         | 256.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| r6g.12xlarge  | X         | 384.00          | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| r6g.16xlarge  | X         | 512.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |  |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------|------------------|--|
| r6g.metal     | X         | 512.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | X                |  |
| R6gd          |           |                 |                            |       |              |                  |                  |  |
| r6gd.medium   | X         | 8.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                | X                |  |
| r6gd.large    | X         | 16.00           | AWS Graviton2<br>Processor | 2     | 2            | 1                | X                |  |
| r6gd.xlarge   | X         | 32.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                | X                |  |
| r6gd.2xlarge  | X         | 64.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                | X                |  |
| r6gd.4xlarge  | X         | 128.00          | AWS Graviton2<br>Processor | 16    | 16           | 1                | X                |  |
| r6gd.8xlarge  | X         | 256.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                | X                |  |
| r6gd.12xlarge | X         | 384.00          | AWS Graviton2<br>Processor | 48    | 48           | 1                | X                |  |
| r6gd.16xlarge | X         | 512.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | X                |  |
| r6gd.metal    | X         | 512.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | X                |  |
| R6i           |           |                 |                            |       |              |                  |                  |  |
| r6i.large     | X         | 16.00           | Intel Xeon Ice<br>Lake     | 2     | 1            | 2                | X                |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |  |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|--|
| r6i.xlarge    | X         | 32.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |  |
| r6i.2xlarge   | X         | 64.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |  |
| r6i.4xlarge   | X         | 128.00          | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |  |
| r6i.8xlarge   | X         | 256.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |  |
| r6i.12xlarge  | X         | 384.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |  |
| r6i.16xlarge  | X         | 512.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |  |
| r6i.24xlarge  | X         | 768.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |  |
| r6i.32xlarge  | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |  |
| r6i.metal     | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |  |
| R6idn         |           |                 |                        |       |              |                        |                  |  |
| r6idn.large   | X         | 16.00           | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |  |
| r6idn.xlarge  | X         | 32.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |  |

| Instance type      | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |  |
|--------------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|--|
| r6idn.2xlarge      | X         | 64.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |  |
| r6idn.4xlarge      | X         | 128.00          | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |  |
| r6idn.8xlarge      | X         | 256.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |  |
| r6idn.12x<br>large | X         | 384.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |  |
| r6idn.16x<br>large | X         | 512.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |  |
| r6idn.24x<br>large | X         | 768.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |  |
| r6idn.32x<br>large | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |  |
| r6idn.metal        | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |  |
| R6in               |           |                 |                        |       |              |                        |                  |  |
| r6in.large         | X         | 16.00           | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |  |
| r6in.xlarge        | X         | 32.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |  |
| r6in.2xlarge       | X         | 64.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| r6in.4xlarge  | X         | 128.00          | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | X                |
| r6in.8xlarge  | X         | 256.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| r6in.12xlarge | X         | 384.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| r6in.16xlarge | X         | 512.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| r6in.24xlarge | X         | 768.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| r6in.32xlarge | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| r6in.metal    | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | R6id                   |       |              |                        |                  |
| r6id.large    | X         | 16.00           | Intel Xeon Ice<br>Lake | 2     | 1            | 2                      | X                |
| r6id.xlarge   | X         | 32.00           | Intel Xeon Ice<br>Lake | 4     | 2            | 2                      | X                |
| r6id.2xlarge  | X         | 64.00           | Intel Xeon Ice<br>Lake | 8     | 4            | 2                      | X                |
| r6id.4xlarge  | X         | 128.00          | Intel Xeon Ice<br>Lake | 16    | 8            | 2                      | x                |

| Instance type | Burstable | Memory<br>(GiB) | Processor              | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------|-------|--------------|------------------------|------------------|
| r6id.8xlarge  | X         | 256.00          | Intel Xeon Ice<br>Lake | 32    | 16           | 2                      | X                |
| r6id.12xlarge | X         | 384.00          | Intel Xeon Ice<br>Lake | 48    | 24           | 2                      | X                |
| r6id.16xlarge | X         | 512.00          | Intel Xeon Ice<br>Lake | 64    | 32           | 2                      | X                |
| r6id.24xlarge | X         | 768.00          | Intel Xeon Ice<br>Lake | 96    | 48           | 2                      | X                |
| r6id.32xlarge | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
| r6id.metal    | X         | 1024.00         | Intel Xeon Ice<br>Lake | 128   | 64           | 2                      | X                |
|               |           |                 | R7a                    |       |              |                        |                  |
| r7a.medium    | X         | 8.00            | AMD EPYC<br>9R14       | 1     | 1            | 1                      | X                |
| r7a.large     | X         | 16.00           | AMD EPYC<br>9R14       | 2     | 2            | 1                      | X                |
| r7a.xlarge    | X         | 32.00           | AMD EPYC<br>9R14       | 4     | 4            | 1                      | X                |
| r7a.2xlarge   | X         | 64.00           | AMD EPYC<br>9R14       | 8     | 8            | 1                      | X                |
| r7a.4xlarge   | X         | 128.00          | AMD EPYC<br>9R14       | 16    | 16           | 1                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| r7a.8xlarge        | X         | 256.00          | AMD EPYC<br>9R14           | 32    | 32           | 1                      | X                |
| r7a.12xlarge       | X         | 384.00          | AMD EPYC<br>9R14           | 48    | 48           | 1                      | X                |
| r7a.16xlarge       | X         | 512.00          | AMD EPYC<br>9R14           | 64    | 64           | 1                      | X                |
| r7a.24xlarge       | X         | 768.00          | AMD EPYC<br>9R14           | 96    | 96           | 1                      | X                |
| r7a.32xlarge       | X         | 1024.00         | AMD EPYC<br>9R14           | 128   | 128          | 1                      | X                |
| r7a.48xlarge       | X         | 1536.00         | AMD EPYC<br>9R14           | 192   | 192          | 1                      | X                |
| r7a.metal<br>-48xl | X         | 1536.00         | AMD EPYC<br>9R14           | 192   | 192          | 1                      | X                |
|                    |           |                 | R7g                        |       |              |                        |                  |
| r7g.medium         | X         | 8.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                      | X                |
| r7g.large          | X         | 16.00           | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| r7g.xlarge         | X         | 32.00           | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |
| r7g.2xlarge        | X         | 64.00           | AWS Graviton3<br>Processor | 8     | 8            | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| r7g.4xlarge   | X         | 128.00          | AWS Graviton3<br>Processor | 16    | 16           | 1                      | X                |
| r7g.8xlarge   | X         | 256.00          | AWS Graviton3<br>Processor | 32    | 32           | 1                      | X                |
| r7g.12xlarge  | X         | 384.00          | AWS Graviton3<br>Processor | 48    | 48           | 1                      | X                |
| r7g.16xlarge  | X         | 512.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
| r7g.metal     | X         | 512.00          | AWS Graviton3<br>Processor | 64    | 64           | 1                      | X                |
|               |           |                 | R7gd                       |       |              |                        |                  |
| r7gd.medium   | X         | 8.00            | AWS Graviton3<br>Processor | 1     | 1            | 1                      | X                |
| r7gd.large    | X         | 16.00           | AWS Graviton3<br>Processor | 2     | 2            | 1                      | X                |
| r7gd.xlarge   | X         | 32.00           | AWS Graviton3<br>Processor | 4     | 4            | 1                      | X                |
| r7gd.2xlarge  | X         | 64.00           | AWS Graviton3<br>Processor | 8     | 8            | 1                      | X                |
| r7gd.4xlarge  | X         | 128.00          | AWS Graviton3<br>Processor | 16    | 16           | 1                      | X                |
| r7gd.8xlarge  | X         | 256.00          | AWS Graviton3<br>Processor | 32    | 32           | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------------|-------|--------------|------------------------|------------------|
| r7gd.12xlarge | X         | 384.00          | AWS Graviton3<br>Processor       | 48    | 48           | 1                      | X                |
| r7gd.16xlarge | X         | 512.00          | AWS Graviton3<br>Processor       | 64    | 64           | 1                      | X                |
| r7gd.metal    | X         | 512.00          | AWS Graviton3<br>Processor       | 64    | 64           | 1                      | X                |
|               |           |                 | R7i                              |       |              |                        |                  |
| r7i.large     | X         | 16.00           | Intel Xeon<br>Sapphire<br>Rapids | 2     | 1            | 2                      | X                |
| r7i.xlarge    | x         | 32.00           | Intel Xeon<br>Sapphire<br>Rapids | 4     | 2            | 2                      | X                |
| r7i.2xlarge   | X         | 64.00           | Intel Xeon<br>Sapphire<br>Rapids | 8     | 4            | 2                      | X                |
| r7i.4xlarge   | x         | 128.00          | Intel Xeon<br>Sapphire<br>Rapids | 16    | 8            | 2                      | X                |
| r7i.8xlarge   | X         | 256.00          | Intel Xeon<br>Sapphire<br>Rapids | 32    | 16           | 2                      | X                |
| r7i.12xlarge  | X         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 48    | 24           | 2                      | X                |

| Instance type  | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|----------------|-----------|-----------------|----------------------------------|-------|--------------|------------------------|------------------|
| r7i.16xlarge   | X         | 512.00          | Intel Xeon<br>Sapphire<br>Rapids | 64    | 32           | 2                      | X                |
| r7i.24xlarge   | x         | 768.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                      | X                |
| r7i.48xlarge   | X         | 1536.00         | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                      | X                |
| r7i.metal-24xl | X         | 768.00          | Intel Xeon<br>Sapphire<br>Rapids | 96    | 48           | 2                      | X                |
| r7i.metal-48xl | X         | 1536.00         | Intel Xeon<br>Sapphire<br>Rapids | 192   | 96           | 2                      | X                |
|                |           |                 | R7iz                             |       |              |                        |                  |
| r7iz.large     | X         | 16.00           | Intel Xeon<br>Sapphire<br>Rapids | 2     | 1            | 2                      | X                |
| r7iz.xlarge    | x         | 32.00           | Intel Xeon<br>Sapphire<br>Rapids | 4     | 2            | 2                      | X                |
| r7iz.2xlarge   | X         | 64.00           | Intel Xeon<br>Sapphire<br>Rapids | 8     | 4            | 2                      | X                |

| Instance type       | Burstable | Memory<br>(GiB) | Processor                        | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------------|-----------|-----------------|----------------------------------|-------|--------------|------------------------|------------------|
| r7iz.4xlarge        | X         | 128.00          | Intel Xeon<br>Sapphire<br>Rapids | 16    | 8            | 2                      | X                |
| r7iz.8xlarge        | X         | 256.00          | Intel Xeon<br>Sapphire<br>Rapids | 32    | 16           | 2                      | X                |
| r7iz.12xlarge       | x         | 384.00          | Intel Xeon<br>Sapphire<br>Rapids | 48    | 24           | 2                      | X                |
| r7iz.16xlarge       | X         | 512.00          | Intel Xeon<br>Sapphire<br>Rapids | 64    | 32           | 2                      | X                |
| r7iz.32xlarge       | x         | 1024.00         | Intel Xeon<br>Sapphire<br>Rapids | 128   | 64           | 2                      | X                |
| r7iz.meta<br>l-16xl | X         | 512.00          | Intel Xeon<br>Sapphire<br>Rapids | 64    | 32           | 2                      | X                |
| r7iz.meta<br>l-32xl | x         | 1024.00         | Intel Xeon<br>Sapphire<br>Rapids | 128   | 64           | 2                      | X                |
|                     |           |                 | U-3tb1                           |       |              |                        |                  |
| u-3tb1.56<br>xlarge | x         | 3072.00         | Intel Xeon<br>Platinum<br>8176M  | 224   | 112          | 2                      | X                |
|                     |           |                 | U-6tb1                           |       |              |                        |                  |

| Instance type         | Burstable | Memory<br>(GiB) | Processor                       | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-----------------------|-----------|-----------------|---------------------------------|-------|--------------|------------------------|------------------|
| u-6tb1.56<br>xlarge   | X         | 6144.00         | Intel Xeon<br>Platinum<br>8176M | 224   | 224          | 1                      | X                |
| u-6tb1.11<br>2xlarge  | X         | 6144.00         | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
| u-6tb1.metal          | X         | 6144.00         | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
|                       |           |                 | U-9tb1                          |       |              |                        |                  |
| u-9tb1.11<br>2xlarge  | X         | 9216.00         | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
| u-9tb1.metal          | X         | 9216.00         | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
|                       |           |                 | U-12tb1                         |       |              |                        |                  |
| u-12tb1.1<br>12xlarge | X         | 12288.00        | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
| u-12tb1.metal         | X         | 12288.00        | Intel Xeon<br>Platinum<br>8176M | 448   | 224          | 2                      | X                |
|                       |           |                 | U-18tb1                         |       |              |                        |                  |

| Instance type         | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|-----------------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| u-18tb1.1<br>12xlarge | X         | 18432.00        | Intel Xeon<br>Platinum 8280L | 448   | 224          | 2                      | X                |
| u-18tb1.metal         | X         | 18432.00        | Intel Xeon<br>Platinum 8280L | 448   | 224          | 2                      | X                |
|                       |           |                 | U-24tb1                      |       |              |                        |                  |
| u-24tb1.1<br>12xlarge | X         | 24576.00        | Intel Xeon<br>Platinum 8280L | 448   | 224          | 2                      | X                |
| u-24tb1.metal         | X         | 24576.00        | Intel Xeon<br>Platinum 8280L | 448   | 224          | 2                      | X                |
|                       |           |                 | Х1                           |       |              |                        |                  |
| x1.16xlarge           | X         | 976.00          | Intel Xeon E7<br>8880 v3     | 64    | 32           | 2                      | X                |
| x1.32xlarge           | X         | 1952.00         | Intel Xeon E7<br>8880 v3     | 128   | 64           | 2                      | X                |
|                       |           |                 | X2gd                         |       |              |                        |                  |
| x2gd.medium           | X         | 16.00           | AWS Graviton2<br>Processor   | 1     | 1            | 1                      | X                |
| x2gd.large            | X         | 32.00           | AWS Graviton2<br>Processor   | 2     | 2            | 1                      | X                |
| x2gd.xlarge           | X         | 64.00           | AWS Graviton2<br>Processor   | 4     | 4            | 1                      | X                |
| x2gd.2xlarge          | X         | 128.00          | AWS Graviton2<br>Processor   | 8     | 8            | 1                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| x2gd.4xlarge       | X         | 256.00          | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| x2gd.8xlarge       | X         | 512.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| x2gd.12xlarge      | X         | 768.00          | AWS Graviton2<br>Processor | 48    | 48           | 1                      | X                |
| x2gd.16xlarge      | X         | 1024.00         | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
| x2gd.metal         | X         | 1024.00         | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|                    |           |                 | X2idn                      |       |              |                        |                  |
| x2idn.16x<br>large | X         | 1024.00         | Intel Xeon Ice<br>Lake     | 64    | 32           | 2                      | X                |
| x2idn.24x<br>large | X         | 1536.00         | Intel Xeon Ice<br>Lake     | 96    | 48           | 2                      | X                |
| x2idn.32x<br>large | X         | 2048.00         | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                      | X                |
| x2idn.metal        | X         | 2048.00         | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                      | X                |
|                    |           |                 | X2iedn                     |       |              |                        |                  |
| x2iedn.xlarge      | X         | 128.00          | Intel Xeon Ice<br>Lake     | 4     | 2            | 2                      | X                |
| x2iedn.2x<br>large | X         | 256.00          | Intel Xeon Ice<br>Lake     | 8     | 4            | 2                      | X                |

| Instance type       | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| x2iedn.4x<br>large  | X         | 512.00          | Intel Xeon Ice<br>Lake      | 16    | 8            | 2                      | X                |
| x2iedn.8x<br>large  | X         | 1024.00         | Intel Xeon Ice<br>Lake      | 32    | 16           | 2                      | X                |
| x2iedn.16<br>xlarge | X         | 2048.00         | Intel Xeon Ice<br>Lake      | 64    | 32           | 2                      | X                |
| x2iedn.24<br>xlarge | X         | 3072.00         | Intel Xeon Ice<br>Lake      | 96    | 48           | 2                      | X                |
| x2iedn.32<br>xlarge | X         | 4096.00         | Intel Xeon Ice<br>Lake      | 128   | 64           | 2                      | X                |
| x2iedn.metal        | X         | 4096.00         | Intel Xeon Ice<br>Lake      | 128   | 64           | 2                      | X                |
|                     |           |                 | X2iezn                      |       |              |                        |                  |
| x2iezn.2xlarge      | X         | 256.00          | Intel Xeon<br>Platinum 8252 | 8     | 4            | 2                      | X                |
| x2iezn.4xlarge      | X         | 512.00          | Intel Xeon<br>Platinum 8252 | 16    | 8            | 2                      | X                |
| x2iezn.6xlarge      | X         | 768.00          | Intel Xeon<br>Platinum 8252 | 24    | 12           | 2                      | X                |
| x2iezn.8xlarge      | X         | 1024.00         | Intel Xeon<br>Platinum 8252 | 32    | 16           | 2                      | X                |
| x2iezn.12<br>xlarge | X         | 1536.00         | Intel Xeon<br>Platinum 8252 | 48    | 24           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| x2iezn.metal  | X         | 1536.00         | Intel Xeon<br>Platinum 8252 | 48    | 24           | 2                      | X                |
|               |           |                 | X1e                         |       |              |                        |                  |
| x1e.xlarge    | X         | 122.00          | Intel Haswell E7<br>8880v3  | 4     | 2            | 2                      | X                |
| x1e.2xlarge   | X         | 244.00          | Intel Haswell E7<br>8880v3  | 8     | 4            | 2                      | X                |
| x1e.4xlarge   | X         | 488.00          | Intel Haswell E7<br>8880v3  | 16    | 8            | 2                      | X                |
| x1e.8xlarge   | X         | 976.00          | Intel Haswell E7<br>8880v3  | 32    | 16           | 2                      | X                |
| x1e.16xlarge  | X         | 1952.00         | Intel Haswell E7<br>8880v3  | 64    | 32           | 2                      | X                |
| x1e.32xlarge  | X         | 3904.00         | Intel Haswell E7<br>8880v3  | 128   | 64           | 2                      | X                |
|               |           |                 | z1d                         |       |              |                        |                  |
| z1d.large     | X         | 16.00           | Intel Xeon<br>Platinum 8151 | 2     | 1            | 2                      | X                |
| z1d.xlarge    | X         | 32.00           | Intel Xeon<br>Platinum 8151 | 4     | 2            | 2                      | X                |
| z1d.2xlarge   | X         | 64.00           | Intel Xeon<br>Platinum 8151 | 8     | 4            | 2                      | X                |
| z1d.3xlarge   | X         | 96.00           | Intel Xeon<br>Platinum 8151 | 12    | 6            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| z1d.6xlarge   | X         | 192.00          | Intel Xeon<br>Platinum 8151 | 24    | 12           | 2                      | X                |
| z1d.12xlarge  | X         | 384.00          | Intel Xeon<br>Platinum 8151 | 48    | 24           | 2                      | X                |
| z1d.metal     | X         | 384.00          | Intel Xeon<br>Platinum 8151 | 48    | 24           | 2                      | X                |

## **Network specifications**

| Instance type           | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                         |                                   |     | I   | R5             |                  |                                   |                                     |      |
| r5.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5.2xlarge <sup>1</sup> | 2.5 / 10.0                        | x   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5.8xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5.24xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                           |                                   |     | R   | 15a            |                  |                                   |                                     |      |
| r5a.large <sup>1</sup>    | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5a.xlarge <sup>1</sup>   | 1.25 / 10.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r5a.2xlarge <sup>1</sup>  | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5a.4xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5a.8xlarge <sup>1</sup>  | 7.5 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5a.12xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5a.16xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5a.24xlarge              | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 5ad            |                  |                                   |                                     |      |
| r5ad.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5ad.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5ad.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5ad.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5ad.8xlarge <sup>1</sup> | 7.5 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5ad.12xlarge             | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5ad.16xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5ad.24xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 25 <b>b</b>    |                  |                                   |                                     |      |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r5b.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5b.xlarge <sup>1</sup>  | 1.25 / 10.0                       | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r5b.2xlarge <sup>1</sup> | 2.5 / 10.0                        | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r5b.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5b.8xlarge              | 10 Gigabit                        | x   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5b.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5b.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5b.24xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5b.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | R   | 25d            |                  |                                   |                                     |      |
| r5d.large <sup>1</sup>   | 0.75 / 10.0                       | x   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5d.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5d.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5d.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5d.8xlarge              | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5d.12xlarge             | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5d.16xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5d.24xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5d.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                           |                                   |     | R!  | 5dn            |                  |                                   |                                     |      |
| r5dn.large <sup>1</sup>   | 2.1 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5dn.xlarge <sup>1</sup>  | 4.1 / 25.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5dn.2xlarge <sup>1</sup> | 8.125 / 25.0                      | x   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5dn.4xlarge <sup>1</sup> | 16.25 / 25.0                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r5dn.8xlarge              | 25 Gigabit                        | x   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5dn.12xlarge             | 50 Gigabit                        | x   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r5dn.16xlarge             | 75 Gigabit                        | x   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r5dn.24xlarge             | 100 Gigabit                       | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r5dn.metal                | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 15n            |                  |                                   |                                     |      |
| r5n.large <sup>1</sup>    | 2.1 / 25.0                        | x   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r5n.xlarge <sup>1</sup>   | 4.1 / 25.0                        | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r5n.2xlarge <sup>1</sup>  | 8.125 / 25.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r5n.4xlarge <sup>1</sup>  | 16.25 / 25.0                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r5n.8xlarge               | 25 Gigabit                        | x   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r5n.12xlarge              | 50 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r5n.16xlarge              | 75 Gigabit                        | x   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r5n.24xlarge              | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r5n.metal                | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | R   | R6a            |                  |                                   |                                     |      |
| r6a.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r6a.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6a.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6a.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6a.8xlarge              | 12.5 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6a.12xlarge             | 18.75 Gigabit                     | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6a.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6a.24xlarge             | 37.5 Gigabit                      | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6a.32xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6a.48xlarge             | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6a.metal                | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | R   | 16g            |                  |                                   |                                     |      |
| r6g.medium <sup>1</sup>  | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| r6g.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r6g.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6g.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6g.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r6g.8xlarge               | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6g.12xlarge              | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6g.16xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6g.metal                 | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 6gd            |                  |                                   |                                     |      |
| r6gd.medium<br>1          | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| r6gd.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r6gd.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6gd.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r6gd.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6gd.8xlarge              | 12 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6gd.12xlarge             | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6gd.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6gd.metal                | 25 Gigabit                        | x   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | F   | R6i            |                  |                                   |                                     |      |
| r6i.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r6i.xlarge <sup>1</sup>   | 1.562 / 12.5                      | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r6i.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r6i.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6i.8xlarge               | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r6i.12xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r6i.16xlarge              | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6i.24xlarge              | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6i.32xlarge              | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6i.metal                 | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | Re  | Sidn           |                  |                                   |                                     |      |
| r6idn.large <sup>1</sup>  | 3.125 / 25.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r6idn.xlarge <sup>1</sup> | 6.25 / 30.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r6idn.2xlarge<br>1        | 12.5 / 40.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6idn.4xlarge<br>1        | 25.0 / 50.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6idn.8xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6idn.12xlarge            | 75 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6idn.16xlarge            | 100 Gigabit                       | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r6idn.24xlarge            | 150 Gigabit                       | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r6idn.32xlarge            | 200 Gigabit                       | ✓   | ✓   | x              | 2                | 16                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r6idn.metal               | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 16                                | 50                                  | ✓    |
|                           |                                   |     | R   | 6in            |                  |                                   |                                     |      |
| r6in.large <sup>1</sup>   | 3.125 / 25.0                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| r6in.xlarge <sup>1</sup>  | 6.25 / 30.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r6in.2xlarge <sup>1</sup> | 12.5 / 40.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r6in.4xlarge <sup>1</sup> | 25.0 / 50.0                       | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6in.8xlarge              | 50 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6in.12xlarge             | 75 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r6in.16xlarge             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r6in.24xlarge             | 150 Gigabit                       | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r6in.32xlarge             | 200 Gigabit                       | ✓   | ✓   | x              | 2                | 16                                | 50                                  | ✓    |
| r6in.metal                | 200 Gigabit                       | ✓   | ✓   | x              | 2                | 16                                | 50                                  | ✓    |
|                           |                                   |     | R   | 6id            |                  |                                   |                                     |      |
| r6id.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| r6id.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6id.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r6id.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r6id.8xlarge              | 12.5 Gigabit                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r6id.12xlarge             | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r6id.16xlarge            | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6id.24xlarge            | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6id.32xlarge            | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r6id.metal               | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | R   | .7a            |                  |                                   |                                     |      |
| r7a.medium <sup>1</sup>  | 0.39 / 12.5                       | X   | ✓   | x              | 1                | 2                                 | 4                                   | ✓    |
| r7a.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| r7a.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7a.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7a.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7a.8xlarge              | 12.5 Gigabit                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r7a.12xlarge             | 18.75 Gigabit                     | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7a.16xlarge             | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r7a.24xlarge             | 37.5 Gigabit                      | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r7a.32xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| r7a.48xlarge             | 50 Gigabit                        | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| r7a.metal<br>-48xl       | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | R   | .7g            |                  |                                   |                                     |      |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r7g.medium <sup>1</sup>   | 0.52 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| r7g.large <sup>1</sup>    | 0.937 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r7g.xlarge <sup>1</sup>   | 1.876 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7g.2xlarge <sup>1</sup>  | 3.75 / 15.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7g.4xlarge <sup>1</sup>  | 7.5 / 15.0                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| r7g.8xlarge               | 15 Gigabit                        | x   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7g.12xlarge              | 22.5 Gigabit                      | x   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r7g.16xlarge              | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r7g.metal                 | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 7gd            |                  |                                   |                                     |      |
| r7gd.medium<br>1          | 0.52 / 12.5                       | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| r7gd.large <sup>1</sup>   | 0.937 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r7gd.xlarge <sup>1</sup>  | 1.876 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r7gd.2xlarge <sup>1</sup> | 3.75 / 15.0                       | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7gd.4xlarge <sup>1</sup> | 7.5 / 15.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7gd.8xlarge              | 15 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7gd.12xlarge             | 22.5 Gigabit                      | x   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r7gd.16xlarge             | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r7gd.metal                | 30 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | F   | R7i            |                  |                                   |                                     |      |
| r7i.large <sup>1</sup>    | 0.781 / 12.5                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| r7i.xlarge <sup>1</sup>   | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r7i.2xlarge <sup>1</sup>  | 3.125 / 12.5                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| r7i.4xlarge <sup>1</sup>  | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7i.8xlarge               | 12.5 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7i.12xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| r7i.16xlarge              | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r7i.24xlarge              | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r7i.48xlarge              | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r7i.metal-24xl            | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| r7i.metal-48xl            | 50 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | R   | 7iz            |                  |                                   |                                     |      |
| r7iz.large <sup>1</sup>   | 0.781 / 12.5                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| r7iz.xlarge <sup>1</sup>  | 1.562 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r7iz.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| r7iz.4xlarge <sup>1</sup> | 6.25 / 12.5                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| r7iz.8xlarge              | 12.5 Gigabit                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |

| Instance type        | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |  |
|----------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|--|
| r7iz.12xlarge        | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| r7iz.16xlarge        | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| r7iz.32xlarge        | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| r7iz.meta<br>l-16xl  | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| r7iz.meta<br>l-32xl  | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| U-3tb1               |                                   |     |     |                |                  |                                   |                                     |      |  |
| u-3tb1.56<br>xlarge  | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
|                      |                                   |     | U-  | 6tb1           |                  |                                   |                                     |      |  |
| u-6tb1.56<br>xlarge  | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-6tb1.11<br>2xlarge | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-6tb1.metal         | 100                               | X   | ✓   | X              | 1                | 5                                 | 30                                  | ✓    |  |
|                      | U-9tb1                            |     |     |                |                  |                                   |                                     |      |  |
| u-9tb1.11<br>2xlarge | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-9tb1.metal         | 100                               | X   | ✓   | X              | 1                | 5                                 | 30                                  | ✓    |  |
|                      |                                   |     | U-1 | 2tb1           |                  |                                   |                                     |      |  |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |  |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|--|
| u-12tb1.1<br>12xlarge     | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-12tb1.metal             | 100                               | X   | ✓   | X              | 1                | 5                                 | 30                                  | ✓    |  |
|                           |                                   |     | U-1 | 8tb1           |                  |                                   |                                     |      |  |
| u-18tb1.1<br>12xlarge     | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-18tb1.metal             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| U-24tb1                   |                                   |     |     |                |                  |                                   |                                     |      |  |
| u-24tb1.1<br>12xlarge     | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| u-24tb1.metal             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
|                           |                                   |     | 2   | <b>K1</b>      |                  |                                   |                                     |      |  |
| x1.16xlarge               | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| x1.32xlarge               | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
|                           |                                   |     | X   | 2gd            |                  |                                   |                                     |      |  |
| x2gd.medium<br>1          | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |  |
| x2gd.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |  |
| x2gd.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| x2gd.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |

| Instance type                   | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |  |
|---------------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|--|
| x2gd.4xlarge <sup>1</sup>       | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| x2gd.8xlarge                    | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| x2gd.12xlarge                   | 20 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |
| x2gd.16xlarge                   | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| x2gd.metal                      | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |  |
| X2idn                           |                                   |     |     |                |                  |                                   |                                     |      |  |
| x2idn.16x<br>large              | 50 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| x2idn.24x<br>large              | 75 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| x2idn.32x<br>large              | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
| x2idn.metal                     | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |  |
|                                 |                                   |     | X2  | iedn           |                  |                                   |                                     |      |  |
| x2iedn.xlarge<br>1              | 1.875 / 25.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |  |
| x2iedn.2x<br>large <sup>1</sup> | 5.0 / 25.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |  |
| x2iedn.4x<br>large <sup>1</sup> | 12.5 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |  |

| Instance type           | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| x2iedn.8x<br>large      | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| x2iedn.16<br>xlarge     | 50 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| x2iedn.24<br>xlarge     | 75 Gigabit                        | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| x2iedn.32<br>xlarge     | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| x2iedn.metal            | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                         |                                   |     | X2  | iezn           |                  |                                   |                                     |      |
| x2iezn.2xlarge<br>1     | 12.5 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| x2iezn.4xlarge          | 15.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| x2iezn.6xlarge          | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| x2iezn.8xlarge          | 75 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| x2iezn.12<br>xlarge     | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| x2iezn.metal            | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                         |                                   |     | Х   | (1e            |                  |                                   |                                     |      |
| x1e.xlarge <sup>1</sup> | 0.625 / 10.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| x1e.2xlarge <sup>1</sup> | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| x1e.4xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| x1e.8xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| x1e.16xlarge             | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| x1e.32xlarge             | 25 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
|                          |                                   |     | z   | 1d             |                  |                                   |                                     |      |
| z1d.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| z1d.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| z1d.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| z1d.3xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| z1d.6xlarge              | 12 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| z1d.12xlarge             | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| z1d.metal                | 25 Gigabit                        | x   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |

## Note

<sup>&</sup>lt;sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

For 32xlarge and metal instance types that support 200 Gbps, at least 2 ENIs, each attached to a different network card, are required on the instance to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve a max of 170 Gbps. u-6tb1.metal, u-9tb1.metal, and u-12tb1.metal instances launched after March 12, 2020 provide network performance of 100 Gbps. u-6tb1.metal, u-9tb1.metal, and u-12tb1.metal instances launched before March 12, 2020 mightonly provide network performance of 25 Gbps. To ensure that instances launched before March 12, 2020 have a network performance of 100 Gbps, contact your account team to upgrade your instance at no additional cost.

## **Amazon EBS specifications**

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|-------------------------|-------------------------------------|---|---|------|--------------------|--|--|--|
| R5                      |                                     |   |   |      |                    |  |  |  |
| r5.large <sup>1</sup>   | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| r5.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |  |
| r5.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |  |  |  |
| r5.4xlarge              | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |  |  |  |
| r5.8xlarge              | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |  |  |  |
| r5.12xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |
| r5.16xlarge             | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |  |  |  |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|--------------------------|--|---|---|------|--------------------|--|--|--|
| r5.24xlarge              | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| r5.metal                 | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| R5a                      |  |   |   |      |                    |  |  |  |
| r5a.large <sup>1</sup>   | 650.00 /<br>2880.00                          | 81.25 /<br>360.00                                 | 3600.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| r5a.xlarge <sup>1</sup>  | 1085.00 /<br>2880.00                         | 135.62 /<br>360.00                                | 6000.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| r5a.2xlarge <sup>1</sup> | 1580.00 /<br>2880.00                         | 197.50 /<br>360.00                                | 8333.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| r5a.4xlarge              | 2880.00                                      | 360.00  | 16000.00                                      | ✓    | default            |  |  |  |
| r5a.8xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |  |  |  |
| r5a.12xlarge             | 6780.00                                      | 847.50  | 30000.00                                      | ✓    | default            |  |  |  |
| r5a.16xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |  |  |  |
| r5a.24xlarge             | 13570.00                                     | 1696.25   | 60000.00                                      | ✓    | default            |  |  |  |
|                          |  | R5  | ad  |      |                    |  |  |  |
| r5ad.large <sup>1</sup>  | 650.00 /<br>2880.00                          | 81.25 /<br>360.00                                 | 3600.00 /<br>16000.00                         | ✓    | default            |  |  |  |
| r5ad.xlarge <sup>1</sup> | 1085.00 /<br>2880.00                         | 135.62 /<br>360.00                                | 6000.00 /<br>16000.00                         | ✓    | default            |  |  |  |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| r5ad.2xlarge<br>1        | 1580.00 /<br>2880.00                | 197.50 /<br>360.00                                | 8333.00 /<br>16000.00                         | ✓    | default            |
| r5ad.4xlarge             | 2880.00                             | 360.00  | 16000.00                                      | ✓    | default            |
| r5ad.8xlarge             | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| r5ad.12xl<br>arge        | 6780.00                             | 847.50  | 30000.00                                      | ✓    | default            |
| r5ad.16xl<br>arge        | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| r5ad.24xl<br>arge        | 13570.00                            | 1696.25   | 60000.00                                      | ✓    | default            |
|                          |                                     | R   | 5b  |      |                    |
| r5b.large <sup>1</sup>   | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 5417.00 /<br>43333.00                         | ✓    | default            |
| r5b.xlarge <sup>1</sup>  | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 10833.00 /<br>43333.00                        | ✓    | default            |
| r5b.2xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 21667.00 /<br>43333.00                        | ✓    | default            |
| r5b.4xlarge              | 10000.00                            | 1250.00   | 43333.00                                      | ✓    | default            |
| r5b.8xlarge              | 20000.00                            | 2500.00   | 86667.00                                      | ✓    | default            |
| r5b.12xlarge             | 30000.00                            | 3750.00   | 130000.00                                     | ✓    | default            |
| r5b.16xlarge             | 40000.00                            | 5000.00   | 173333.00                                     | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |
|--------------------------|--|---|---|------|--------------------|--|--|
| r5b.24xlarge             | 60000.00                                     | 7500.00   | 260000.00                                     | ✓    | default            |  |  |
| r5b.metal                | 60000.00                                     | 7500.00   | 260000.00                                     | ✓    | default            |  |  |
| R5d                      |  |   |   |      |                    |  |  |
| r5d.large <sup>1</sup>   | 650.00 /<br>4750.00                          | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |
| r5d.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                         | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |
| r5d.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                         | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |  |  |
| r5d.4xlarge              | 4750.00                                      | 593.75  | 18750.00                                      | ✓    | default            |  |  |
| r5d.8xlarge              | 6800.00                                      | 850.00  | 30000.00                                      | ✓    | default            |  |  |
| r5d.12xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |  |  |
| r5d.16xlarge             | 13600.00                                     | 1700.00   | 60000.00                                      | ✓    | default            |  |  |
| r5d.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |
| r5d.metal                | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |  |  |
|                          |  | R5  | dn  |      |                    |  |  |
| r5dn.large <sup>1</sup>  | 650.00 /<br>4750.00                          | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |  |  |
| r5dn.xlarge <sup>1</sup> | 1150.00 /<br>4750.00                         | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |  |  |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| r5dn.2xlarge             | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |
| r5dn.4xlarge             | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |
| r5dn.8xlarge             | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |
| r5dn.12xl<br>arge        | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| r5dn.16xl<br>arge        | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |
| r5dn.24xl<br>arge        | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| r5dn.metal               | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |                                     | R   | 5n  |      |                    |
| r5n.large <sup>1</sup>   | 650.00 /<br>4750.00                 | 81.25 /<br>593.75                                 | 3600.00 /<br>18750.00                         | ✓    | default            |
| r5n.xlarge <sup>1</sup>  | 1150.00 /<br>4750.00                | 143.75 /<br>593.75                                | 6000.00 /<br>18750.00                         | ✓    | default            |
| r5n.2xlarge <sup>1</sup> | 2300.00 /<br>4750.00                | 287.50 /<br>593.75                                | 12000.00 /<br>18750.00                        | ✓    | default            |
| r5n.4xlarge              | 4750.00                             | 593.75  | 18750.00                                      | ✓    | default            |
| r5n.8xlarge              | 6800.00                             | 850.00  | 30000.00                                      | ✓    | default            |
| r5n.12xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |
|--------------------------|-------------------------------------|---|---|------|--------------------|--|--|--|
| r5n.16xlarge             | 13600.00                            | 1700.00   | 60000.00                                      | ✓    | default            |  |  |  |
| r5n.24xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| r5n.metal                | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |  |  |  |
| R6a                      |                                     |   |   |      |                    |  |  |  |
| r6a.large <sup>1</sup>   | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |  |  |  |
| r6a.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |  |  |  |
| r6a.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |  |  |  |
| r6a.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |  |  |  |
| r6a.8xlarge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |  |  |  |
| r6a.12xlarge             | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |  |  |  |
| r6a.16xlarge             | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |  |  |  |
| r6a.24xlarge             | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |  |  |  |
| r6a.32xlarge             | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |  |  |  |
| r6a.48xlarge             | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |  |  |  |
| r6a.metal                | 40000.00                            | 5000.00   | 240000.00                                     | ✓    | default            |  |  |  |
|                          |                                     | Re  | 5g  |      |                    |  |  |  |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| r6g.medium<br>1          | 315.00 /<br>4750.00                 | 39.38 /<br>593.75                                 | 2500.00 /<br>20000.00                         | ✓    | default            |
| r6g.large <sup>1</sup>   | 630.00 /<br>4750.00                 | 78.75 /<br>593.75                                 | 3600.00 /<br>20000.00                         | ✓    | default            |
| r6g.xlarge <sup>1</sup>  | 1188.00 /<br>4750.00                | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓    | default            |
| r6g.2xlarge <sup>1</sup> | 2375.00 /<br>4750.00                | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓    | default            |
| r6g.4xlarge              | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| r6g.8xlarge              | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| r6g.12xlarge             | 14250.00                            | 1781.25   | 50000.00                                      | ✓    | default            |
| r6g.16xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| r6g.metal                | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |                                     | R6  | gd  |      |                    |
| r6gd.medium<br>1         | 315.00 /<br>4750.00                 | 39.38 /<br>593.75                                 | 2500.00 /<br>20000.00                         | ✓    | default            |
| r6gd.large <sup>1</sup>  | 630.00 /<br>4750.00                 | 78.75 /<br>593.75                                 | 3600.00 /<br>20000.00                         | ✓    | default            |
| r6gd.xlarge <sup>1</sup> | 1188.00 /<br>4750.00                | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
| r6gd.2xlarge<br>1        | 2375.00 /<br>4750.00                | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓    | default            |
| r6gd.4xlarge             | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| r6gd.8xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| r6gd.12xl<br>arge        | 14250.00                            | 1781.25   | 50000.00                                      | ✓    | default            |
| r6gd.16xl<br>arge        | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| r6gd.metal               | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| R6i                      |                                     |   |   |      |                    |
| r6i.large <sup>1</sup>   | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| r6i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| r6i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| r6i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| r6i.8xlarge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| r6i.12xlarge             | 15000.00                            | 1875.00   | 60000.00                                      | ✓    | default            |
| r6i.16xlarge             | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |

| Instance<br>type          | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------|-------------------------------------|---|---|------|--------------------|
| r6i.24xlarge              | 30000.00                            | 3750.00   | 120000.00                                     | ✓    | default            |
| r6i.32xlarge              | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
| r6i.metal                 | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
|                           |                                     | R6  | idn   |      |                    |
| r6idn.large <sup>1</sup>  | 1562.00 /<br>25000.00               | 195.31 /<br>3125.00                               | 6250.00 /<br>100000.00                        | ✓    | default            |
| r6idn.xlarge <sup>1</sup> | 3125.00 /<br>25000.00               | 390.62 /<br>3125.00                               | 12500.00 /<br>100000.00                       | ✓    | default            |
| r6idn.2xlarge<br>1        | 6250.00 /<br>25000.00               | 781.25 /<br>3125.00                               | 25000.00 /<br>100000.00                       | ✓    | default            |
| r6idn.4xlarge<br>1        | 12500.00 /<br>25000.00              | 1562.50 /<br>3125.00                              | 50000.00 /<br>100000.00                       | ✓    | default            |
| r6idn.8xlarge             | 25000.00                            | 3125.00   | 100000.00                                     | ✓    | default            |
| r6idn.12x<br>large        | 37500.00                            | 4687.50   | 150000.00                                     | ✓    | default            |
| r6idn.16x<br>large        | 50000.00                            | 6250.00   | 200000.00                                     | ✓    | default            |
| r6idn.24x<br>large        | 75000.00                            | 9375.00   | 300000.00                                     | ✓    | default            |
| r6idn.32x<br>large        | 100000.00                           | 12500.00  | 40000.00                                      | ✓    | default            |

| Instance<br>type          | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------|-------------------------------------|---|---|------|--------------------|
| r6idn.metal               | 100000.00                           | 12500.00  | 400000.00                                     | ✓    | default            |
|                           |                                     | Re  | Sin   |      |                    |
| r6in.large <sup>1</sup>   | 1562.00 /<br>25000.00               | 195.31 /<br>3125.00                               | 6250.00 /<br>100000.00                        | ✓    | default            |
| r6in.xlarge <sup>1</sup>  | 3125.00 /<br>25000.00               | 390.62 /<br>3125.00                               | 12500.00 /<br>100000.00                       | ✓    | default            |
| r6in.2xlarge <sup>1</sup> | 6250.00 /<br>25000.00               | 781.25 /<br>3125.00                               | 25000.00 /<br>100000.00                       | ✓    | default            |
| r6in.4xlarge <sup>1</sup> | 12500.00 /<br>25000.00              | 1562.50 /<br>3125.00                              | 50000.00 /<br>100000.00                       | ✓    | default            |
| r6in.8xlarge              | 25000.00                            | 3125.00   | 100000.00                                     | ✓    | default            |
| r6in.12xlarge             | 37500.00                            | 4687.50   | 150000.00                                     | ✓    | default            |
| r6in.16xlarge             | 50000.00                            | 6250.00   | 200000.00                                     | ✓    | default            |
| r6in.24xlarge             | 75000.00                            | 9375.00   | 300000.00                                     | ✓    | default            |
| r6in.32xlarge             | 100000.00                           | 12500.00  | 400000.00                                     | ✓    | default            |
| r6in.metal                | 100000.00                           | 12500.00  | 400000.00                                     | ✓    | default            |
|                           |                                     | Re  | iid   |      |                    |
| r6id.large <sup>1</sup>   | 650.00 /<br>10000.00                | 81.25 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |

| Instance<br>type          | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------|--|---|---|------|--------------------|
| r6id.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| r6id.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| r6id.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| r6id.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r6id.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| r6id.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r6id.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| r6id.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| r6id.metal                | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
|                           |  | R   | 7a  |      |                    |
| r7a.medium <sup>1</sup>   | 325.00 /<br>10000.00                         | 40.62 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓    | default            |
| r7a.large <sup>1</sup>    | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| r7a.xlarge <sup>1</sup>   | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| r7a.2xlarge <sup>1</sup>  | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| r7a.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| r7a.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r7a.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| r7a.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7a.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| r7a.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| r7a.48xlarge             | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
| r7a.metal<br>-48xl       | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
|                          |  | R   | 7g  |      |                    |
| r7g.medium<br>1          | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| r7g.large <sup>1</sup>   | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00                                | 3600.00 /<br>40000.00                         | ✓    | default            |
| r7g.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00                               | 6000.00 /<br>40000.00                         | ✓    | default            |
| r7g.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00                               | 12000.00 /<br>40000.00                        | ✓    | default            |
| r7g.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| r7g.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r7g.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| r7g.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7g.metal                | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
|                          |  | R7  | gd  |      |                    |
| r7gd.medium              | 315.00 /<br>10000.00                         | 39.38 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓    | default            |
| r7gd.large <sup>1</sup>  | 630.00 /<br>10000.00                         | 78.75 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| r7gd.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| r7gd.2xlarge             | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| r7gd.4xlarge<br>1        | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| r7gd.8xlarge             | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r7gd.12xl<br>arge        | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| r7gd.16xl<br>arge        | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7gd.metal               | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
|                          |  | R   | 7i  |      |                    |
| r7i.large <sup>1</sup>   | 650.00 /<br>10000.00                         | 81.25 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |
| r7i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| r7i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 12000.00 /<br>40000.00                        | ✓    | default            |
| r7i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| r7i.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r7i.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| r7i.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7i.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| r7i.48xlarge             | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
| r7i.metal<br>-24xl       | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| r7i.metal<br>-48xl       | 40000.00                                     | 5000.00   | 240000.00                                     | ✓    | default            |
|                          |  | R   | 7iz   |      |                    |
| r7iz.large <sup>1</sup>  | 792.00 /<br>10000.00                         | 99.00 /<br>1250.00  | 3600.00 /<br>40000.00                         | ✓    | default            |

| Instance<br>type          | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------|--|---|---|------|--------------------|
| r7iz.xlarge <sup>1</sup>  | 1584.00 /<br>10000.00                        | 198.00 /<br>1250.00   | 6667.00 /<br>40000.00                         | ✓    | default            |
| r7iz.2xlarge <sup>1</sup> | 3168.00 /<br>10000.00                        | 396.00 /<br>1250.00   | 13333.00 /<br>40000.00                        | ✓    | default            |
| r7iz.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| r7iz.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| r7iz.12xlarge             | 19000.00                                     | 2375.00   | 76000.00                                      | ✓    | default            |
| r7iz.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7iz.32xlarge             | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
| r7iz.meta<br>l-16xl       | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| r7iz.meta<br>l-32xl       | 40000.00                                     | 5000.00   | 160000.00                                     | ✓    | default            |
|                           |  | U-3   | itb1  |      |                    |
| u-3tb1.56<br>xlarge       | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                           |  | U-6   | itb1  |      |                    |
| u-6tb1.56<br>xlarge       | 38000.00                                     | 4750.00   | 160000.00                                     | ✓    | default            |

| Instance<br>type      | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-----------------------|-------------------------------------|---|---|------|--------------------|
| u-6tb1.11<br>2xlarge  | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
| u-6tb1.metal          | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
|                       |                                     | U-9   | tb1   |      |                    |
| u-9tb1.11<br>2xlarge  | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
| u-9tb1.metal          | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
|                       |                                     | U-12  | 2tb1  |      |                    |
| u-12tb1.1<br>12xlarge | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
| u-12tb1.m<br>etal     | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
|                       |                                     | U-18  | Stb1  |      |                    |
| u-18tb1.1<br>12xlarge | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
| u-18tb1.m<br>etal     | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |
|                       |                                     | U-24  | 4tb1  |      |                    |
| u-24tb1.1<br>12xlarge | 38000.00                            | 4750.00   | 160000.00                                     | ✓    | default            |

| Instance<br>type             | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe     | EBS optimization 2 |
|------------------------------|-------------------------------------|---|---|----------|--------------------|
| u-24tb1.m<br>etal            | 38000.00                            | 4750.00   | 160000.00                                     | ✓        | default            |
|                              |                                     | X   | 1   |          |                    |
| x1.16xlarge                  | 7000.00                             | 875.00  | 40000.00                                      | X        | default            |
| x1.32xlarge                  | 14000.00                            | 1750.00   | 80000.00                                      | X        | default            |
|                              |                                     | X2  | gd  |          |                    |
| x2gd.medi<br>um <sup>1</sup> | 315.00 /<br>4750.00                 | 39.38 /<br>593.75                                 | 2500.00 /<br>20000.00                         | ✓        | default            |
| x2gd.large <sup>1</sup>      | 630.00 /<br>4750.00                 | 78.75 /<br>593.75                                 | 3600.00 /<br>20000.00                         | ✓        | default            |
| x2gd.xlarge <sup>1</sup>     | 1188.00 /<br>4750.00                | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓        | default            |
| x2gd.2xlarge                 | 2375.00 /<br>4750.00                | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓        | default            |
| x2gd.4xlarge                 | 4750.00                             | 593.75  | 20000.00                                      | ✓        | default            |
| x2gd.8xlarge                 | 9500.00                             | 1187.50   | 40000.00                                      | ✓        | default            |
| x2gd.12xl<br>arge            | 14250.00                            | 1781.25   | 60000.00                                      | ✓        | default            |
| x2gd.16xl<br>arge            | 19000.00                            | 2375.00   | 80000.00                                      | <b>√</b> | default            |
| x2gd.metal                   | 19000.00                            | 2375.00   | 80000.00                                      | ✓        | default            |

| Instance<br>type                | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------------|--|---|---|------|--------------------|
|                                 |  | X2  | idn   |      |                    |
| x2idn.16x<br>large              | 40000.00                                     | 5000.00   | 173333.00                                     | ✓    | default            |
| x2idn.24x<br>large              | 60000.00                                     | 7500.00   | 260000.00                                     | ✓    | default            |
| x2idn.32x<br>large              | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
| x2idn.metal                     | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
|                                 |  | X2i   | edn   |      |                    |
| x2iedn.xlarge<br>1              | 2500.00 /<br>20000.00                        | 312.50 /<br>2500.00                               | 8125.00 /<br>65000.00                         | ✓    | default            |
| x2iedn.2x<br>large <sup>1</sup> | 5000.00 /<br>20000.00                        | 625.00 /<br>2500.00                               | 16250.00 /<br>65000.00                        | ✓    | default            |
| x2iedn.4x<br>large <sup>1</sup> | 10000.00 /<br>20000.00                       | 1250.00 /<br>2500.00                              | 32500.00 /<br>65000.00                        | ✓    | default            |
| x2iedn.8x<br>large              | 20000.00                                     | 2500.00   | 65000.00                                      | ✓    | default            |
| x2iedn.16<br>xlarge             | 40000.00                                     | 5000.00   | 130000.00                                     | ✓    | default            |
| x2iedn.24<br>xlarge             | 60000.00                                     | 7500.00   | 195000.00                                     | ✓    | default            |

| Instance<br>type    | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------|--|---|---|------|--------------------|
| x2iedn.32<br>xlarge | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
| x2iedn.metal        | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
|                     |  | X2i   | ezn   |      |                    |
| x2iezn.2x<br>large  | 3170.00                                      | 396.25  | 13333.00                                      | ✓    | default            |
| x2iezn.4x<br>large  | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| x2iezn.6x<br>large  | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| x2iezn.8x<br>large  | 12000.00                                     | 1500.00   | 55000.00                                      | ✓    | default            |
| x2iezn.12<br>xlarge | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| x2iezn.metal        | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                     |  | X   | le  |      |                    |
| x1e.xlarge          | 500.00                                       | 62.50   | 3700.00                                       | X    | default            |
| x1e.2xlarge         | 1000.00                                      | 125.00  | 7400.00                                       | X    | default            |
| x1e.4xlarge         | 1750.00                                      | 218.75  | 10000.00                                      | X    | default            |
| x1e.8xlarge         | 3500.00                                      | 437.50  | 20000.00                                      | X    | default            |

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|-------------------------------------|---|---|------|--------------------|
| x1e.16xlarge            | 7000.00                             | 875.00  | 40000.00                                      | X    | default            |
| x1e.32xlarge            | 14000.00                            | 1750.00   | 80000.00                                      | X    | default            |
|                         |                                     | z1  | ld  |      |                    |
| z1d.large <sup>1</sup>  | 800.00 /<br>3170.00                 | 100.00 /<br>396.25  | 3333.00 /<br>13333.00                         | ✓    | default            |
| z1d.xlarge <sup>1</sup> | 1580.00 /<br>3170.00                | 197.50 /<br>396.25  | 6667.00 /<br>13333.00                         | ✓    | default            |
| z1d.2xlarge             | 3170.00                             | 396.25  | 13333.00                                      | ✓    | default            |
| z1d.3xlarge             | 4750.00                             | 593.75  | 20000.00                                      | ✓    | default            |
| z1d.6xlarge             | 9500.00                             | 1187.50   | 40000.00                                      | ✓    | default            |
| z1d.12xlarge            | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |
| z1d.metal               | 19000.00                            | 2375.00   | 80000.00                                      | ✓    | default            |

## Note

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>&</sup>lt;sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

## **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
|               |                              | R5                        | ad                              |  |                      |
| r5ad.large    | 1 x 75 GB                    | NVMe<br>SSD               | 30,000 / 15,000                 |  | ✓                    |
| r5ad.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 59,000 / 29,000                 |  | ✓                    |
| r5ad.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 117,000 / 57,000                |  | ✓                    |
| r5ad.4xlarge  | 2 x 300 GB                   | NVMe<br>SSD               | 234,000 / 114,000               |  | ✓                    |
| r5ad.8xlarge  | 2 x 600 GB                   | NVMe<br>SSD               | 466,666 / 233,334               |  | ✓                    |
| r5ad.12xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |
| r5ad.16xlarge | 4 x 600 GB                   | NVMe<br>SSD               | 933,332 / 466,668               |  | ✓                    |
| r5ad.24xlarge | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |  | ✓                    |
|               |                              | R!                        | 5d                              |  |                      |
| r5d.large     | 1 x 75 GB                    | NVMe<br>SSD               | 30,000 / 15,000                 |  | ✓                    |
| r5d.xlarge    | 1 x 150 GB                   | NVMe<br>SSD               | 59,000 / 29,000                 |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | performance initializ |   |
|---------------|------------------------------|---------------------------|---------------------------------|-----------------------|---|
| r5d.2xlarge   | 1 x 300 GB                   | NVMe<br>SSD               | 117,000 / 57,000                |                       | ✓ |
| r5d.4xlarge   | 2 x 300 GB                   | NVMe<br>SSD               | 234,000 / 114,000               |                       | ✓ |
| r5d.8xlarge   | 2 x 600 GB                   | NVMe<br>SSD               | 466,666 / 233,334               |                       | ✓ |
| r5d.12xlarge  | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |                       | ✓ |
| r5d.16xlarge  | 4 x 600 GB                   | NVMe<br>SSD               | 933,332 / 466,668               |                       | ✓ |
| r5d.24xlarge  | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |                       | ✓ |
| r5d.metal     | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>680,000          |                       | ✓ |
|               |                              | R5                        | dn                              |                       |   |
| r5dn.large    | 1 x 75 GB                    | NVMe<br>SSD               | 29,000 / 14,500                 |                       | ✓ |
| r5dn.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 58,000 / 29,000                 |                       | ✓ |
| r5dn.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 116,000 / 58,000                |                       | ✓ |
| r5dn.4xlarge  | 2 x 300 GB                   | NVMe<br>SSD               | 232,000 / 116,000               |                       | ✓ |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| r5dn.8xlarge  | 2 x 600 GB                   | NVMe<br>SSD               | 464,000 / 232,000               |  | ✓                    |
| r5dn.12xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 350,000               |  | ✓                    |
| r5dn.16xlarge | 4 x 600 GB                   | NVMe<br>SSD               | 930,000 / 465,000               |  | ✓                    |
| r5dn.24xlarge | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>700,000          |  | ✓                    |
| r5dn.metal    | 4 x 900 GB                   | NVMe<br>SSD               | 1,400,000 /<br>700,000          |  | ✓                    |
|               |                              | R6                        | gd                              |  |                      |
| r6gd.medium   | 1 x 59 GB                    | NVMe<br>SSD               | 13,438 / 5,625                  |  | ✓                    |
| r6gd.large    | 1 x 118 GB                   | NVMe<br>SSD               | 26,875 / 11,250                 |  | ✓                    |
| r6gd.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 53,750 / 22,500                 |  | ✓                    |
| r6gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| r6gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 215,000 / 90,000                |  | ✓                    |
| r6gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| r6gd.12xlarge  | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| r6gd.16xlarge  | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| r6gd.metal     | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
|                |                              | R6                        | idn                             |  |                      |
| r6idn.large    | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| r6idn.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| r6idn.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| r6idn.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |
| r6idn.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| r6idn.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| r6idn.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| r6idn.24xlarge | 4 x 1425 GB                  | NVMe<br>SSD               | 1,609,996 /<br>805,000          |  | ✓                    |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| r6idn.32xlarge | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
| r6idn.metal    | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
|                |                              | Re                        | Sid                             |  |                      |
| r6id.large     | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| r6id.xlarge    | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| r6id.2xlarge   | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| r6id.4xlarge   | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |
| r6id.8xlarge   | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| r6id.12xlarge  | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| r6id.16xlarge  | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| r6id.24xlarge  | 4 x 1425 GB                  | NVMe<br>SSD               | 1,609,996 /<br>805,000          |  | ✓                    |
| r6id.32xlarge  | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| r6id.metal    | 4 x 1900 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |
|               |                              | R7                        | 'gd                             |  |                      |
| r7gd.medium   | 1 x 59 GB                    | NVMe<br>SSD               | 16,771 / 8,385                  |  | ✓                    |
| r7gd.large    | 1 x 118 GB                   | NVMe<br>SSD               | 33,542 / 16,771                 |  | ✓                    |
| r7gd.xlarge   | 1 x 237 GB                   | NVMe<br>SSD               | 67,083 / 33,542                 |  | ✓                    |
| r7gd.2xlarge  | 1 x 474 GB                   | NVMe<br>SSD               | 134,167 / 67,084                |  | ✓                    |
| r7gd.4xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 268,333 / 134,167               |  | ✓                    |
| r7gd.8xlarge  | 1 x 1900 GB                  | NVMe<br>SSD               | 536,666 / 268,334               |  | ✓                    |
| r7gd.12xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 804,998 / 402,500               |  | ✓                    |
| r7gd.16xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
| r7gd.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 1,073,332 /<br>536,668          |  | ✓                    |
|               |                              | х                         | (1                              |  |                      |
| x1.16xlarge   | 1 x 1920 GB                  | SSD                       |                                 | ✓  |                      |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| x1.32xlarge    | 2 x 1920 GB                  | SSD                       |                                 | ✓  |                      |
|                |                              | X2                        | gd                              |  |                      |
| x2gd.medium    | 1 x 59 GB                    | NVMe<br>SSD               | 13,438 / 5,625                  |  | ✓                    |
| x2gd.large     | 1 x 118 GB                   | NVMe<br>SSD               | 26,875 / 11,250                 |  | ✓                    |
| x2gd.xlarge    | 1 x 237 GB                   | NVMe<br>SSD               | 53,750 / 22,500                 |  | ✓                    |
| x2gd.2xlarge   | 1 x 475 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| x2gd.4xlarge   | 1 x 950 GB                   | NVMe<br>SSD               | 215,000 / 90,000                |  | ✓                    |
| x2gd.8xlarge   | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |
| x2gd.12xlarge  | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| x2gd.16xlarge  | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| x2gd.metal     | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
|                |                              | X2                        | idn                             |  |                      |
| x2idn.16xlarge | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |

| Instance type   | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|-----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| x2idn.24xlarge  | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| x2idn.32xlarge  | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| x2idn.metal     | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
|                 |                              | X2i                       | edn                             |  |                      |
| x2iedn.xlarge   | 1 x 118 GB                   | NVMe<br>SSD               | 26,875 / 11,250                 |  | ✓                    |
| x2iedn.2xlarge  | 1 x 237 GB                   | NVMe<br>SSD               | 53,750 / 22,500                 |  | ✓                    |
| x2iedn.4xlarge  | 1 x 475 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| x2iedn.8xlarge  | 1 x 950 GB                   | NVMe<br>SSD               | 215,000 / 90,000                |  | ✓                    |
| x2iedn.16xlarge | 1 x 1900 GB                  | NVMe<br>SSD               | 430,000 / 180,000               |  | ✓                    |
| x2iedn.24xlarge | 2 x 1425 GB                  | NVMe<br>SSD               | 645,000 / 270,000               |  | ✓                    |
| x2iedn.32xlarge | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
| x2iedn.metal    | 2 x 1900 GB                  | NVMe<br>SSD               | 860,000 / 360,000               |  | ✓                    |
|                 |                              | X                         | 1e                              |  |                      |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| x1e.xlarge    | 1 x 120 GB                   | SSD                       |                                 | ✓  |                      |
| x1e.2xlarge   | 1 x 240 GB                   | SSD                       |                                 | ✓  |                      |
| x1e.4xlarge   | 1 x 480 GB                   | SSD                       |                                 | ✓  |                      |
| x1e.8xlarge   | 1 x 960 GB                   | SSD                       |                                 | ✓  |                      |
| x1e.16xlarge  | 1 x 1920 GB                  | SSD                       |                                 | ✓  |                      |
| x1e.32xlarge  | 2 x 1920 GB                  | SSD                       |                                 | ✓  |                      |
|               |                              | z'                        | ld                              |  |                      |
| z1d.large     | 1 x 75 GB                    | NVMe<br>SSD               | 30,000 / 15,000                 |  | ✓                    |
| z1d.xlarge    | 1 x 150 GB                   | NVMe<br>SSD               | 59,000 / 29,000                 |  | ✓                    |
| z1d.2xlarge   | 1 x 300 GB                   | NVMe<br>SSD               | 117,000 / 57,000                |  | ✓                    |
| z1d.3xlarge   | 1 x 450 GB                   | NVMe<br>SSD               | 175,000 / 75,000                |  | ✓                    |
| z1d.6xlarge   | 1 x 900 GB                   | NVMe<br>SSD               | 350,000 / 170,000               |  | ✓                    |
| z1d.12xlarge  | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |
| z1d.metal     | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |

## **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | R5                           |                |          |                   |
| r5.large      | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | ✓        | X                 |
| r5.xlarge     | <b>√</b>              | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5.2xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| r5.4xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5.8xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5.12xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

<sup>&</sup>lt;sup>2</sup> For more information, see <u>Instance store volume TRIM support</u>.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r5.16xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5.24xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| r5.metal      | ✓                     | Instance<br>store not<br>supported  | x                            | X              | x        | X                 |
|               |                       |                                     | R5a                          |                |          |                   |
| r5a.large     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | X                 |
| r5a.xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5a.8xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r5a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | x              | ✓        | ✓                 |
| r5a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| r5a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
|               |                       | F                                   | R5ad                         |                |          |                   |
| r5ad.large    | ✓                     | ✓                                   | X                            | X              | ✓        | x                 |
| r5ad.xlarge   | ✓                     | ✓                                   | X                            | x              | ✓        | ✓                 |
| r5ad.2xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5ad.4xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5ad.8xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5ad.12xlarge | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5ad.16xlarge | ✓                     | ✓                                   | x                            | X              | ✓        | ✓                 |
| r5ad.24xlarge | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
|               |                       |                                     | R5b                          |                |          |                   |
| r5b.large     | ✓                     | Instance<br>store not<br>supported  | X                            | x              | <b>√</b> | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r5b.xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.2xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | ✓        | ✓                 |
| r5b.4xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.8xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.12xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.16xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.24xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | ✓        | ✓                 |
| r5b.metal     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
|               |                       |                                     | R5d                          |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r5d.large     | ✓                     | ✓                                   | x                            | x              | ✓        | x                 |
| r5d.xlarge    | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.2xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.4xlarge   | ✓                     | ✓                                   | X                            | X              | ✓        | ✓                 |
| r5d.8xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.12xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.16xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.24xlarge  | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |
| r5d.metal     | ✓                     | ✓                                   | x                            | x              | x        | x                 |
|               |                       | ı                                   | R5dn                         |                |          |                   |
| r5dn.large    | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |
| r5dn.xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| r5dn.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| r5dn.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| r5dn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| r5dn.12xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| r5dn.16xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| r5dn.24xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| r5dn.metal    | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | R5n                          |                |          |                   |
| r5n.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r5n.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r5n.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r5n.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r5n.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r5n.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r5n.16xlarge  | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r5n.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| r5n.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |  |
| R6a           |                       |                                     |                              |                |          |                   |  |  |  |
| r6a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | X                 |  |  |  |
| r6a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |  |  |  |
| r6a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |  |  |  |
| r6a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | ✓              | ✓        | ✓                 |  |  |  |
| r6a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |
| r6a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r6a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6a.32xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6a.48xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6a.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | x                 |
|               |                       |                                     | R6g                          |                |          |                   |
| r6g.medium    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| r6g.large     | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | X        | ✓                 |
| r6g.xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | X                            | x              | X        | ✓                 |
| r6g.2xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r6g.4xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | ✓                 |
| r6g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | ✓                 |
| r6g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | ✓                 |
| r6g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | x              | x        | ✓                 |
| r6g.metal     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
|               |                       | ı                                   | R6gd                         |                |          |                   |
| r6gd.medium   | ✓                     | ✓                                   | x                            | X              | x        | x                 |
| r6gd.large    | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |
| r6gd.xlarge   | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| r6gd.2xlarge  | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| r6gd.4xlarge  | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| r6gd.8xlarge  | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| r6gd.12xlarge | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r6gd.16xlarge | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| r6gd.metal    | ✓                     | ✓                                   | x                            | x              | x        | x                 |
|               |                       |                                     | R6i                          |                |          |                   |
| r6i.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r6i.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6i.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6i.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6i.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| r6i.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |
| r6i.32xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |
| r6i.metal      | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| R6idn          |                       |                                     |                              |                |          |                   |  |  |
| r6idn.large    | ✓                     | ✓                                   | ✓                            | X              | ✓        | x                 |  |  |
| r6idn.xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.2xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |
| r6idn.12xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |
| r6idn.16xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.24xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.32xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |
| r6idn.metal    | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |  |  |
|                |                       | ı                                   | R6in                         |                |          |                   |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r6in.large    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r6in.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6in.2xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6in.4xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6in.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |
| r6in.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6in.16xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |
| r6in.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| r6in.32xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |
| r6in.metal    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |  |
| R6id          |                       |                                     |                              |                |          |                   |  |  |  |
| r6id.large    | ✓                     | ✓                                   | ✓                            | X              | ✓        | x                 |  |  |  |
| r6id.xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |  |
| r6id.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.12xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.16xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.24xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |  |
| r6id.32xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| r6id.metal    | ✓                     | ✓                                   | ✓                            | X              | x        | x                 |  |  |  |
|               |                       |                                     | R7a                          |                |          |                   |  |  |  |
| r7a.medium    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | x                 |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r7a.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7a.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7a.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7a.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7a.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7a.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| r7a.32xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| r7a.48xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |  |  |
| r7a.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| R7g            |                       |                                     |                              |                |          |                   |  |  |
| r7g.medium     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| r7g.large      | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| r7g.xlarge     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |  |  |
| r7g.2xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
| r7g.4xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r7g.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| r7g.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
| r7g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
| r7g.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|               |                       | ı                                   | R7gd                         |                |          |                   |
| r7gd.medium   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| r7gd.large    | ✓                     | ✓                                   | ✓                            | X              | x        | x                 |
| r7gd.xlarge   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| r7gd.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| r7gd.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| r7gd.8xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| r7gd.12xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| r7gd.16xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| r7gd.metal    | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | R7i                          |                |          |                   |
| r7i.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7i.xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7i.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7i.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7i.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7i.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | x                 |
| r7i.16xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | x                 |
| r7i.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | x                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r7i.48xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7i.metal-24xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
| r7i.metal-48xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|                |                       |                                     | R7iz                         |                |          |                   |
| r7iz.large     | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7iz.xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7iz.2xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |
| r7iz.4xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
| r7iz.8xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |

| Instance type   | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|-----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| r7iz.12xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| r7iz.16xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| r7iz.32xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | X                 |  |  |
| r7iz.metal-16xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
| r7iz.metal-32xl | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
|                 |                       | U                                   | -3tb1                        |                |          |                   |  |  |
| u-3tb1.56xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
|                 | U-6tb1                |                                     |                              |                |          |                   |  |  |
| u-6tb1.56xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |

| Instance type     | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|-------------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| u-6tb1.112xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |  |  |
| u-6tb1.metal      | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |  |  |
|                   |                       | U                                   | -9tb1                        |                |          |                   |  |  |
| u-9tb1.112xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |  |
| u-9tb1.metal      | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
|                   |                       | U-                                  | 12tb1                        |                |          |                   |  |  |
| u-12tb1.112xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |
| u-12tb1.metal     | ✓                     | Instance<br>store not<br>supported  | <b>√</b>                     | x              | x        | X                 |  |  |
|                   | U-18tb1               |                                     |                              |                |          |                   |  |  |
| u-18tb1.112xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |  |

| Instance type     | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|-------------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| u-18tb1.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | X                 |
|                   |                       | U-                                  | 24tb1                        |                |          |                   |
| u-24tb1.112xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| u-24tb1.metal     | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
|                   |                       |                                     | X1                           |                |          |                   |
| x1.16xlarge       | ✓                     | x                                   | x                            | x              | x        | x                 |
| x1.32xlarge       | ✓                     | x                                   | x                            | x              | x        | x                 |
|                   |                       | )                                   | K2gd                         |                |          |                   |
| x2gd.medium       | ✓                     | ✓                                   | x                            | x              | X        | x                 |
| x2gd.large        | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |
| x2gd.xlarge       | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| x2gd.2xlarge      | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |
| x2gd.4xlarge      | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| x2gd.8xlarge      | ✓                     | ✓                                   | X                            | X              | X        | ✓                 |
| x2gd.12xlarge     | ✓                     | ✓                                   | x                            | x              | X        | ✓                 |

| Instance type   | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|-----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| x2gd.16xlarge   | ✓                     | ✓                                   | x                            | x              | x        | ✓                 |
| x2gd.metal      | ✓                     | ✓                                   | x                            | x              | x        | x                 |
|                 |                       | Х                                   | (2idn                        |                |          |                   |
| x2idn.16xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2idn.24xlarge  | ✓                     | ✓                                   | ✓                            | X              | x        | ✓                 |
| x2idn.32xlarge  | ✓                     | ✓                                   | ✓                            | X              | x        | ✓                 |
| x2idn.metal     | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
|                 |                       | x                                   | 2iedn                        |                |          |                   |
| x2iedn.xlarge   | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2iedn.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2iedn.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2iedn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2iedn.16xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
| x2iedn.24xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |
| x2iedn.32xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |
| x2iedn.metal    | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
|                 |                       | х                                   | 2iezn                        |                |          |                   |

| Instance type   | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|-----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| x2iezn.2xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| x2iezn.4xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | ✓                 |
| x2iezn.6xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| x2iezn.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | X        | ✓                 |
| x2iezn.12xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | ✓                 |
| x2iezn.metal    | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|                 |                       |                                     | X1e                          |                |          |                   |
| x1e.xlarge      | ✓                     | X                                   | X                            | X              | X        | X                 |
| x1e.2xlarge     | ✓                     | X                                   | X                            | X              | X        | X                 |
| x1e.4xlarge     | ✓                     | X                                   | X                            | X              | X        | X                 |
| x1e.8xlarge     | ✓                     | x                                   | x                            | X              | x        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| x1e.16xlarge  | ✓                     | x                                   | x                            | x              | x        | x                 |  |  |
| x1e.32xlarge  | ✓                     | X                                   | x                            | x              | x        | x                 |  |  |
| z1d           |                       |                                     |                              |                |          |                   |  |  |
| z1d.large     | ✓                     | ✓                                   | X                            | X              | ✓        | x                 |  |  |
| z1d.xlarge    | ✓                     | ✓                                   | x                            | X              | ✓        | ✓                 |  |  |
| z1d.2xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |  |  |
| z1d.3xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |  |  |
| z1d.6xlarge   | ✓                     | ✓                                   | x                            | x              | ✓        | ✓                 |  |  |
| z1d.12xlarge  | ✓                     | ✓                                   | x                            | X              | ✓        | ✓                 |  |  |
| z1d.metal     | ✓                     | ✓                                   | x                            | x              | x        | x                 |  |  |

## **Storage optimized instances**

Storage optimized instances are designed for workloads that require high, sequential read and write access to very large data sets on local storage. They are optimized to deliver tens of thousands of low-latency, random I/O operations per second (IOPS) to applications.

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- · Network specifications
- Amazon EBS specifications
- Instance store specifications

Storage optimized 256

• Security specifications

## Available sizes

| Instance<br>type | Available sizes  |
|------------------|--|
| D2               | d2.xlarge  d2.2xlarge  d2.4xlarge  d2.8xlarge  |
| D3               | d3.xlarge  d3.2xlarge  d3.4xlarge  d3.8xlarge  |
| D3en             | d3en.xlarge  d3en.2xlarge  d3en.4xlarge  d3en.6xlarge  d3en.8xlarge  d3en.12xlarge   |
| H1               | h1.2xlarge   h1.4xlarge   h1.8xlarge   h1.16xlarge   |
| 13               | <pre>i3.large i3.xlarge i3.2xlarge i3.4xlarge i3.8xlarge  i3.16xlarge i3.metal</pre>   |
| l3en             | <pre>i3en.large  i3en.xlarge  i3en.2xlarge  i3en.3xlarge   i3en.6xlarge  i3en.12xlarge  i3en.24xlarge  i3en.metal</pre>                                      |
| l4g              | i4g.large  i4g.xlarge  i4g.2xlarge  i4g.4xlarge  i4g.8xlar<br>ge  i4g.16xlarge   |
| l4i              | <pre>i4i.large   i4i.xlarge   i4i.2xlarge   i4i.4xlarge   i4i.8xlar<br/>ge   i4i.12xlarge   i4i.16xlarge   i4i.24xlarge   i4i.32xlarge  <br/>i4i.metal</pre> |
| lm4gn            | <pre>im4gn.large  im4gn.xlarge  im4gn.2xlarge  im4gn.4xlarge   im4gn.8xlarge  im4gn.16xlarge</pre>   |
| ls4gen           | is4gen.medium  is4gen.large  is4gen.xlarge  is4gen.2xlarge   is4gen.4xlarge  is4gen.8xlarge  |

Available sizes 257

## **Platform summary**

| Instance<br>type | Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| D2               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| D3               | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| D3en             | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| H1               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| 13               | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| l3en             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| I4g              | Nitro         | AWS<br>Graviton<br>(arm64)              | X                               | ✓                            | ✓               | X                       | Linux                       |
| l4i              | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| lm4gn            | Nitro         | AWS<br>Graviton<br>(arm64)              | X                               | ✓                            | ✓               | X                       | Linux                       |
| ls4gen           | Nitro         | AWS<br>Graviton<br>(arm64)              | X                               | x                            | ✓               | X                       | Linux                       |

Platform summary 258

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
|               |           |                 | D2                          |       |              |                        |                  |
| d2.xlarge     | X         | 30.50           | Intel Xeon<br>E52676v3      | 4     | 2            | 2                      | X                |
| d2.2xlarge    | X         | 61.00           | Intel Xeon<br>E52676v3      | 8     | 4            | 2                      | X                |
| d2.4xlarge    | X         | 122.00          | Intel Xeon<br>E52676v3      | 16    | 8            | 2                      | X                |
| d2.8xlarge    | X         | 244.00          | Intel Xeon<br>E52676v3      | 36    | 18           | 2                      | X                |
|               |           |                 | D3                          |       |              |                        |                  |
| d3.xlarge     | X         | 32.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |
| d3.2xlarge    | X         | 64.00           | Intel Xeon<br>Platinum 8259 | 8     | 4            | 2                      | X                |
| d3.4xlarge    | X         | 128.00          | Intel Xeon<br>Platinum 8259 | 16    | 8            | 2                      | X                |
| d3.8xlarge    | X         | 256.00          | Intel Xeon<br>Platinum 8259 | 32    | 16           | 2                      | X                |
|               |           |                 | D3en                        |       |              |                        |                  |
| d3en.xlarge   | X         | 16.00           | Intel Xeon<br>Platinum 8259 | 4     | 2            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| d3en.2xlarge  | X         | 32.00           | Intel Xeon<br>Platinum 8259  | 8     | 4            | 2                      | X                |
| d3en.4xlarge  | X         | 64.00           | Intel Xeon<br>Platinum 8259  | 16    | 8            | 2                      | X                |
| d3en.6xlarge  | X         | 96.00           | Intel Xeon<br>Platinum 8259  | 24    | 12           | 2                      | X                |
| d3en.8xlarge  | X         | 128.00          | Intel Xeon<br>Platinum 8259  | 32    | 16           | 2                      | X                |
| d3en.12xlarge | X         | 192.00          | Intel Xeon<br>Platinum 8259  | 48    | 24           | 2                      | X                |
|               |           |                 | H1                           |       |              |                        |                  |
| h1.2xlarge    | X         | 32.00           | Intel Broadwell<br>E5-2686v4 | 8     | 4            | 2                      | X                |
| h1.4xlarge    | X         | 64.00           | Intel Broadwell<br>E5-2686v4 | 16    | 8            | 2                      | X                |
| h1.8xlarge    | X         | 128.00          | Intel Broadwell<br>E5-2686v4 | 32    | 16           | 2                      | X                |
| h1.16xlarge   | X         | 256.00          | Intel Broadwell<br>E5-2686v4 | 64    | 32           | 2                      | X                |
|               |           |                 | 13                           |       |              |                        |                  |
| i3.large      | X         | 15.25           | Intel Broadwell<br>E5-2686v4 | 2     | 1            | 2                      | X                |
| i3.xlarge     | X         | 30.50           | Intel Broadwell<br>E5-2686v4 | 4     | 2            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| i3.2xlarge    | X         | 61.00           | Intel Broadwell<br>E5-2686v4 | 8     | 4            | 2                      | X                |
| i3.4xlarge    | X         | 122.00          | Intel Broadwell<br>E5-2686v4 | 16    | 8            | 2                      | X                |
| i3.8xlarge    | X         | 244.00          | Intel Broadwell<br>E5-2686v4 | 32    | 16           | 2                      | X                |
| i3.16xlarge   | X         | 488.00          | Intel Broadwell<br>E5-2686v4 | 64    | 32           | 2                      | X                |
| i3.metal      | X         | 512.00          | Intel Broadwell<br>E5-2686v4 | 72    | 36           | 2                      | X                |
|               |           |                 | l3en                         |       |              |                        |                  |
| i3en.large    | X         | 16.00           | Intel Xeon<br>Platinum 8175  | 2     | 1            | 2                      | X                |
| i3en.xlarge   | X         | 32.00           | Intel Xeon<br>Platinum 8175  | 4     | 2            | 2                      | X                |
| i3en.2xlarge  | X         | 64.00           | Intel Xeon<br>Platinum 8175  | 8     | 4            | 2                      | X                |
| i3en.3xlarge  | X         | 96.00           | Intel Xeon<br>Platinum 8175  | 12    | 6            | 2                      | X                |
| i3en.6xlarge  | X         | 192.00          | Intel Xeon<br>Platinum 8175  | 24    | 12           | 2                      | X                |
| i3en.12xlarge | X         | 384.00          | Intel Xeon<br>Platinum 8175  | 48    | 24           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| i3en.24xlarge | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
| i3en.metal    | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | X                |
|               |           |                 | I4g                         |       |              |                        |                  |
| i4g.large     | X         | 16.00           | AWS Graviton2<br>Processor  | 2     | 2            | 1                      | X                |
| i4g.xlarge    | X         | 32.00           | AWS Graviton2<br>Processor  | 4     | 4            | 1                      | X                |
| i4g.2xlarge   | X         | 64.00           | AWS Graviton2<br>Processor  | 8     | 8            | 1                      | X                |
| i4g.4xlarge   | X         | 128.00          | AWS Graviton2<br>Processor  | 16    | 16           | 1                      | X                |
| i4g.8xlarge   | X         | 256.00          | AWS Graviton2<br>Processor  | 32    | 32           | 1                      | X                |
| i4g.16xlarge  | X         | 512.00          | AWS Graviton2<br>Processor  | 64    | 64           | 1                      | X                |
|               |           |                 | 14i                         |       |              |                        |                  |
| i4i.large     | X         | 16.00           | Intel Xeon Ice<br>Lake      | 2     | 1            | 2                      | X                |
| i4i.xlarge    | X         | 32.00           | Intel Xeon Ice<br>Lake      | 4     | 2            | 2                      | X                |
| i4i.2xlarge   | X         | 64.00           | Intel Xeon Ice<br>Lake      | 8     | 4            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| i4i.4xlarge   | X         | 128.00          | Intel Xeon Ice<br>Lake     | 16    | 8            | 2                      | X                |
| i4i.8xlarge   | X         | 256.00          | Intel Xeon Ice<br>Lake     | 32    | 16           | 2                      | X                |
| i4i.12xlarge  | X         | 384.00          | Intel Xeon Ice<br>Lake     | 48    | 24           | 2                      | X                |
| i4i.16xlarge  | X         | 512.00          | Intel Xeon Ice<br>Lake     | 64    | 32           | 2                      | X                |
| i4i.24xlarge  | X         | 768.00          | Intel Xeon Ice<br>Lake     | 96    | 48           | 2                      | X                |
| i4i.32xlarge  | X         | 1024.00         | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                      | X                |
| i4i.metal     | X         | 1024.00         | Intel Xeon Ice<br>Lake     | 128   | 64           | 2                      | X                |
|               |           |                 | lm4gn                      |       |              |                        |                  |
| im4gn.large   | X         | 8.00            | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| im4gn.xlarge  | X         | 16.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| im4gn.2xlarge | X         | 32.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| im4gn.4xlarge | X         | 64.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|------------------|
| im4gn.8xlarge      | X         | 128.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |
| im4gn.16x<br>large | X         | 256.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                      | X                |
|                    |           |                 | ls4gen                     |       |              |                        |                  |
| is4gen.me<br>dium  | X         | 6.00            | AWS Graviton2<br>Processor | 1     | 1            | 1                      | X                |
| is4gen.large       | X         | 12.00           | AWS Graviton2<br>Processor | 2     | 2            | 1                      | X                |
| is4gen.xlarge      | X         | 24.00           | AWS Graviton2<br>Processor | 4     | 4            | 1                      | X                |
| is4gen.2x<br>large | X         | 48.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                      | X                |
| is4gen.4x<br>large | X         | 96.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                      | X                |
| is4gen.8x<br>large | X         | 192.00          | AWS Graviton2<br>Processor | 32    | 32           | 1                      | X                |

# **Network specifications**

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|               |                                   |     | I   | D2             |                  |                                   |                                     |      |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA                   | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----------------------|----------------|------------------|-----------------------------------|-------------------------------------|------|
| d2.xlarge                 | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| d2.2xlarge                | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| d2.4xlarge                | High                              | X   | <b>x</b> <sup>2</sup> | x              | 1                | 8                                 | 30                                  | ✓    |
| d2.8xlarge                | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
|                           |                                   |     | I                     | D3             |                  |                                   |                                     |      |
| d3.xlarge <sup>1</sup>    | 3.0 / 15.0                        | X   | ✓                     | X              | 1                | 4                                 | 3                                   | ✓    |
| d3.2xlarge <sup>1</sup>   | 6.0 / 15.0                        | X   | ✓                     | x              | 1                | 4                                 | 5                                   | ✓    |
| d3.4xlarge <sup>1</sup>   | 12.5 / 15.0                       | X   | ✓                     | X              | 1                | 4                                 | 10                                  | ✓    |
| d3.8xlarge                | 25 Gigabit                        | X   | ✓                     | x              | 1                | 3                                 | 20                                  | ✓    |
|                           |                                   |     | D                     | 3en            |                  |                                   |                                     |      |
| d3en.xlarge <sup>1</sup>  | 6.0 / 25.0                        | X   | ✓                     | X              | 1                | 4                                 | 3                                   | ✓    |
| d3en.2xlarge <sup>1</sup> | 12.5 / 25.0                       | X   | ✓                     | X              | 1                | 4                                 | 5                                   | ✓    |
| d3en.4xlarge              | 25 Gigabit                        | X   | ✓                     | X              | 1                | 4                                 | 10                                  | ✓    |
| d3en.6xlarge              | 40 Gigabit                        | X   | ✓                     | X              | 1                | 4                                 | 15                                  | ✓    |
| d3en.8xlarge              | 50 Gigabit                        | X   | ✓                     | x              | 1                | 4                                 | 20                                  | ✓    |
| d3en.12xlarge             | 75 Gigabit                        | X   | ✓                     | X              | 1                | 3                                 | 30                                  | ✓    |
| H1                        |                                   |     |                       |                |                  |                                   |                                     |      |
| h1.2xlarge <sup>1</sup>   | 2.5 / 10.0                        | X   | ✓                     | x              | 1                | 4                                 | 15                                  | ✓    |
| h1.4xlarge <sup>1</sup>   | 5.0 / 10.0                        | X   | ✓                     | X              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| h1.8xlarge                | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| h1.16xlarge               | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 50                                  | ✓    |
|                           |                                   |     |     | 13             |                  |                                   |                                     |      |
| i3.large <sup>1</sup>     | 0.75 / 10.0                       | x   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| i3.xlarge <sup>1</sup>    | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| i3.2xlarge <sup>1</sup>   | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| i3.4xlarge <sup>1</sup>   | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| i3.8xlarge                | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| i3.16xlarge               | 25 Gigabit                        | X   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |
| i3.metal                  | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     | 13  | Sen            |                  |                                   |                                     |      |
| i3en.large <sup>1</sup>   | 2.1 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| i3en.xlarge <sup>1</sup>  | 4.2 / 25.0                        | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| i3en.2xlarge <sup>1</sup> | 8.4 / 25.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| i3en.3xlarge <sup>1</sup> | 12.5 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| i3en.6xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| i3en.12xlarge             | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| i3en.24xlarge             | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| i3en.metal                | 100 Gigabit                       | ✓   | ✓   | x              | 1                | 15                                | 50                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                          |                                   |     | I   | 4g             |                  |                                   |                                     |      |
| i4g.large <sup>1</sup>   | 0.781 / 10.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| i4g.xlarge <sup>1</sup>  | 1.875 / 10.0                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| i4g.2xlarge <sup>1</sup> | 4.687 / 12.0                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| i4g.4xlarge <sup>1</sup> | 9.375 / 25.0                      | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| i4g.8xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| i4g.16xlarge             | 37.5 Gigabit                      | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     |     | <b> 4</b> i    |                  |                                   |                                     |      |
| i4i.large <sup>1</sup>   | 0.781 / 10.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| i4i.xlarge <sup>1</sup>  | 1.875 / 10.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| i4i.2xlarge <sup>1</sup> | 4.687 / 12.0                      | X   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| i4i.4xlarge <sup>1</sup> | 9.375 / 25.0                      | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| i4i.8xlarge              | 18.75 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| i4i.12xlarge             | 28.12 Gigabit                     | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| i4i.16xlarge             | 37.5 Gigabit                      | X   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| i4i.24xlarge             | 56.25 Gigabit                     | X   | ✓   | ✓              | 1                | 15                                | 30                                  | ✓    |
| i4i.32xlarge             | 75 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
| i4i.metal                | 75 Gigabit                        | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     | lm  | 4gn            |                  |                                   |                                     |      |

| Instance type                  | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| im4gn.large <sup>1</sup>       | 3.125 / 25.0                      | X   | ✓   | x              | 1                | 3                                 | 10                                  | ✓    |
| im4gn.xlarge <sup>1</sup>      | 6.25 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| im4gn.2xlarge<br>1             | 12.5 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| im4gn.4xlarge                  | 25 Gigabit                        | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| im4gn.8xlarge                  | 50 Gigabit                        | X   | ✓   | ✓              | 1                | 8                                 | 30                                  | ✓    |
| im4gn.16x<br>large             | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                                |                                   |     | ls4 | gen            |                  |                                   |                                     |      |
| is4gen.me<br>dium <sup>1</sup> | 1.562 / 25.0                      | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| is4gen.large <sup>1</sup>      | 3.125 / 25.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| is4gen.xlarge<br>1             | 6.25 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| is4gen.2xlarge<br>1            | 12.5 / 25.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| is4gen.4xlarge                 | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| is4gen.8xlarge                 | 50 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |



### Note

<sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see instance network bandwidth.

### **Amazon EBS specifications**

| Instance<br>type        | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|--|---|---|------|--------------------|
|                         |  | D   | 2   |      |                    |
| d2.xlarge               | 750.00                                       | 93.75   | 6000.00                                       | X    | default            |
| d2.2xlarge              | 1000.00                                      | 125.00  | 8000.00                                       | X    | default            |
| d2.4xlarge              | 2000.00                                      | 250.00  | 16000.00                                      | x    | default            |
| d2.8xlarge              | 4000.00                                      | 500.00  | 32000.00                                      | X    | default            |
|                         |  | D   | 3   |      |                    |
| d3.xlarge <sup>1</sup>  | 850.00 /<br>2800.00                          | 106.25 /<br>350.00  | 5000.00 /<br>15000.00                         | ✓    | default            |
| d3.2xlarge <sup>1</sup> | 1700.00 /<br>2800.00                         | 212.50 /<br>350.00  | 10000.00 /<br>15000.00                        | ✓    | default            |
| d3.4xlarge              | 2800.00                                      | 350.00  | 15000.00                                      | ✓    | default            |
| d3.8xlarge              | 5000.00                                      | 625.00  | 30000.00                                      | ✓    | default            |

<sup>&</sup>lt;sup>2</sup> These instances support enhanced networking using the Intel 82599 VF interface.

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|------|--------------------|
|                          |                                     | D3  | en  |      |                    |
| d3en.xlarge <sup>1</sup> | 850.00 /<br>2800.00                 | 106.25 /<br>350.00                                | 5000.00 /<br>15000.00                         | ✓    | default            |
| d3en.2xlarge             | 1700.00 /<br>2800.00                | 212.50 /<br>350.00                                | 10000.00 /<br>15000.00                        | ✓    | default            |
| d3en.4xlarge             | 2800.00                             | 350.00  | 15000.00                                      | ✓    | default            |
| d3en.6xlarge             | 4000.00                             | 500.00  | 25000.00                                      | ✓    | default            |
| d3en.8xlarge             | 5000.00                             | 625.00  | 30000.00                                      | ✓    | default            |
| d3en.12xl<br>arge        | 7000.00                             | 875.00  | 40000.00                                      | ✓    | default            |
|                          |                                     | н   | 1   |      |                    |
| h1.2xlarge               | 1750.00                             | 218.75  | 12000.00                                      | x    | default            |
| h1.4xlarge               | 3500.00                             | 437.50  | 20000.00                                      | X    | default            |
| h1.8xlarge               | 7000.00                             | 875.00  | 40000.00                                      | X    | default            |
| h1.16xlarge              | 14000.00                            | 1750.00   | 80000.00                                      | X    | default            |
|                          |                                     | I   | 3   |      |                    |
| i3.large                 | 425.00                              | 53.12   | 3000.00                                       | X    | default            |
| i3.xlarge                | 850.00                              | 106.25  | 6000.00                                       | X    | default            |
| i3.2xlarge               | 1700.00                             | 212.50  | 12000.00                                      | X    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| i3.4xlarge               | 3500.00                                      | 437.50  | 16000.00                                      | X    | default            |
| i3.8xlarge               | 7000.00                                      | 875.00  | 32500.00                                      | X    | default            |
| i3.16xlarge              | 14000.00                                     | 1750.00   | 65000.00                                      | X    | default            |
| i3.metal                 | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | 13  | en  |      |                    |
| i3en.large <sup>1</sup>  | 576.00 /<br>4750.00                          | 72.10 /<br>593.75   | 3000.00 /<br>20000.00                         | ✓    | default            |
| i3en.xlarge <sup>1</sup> | 1153.00 /<br>4750.00                         | 144.20 /<br>593.75  | 6000.00 /<br>20000.00                         | ✓    | default            |
| i3en.2xlarge<br>1        | 2307.00 /<br>4750.00                         | 288.39 /<br>593.75  | 12000.00 /<br>20000.00                        | ✓    | default            |
| i3en.3xlarge<br>1        | 3800.00 /<br>4750.00                         | 475.00 /<br>593.75  | 15000.00 /<br>20000.00                        | ✓    | default            |
| i3en.6xlarge             | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| i3en.12xlarge            | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| i3en.24xlarge            | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
| i3en.metal               | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | 14  | lg  |      |                    |
| i4g.large <sup>1</sup>   | 625.00 /<br>10000.00                         | 78.12 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| i4g.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 5000.00 /<br>40000.00                         | ✓    | default            |
| i4g.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 10000.00 /<br>40000.00                        | ✓    | default            |
| i4g.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| i4g.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| i4g.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
|                          |  | 14  | <b>4</b> i                                    |      |                    |
| i4i.large <sup>1</sup>   | 625.00 /<br>10000.00                         | 78.12 /<br>1250.00  | 2500.00 /<br>40000.00                         | ✓    | default            |
| i4i.xlarge <sup>1</sup>  | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 5000.00 /<br>40000.00                         | ✓    | default            |
| i4i.2xlarge <sup>1</sup> | 2500.00 /<br>10000.00                        | 312.50 /<br>1250.00   | 10000.00 /<br>40000.00                        | ✓    | default            |
| i4i.4xlarge <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| i4i.8xlarge              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| i4i.12xlarge             | 15000.00                                     | 1875.00   | 60000.00                                      | ✓    | default            |
| i4i.16xlarge             | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |
| i4i.24xlarge             | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |

| Instance<br>type               | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------------|-------------------------------------|---|---|------|--------------------|
| i4i.32xlarge                   | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
| i4i.metal                      | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
|                                |                                     | Im  | 1gn   |      |                    |
| im4gn.large <sup>1</sup>       | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 5000.00 /<br>40000.00                         | ✓    | default            |
| im4gn.xlarge                   | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 10000.00 /<br>40000.00                        | ✓    | default            |
| im4gn.2xl<br>arge <sup>1</sup> | 5000.00 /<br>10000.00               | 625.00 /<br>1250.00                               | 20000.00 /<br>40000.00                        | ✓    | default            |
| im4gn.4xl<br>arge              | 10000.00                            | 1250.00   | 40000.00                                      | ✓    | default            |
| im4gn.8xl<br>arge              | 20000.00                            | 2500.00   | 80000.00                                      | ✓    | default            |
| im4gn.16x<br>large             | 40000.00                            | 5000.00   | 160000.00                                     | ✓    | default            |
|                                |                                     | ls4   | gen   |      |                    |
| is4gen.me<br>dium <sup>1</sup> | 625.00 /<br>10000.00                | 78.12 /<br>1250.00                                | 2500.00 /<br>40000.00                         | ✓    | default            |
| is4gen.large <sup>1</sup>      | 1250.00 /<br>10000.00               | 156.25 /<br>1250.00                               | 5000.00 /<br>40000.00                         | ✓    | default            |
| is4gen.xlarge<br>1             | 2500.00 /<br>10000.00               | 312.50 /<br>1250.00                               | 10000.00 /<br>40000.00                        | ✓    | default            |

| Instance<br>type                | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------------|--|---|---|------|--------------------|
| is4gen.2x<br>large <sup>1</sup> | 5000.00 /<br>10000.00                        | 625.00 /<br>1250.00   | 20000.00 /<br>40000.00                        | ✓    | default            |
| is4gen.4x<br>large              | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| is4gen.8x<br>large              | 20000.00                                     | 2500.00   | 80000.00                                      | ✓    | default            |

#### Note

### **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |  |  |  |  |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|--|--|--|--|
| D2            |                              |                           |                                 |  |                      |  |  |  |  |
| d2.xlarge     | 3 x 2048 GB                  | HDD                       |                                 | ✓  |                      |  |  |  |  |
| d2.2xlarge    | 6 x 2048 GB                  | HDD                       |                                 | ✓  |                      |  |  |  |  |

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>&</sup>lt;sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| d2.4xlarge    | 12 x 2048<br>GB              | HDD                       |                                 | ✓  |                      |
| d2.8xlarge    | 24 x 2048<br>GB              | HDD                       |                                 | ✓  |                      |
|               |                              | D                         | 3                               |  |                      |
| d3.xlarge     | 3 x 1980 GB                  | NVMe<br>HDD               |                                 |  | ✓                    |
| d3.2xlarge    | 6 x 1980 GB                  | NVMe<br>HDD               |                                 |  | ✓                    |
| d3.4xlarge    | 12 x 1980<br>GB              | NVMe<br>HDD               |                                 |  | ✓                    |
| d3.8xlarge    | 24 x 1980<br>GB              | NVMe<br>HDD               |                                 |  | ✓                    |
|               |                              | D3                        | en                              |  |                      |
| d3en.xlarge   | 2 x 13980<br>GB              | NVMe<br>HDD               |                                 |  | ✓                    |
| d3en.2xlarge  | 4 x 13980<br>GB              | NVMe<br>HDD               |                                 |  | ✓                    |
| d3en.4xlarge  | 8 x 13980<br>GB              | NVMe<br>HDD               |                                 |  | ✓                    |
| d3en.6xlarge  | 12 x 13980<br>GB             | NVMe<br>HDD               |                                 |  | ✓                    |
| d3en.8xlarge  | 16 x 13980<br>GB             | NVMe<br>HDD               |                                 |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| d3en.12xlarge | 24 x 13980<br>GB             | NVMe<br>HDD               |                                 |  | ✓                    |
|               |                              | H                         | <b>I</b> 1                      |  |                      |
| h1.2xlarge    | 1 x 2000 GB                  | HDD                       |                                 | ✓  |                      |
| h1.4xlarge    | 2 x 2000 GB                  | HDD                       |                                 | ✓  |                      |
| h1.8xlarge    | 4 x 2000 GB                  | HDD                       |                                 | ✓  |                      |
| h1.16xlarge   | 8 x 2000 GB                  | HDD                       |                                 | ✓  |                      |
|               |                              | ı                         | 3                               |  |                      |
| i3.large      | 1 x 475 GB                   | NVMe<br>SSD               | 103,125 / 35,000                |  | ✓                    |
| i3.xlarge     | 1 x 950 GB                   | NVMe<br>SSD               | 206,250 / 70,000                |  | ✓                    |
| i3.2xlarge    | 1 x 1900 GB                  | NVMe<br>SSD               | 412,500 / 180,000               |  | ✓                    |
| i3.4xlarge    | 2 x 1900 GB                  | NVMe<br>SSD               | 825,000 / 360,000               |  | ✓                    |
| i3.8xlarge    | 4 x 1900 GB                  | NVMe<br>SSD               | 1,650,000 /<br>720,000          |  | ✓                    |
| i3.16xlarge   | 8 x 1900 GB                  | NVMe<br>SSD               | 3,300,000 /<br>1,440,000        |  | ✓                    |
| i3.metal      | 8 x 1900 GB                  | NVMe<br>SSD               | 3,300,000 /<br>1,440,000        |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
|               |                              |                           |                                 |  |                      |
| i3en.large    | 1 x 1250 GB                  | NVMe<br>SSD               | 42,500 / 32,500                 |  | ✓                    |
| i3en.xlarge   | 1 x 2500 GB                  | NVMe<br>SSD               | 85,000 / 65,000                 |  | ✓                    |
| i3en.2xlarge  | 2 x 2500 GB                  | NVMe<br>SSD               | 170,000 / 130,000               |  | ✓                    |
| i3en.3xlarge  | 1 x 7500 GB                  | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| i3en.6xlarge  | 2 x 7500 GB                  | NVMe<br>SSD               | 500,000 / 400,000               |  | ✓                    |
| i3en.12xlarge | 4 x 7500 GB                  | NVMe<br>SSD               | 1,000,000 /<br>800,000          |  | ✓                    |
| i3en.24xlarge | 8 x 7500 GB                  | NVMe<br>SSD               | 2,000,000 /<br>1,600,000        |  | ✓                    |
| i3en.metal    | 8 x 7500 GB                  | NVMe<br>SSD               | 2,000,000 /<br>1,600,000        |  | ✓                    |
|               |                              | 14                        | <del>l</del> g                  |  |                      |
| i4g.large     | 1 x 468 GB                   | NVMe<br>SSD               | 31,250 / 25,000                 |  | ✓                    |
| i4g.xlarge    | 1 x 937 GB                   | NVMe<br>SSD               | 62,500 / 50,000                 |  | ✓                    |
| i4g.2xlarge   | 1 x 1875 GB                  | NVMe<br>SSD               | 125,000 / 100,000               |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| i4g.4xlarge   | 1 x 3750 GB                  | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| i4g.8xlarge   | 2 x 3750 GB                  | NVMe<br>SSD               | 500,000 / 400,000               |  | ✓                    |
| i4g.16xlarge  | 4 x 3750 GB                  | NVMe<br>SSD               | 1,000,000 /<br>800,000          |  | ✓                    |
|               |                              | 14                        | 4i                              |  |                      |
| i4i.large     | 1 x 468 GB                   | NVMe<br>SSD               | 50,000 / 27,500                 |  | ✓                    |
| i4i.xlarge    | 1 x 937 GB                   | NVMe<br>SSD               | 100,000 / 55,000                |  | ✓                    |
| i4i.2xlarge   | 1 x 1875 GB                  | NVMe<br>SSD               | 200,000 / 110,000               |  | ✓                    |
| i4i.4xlarge   | 1 x 3750 GB                  | NVMe<br>SSD               | 400,000 / 220,000               |  | ✓                    |
| i4i.8xlarge   | 2 x 3750 GB                  | NVMe<br>SSD               | 800,000 / 440,000               |  | ✓                    |
| i4i.12xlarge  | 3 x 3750 GB                  | NVMe<br>SSD               | 1,200,000 /<br>660,000          |  | ✓                    |
| i4i.16xlarge  | 4 x 3750 GB                  | NVMe<br>SSD               | 1,600,000 /<br>880,000          |  | ✓                    |
| i4i.24xlarge  | 6 x 3750 GB                  | NVMe<br>SSD               | 2,400,000 /<br>1,320,000        |  | ✓                    |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| i4i.32xlarge   | 8 x 3750 GB                  | NVMe<br>SSD               | 3,200,000 /<br>1,760,000        |  | ✓                    |
| i4i.metal      | 8 x 3750 GB                  | NVMe<br>SSD               | 3,200,000 /<br>1,760,000        |  | ✓                    |
|                |                              | lm                        | 4gn                             |  |                      |
| im4gn.large    | 1 x 937 GB                   | NVMe<br>SSD               | 31,250 / 25,000                 |  | ✓                    |
| im4gn.xlarge   | 1 x 1875 GB                  | NVMe<br>SSD               | 62,500 / 50,000                 |  | ✓                    |
| im4gn.2xlarge  | 1 x 3750 GB                  | NVMe<br>SSD               | 125,000 / 100,000               |  | ✓                    |
| im4gn.4xlarge  | 1 x 7500 GB                  | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| im4gn.8xlarge  | 2 x 7500 GB                  | NVMe<br>SSD               | 500,000 / 400,000               |  | ✓                    |
| im4gn.16xlarge | 4 x 7500 GB                  | NVMe<br>SSD               | 1,000,000 /<br>800,000          |  | ✓                    |
|                |                              | ls4                       | gen                             |  |                      |
| is4gen.medium  | 1 x 937 GB                   | NVMe<br>SSD               | 31,250 / 25,000                 |  | ✓                    |
| is4gen.large   | 1 x 1875 GB                  | NVMe<br>SSD               | 62,500 / 50,000                 |  | ✓                    |
| is4gen.xlarge  | 1 x 3750 GB                  | NVMe<br>SSD               | 125,000 / 100,000               |  | ✓                    |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM support 2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------|
| is4gen.2xlarge | 1 x 7500 GB                  | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓              |
| is4gen.4xlarge | 2 x 7500 GB                  | NVMe<br>SSD               | 500,000 / 400,000               |  | ✓              |
| is4gen.8xlarge | 4 x 7500 GB                  | NVMe<br>SSD               | 1,000,000 /<br>800,000          |  | ✓              |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

### **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | D2                           |                |          |                   |
| d2.xlarge     | ✓                     | x                                   | x                            | x              | x        | x                 |
| d2.2xlarge    | ✓                     | X                                   | X                            | x              | X        | x                 |
| d2.4xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |
| d2.8xlarge    | ✓                     | X                                   | X                            | x              | X        | x                 |
|               |                       |                                     | D3                           |                |          |                   |
| d3.xlarge     | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |

<sup>&</sup>lt;sup>2</sup> For more information, see <u>Instance store volume TRIM support</u>.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| d3.2xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| d3.4xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| d3.8xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| D3en          |                       |                                     |                              |                |          |                   |  |
| d3en.xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| d3en.2xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| d3en.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| d3en.6xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| d3en.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| d3en.12xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
|               |                       |                                     | Н1                           |                |          |                   |  |
| h1.2xlarge    | ✓                     | ✓                                   | x                            | X              | X        | x                 |  |
| h1.4xlarge    | ✓                     | ✓                                   | x                            | X              | X        | x                 |  |
| h1.8xlarge    | ✓                     | ✓                                   | x                            | X              | X        | x                 |  |
| h1.16xlarge   | ✓                     | ✓                                   | x                            | X              | x        | x                 |  |
| 13            |                       |                                     |                              |                |          |                   |  |
| i3.large      | ✓                     | ✓                                   | X                            | X              | X        | x                 |  |
| i3.xlarge     | ✓                     | ✓                                   | X                            | X              | X        | x                 |  |
| i3.2xlarge    | ✓                     | ✓                                   | X                            | X              | X        | x                 |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| i3.4xlarge    | ✓                     | ✓                                   | x                            | X              | X        | x                 |  |
| i3.8xlarge    | ✓                     | ✓                                   | x                            | x              | x        | x                 |  |
| i3.16xlarge   | ✓                     | ✓                                   | X                            | X              | X        | X                 |  |
| i3.metal      | ✓                     | ✓                                   | x                            | x              | x        | x                 |  |
| l3en          |                       |                                     |                              |                |          |                   |  |
| i3en.large    | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |  |
| i3en.xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i3en.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i3en.3xlarge  | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i3en.6xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i3en.12xlarge | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i3en.24xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i3en.metal    | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |
| I4g           |                       |                                     |                              |                |          |                   |  |
| i4g.large     | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |  |
| i4g.xlarge    | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |  |
| i4g.2xlarge   | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |  |
| i4g.4xlarge   | ✓                     | ✓                                   | ✓                            | X              | x        | ✓                 |  |
| i4g.8xlarge   | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |  |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| i4g.16xlarge   | ✓                     | ✓                                   | ✓                            | x              | X        | ✓                 |  |
| I4i            |                       |                                     |                              |                |          |                   |  |
| i4i.large      | ✓                     | ✓                                   | ✓                            | X              | ✓        | x                 |  |
| i4i.xlarge     | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i4i.2xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i4i.4xlarge    | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i4i.8xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i4i.12xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i4i.16xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i4i.24xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |
| i4i.32xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |
| i4i.metal      | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |
| lm4gn          |                       |                                     |                              |                |          |                   |  |
| im4gn.large    | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |
| im4gn.xlarge   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |
| im4gn.2xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |
| im4gn.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |
| im4gn.8xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |
| im4gn.16xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |  |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|--|--|
| ls4gen         |                       |                                     |                              |                |          |                   |  |  |  |  |  |
| is4gen.medium  | ✓                     | ✓                                   | ✓                            | x              | x        | X                 |  |  |  |  |  |
| is4gen.large   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |  |  |  |  |
| is4gen.xlarge  | ✓                     | ✓                                   | ✓                            | X              | x        | X                 |  |  |  |  |  |
| is4gen.2xlarge | ✓                     | ✓                                   | ✓                            | X              | x        | x                 |  |  |  |  |  |
| is4gen.4xlarge | ✓                     | ✓                                   | ✓                            | X              | x        | X                 |  |  |  |  |  |
| is4gen.8xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |  |  |  |  |

## **Accelerated computing instances**

Accelerated computing instances use hardware accelerators, or co-processors, to perform functions, such as floating point number calculations, graphics processing, or data pattern matching, more efficiently than is possible in software running on CPUs.

### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

Accelerated computing 284

# **Available sizes**

| Instance<br>type | Available sizes   |
|------------------|---|
| DL1              | dl1.24xlarge  |
| DL2q             | dl2q.24xlarge   |
| F1               | f1.2xlarge   f1.4xlarge   f1.16xlarge   |
| G3               | g3.4xlarge  g3.8xlarge  g3.16xlarge   |
| G4ad             | g4ad.xlarge  g4ad.2xlarge  g4ad.4xlarge  g4ad.8xlarge  g4ad.16xlarge                                  |
| G4dn             | g4dn.xlarge  g4dn.2xlarge  g4dn.4xlarge  g4dn.8xlarge  g4dn.12xlarge  g4dn.16xlarge  g4dn.metal       |
| G5               | g5.xlarge  g5.2xlarge  g5.4xlarge  g5.8xlarge  g5.12xlarge  g5.16xlarge  g5.24xlarge  g5.48xlarge     |
| G5g              | g5g.xlarge  g5g.2xlarge  g5g.4xlarge  g5g.8xlarge  g5g.16xlarge  g5g.metal                            |
| G6               | g6.xlarge  g6.2xlarge  g6.4xlarge  g6.8xlarge  g6.12xlarge  <br>g6.16xlarge  g6.24xlarge  g6.48xlarge |
| Gr6              | gr6.4xlarge   gr6.8xlarge   |
| Inf1             | <pre>inf1.xlarge  inf1.2xlarge  inf1.6xlarge  inf1.24xlarge</pre>                                     |
| Inf2             | <pre>inf2.xlarge  inf2.8xlarge  inf2.24xlarge  inf2.48xlarge</pre>                                    |
| P2               | p2.xlarge  p2.8xlarge  p2.16xlarge  |
| P3               | p3.2xlarge  p3.8xlarge  p3.16xlarge   |
| P3dn             | p3dn.24xlarge   |

Available sizes 285

| Instance<br>type | Available sizes                        |
|------------------|--|
| P4d              | p4d.24xlarge                           |
| P4de             | p4de.24xlarge                          |
| P5               | p5.48xlarge                            |
| Trn1             | trn1.2xlarge  trn1.32xlarge            |
| Trn1n            | trn1n.32xlarge                         |
| VT1              | vt1.3xlarge  vt1.6xlarge  vt1.24xlarge |

# **Platform summary**

| Instance<br>type | Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| DL1              | Nitro         | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Linux                       |
| DL2q             | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | X               | X                       | Linux                       |
| F1               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Linux                       |
| G3               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| G4ad             | Nitro         | AMD<br>(x86_64)                         | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |

Platform summary 286

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| G4dn             | Nitro         | Intel<br>(x86_64)                       | ✓                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| G5               | Nitro         | AMD<br>(x86_64)                         | X                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| G5g              | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| G6               | Nitro         | AMD<br>(x86_64)                         | X                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| Gr6              | Nitro         | AMD<br>(x86_64)                         | X                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| Inf1             | Nitro         | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | x                       | Linux                       |
| Inf2             | Nitro         | AMD<br>(x86_64)                         | X                               | ✓                            | ✓               | x                       | Linux                       |
| P2               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| P3               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Windows<br>  Linux          |
| P3dn             | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | ✓               | X                       | Windows<br>  Linux          |
| P4d              | Nitro         | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | X                       | Linux                       |

Platform summary 287

| Instance<br>type | Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| P4de             | Nitro         | Intel<br>(x86_64)                       | x                               | ✓                            | X               | x                       | Linux                       |
| P5               | Nitro         | AMD<br>(x86_64)                         | x                               | ✓                            | ✓               | x                       | Linux                       |
| Trn1             | Nitro         | Intel<br>(x86_64)                       | x                               | ✓                            | ✓               | x                       | Linux                       |
| Trn1n            | Nitro         | Intel<br>(x86_64)                       | x                               | X                            | ✓               | x                       | Linux                       |
| VT1              | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | ✓               | X                       | Linux                       |

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors                |  |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------------|---------------------------------|--|
|               |           |                 | DL1                        |       |              |                        |                                 |  |
| dl1.24xlarge  | X         | 768.00          | Intel Xeon<br>P-8275CL     | 96    | 48           | 2                      | 8 x GPU                         |  |
| DL2q          |           |                 |                            |       |              |                        |                                 |  |
| dl2q.24xlarge | x         | 768.00          | Intel Xeon<br>Cascade Lake | 96    | 48           | 2                      | 8 x<br>inference<br>accelerator |  |
|               |           |                 | F1                         |       |              |                        |                                 |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|--------------------------|-------|--------------|------------------------|------------------|
| f1.2xlarge    | X         | 122.00          | Intel Xeon<br>E5-2686v4  | 8     | 4            | 2                      | 1 x FPGA         |
| f1.4xlarge    | X         | 244.00          | Intel Xeon<br>E5-2686v4  | 16    | 8            | 2                      | 2 x FPGA         |
| f1.16xlarge   | X         | 976.00          | Intel Xeon<br>E5-2686v4  | 64    | 32           | 2                      | 8 x FPGA         |
|               |           |                 | G3                       |       |              |                        |                  |
| g3.4xlarge    | X         | 122.00          | Intel Xeon<br>E5-2686 v4 | 16    | 8            | 2                      | 1 x GPU          |
| g3.8xlarge    | X         | 244.00          | Intel Xeon<br>E5-2686 v4 | 32    | 16           | 2                      | 2 x GPU          |
| g3.16xlarge   | X         | 488.00          | Intel Xeon<br>E5-2686 v4 | 64    | 32           | 2                      | 4 x GPU          |
|               |           |                 | G4ad                     |       |              |                        |                  |
| g4ad.xlarge   | X         | 16.00           | 2nd Gen AMD<br>EPYC 7R32 | 4     | 2            | 2                      | 1 x GPU          |
| g4ad.2xlarge  | X         | 32.00           | 2nd Gen AMD<br>EPYC 7R32 | 8     | 4            | 2                      | 1 x GPU          |
| g4ad.4xlarge  | X         | 64.00           | 2nd Gen AMD<br>EPYC 7R32 | 16    | 8            | 2                      | 1 x GPU          |
| g4ad.8xlarge  | X         | 128.00          | 2nd Gen AMD<br>EPYC 7R32 | 32    | 16           | 2                      | 2 x GPU          |
| g4ad.16xlarge | X         | 256.00          | 2nd Gen AMD<br>EPYC 7R32 | 64    | 32           | 2                      | 4 x GPU          |

| Instance type | Burstable | Memory<br>(GiB) | Processor                | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |  |  |  |
|---------------|-----------|-----------------|--------------------------|-------|--------------|------------------------|------------------|--|--|--|
| G4dn          |           |                 |                          |       |              |                        |                  |  |  |  |
| g4dn.xlarge   | X         | 16.00           | Intel Xeon<br>P-8259L    | 4     | 2            | 2                      | 1 x GPU          |  |  |  |
| g4dn.2xlarge  | X         | 32.00           | Intel Xeon<br>P-8259L    | 8     | 4            | 2                      | 1 x GPU          |  |  |  |
| g4dn.4xlarge  | X         | 64.00           | Intel Xeon<br>P-8259L    | 16    | 8            | 2                      | 1 x GPU          |  |  |  |
| g4dn.8xlarge  | X         | 128.00          | Intel Xeon<br>P-8259L    | 32    | 16           | 2                      | 1 x GPU          |  |  |  |
| g4dn.12xlarge | X         | 192.00          | Intel Xeon<br>P-8259L    | 48    | 24           | 2                      | 4 x GPU          |  |  |  |
| g4dn.16xlarge | X         | 256.00          | Intel Xeon<br>P-8259L    | 64    | 32           | 2                      | 1 x GPU          |  |  |  |
| g4dn.metal    | X         | 384.00          | Intel Xeon<br>P-8259L    | 96    | 48           | 2                      | 8 x GPU          |  |  |  |
|               |           |                 | G5                       |       |              |                        |                  |  |  |  |
| g5.xlarge     | X         | 16.00           | 2nd Gen AMD<br>EPYC 7R32 | 4     | 2            | 2                      | 1 x GPU          |  |  |  |
| g5.2xlarge    | X         | 32.00           | 2nd Gen AMD<br>EPYC 7R32 | 8     | 4            | 2                      | 1 x GPU          |  |  |  |
| g5.4xlarge    | X         | 64.00           | 2nd Gen AMD<br>EPYC 7R32 | 16    | 8            | 2                      | 1 x GPU          |  |  |  |
| g5.8xlarge    | X         | 128.00          | 2nd Gen AMD<br>EPYC 7R32 | 32    | 16           | 2                      | 1 x GPU          |  |  |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                  | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |  |  |
|---------------|-----------|-----------------|----------------------------|-------|--------------|------------------|------------------|--|--|
| g5.12xlarge   | X         | 192.00          | 2nd Gen AMD<br>EPYC 7R32   | 48    | 24           | 2                | 4 x GPU          |  |  |
| g5.16xlarge   | X         | 256.00          | 2nd Gen AMD<br>EPYC 7R32   | 64    | 32           | 2                | 1 x GPU          |  |  |
| g5.24xlarge   | X         | 384.00          | 2nd Gen AMD<br>EPYC 7R32   | 96    | 48           | 2                | 4 x GPU          |  |  |
| g5.48xlarge   | X         | 768.00          | 2nd Gen AMD<br>EPYC 7R32   | 192   | 96           | 2                | 8 x GPU          |  |  |
| G5g           |           |                 |                            |       |              |                  |                  |  |  |
| g5g.xlarge    | X         | 8.00            | AWS Graviton2<br>Processor | 4     | 4            | 1                | 1 x GPU          |  |  |
| g5g.2xlarge   | X         | 16.00           | AWS Graviton2<br>Processor | 8     | 8            | 1                | 1 x GPU          |  |  |
| g5g.4xlarge   | X         | 32.00           | AWS Graviton2<br>Processor | 16    | 16           | 1                | 1 x GPU          |  |  |
| g5g.8xlarge   | X         | 64.00           | AWS Graviton2<br>Processor | 32    | 32           | 1                | 1 x GPU          |  |  |
| g5g.16xlarge  | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | 2 x GPU          |  |  |
| g5g.metal     | X         | 128.00          | AWS Graviton2<br>Processor | 64    | 64           | 1                | 2 x GPU          |  |  |
|               |           |                 | G6                         |       |              |                  |                  |  |  |
| g6.xlarge     | X         | 16.00           | AMD EPYC<br>7R13           | 4     | 2            | 2                | 1 x GPU          |  |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor             | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors                |
|---------------|-----------|-----------------|-----------------------|-------|--------------|------------------------|---------------------------------|
| g6.2xlarge    | X         | 32.00           | AMD EPYC<br>7R13      | 8     | 4            | 2                      | 1 x GPU                         |
| g6.4xlarge    | X         | 64.00           | AMD EPYC<br>7R13      | 16    | 8            | 2                      | 1 x GPU                         |
| g6.8xlarge    | X         | 128.00          | AMD EPYC<br>7R13      | 32    | 16           | 2                      | 1 x GPU                         |
| g6.12xlarge   | X         | 192.00          | AMD EPYC<br>7R13      | 48    | 24           | 2                      | 4 x GPU                         |
| g6.16xlarge   | X         | 256.00          | AMD EPYC<br>7R13      | 64    | 32           | 2                      | 1 x GPU                         |
| g6.24xlarge   | X         | 384.00          | AMD EPYC<br>7R13      | 96    | 48           | 2                      | 4 x GPU                         |
| g6.48xlarge   | X         | 768.00          | AMD EPYC<br>7R13      | 192   | 96           | 2                      | 8 x GPU                         |
|               |           |                 | Gr6                   |       |              |                        |                                 |
| gr6.4xlarge   | X         | 128.00          | AMD EPYC<br>7R13      | 16    | 8            | 2                      | 1 x GPU                         |
| gr6.8xlarge   | X         | 256.00          | AMD EPYC<br>7R13      | 32    | 16           | 2                      | 1 x GPU                         |
|               |           |                 | Inf1                  |       |              |                        |                                 |
| inf1.xlarge   | X         | 8.00            | Intel Xeon<br>P-8259L | 4     | 2            | 2                      | 1 x<br>inference<br>accelerator |

| Instance type | Burstable | Memory<br>(GiB) | Processor               | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors                 |  |  |
|---------------|-----------|-----------------|-------------------------|-------|--------------|------------------------|----------------------------------|--|--|
| inf1.2xlarge  | X         | 16.00           | Intel Xeon<br>P-8259L   | 8     | 4            | 2                      | 1 x<br>inference<br>accelerator  |  |  |
| inf1.6xlarge  | X         | 48.00           | Intel Xeon<br>P-8259L   | 24    | 12           | 2                      | 4 x<br>inference<br>accelerator  |  |  |
| inf1.24xlarge | X         | 192.00          | Intel Xeon<br>P-8259L   | 96    | 48           | 2                      | 16 x<br>inference<br>accelerator |  |  |
| Inf2          |           |                 |                         |       |              |                        |                                  |  |  |
| inf2.xlarge   | X         | 16.00           | AMD EPYC<br>7R13        | 4     | 2            | 2                      | 1 x<br>inference<br>accelerator  |  |  |
| inf2.8xlarge  | X         | 128.00          | AMD EPYC<br>7R13        | 32    | 16           | 2                      | 1 x<br>inference<br>accelerator  |  |  |
| inf2.24xlarge | X         | 384.00          | AMD EPYC<br>7R13        | 96    | 48           | 2                      | 6 x<br>inference<br>accelerator  |  |  |
| inf2.48xlarge | x         | 768.00          | AMD EPYC<br>7R13        | 192   | 96           | 2                      | 12 x<br>inference<br>accelerator |  |  |
|               |           |                 | P2                      |       |              |                        |                                  |  |  |
| p2.xlarge     | X         | 61.00           | Intel Xeon<br>E5-2686v4 | 4     | 2            | 2                      | 1 x GPU                          |  |  |

| Instance type | Burstable | Memory<br>(GiB) | Processor                   | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-----------------------------|-------|--------------|------------------------|------------------|
| p2.8xlarge    | X         | 488.00          | Intel Xeon<br>E5-2686v4     | 32    | 16           | 2                      | 8 x GPU          |
| p2.16xlarge   | X         | 732.00          | Intel Xeon<br>E5-2686 v4    | 64    | 32           | 2                      | 16 x GPU         |
|               |           |                 | Р3                          |       |              |                        |                  |
| p3.2xlarge    | X         | 61.00           | Intel Xeon<br>E5-2686 v4    | 8     | 4            | 2                      | 1 x GPU          |
| p3.8xlarge    | X         | 244.00          | Intel Xeon<br>E5-2686 v4    | 32    | 16           | 2                      | 4 x GPU          |
| p3.16xlarge   | X         | 488.00          | Intel Xeon<br>E5-2686 v4    | 64    | 32           | 2                      | 8 x GPU          |
|               |           |                 | P3dn                        |       |              |                        |                  |
| p3dn.24xlarge | X         | 768.00          | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | 8 x GPU          |
|               |           |                 | P4d                         |       |              |                        |                  |
| p4d.24xlarge  | X         | 1152.00         | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | 8 x GPU          |
|               |           |                 | P4de                        |       |              |                        |                  |
| p4de.24xlarge | X         | 1152.00         | Intel Xeon<br>Platinum 8175 | 96    | 48           | 2                      | 8 x GPU          |
|               |           |                 | P5                          |       |              |                        |                  |
| p5.48xlarge   | X         | 2048.00         | AMD EPYC<br>7R13            | 192   | 96           | 2                      | 8 x GPU          |

| Instance type      | Burstable | Memory<br>(GiB) | Processor                      | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|--------------------|-----------|-----------------|--------------------------------|-------|--------------|------------------------|------------------|
|                    |           |                 | Trn1                           |       |              |                        |                  |
| trn1.2xlarge       | X         | 32.00           | Intel Xeon Ice<br>Lake 8375C   | 8     | 4            | 2                      | X                |
| trn1.32xlarge      | X         | 512.00          | Intel Xeon Ice<br>Lake 8375C   | 128   | 64           | 2                      | X                |
|                    |           |                 | Trn1n                          |       |              |                        |                  |
| trn1n.32x<br>large | X         | 512.00          | Intel Xeon Ice<br>Lake         | 128   | 64           | 2                      | X                |
|                    |           |                 | VT1                            |       |              |                        |                  |
| vt1.3xlarge        | X         | 24.00           | Intel Cascade<br>Lake P-8259CL | 12    | 6            | 2                      | X                |
| vt1.6xlarge        | X         | 48.00           | Intel Cascade<br>Lake P-8259CL | 24    | 12           | 2                      | X                |
| vt1.24xlarge       | X         | 192.00          | Intel Cascade<br>Lake P-8259CL | 96    | 48           | 2                      | x                |

### Note

trn1n.32xlarge instances feature 16 Trainium Accelerators.Trn1 instances feature the following number of Trainium Accelerators.

- trn1.2xlarge 1
- trn1.32xlarge 16

**VT1** instances feature the following number of U30 Accelerators.

- vt1.3xlarge 1
- vt1.6xlarge 2
- vt1.24xlarge 16

# **Network specifications**

| Instance type           | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                         |                                   |     |     | DL1            |                  |                                   |                                     |      |
| dl1.24xlarge            | 4x 100<br>Gigabit                 | ✓   | ✓   | X              | 4                | 60                                | 50                                  | ✓    |
|                         |                                   |     |     | DL2q           |                  |                                   |                                     |      |
| dl2q.24xlarge           | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                         |                                   |     |     | F1             |                  |                                   |                                     |      |
| f1.2xlarge <sup>1</sup> | Up to 10<br>Gigabit               | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| f1.4xlarge <sup>1</sup> | Up to 10<br>Gigabit               | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| f1.16xlarge             | 25 Gigabit                        | x   | ✓   | X              | 1                | 8                                 | 50                                  | ✓    |
|                         |                                   |     |     | G3             |                  |                                   |                                     |      |
| g3.4xlarge <sup>1</sup> | Up to 10<br>Gigabit               | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g3.8xlarge              | 10 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| g3.16xlarge               | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     |     | G4ad           |                  |                                   |                                     |      |
| g4ad.xlarge <sup>1</sup>  | 2.0 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| g4ad.2xlarge <sup>1</sup> | 4.167 / 10.0                      | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| g4ad.4xlarge <sup>1</sup> | 8.333 / 10.0                      | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| g4ad.8xlarge              | 15 Gigabit                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g4ad.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
|                           |                                   |     |     | G4dn           |                  |                                   |                                     |      |
| g4dn.xlarge <sup>1</sup>  | 5.0 / 25.0                        | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| g4dn.2xlarge<br>1         | 10.0 / 25.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| g4dn.4xlarge<br>1         | 20.0 / 25.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| g4dn.8xlarge              | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g4dn.12xlarge             | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g4dn.16xlarge             | 50 Gigabit                        | ✓   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| g4dn.metal                | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     |     | G5             |                  |                                   |                                     |      |
| g5.xlarge <sup>1</sup>    | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type            | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| g5.2xlarge <sup>1</sup>  | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g5.4xlarge <sup>1</sup>  | 10.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g5.8xlarge               | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g5.12xlarge              | 40 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| g5.16xlarge              | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g5.24xlarge              | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| g5.48xlarge              | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 7                                 | 50                                  | ✓    |
|                          |                                   |     |     | G5g            |                  |                                   |                                     |      |
| g5g.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g5g.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g5g.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g5g.8xlarge              | 12 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g5g.16xlarge             | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| g5g.metal                | 25 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                          |                                   |     |     | G6             |                  |                                   |                                     |      |
| g6.xlarge <sup>1</sup>   | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| g6.2xlarge <sup>1</sup>  | 5.0 / 10.0                        | x   | ✓   | x              | 1                | 4                                 | 15                                  | ✓    |
| g6.4xlarge <sup>1</sup>  | 10.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g6.8xlarge               | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| g6.12xlarge               | 40 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| g6.16xlarge               | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| g6.24xlarge               | 50 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| g6.48xlarge               | 100 Gigabit                       | ✓   | ✓   | ✓              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     |     | Gr6            |                  |                                   |                                     |      |
| gr6.4xlarge <sup>1</sup>  | 10.0 / 25.0                       | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| gr6.8xlarge               | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
|                           |                                   |     |     | Inf1           |                  |                                   |                                     |      |
| inf1.xlarge <sup>1</sup>  | 5.0 / 25.0                        | x   | ✓   | X              | 1                | 4                                 | 10                                  | ✓    |
| inf1.2xlarge <sup>1</sup> | 5.0 / 25.0                        | X   | ✓   | X              | 1                | 4                                 | 10                                  | ✓    |
| inf1.6xlarge              | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| inf1.24xlarge             | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 11                                | 30                                  | ✓    |
|                           |                                   |     |     | Inf2           |                  |                                   |                                     |      |
| inf2.xlarge <sup>1</sup>  | 2.083 / 15.0                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| inf2.8xlarge <sup>1</sup> | 16.667 / 25.0                     | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| inf2.24xlarge             | 50 Gigabit                        | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
| inf2.48xlarge             | 100 Gigabit                       | X   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     |     | P2             |                  |                                   |                                     |      |
| p2.xlarge                 | High                              | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type             | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| p2.8xlarge                | 10 Gigabit                        | X   | ✓   | x              | 1                | 8                                 | 30                                  | ✓    |
| p2.16xlarge               | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
|                           |                                   |     |     | Р3             |                  |                                   |                                     |      |
| p3.2xlarge <sup>1</sup>   | Up to 10<br>Gigabit               | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| p3.8xlarge                | 10 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| p3.16xlarge               | 25 Gigabit                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
|                           |                                   |     |     | P3dn           |                  |                                   |                                     |      |
| p3dn.24xlarge             | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |
|                           |                                   |     |     | P4d            |                  |                                   |                                     |      |
| p4d.24xlarge              | 4x 100<br>Gigabit                 | ✓   | ✓   | X              | 4                | 60                                | 50                                  | ✓    |
|                           |                                   |     |     | P4de           |                  |                                   |                                     |      |
| p4de.24xlarge             | 4x 100<br>Gigabit                 | ✓   | ✓   | X              | 4                | 60                                | 50                                  | ✓    |
|                           |                                   |     |     | P5             |                  |                                   |                                     |      |
| p5.48xlarge               | 3200 Gigabit                      | ✓   | ✓   | X              | 32               | 64                                | 50                                  | ✓    |
|                           |                                   |     |     | Trn1           |                  |                                   |                                     |      |
| trn1.2xlarge <sup>1</sup> | 3.125 / 12.5                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |

| Instance type      | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|--------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
| trn1.32xlarge      | 8x 100<br>Gigabit                 | ✓   | ✓   | X              | 8                | 40                                | 50                                  | ✓    |
|                    |                                   |     | -   | Trn1n          |                  |                                   |                                     |      |
| trn1n.32x<br>large | 16x 100<br>Gigabit                | ✓   | ✓   | X              | 16               | 80                                | 50                                  | ✓    |
|                    |                                   |     |     | VT1            |                  |                                   |                                     |      |
| vt1.3xlarge        | 3.12 Gigabit                      | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| vt1.6xlarge        | 6.25 Gigabit                      | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| vt1.24xlarge       | 25 Gigabit                        | ✓   | ✓   | X              | 1                | 15                                | 50                                  | ✓    |

### Note

<sup>&</sup>lt;sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

# **Amazon EBS specifications**

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS optimization 2 |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--------------------|
|                          |                                     | D   | L1                                   |      |                    |
| dl1.24xlarge             | 19000.00                            | 2375.00   | 80000.00                             | ✓    | default            |
|                          |                                     | DL  | 2q                                   |      |                    |
| dl2q.24xl<br>arge        | 19000.00                            | 2375.00   | 80000.00                             | ✓    | default            |
|                          |                                     | F   | 1                                    |      |                    |
| f1.2xlarge               | 1700.00                             | 212.50  | 12000.00                             | X    | default            |
| f1.4xlarge               | 3500.00                             | 437.50  | 44000.00                             | X    | default            |
| f1.16xlarge              | 14000.00                            | 1750.00   | 75000.00                             | X    | default            |
|                          |                                     | G   | 3                                    |      |                    |
| g3.4xlarge               | 3500.00                             | 437.50  | 20000.00                             | X    | default            |
| g3.8xlarge               | 7000.00                             | 875.00  | 40000.00                             | X    | default            |
| g3.16xlarge              | 14000.00                            | 1750.00   | 80000.00                             | X    | default            |
|                          |                                     | G4  | ad                                   |      |                    |
| g4ad.xlarge <sup>1</sup> | 400.00 /<br>3170.00                 | 50.00 /<br>396.25                                 | 1700.00 /<br>13333.00                | ✓    | default            |
| g4ad.2xlarge<br>1        | 800.00 /<br>3170.00                 | 100.00 /<br>396.25                                | 3400.00 /<br>13333.00                | ✓    | default            |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| g4ad.4xlarge             | 1580.00 /<br>3170.00                         | 197.50 /<br>396.25                                | 6700.00 /<br>13333.00                         | ✓    | default            |
| g4ad.8xlarge             | 3170.00                                      | 396.25  | 13333.00                                      | ✓    | default            |
| g4ad.16xl<br>arge        | 6300.00                                      | 787.50  | 26667.00                                      | ✓    | default            |
|                          |  | G4  | dn  |      |                    |
| g4dn.xlarge <sup>1</sup> | 950.00 /<br>3500.00                          | 118.75 /<br>437.50                                | 3000.00 /<br>20000.00                         | ✓    | default            |
| g4dn.2xlarge<br>1        | 1150.00 /<br>3500.00                         | 143.75 /<br>437.50                                | 6000.00 /<br>20000.00                         | ✓    | default            |
| g4dn.4xlarge             | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| g4dn.8xlarge             | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| g4dn.12xl<br>arge        | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| g4dn.16xl<br>arge        | 9500.00                                      | 1187.50   | 40000.00                                      | ✓    | default            |
| g4dn.metal               | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | G   | 5   |      |                    |
| g5.xlarge <sup>1</sup>   | 700.00 /<br>3500.00                          | 87.50 /<br>437.50                                 | 3000.00 /<br>15000.00                         | ✓    | default            |

| Instance<br>type         | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe     | EBS optimization 2 |
|--------------------------|-------------------------------------|---|---|----------|--------------------|
| g5.2xlarge <sup>1</sup>  | 850.00 /<br>3500.00                 | 106.25 /<br>437.50                                | 3500.00 /<br>15000.00                         | ✓        | default            |
| g5.4xlarge               | 4750.00                             | 593.75  | 20000.00                                      | ✓        | default            |
| g5.8xlarge               | 16000.00                            | 2000.00   | 65000.00                                      | ✓        | default            |
| g5.12xlarge              | 16000.00                            | 2000.00   | 65000.00                                      | ✓        | default            |
| g5.16xlarge              | 16000.00                            | 2000.00   | 65000.00                                      | ✓        | default            |
| g5.24xlarge              | 19000.00                            | 2375.00   | 80000.00                                      | ✓        | default            |
| g5.48xlarge              | 19000.00                            | 2375.00   | 80000.00                                      | ✓        | default            |
|                          |                                     | G!  | 5g  |          |                    |
| g5g.xlarge <sup>1</sup>  | 1188.00 /<br>4750.00                | 148.50 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓        | default            |
| g5g.2xlarge <sup>1</sup> | 2375.00 /<br>4750.00                | 296.88 /<br>593.75                                | 12000.00 /<br>20000.00                        | ✓        | default            |
| g5g.4xlarge              | 4750.00                             | 593.75  | 20000.00                                      | ✓        | default            |
| g5g.8xlarge              | 9500.00                             | 1187.50   | 40000.00                                      | ✓        | default            |
| g5g.16xlarge             | 19000.00                            | 2375.00   | 80000.00                                      | ✓        | default            |
| g5g.metal                | 19000.00                            | 2375.00   | 80000.00                                      | ✓        | default            |
|                          |                                     | G   | 6   |          |                    |
| g6.xlarge <sup>1</sup>   | 1000.00 /<br>5000.00                | 125.00 /<br>625.00                                | 4000.00 /<br>20000.00                         | <b>√</b> | default            |

| Instance<br>type          | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe     | EBS optimization 2 |
|---------------------------|--|---|---|----------|--------------------|
| g6.2xlarge <sup>1</sup>   | 2000.00 /<br>5000.00                         | 250.00 /<br>625.00                                | 8000.00 /<br>20000.00                         | ✓        | default            |
| g6.4xlarge                | 8000.00                                      | 1000.00   | 32000.00                                      | ✓        | default            |
| g6.8xlarge                | 16000.00                                     | 2000.00   | 64000.00                                      | ✓        | default            |
| g6.12xlarge               | 20000.00                                     | 2500.00   | 80000.00                                      | ✓        | default            |
| g6.16xlarge               | 20000.00                                     | 2500.00   | 80000.00                                      | ✓        | default            |
| g6.24xlarge               | 30000.00                                     | 3750.00   | 120000.00                                     | ✓        | default            |
| g6.48xlarge               | 60000.00                                     | 7500.00   | 240000.00                                     | ✓        | default            |
|                           |  | G   | r6  |          |                    |
| gr6.4xlarge               | 8000.00                                      | 1000.00   | 32000.00                                      | ✓        | default            |
| gr6.8xlarge               | 16000.00                                     | 2000.00   | 64000.00                                      | ✓        | default            |
|                           |  | In  | f1  |          |                    |
| inf1.xlarge <sup>1</sup>  | 1190.00 /<br>4750.00                         | 148.75 /<br>593.75                                | 4000.00 /<br>20000.00                         | <b>√</b> | default            |
| inf1.2xlarge <sup>1</sup> | 1190.00 /<br>4750.00                         | 148.75 /<br>593.75                                | 6000.00 /<br>20000.00                         | ✓        | default            |
| inf1.6xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓        | default            |
| inf1.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓        | default            |
|                           |  | In  | f2  |          |                    |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| inf2.xlarge <sup>1</sup> | 1250.00 /<br>10000.00                        | 156.25 /<br>1250.00   | 6000.00 /<br>40000.00                         | ✓    | default            |
| inf2.8xlarge             | 10000.00                                     | 1250.00   | 40000.00                                      | ✓    | default            |
| inf2.24xlarge            | 30000.00                                     | 3750.00   | 120000.00                                     | ✓    | default            |
| inf2.48xlarge            | 60000.00                                     | 7500.00   | 240000.00                                     | ✓    | default            |
|                          |  | Р   | 2   |      |                    |
| p2.xlarge                | 750.00                                       | 93.75   | 6000.00                                       | X    | default            |
| p2.8xlarge               | 5000.00                                      | 625.00  | 32500.00                                      | X    | default            |
| p2.16xlarge              | 10000.00                                     | 1250.00   | 65000.00                                      | X    | default            |
|                          |  | Р   | 3   |      |                    |
| p3.2xlarge               | 1750.00                                      | 218.75  | 10000.00                                      | X    | default            |
| p3.8xlarge               | 7000.00                                      | 875.00  | 40000.00                                      | X    | default            |
| p3.16xlarge              | 14000.00                                     | 1750.00   | 80000.00                                      | X    | default            |
|                          |  | P3  | dn  |      |                    |
| p3dn.24xl<br>arge        | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | P   | 1d  |      |                    |
| p4d.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | P4  | de  |      |                    |

| Instance<br>type         | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|--------------------------|--|---|---|------|--------------------|
| p4de.24xl<br>arge        | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |
|                          |  | Р   | 5   |      |                    |
| p5.48xlarge              | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
|                          |  | Tr  | n1  |      |                    |
| trn1.2xlarge             | 5000.00 /<br>20000.00                        | 625.00 /<br>2500.00   | 16250.00 /<br>65000.00                        | ✓    | default            |
| trn1.32xlarge            | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
|                          |  | Trr   | ı1n   |      |                    |
| trn1n.32x<br>large       | 80000.00                                     | 10000.00  | 260000.00                                     | ✓    | default            |
|                          |  | V   | Г1  |      |                    |
| vt1.3xlarge <sup>1</sup> | 2375.00 /<br>4750.00                         | 296.88 /<br>593.75  | 10000.00 /<br>20000.00                        | ✓    | default            |
| vt1.6xlarge              | 4750.00                                      | 593.75  | 20000.00                                      | ✓    | default            |
| vt1.24xlarge             | 19000.00                                     | 2375.00   | 80000.00                                      | ✓    | default            |

### Note

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain

the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

### **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
|               |                              | D                         | L1                              |  |                      |
| dl1.24xlarge  | 4 x 1000 GB                  | NVMe<br>SSD               | 1,000,000 /<br>800,000          |  | ✓                    |
|               |                              | F                         | 1                               |  |                      |
| f1.2xlarge    | 1 x 470 GB                   | NVMe<br>SSD               |                                 |  | ✓                    |
| f1.4xlarge    | 1 x 940 GB                   | NVMe<br>SSD               |                                 |  | ✓                    |
| f1.16xlarge   | 4 x 940 GB                   | NVMe<br>SSD               |                                 |  | ✓                    |
|               |                              | G4                        | lad                             |  |                      |
| g4ad.xlarge   | 1 x 150 GB                   | NVMe<br>SSD               | 10,417 / 8,333                  |  | ✓                    |
| g4ad.2xlarge  | 1 x 300 GB                   | NVMe<br>SSD               | 20,833 / 16,667                 |  | ✓                    |
| g4ad.4xlarge  | 1 x 600 GB                   | NVMe<br>SSD               | 41,667 / 33,333                 |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| g4ad.8xlarge  | 1 x 1200 GB                  | NVMe<br>SSD               | 83,333 / 66,667                 |  | ✓                    |
| g4ad.16xlarge | 2 x 1200 GB                  | NVMe<br>SSD               | 166,666 / 133,332               |  | ✓                    |
|               |                              | G4                        | ldn                             |  |                      |
| g4dn.xlarge   | 1 x 125 GB                   | NVMe<br>SSD               | 42,500 / 32,500                 |  | ✓                    |
| g4dn.2xlarge  | 1 x 225 GB                   | NVMe<br>SSD               | 42,500 / 32,500                 |  | ✓                    |
| g4dn.4xlarge  | 1 x 225 GB                   | NVMe<br>SSD               | 85,000 / 65,000                 |  | ✓                    |
| g4dn.8xlarge  | 1 x 900 GB                   | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| g4dn.12xlarge | 1 x 900 GB                   | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| g4dn.16xlarge | 1 x 900 GB                   | NVMe<br>SSD               | 250,000 / 200,000               |  | ✓                    |
| g4dn.metal    | 2 x 900 GB                   | NVMe<br>SSD               | 500,000 / 400,000               |  | ✓                    |
|               |                              | G                         | 55                              |  |                      |
| g5.xlarge     | 1 x 250 GB                   | NVMe<br>SSD               | 40,625 / 20,313                 |  | ✓                    |
| g5.2xlarge    | 1 x 450 GB                   | NVMe<br>SSD               | 40,625 / 20,313                 |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| g5.4xlarge    | 1 x 600 GB                   | NVMe<br>SSD               | 125,000 / 62,500                |  | ✓                    |
| g5.8xlarge    | 1 x 900 GB                   | NVMe<br>SSD               | 250,000 / 125,000               |  | ✓                    |
| g5.12xlarge   | 1 x 3800 GB                  | NVMe<br>SSD               | 312,500 / 156,250               |  | ✓                    |
| g5.16xlarge   | 1 x 1900 GB                  | NVMe<br>SSD               | 250,000 / 125,000               |  | ✓                    |
| g5.24xlarge   | 1 x 3800 GB                  | NVMe<br>SSD               | 312,500 / 156,250               |  | ✓                    |
| g5.48xlarge   | 2 x 3800 GB                  | NVMe<br>SSD               | 625,000 / 312,500               |  | ✓                    |
|               |                              | G                         | 66                              |  |                      |
| g6.xlarge     | 1 x 250 GB                   | NVMe<br>SSD               | 40,625 / 20,000                 |  | ✓                    |
| g6.2xlarge    | 1 x 450 GB                   | NVMe<br>SSD               | 40,625 / 20,000                 |  | ✓                    |
| g6.4xlarge    | 1 x 600 GB                   | NVMe<br>SSD               | 125,000 / 40,000                |  | ✓                    |
| g6.8xlarge    | 2 x 450 GB                   | NVMe<br>SSD               | 250,000 / 80,000                |  | ✓                    |
| g6.12xlarge   | 4 x 3800 GB                  | NVMe<br>SSD               | 312,500 / 125,000               |  | ✓                    |

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| g6.16xlarge   | 2 x 1900 GB                  | NVMe<br>SSD               | 250,000 / 80,000                |  | ✓                    |
| g6.24xlarge   | 4 x 3800 GB                  | NVMe<br>SSD               | 312,500 / 156,248               |  | ✓                    |
| g6.48xlarge   | 8 x 7600 GB                  | NVMe<br>SSD               | 625,000 / 312,496               |  | ✓                    |
|               |                              | G                         | r6                              |  |                      |
| gr6.4xlarge   | 1 x 600 GB                   | NVMe<br>SSD               | 125,000 / 40,000                |  | ✓                    |
| gr6.8xlarge   | 2 x 450 GB                   | NVMe<br>SSD               | 250,000 / 80,000                |  | ✓                    |
|               |                              | P3                        | dn                              |  |                      |
| p3dn.24xlarge | 2 x 900 GB                   | NVMe<br>SSD               | 700,000 / 340,000               |  | ✓                    |
|               |                              | P                         | 4d                              |  |                      |
| p4d.24xlarge  | 8 x 1000 GB                  | NVMe<br>SSD               | 2,000,000 /<br>1,600,000        |  | ✓                    |
|               |                              | P4                        | de                              |  |                      |
| p4de.24xlarge | 8 x 1000 GB                  | NVMe<br>SSD               | 2,000,000 /<br>1,600,000        |  | ✓                    |
|               |                              | Р                         | 5                               |  |                      |
| p5.48xlarge   | 8 x 3800 GB                  | NVMe<br>SSD               | 4,400,000 /<br>2,200,000        |  | ✓                    |

| Instance type  | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
|                |                              | Tr                        | n1                              |  |                      |
| trn1.2xlarge   | 1 x 474 GB                   | NVMe<br>SSD               | 107,500 / 45,000                |  | ✓                    |
| trn1.32xlarge  | 4 x 1900 GB                  | NVMe<br>SSD               | 1,720,000 /<br>720,000          |  | ✓                    |
|                |                              | Trr                       | <b>11</b> n                     |  |                      |
| trn1n.32xlarge | 4 x 1900 GB                  | NVMe<br>SSD               | 1,720,000 /<br>720,000          |  | ✓                    |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

## **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | DL1                          |                |          |                   |
| dl1.24xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |
|               |                       | ı                                   | DL2q                         |                |          |                   |
| dl2q.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | ✓                 |

<sup>&</sup>lt;sup>2</sup> For more information, see <u>Instance store volume TRIM support</u>.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | F1                           |                |          |                   |
| f1.2xlarge    | ✓                     | ✓                                   | x                            | X              | x        | x                 |
| f1.4xlarge    | ✓                     | ✓                                   | X                            | x              | x        | x                 |
| f1.16xlarge   | ✓                     | ✓                                   | x                            | x              | x        | x                 |
|               |                       |                                     | G3                           |                |          |                   |
| g3.4xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | X              | X        | X                 |
| g3.8xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| g3.16xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
|               |                       | Ó                                   | G4ad                         |                |          |                   |
| g4ad.xlarge   | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| g4ad.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
| g4ad.4xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| g4ad.8xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | X                 |
| g4ad.16xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |
|               |                       | (                                   | G4dn                         |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| g4dn.xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.2xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.4xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.8xlarge  | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.12xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.16xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g4dn.metal    | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |
|               |                       |                                     | <b>G</b> 5                   |                |          |                   |
| g5.xlarge     | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g5.2xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g5.4xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g5.8xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g5.12xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |
| g5.16xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| g5.24xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| g5.48xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
|               |                       |                                     | G5g                          |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| g5g.xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| g5g.2xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| g5g.4xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| g5g.8xlarge   | <b>√</b>              | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| g5g.16xlarge  | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| g5g.metal     | ✓                     | Instance<br>store not<br>supported  | x                            | X              | x        | X                 |
|               |                       |                                     | G6                           |                |          |                   |
| g6.xlarge     | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| g6.2xlarge    | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| g6.4xlarge    | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |
| g6.8xlarge    | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|
| g6.12xlarge   | ✓                     | ✓                                   | ✓                            | X              | ✓        | ✓                 |  |  |  |
| g6.16xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| g6.24xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| g6.48xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
|               |                       |                                     | Gr6                          |                |          |                   |  |  |  |
| gr6.4xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
| gr6.8xlarge   | ✓                     | ✓                                   | ✓                            | x              | ✓        | ✓                 |  |  |  |
|               |                       |                                     | Inf1                         |                |          |                   |  |  |  |
| inf1.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| inf1.2xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |
| inf1.6xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |  |  |
| inf1.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |  |  |
|               | Inf2                  |                                     |                              |                |          |                   |  |  |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| inf2.xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| inf2.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | ✓                 |  |
| inf2.24xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| inf2.48xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | ✓        | ✓                 |  |
| P2            |                       |                                     |                              |                |          |                   |  |
| p2.xlarge     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |
| p2.8xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | X                 |  |
| p2.16xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |
|               |                       |                                     | Р3                           |                |          |                   |  |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|
| p3.2xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | X              | X        | X                 |  |  |
| p3.8xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |  |  |
| p3.16xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | X              | X        | X                 |  |  |
| P3dn          |                       |                                     |                              |                |          |                   |  |  |
| p3dn.24xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |  |  |
| P4d           |                       |                                     |                              |                |          |                   |  |  |
| p4d.24xlarge  | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |  |  |
| P4de          |                       |                                     |                              |                |          |                   |  |  |
| p4de.24xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | ✓                 |  |  |
| P5            |                       |                                     |                              |                |          |                   |  |  |
| p5.48xlarge   | ✓                     | ✓                                   | ✓                            | X              | X        | ✓                 |  |  |
| Trn1          |                       |                                     |                              |                |          |                   |  |  |
| trn1.2xlarge  | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |  |
| trn1.32xlarge | ✓                     | ✓                                   | ✓                            | X              | X        | x                 |  |  |
| Trn1n         |                       |                                     |                              |                |          |                   |  |  |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|
| trn1n.32xlarge | ✓                     | ✓                                   | ✓                            | x              | x        | x                 |  |
| VT1            |                       |                                     |                              |                |          |                   |  |
| vt1.3xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |
| vt1.6xlarge    | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |  |
| vt1.24xlarge   | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |  |

# **High-performance computing instances**

High-performance computing instances are purpose built to offer the best price performance for running HPC workloads at scale on AWS. These instances are ideal for applications that benefit from high-performance processors, such as large, complex simulations and deep learning workloads.

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

# **Available sizes**

| Instance<br>type | Available sizes  |
|------------------|--|
| Нрс6а            | hpc6a.48xlarge   |
| Hpc6id           | hpc6id.32xlarge  |
| Нрс7а            | hpc7a.12xlarge  hpc7a.24xlarge  hpc7a.48xlarge  hpc7a.96xlarge |
| Нрс7д            | hpc7g.4xlarge  hpc7g.8xlarge  hpc7g.16xlarge                   |

# **Platform summary**

| Instance<br>type | Hypervis<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| Нрс6а            | Nitro         | AMD<br>(x86_64)                         | X                               | X                            | X               | x                       | Linux                       |
| Hpc6id           | Nitro         | Intel<br>(x86_64)                       | X                               | X                            | X               | x                       | Windows<br>  Linux          |
| Нрс7а            | Nitro         | AMD<br>(x86_64)                         | X                               | X                            | X               | x                       | Windows<br>  Linux          |
| Hpc7g            | Nitro         | AWS<br>Graviton<br>(arm64)              | X                               | x                            | X               | x                       | Linux                       |

Available sizes 320

# **Performance specifications**

| Instance type       | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
|                     |           |                 | Нрс6а                        |       |              |                        |                  |
| hpc6a.48x<br>large  | X         | 384.00          | AMD EPYC<br>7R13             | 96    | 96           | 1                      | X                |
|                     |           |                 | Hpc6id                       |       |              |                        |                  |
| hpc6id.32<br>xlarge | X         | 1024.00         | Intel Xeon Ice<br>Lake       | 64    | 64           | 1                      | X                |
|                     |           |                 | Нрс7а                        |       |              |                        |                  |
| hpc7a.12x<br>large  | X         | 768.00          | AMD EPYC<br>9R14             | 24    | 24           | 1                      | X                |
| hpc7a.24x<br>large  | X         | 768.00          | AMD EPYC<br>9R14             | 48    | 48           | 1                      | X                |
| hpc7a.48x<br>large  | X         | 768.00          | AMD EPYC<br>9R14             | 96    | 96           | 1                      | X                |
| hpc7a.96x<br>large  | X         | 768.00          | AMD EPYC<br>9R14             | 192   | 192          | 1                      | X                |
|                     |           |                 | Нрс7д                        |       |              |                        |                  |
| hpc7g.4xlarge       | X         | 128.00          | AWS Graviton3<br>E Processor | 16    | 16           | 1                      | X                |
| hpc7g.8xlarge       | X         | 128.00          | AWS Graviton3<br>E Processor | 32    | 32           | 1                      | X                |
| hpc7g.16x<br>large  | X         | 128.00          | AWS Graviton3<br>E Processor | 64    | 64           | 1                      | X                |

# **Network specifications**

| Instance type       | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                     |                                   |     | Нр  | oc6a           |                  |                                   |                                     |      |
| hpc6a.48x<br>large  | 100 Gigabit                       | ✓   | ✓   | X              | 1                | 2                                 | 50                                  | ✓    |
|                     |                                   |     | Нр  | c6id           |                  |                                   |                                     |      |
| hpc6id.32<br>xlarge | 200 Gigabit                       | ✓   | ✓   | X              | 2                | 2                                 | 50                                  | ✓    |
|                     |                                   |     | Нр  | ос7а           |                  |                                   |                                     |      |
| hpc7a.12x<br>large  | 300 Gigabit                       | ✓   | ✓   | X              | 2                | 4                                 | 50                                  | ✓    |
| hpc7a.24x<br>large  | 300 Gigabit                       | ✓   | ✓   | X              | 2                | 4                                 | 50                                  | ✓    |
| hpc7a.48x<br>large  | 300 Gigabit                       | ✓   | ✓   | x              | 2                | 4                                 | 50                                  | ✓    |
| hpc7a.96x<br>large  | 300 Gigabit                       | ✓   | ✓   | X              | 2                | 4                                 | 50                                  | ✓    |
|                     |                                   |     | Нр  | oc7g           |                  |                                   |                                     |      |
| hpc7g.4xlarge       | 200 Gigabit                       | ✓   | ✓   | X              | 1                | 4                                 | 50                                  | ✓    |
| hpc7g.8xlarge       | 200 Gigabit                       | ✓   | ✓   | X              | 1                | 4                                 | 50                                  | ✓    |
| hpc7g.16x<br>large  | 200 Gigabit                       | ✓   | ✓   | X              | 1                | 4                                 | 50                                  | ✓    |

# **Amazon EBS specifications**

| Instance<br>type                 | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|----------------------------------|-------------------------------------|---|---|------|--------------------|
|                                  |                                     | Нр  | c6a   |      |                    |
| hpc6a.48x<br>large <sup>1</sup>  | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
|                                  |                                     | Нро   | :6id  |      |                    |
| hpc6id.32<br>xlarge <sup>1</sup> | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
|                                  |                                     | Нр  | c7a   |      |                    |
| hpc7a.12x<br>large <sup>1</sup>  | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
| hpc7a.24x<br>large <sup>1</sup>  | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
| hpc7a.48x<br>large <sup>1</sup>  | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
| hpc7a.96x<br>large <sup>1</sup>  | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
|                                  |                                     | Нр  | c7g   |      |                    |
| hpc7g.4xl<br>arge <sup>1</sup>   | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |
| hpc7g.8xl<br>arge <sup>1</sup>   | 87.00 /<br>2085.00                  | 10.88 /<br>260.62                                 | 500.00 /<br>11000.00                          | ✓    | default            |

| Instance<br>type                | Baseline /<br>Maximum<br>bandwidth<br>(Mbps) | Baseline /<br>Maximum<br>throughput<br>(MB/s, 128<br>KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|---------------------------------|--|---|---|------|--------------------|
| hpc7g.16x<br>large <sup>1</sup> | 87.00 /<br>2085.00                           | 10.88 /<br>260.62   | 500.00 /<br>11000.00                          | ✓    | default            |

#### Note

#### **Instance store specifications**

| Instance type   | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |  |  |  |  |
|-----------------|------------------------------|---------------------------|---------------------------------|--|----------------------|--|--|--|--|
|                 | Hpc6id                       |                           |                                 |  |                      |  |  |  |  |
| hpc6id.32xlarge | 4 x 3800 GB                  | NVMe<br>SSD               | 2,146,664 /<br>1,073,336        |  | ✓                    |  |  |  |  |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

Instance store specifications 324

<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

<sup>&</sup>lt;sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS-optimized instances.

<sup>&</sup>lt;sup>2</sup> For more information, see Instance store volume TRIM support.

# **Security specifications**

| Instance type   | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|-----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|                 |                       | Н                                   | lpc6a                        |                |          |                   |
| hpc6a.48xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | ✓        | X                 |
|                 |                       | н                                   | pc6id                        |                |          |                   |
| hpc6id.32xlarge | ✓                     | ✓                                   | ✓                            | x              | ✓        | x                 |
|                 |                       | н                                   | lpc7a                        |                |          |                   |
| hpc7a.12xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
| hpc7a.24xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
| hpc7a.48xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | x              | x        | X                 |
| hpc7a.96xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
|                 |                       | Н                                   | lpc7g                        |                |          |                   |
| hpc7g.4xlarge   | ✓                     | Instance<br>store not               | ✓                            | X              | X        | X                 |

| Instance type  | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|----------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|                |                       | supported                           |                              |                |          |                   |
| hpc7g.8xlarge  | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |
| hpc7g.16xlarge | ✓                     | Instance<br>store not<br>supported  | ✓                            | X              | X        | X                 |

# **Previous generation instances**

AWS offers previous generation instance types for users who have optimized their applications around them and have yet to upgrade. We encourage you to use current generation instance types to get the best performance, but we continue to support the following previous generation instance types.

#### **Contents**

- Available sizes
- Platform summary
- Performance specifications
- · Network specifications
- Amazon EBS specifications
- Instance store specifications
- Security specifications

Previous generation 326

# **Available sizes**

| Instance<br>type | Available sizes  |
|------------------|--|
| A1               | a1.medium  a1.large a1.xlarge a1.2xlarge a1.4xlarge a1.metal                     |
| C1               | c1.medium   c1.xlarge  |
| C3               | c3.large c3.xlarge c3.2xlarge c3.4xlarge c3.8xlarge                              |
| C4               | c4.large c4.xlarge c4.2xlarge c4.4xlarge c4.8xlarge                              |
| 12               | i2.xlarge   i2.2xlarge   i2.4xlarge   i2.8xlarge                                 |
| M1               | m1.small m1.medium  m1.large m1.xlarge   |
| M2               | m2.xlarge   m2.2xlarge   m2.4xlarge  |
| M3               | m3.medium   m3.large   m3.xlarge   m3.2xlarge                                    |
| M4               | <pre>m4.large m4.xlarge  m4.2xlarge  m4.4xlarge  m4.10xlarge   m4.16xlarge</pre> |
| R3               | r3.large r3.xlarge r3.2xlarge r3.4xlarge r3.8xlarge                              |
| R4               | r4.large r4.xlarge r4.2xlarge r4.4xlarge r4.8xlarge <br>r4.16xlarge              |
| T1               | t1.micro   |

Available sizes 327

# **Platform summary**

| Instance<br>type | Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|---------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| A1               | Nitro         | AWS<br>Graviton<br>(arm64)              | ✓                               | ✓                            | ✓               | X                       | Linux                       |
| C1               | Xen           | Intel<br>(x86_64)                       | x                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| C3               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| C4               | Xen           | Intel<br>(x86_64)                       | x                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| 12               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | x                       | Windows<br>  Linux          |
| M1               | Xen           | Intel<br>(x86_64)                       | X                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| M2               | Xen           | Intel<br>(x86_64)                       | x                               | X                            | ✓               | x                       | Windows<br>  Linux          |
| M3               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| M4               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| R3               | Xen           | Intel<br>(x86_64)                       | X                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |

Platform summary 328

| Instance<br>type | e Hypervi:<br>r | Processor<br>type<br>(architec<br>ture) | Metal<br>instances<br>available | Dedicate<br>Hosts<br>support | Spot<br>support | Hibernati<br>on support | Supported operating systems |
|------------------|-----------------|---|---------------------------------|------------------------------|-----------------|-------------------------|-----------------------------|
| R4               | Xen             | Intel<br>(x86_64)                       | x                               | ✓                            | ✓               | ✓                       | Windows<br>  Linux          |
| T1               | Xen             | Intel (i386)                            | x                               | X                            | ✓               | x                       | Windows<br>  Linux          |

# **Performance specifications**

| Instance type | Burstable | Memory<br>(GiB) | Processor                 | vCPUs | CPU<br>cores | Threads per core | Accelerat<br>ors |
|---------------|-----------|-----------------|---------------------------|-------|--------------|------------------|------------------|
|               |           |                 | <b>A</b> 1                |       |              |                  |                  |
| a1.medium     | X         | 2.00            | AWS Graviton<br>Processor | 1     | 1            | 1                | X                |
| a1.large      | X         | 4.00            | AWS Graviton<br>Processor | 2     | 2            | 1                | X                |
| a1.xlarge     | X         | 8.00            | AWS Graviton<br>Processor | 4     | 4            | 1                | X                |
| a1.2xlarge    | X         | 16.00           | AWS Graviton<br>Processor | 8     | 8            | 1                | X                |
| a1.4xlarge    | X         | 32.00           | AWS Graviton<br>Processor | 16    | 16           | 1                | X                |
| a1.metal      | X         | 32.00           | AWS Graviton<br>Processor | 16    | 16           | 1                | X                |
|               |           |                 | <b>C</b> 1                |       |              |                  |                  |

| Instance type | Burstable | Memory<br>(GiB) | Processor               | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-------------------------|-------|--------------|------------------------|------------------|
| c1.medium     | X         | 1.70            | Intel Xeon<br>Family    | 2     | 2            | 1                      | X                |
| c1.xlarge     | X         | 7.00            | Intel Xeon<br>Family    | 8     | 8            | 1                      | X                |
|               |           |                 | С3                      |       |              |                        |                  |
| c3.large      | X         | 3.75            | Intel Xeon<br>E5-2680v2 | 2     | 1            | 2                      | X                |
| c3.xlarge     | X         | 7.50            | Intel Xeon<br>E5-2680v2 | 4     | 2            | 2                      | X                |
| c3.2xlarge    | X         | 15.00           | Intel Xeon<br>E5-2680v2 | 8     | 4            | 2                      | X                |
| c3.4xlarge    | X         | 30.00           | Intel Xeon<br>E5-2680v2 | 16    | 8            | 2                      | X                |
| c3.8xlarge    | X         | 60.00           | Intel Xeon<br>E5-2680v2 | 32    | 16           | 2                      | X                |
|               |           |                 | <b>C</b> 4              |       |              |                        |                  |
| c4.large      | X         | 3.75            | Intel Xeon<br>E5-2666v3 | 2     | 1            | 2                      | X                |
| c4.xlarge     | X         | 7.50            | Intel Xeon<br>E5-2666v3 | 4     | 2            | 2                      | X                |
| c4.2xlarge    | X         | 15.00           | Intel Xeon<br>E5-2666v3 | 8     | 4            | 2                      | X                |
| c4.4xlarge    | X         | 30.00           | Intel Xeon<br>E5-2666v3 | 16    | 8            | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor               | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-------------------------|-------|--------------|------------------------|------------------|
| c4.8xlarge    | X         | 60.00           | Intel Xeon<br>E5-2666v3 | 36    | 18           | 2                      | X                |
|               |           |                 | 12                      |       |              |                        |                  |
| i2.xlarge     | X         | 30.50           | Intel Xeon<br>E5-2670v2 | 4     | 2            | 2                      | X                |
| i2.2xlarge    | X         | 61.00           | Intel Xeon<br>E5-2670v2 | 8     | 4            | 2                      | X                |
| i2.4xlarge    | X         | 122.00          | Intel Xeon<br>E5-2670v2 | 16    | 8            | 2                      | X                |
| i2.8xlarge    | X         | 244.00          | Intel Xeon<br>E5-2670v2 | 32    | 16           | 2                      | X                |
|               |           |                 | M1                      |       |              |                        |                  |
| m1.small      | X         | 1.70            | Intel Xeon<br>Family    | 1     | 1            | 1                      | X                |
| m1.medium     | X         | 3.70            | Intel Xeon<br>Family    | 1     | 1            | 1                      | X                |
| m1.large      | X         | 7.50            | Intel Xeon<br>Family    | 2     | 2            | 1                      | X                |
| m1.xlarge     | X         | 15.00           | Intel Xeon<br>Family    | 4     | 4            | 1                      | X                |
|               |           |                 | M2                      |       |              |                        |                  |
| m2.xlarge     | X         | 17.10           | Intel Xeon<br>Family    | 2     | 2            | 1                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor               | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|-------------------------|-------|--------------|------------------------|------------------|
| m2.2xlarge    | X         | 34.20           | Intel Xeon<br>Family    | 4     | 4            | 1                      | X                |
| m2.4xlarge    | X         | 68.40           | Intel Xeon<br>Family    | 8     | 8            | 1                      | X                |
|               |           |                 | М3                      |       |              |                        |                  |
| m3.medium     | X         | 3.75            | Intel Xeon<br>E5-2670v2 | 1     | 1            | 1                      | X                |
| m3.large      | X         | 7.50            | Intel Xeon<br>E5-2670v2 | 2     | 1            | 2                      | X                |
| m3.xlarge     | X         | 15.00           | Intel Xeon<br>E5-2670v2 | 4     | 2            | 2                      | X                |
| m3.2xlarge    | X         | 30.00           | Intel Xeon<br>E5-2670v2 | 8     | 4            | 2                      | X                |
|               |           |                 | M4                      |       |              |                        |                  |
| m4.large      | X         | 8.00            | Intel Xeon<br>E5-2676v3 | 2     | 1            | 2                      | X                |
| m4.xlarge     | X         | 16.00           | Intel Xeon<br>E5-2676v3 | 4     | 2            | 2                      | X                |
| m4.2xlarge    | X         | 32.00           | Intel Xeon<br>E5-2676v3 | 8     | 4            | 2                      | X                |
| m4.4xlarge    | X         | 64.00           | Intel Xeon<br>E5-2676v3 | 16    | 8            | 2                      | X                |
| m4.10xlarge   | X         | 160.00          | Intel Xeon<br>E5-2676v3 | 40    | 20           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| m4.16xlarge   | X         | 256.00          | Intel Xeon<br>E5-2686v4      | 64    | 32           | 2                      | X                |
|               |           |                 | R3                           |       |              |                        |                  |
| r3.large      | X         | 15.00           | Intel Xeon<br>E5-2670v2      | 2     | 1            | 2                      | X                |
| r3.xlarge     | X         | 30.50           | Intel Xeon<br>E5-2670v2      | 4     | 2            | 2                      | X                |
| r3.2xlarge    | X         | 61.00           | Intel Xeon<br>E5-2670v2      | 8     | 4            | 2                      | X                |
| r3.4xlarge    | X         | 122.00          | Intel Xeon<br>E5-2670v2      | 16    | 8            | 2                      | X                |
| r3.8xlarge    | X         | 244.00          | Intel Xeon<br>E5-2670v2      | 32    | 16           | 2                      | X                |
|               |           |                 | R4                           |       |              |                        |                  |
| r4.large      | X         | 15.25           | Intel Broadwell<br>E5-2686v4 | 2     | 1            | 2                      | X                |
| r4.xlarge     | X         | 30.50           | Intel Broadwell<br>E5-2686v4 | 4     | 2            | 2                      | X                |
| r4.2xlarge    | X         | 61.00           | Intel Broadwell<br>E5-2686v4 | 8     | 4            | 2                      | X                |
| r4.4xlarge    | X         | 122.00          | Intel Broadwell<br>E5-2686v4 | 16    | 8            | 2                      | X                |
| r4.8xlarge    | X         | 244.00          | Intel Broadwell<br>E5-2686v4 | 32    | 16           | 2                      | X                |

| Instance type | Burstable | Memory<br>(GiB) | Processor                    | vCPUs | CPU<br>cores | Threads<br>per<br>core | Accelerat<br>ors |
|---------------|-----------|-----------------|------------------------------|-------|--------------|------------------------|------------------|
| r4.16xlarge   | X         | 488.00          | Intel Broadwell<br>E5-2686v4 | 64    | 32           | 2                      | X                |
|               |           |                 | T1                           |       |              |                        |                  |
| t1.micro      | X         | 0.61            | Intel E5-2650                | 1     | 1            | 1                      | X                |

# **Network specifications**

| Instance type           | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|----------------|------------------|-----------------------------------|-------------------------------------|------|
|                         |                                   |     |     | <b>A</b> 1     |                  |                                   |                                     |      |
| a1.medium <sup>1</sup>  | 0.5 / 10.0                        | X   | ✓   | X              | 1                | 2                                 | 4                                   | ✓    |
| a1.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓   | X              | 1                | 3                                 | 10                                  | ✓    |
| a1.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| a1.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓   | X              | 1                | 4                                 | 15                                  | ✓    |
| a1.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
| a1.metal <sup>1</sup>   | 5.0 / 10.0                        | X   | ✓   | X              | 1                | 8                                 | 30                                  | ✓    |
|                         |                                   |     |     | C1             |                  |                                   |                                     |      |
| c1.medium               | Moderate                          | X   | X   | X              | 1                | 2                                 | 6                                   | X    |
| c1.xlarge               | High                              | X   | X   | X              | 1                | 4                                 | 15                                  | X    |
|                         |                                   |     |     | <b>C</b> 3     |                  |                                   |                                     |      |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA                   | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------|-----------------------------------|-----|-----------------------|----------------|------------------|-----------------------------------|-------------------------------------|------|
| c3.large      | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 3                                 | 10                                  | ✓    |
| c3.xlarge     | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| c3.2xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| c3.4xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| c3.8xlarge    | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
|               |                                   |     |                       | C4             |                  |                                   |                                     |      |
| c4.large      | Moderate                          | X   | <b>x</b> <sup>2</sup> | x              | 1                | 3                                 | 10                                  | ✓    |
| c4.xlarge     | High                              | X   | <b>x</b> <sup>2</sup> | x              | 1                | 4                                 | 15                                  | ✓    |
| c4.2xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | x              | 1                | 4                                 | 15                                  | ✓    |
| c4.4xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| c4.8xlarge    | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
|               |                                   |     |                       | 12             |                  |                                   |                                     |      |
| i2.xlarge     | Moderate                          | X   | <b>x</b> <sup>2</sup> | x              | 1                | 4                                 | 15                                  | ✓    |
| i2.2xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| i2.4xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| i2.8xlarge    | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | x              | 1                | 8                                 | 30                                  | ✓    |
|               |                                   |     | ı                     | <b>41</b>      |                  |                                   |                                     |      |
| m1.small      | Low                               | X   | X                     | x              | 1                | 2                                 | 4                                   | x    |
| m1.medium     | Moderate                          | X   | X                     | x              | 1                | 2                                 | 6                                   | X    |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA                   | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|---------------|-----------------------------------|-----|-----------------------|----------------|------------------|-----------------------------------|-------------------------------------|------|
| m1.large      | Moderate                          | X   | X                     | X              | 1                | 3                                 | 10                                  | X    |
| m1.xlarge     | High                              | X   | X                     | X              | 1                | 4                                 | 15                                  | X    |
|               |                                   |     | ı                     | M2             |                  |                                   |                                     |      |
| m2.xlarge     | Moderate                          | X   | X                     | X              | 1                | 4                                 | 15                                  | X    |
| m2.2xlarge    | Moderate                          | X   | X                     | X              | 1                | 4                                 | 30                                  | X    |
| m2.4xlarge    | High                              | X   | X                     | X              | 1                | 8                                 | 30                                  | X    |
|               |                                   |     | ı                     | <b>Ч</b> 3     |                  |                                   |                                     |      |
| m3.medium     | Moderate                          | x   | X                     | X              | 1                | 2                                 | 6                                   | X    |
| m3.large      | Moderate                          | X   | X                     | X              | 1                | 3                                 | 10                                  | X    |
| m3.xlarge     | High                              | X   | X                     | X              | 1                | 4                                 | 15                                  | X    |
| m3.2xlarge    | High                              | X   | X                     | X              | 1                | 4                                 | 30                                  | X    |
|               |                                   |     | ı                     | <b>M4</b>      |                  |                                   |                                     |      |
| m4.large      | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 2                                 | 10                                  | ✓    |
| m4.xlarge     | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| m4.2xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| m4.4xlarge    | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| m4.10xlarge   | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| m4.16xlarge   | 25 Gigabit                        | X   | ✓                     | X              | 1                | 8                                 | 30                                  | ✓    |
|               |                                   |     |                       | R3             |                  |                                   |                                     |      |

| Instance type           | Baseline / Burst bandwidth (Gbps) | EFA | ENA                   | ENA<br>Express | Network<br>cards | Max.<br>network<br>interface<br>s | IP<br>addresses<br>per<br>interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----------------------|----------------|------------------|-----------------------------------|-------------------------------------|------|
| r3.large                | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 3                                 | 10                                  | ✓    |
| r3.xlarge               | Moderate                          | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| r3.2xlarge              | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 4                                 | 15                                  | ✓    |
| r3.4xlarge              | High                              | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
| r3.8xlarge              | 10 Gigabit                        | X   | <b>x</b> <sup>2</sup> | X              | 1                | 8                                 | 30                                  | ✓    |
|                         |                                   |     | ı                     | R4             |                  |                                   |                                     |      |
| r4.large <sup>1</sup>   | 0.75 / 10.0                       | X   | ✓                     | x              | 1                | 3                                 | 10                                  | ✓    |
| r4.xlarge <sup>1</sup>  | 1.25 / 10.0                       | X   | ✓                     | x              | 1                | 4                                 | 15                                  | ✓    |
| r4.2xlarge <sup>1</sup> | 2.5 / 10.0                        | X   | ✓                     | X              | 1                | 4                                 | 15                                  | ✓    |
| r4.4xlarge <sup>1</sup> | 5.0 / 10.0                        | X   | ✓                     | x              | 1                | 8                                 | 30                                  | ✓    |
| r4.8xlarge              | 10 Gigabit                        | X   | ✓                     | x              | 1                | 8                                 | 30                                  | ✓    |
| r4.16xlarge             | 25 Gigabit                        | X   | ✓                     | X              | 1                | 15                                | 50                                  | ✓    |
|                         |                                   |     | -                     | Г1             |                  |                                   |                                     |      |
| t1.micro                | Very Low                          | X   | X                     | X              | 1                | 2                                 | 2                                   | X    |

#### Note

<sup>&</sup>lt;sup>1</sup> These instances have a baseline bandwidth and can use a network I/O credit mechanism to burst beyond their baseline bandwidth on a best effort basis. Other instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

# **Amazon EBS specifications**

| Instance<br>type        | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|-------------------------|-------------------------------------|---|---|------|--------------------|
|                         |                                     | А   | 1   |      |                    |
| a1.medium <sup>1</sup>  | 300.00 /<br>3500.00                 | 37.50 /<br>437.50                                 | 2500.00 /<br>20000.00                         | ✓    | default            |
| a1.large <sup>1</sup>   | 525.00 /<br>3500.00                 | 65.62 /<br>437.50                                 | 4000.00 /<br>20000.00                         | ✓    | default            |
| a1.xlarge <sup>1</sup>  | 800.00 /<br>3500.00                 | 100.00 /<br>437.50                                | 6000.00 /<br>20000.00                         | ✓    | default            |
| a1.2xlarge <sup>1</sup> | 1750.00 /<br>3500.00                | 218.75 /<br>437.50                                | 10000.00 /<br>20000.00                        | ✓    | default            |
| a1.4xlarge              | 3500.00                             | 437.50  | 20000.00                                      | ✓    | default            |
| a1.metal                | 3500.00                             | 437.50  | 20000.00                                      | ✓    | default            |
|                         |                                     | C   | 1   |      |                    |
| c1.xlarge               | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |
|                         |                                     | C   | 3   |      |                    |
| c3.xlarge               | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |
| c3.2xlarge              | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |
| c3.4xlarge              | 2000.00                             | 250.00  | 16000.00                                      | x    | supported          |

<sup>&</sup>lt;sup>2</sup> These instances support enhanced networking using the Intel 82599 VF interface.

| Instance<br>type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |
|------------------|-------------------------------------|---|---|------|--------------------|--|
|                  |                                     | c   | 4   |      |                    |  |
| c4.large         | 500.00                              | 62.50   | 4000.00                                       | X    | default            |  |
| c4.xlarge        | 750.00                              | 93.75   | 6000.00                                       | x    | default            |  |
| c4.2xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | default            |  |
| c4.4xlarge       | 2000.00                             | 250.00  | 16000.00                                      | X    | default            |  |
| c4.8xlarge       | 4000.00                             | 500.00  | 32000.00                                      | X    | default            |  |
| 12               |                                     |   |   |      |                    |  |
| i2.xlarge        | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |  |
| i2.2xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |  |
| i2.4xlarge       | 2000.00                             | 250.00  | 16000.00                                      | X    | supported          |  |
|                  |                                     | M   | 11  |      |                    |  |
| m1.large         | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |  |
| m1.xlarge        | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |  |
|                  |                                     | M   | 12  |      |                    |  |
| m2.2xlarge       | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |  |
| m2.4xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |  |
|                  |                                     | M   | 13  |      |                    |  |
| m3.xlarge        | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |  |

| Instance<br>type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |
|------------------|-------------------------------------|---|---|------|--------------------|
| m3.2xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |
|                  |                                     | M   | 14  |      |                    |
| m4.large         | 450.00                              | 56.25   | 3600.00                                       | X    | default            |
| m4.xlarge        | 750.00                              | 93.75   | 6000.00                                       | X    | default            |
| m4.2xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | default            |
| m4.4xlarge       | 2000.00                             | 250.00  | 16000.00                                      | X    | default            |
| m4.10xlarge      | 4000.00                             | 500.00  | 32000.00                                      | X    | default            |
| m4.16xlarge      | 10000.00                            | 1250.00   | 65000.00                                      | X    | default            |
|                  |                                     | R   | 3   |      |                    |
| r3.xlarge        | 500.00                              | 62.50   | 4000.00                                       | X    | supported          |
| r3.2xlarge       | 1000.00                             | 125.00  | 8000.00                                       | X    | supported          |
| r3.4xlarge       | 2000.00                             | 250.00  | 16000.00                                      | X    | supported          |
|                  |                                     | R   | 4   |      |                    |
| r4.large         | 425.00                              | 53.12   | 3000.00                                       | X    | default            |
| r4.xlarge        | 850.00                              | 106.25  | 6000.00                                       | X    | default            |
| r4.2xlarge       | 1700.00                             | 212.50  | 12000.00                                      | X    | default            |
| r4.4xlarge       | 3500.00                             | 437.50  | 18750.00                                      | X    | default            |
| r4.8xlarge       | 7000.00                             | 875.00  | 37500.00                                      | X    | default            |

| Instance<br>type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline /<br>Maximum<br>IOPS (16 KiB<br>I/O) | NVMe | EBS optimization 2 |  |  |  |  |
|------------------|-------------------------------------|---|---|------|--------------------|--|--|--|--|
| r4.16xlarge      | 14000.00                            | 1750.00   | 75000.00                                      | X    | default            |  |  |  |  |
| T1               |                                     |   |   |      |                    |  |  |  |  |



<sup>&</sup>lt;sup>1</sup> These instances can support maximum performance for 30 minutes at least once every 24 hours, after which they revert to their baseline performance. Other instances can sustain the maximum performance indefinitely. If your workload requires sustained maximum performance for longer than 30 minutes, use one of these instances.

#### **Instance store specifications**

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |  |  |  |  |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|--|--|--|--|
|               |                              | C                         | :1                              |  |                      |  |  |  |  |
| c1.medium     | 1 x 350 GB                   | HDD                       |                                 | ✓  |                      |  |  |  |  |
| c1.xlarge     | 4 x 420 GB                   | HDD                       |                                 | ✓  |                      |  |  |  |  |
| C3            |                              |                           |                                 |  |                      |  |  |  |  |
| c3.large      | 2 x 16 GB                    | SSD                       |                                 | ✓  |                      |  |  |  |  |

Instance store specifications 341

<sup>&</sup>lt;sup>2</sup> default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS—optimized instances.

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| c3.xlarge     | 2 x 40 GB                    | SSD                       |                                 | ✓  |                      |
| c3.2xlarge    | 2 x 80 GB                    | SSD                       |                                 | ✓  |                      |
| c3.4xlarge    | 2 x 160 GB                   | SSD                       |                                 | ✓  |                      |
| c3.8xlarge    | 2 x 320 GB                   | SSD                       |                                 | ✓  |                      |
|               |                              | ı                         | 2                               |  |                      |
| i2.xlarge     | 1 x 800 GB                   | SSD                       |                                 | ✓  |                      |
| i2.2xlarge    | 2 x 800 GB                   | SSD                       |                                 | ✓  |                      |
| i2.4xlarge    | 4 x 800 GB                   | SSD                       |                                 | ✓  |                      |
| i2.8xlarge    | 8 x 800 GB                   | SSD                       |                                 | ✓  |                      |
|               |                              | M                         | 11                              |  |                      |
| m1.small      | 1 x 160 GB                   | HDD                       |                                 | ✓  |                      |
| m1.medium     | 1 x 410 GB                   | HDD                       |                                 | ✓  |                      |
| m1.large      | 2 x 420 GB                   | HDD                       |                                 | ✓  |                      |
| m1.xlarge     | 4 x 420 GB                   | HDD                       |                                 | ✓  |                      |
|               |                              | M                         | 12                              |  |                      |
| m2.xlarge     | 1 x 420 GB                   | HDD                       |                                 | ✓  |                      |
| m2.2xlarge    | 1 x 850 GB                   | HDD                       |                                 | ✓  |                      |
| m2.4xlarge    | 2 x 840 GB                   | HDD                       |                                 | ✓  |                      |
|               |                              | M                         | 13                              |  |                      |

Instance store specifications 342

| Instance type | Instance<br>store<br>volumes | Instance<br>store<br>type | Read / Write performance (IOPS) | Needs<br>initializ<br>ation <sup>1</sup> | TRIM<br>support<br>2 |
|---------------|------------------------------|---------------------------|---------------------------------|--|----------------------|
| m3.medium     | 1 x 4 GB                     | SSD                       |                                 | ✓  |                      |
| m3.large      | 1 x 32 GB                    | SSD                       |                                 | ✓  |                      |
| m3.xlarge     | 2 x 40 GB                    | SSD                       |                                 | ✓  |                      |
| m3.2xlarge    | 2 x 80 GB                    | SSD                       |                                 | ✓  |                      |
|               |                              | R                         | 3                               |  |                      |
| r3.large      | 1 x 32 GB                    | SSD                       |                                 | ✓  |                      |
| r3.xlarge     | 1 x 80 GB                    | SSD                       |                                 | ✓  |                      |
| r3.2xlarge    | 1 x 160 GB                   | SSD                       |                                 | ✓  |                      |
| r3.4xlarge    | 1 x 320 GB                   | SSD                       |                                 | ✓  |                      |
| r3.8xlarge    | 2 x 320 GB                   | SSD                       |                                 | ✓  |                      |

<sup>&</sup>lt;sup>1</sup> Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see Optimize disk performance for instance store volumes.

# **Security specifications**

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |  |  |  |  |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|--|--|--|--|
| A1            |                       |                                     |                              |                |          |                   |  |  |  |  |
| a1.medium     | ✓                     | Instance<br>store not               | X                            | X              | X        | X                 |  |  |  |  |

<sup>&</sup>lt;sup>2</sup> For more information, see Instance store volume TRIM support.

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       | supported                           |                              |                |          |                   |
| a1.large      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| a1.xlarge     | ✓                     | Instance<br>store not<br>supported  | X                            | x              | x        | X                 |
| a1.2xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| a1.4xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | x              | x        | X                 |
| a1.metal      | ✓                     | Instance<br>store not<br>supported  | X                            | x              | x        | X                 |
|               |                       |                                     | <b>C</b> 1                   |                |          |                   |
| c1.medium     | ✓                     | X                                   | X                            | X              | X        | X                 |
| c1.xlarge     | ✓                     | x                                   | x                            | x              | x        | x                 |
|               |                       |                                     | <b>C</b> 3                   |                |          |                   |
| c3.large      | ✓                     | X                                   | x                            | x              | X        | x                 |
| c3.xlarge     | ✓                     | x                                   | x                            | X              | x        | x                 |
| c3.2xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| c3.4xlarge    | ✓                     | X                                   | x                            | x              | x        | x                 |
| c3.8xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |
|               |                       |                                     | C4                           |                |          |                   |
| c4.large      | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| c4.xlarge     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| c4.2xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| c4.4xlarge    | <b>√</b>              | Instance<br>store not<br>supported  | x                            | X              | x        | X                 |
| c4.8xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | X              | x        | X                 |
|               |                       |                                     | 12                           |                |          |                   |
| i2.xlarge     | ✓                     | X                                   | X                            | X              | X        | X                 |
| i2.2xlarge    | ✓                     | X                                   | X                            | X              | X        | X                 |
| i2.4xlarge    | ✓                     | X                                   | X                            | X              | X        | X                 |
| i2.8xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
|               |                       |                                     | M1                           |                |          |                   |
| m1.small      | ✓                     | x                                   | x                            | x              | x        | x                 |
| m1.medium     | ✓                     | x                                   | x                            | x              | x        | x                 |
| m1.large      | ✓                     | x                                   | x                            | x              | x        | x                 |
| m1.xlarge     | ✓                     | x                                   | x                            | x              | x        | x                 |
|               |                       |                                     | M2                           |                |          |                   |
| m2.xlarge     | ✓                     | x                                   | x                            | x              | x        | x                 |
| m2.2xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |
| m2.4xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |
|               |                       |                                     | М3                           |                |          |                   |
| m3.medium     | ✓                     | x                                   | x                            | x              | x        | x                 |
| m3.large      | ✓                     | x                                   | x                            | x              | x        | x                 |
| m3.xlarge     | ✓                     | x                                   | x                            | x              | x        | x                 |
| m3.2xlarge    | ✓                     | x                                   | x                            | x              | x        | x                 |
|               |                       |                                     | M4                           |                |          |                   |
| m4.large      | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| m4.xlarge     | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| m4.2xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | x        | X                 |
| m4.4xlarge    | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| m4.10xlarge   | ✓                     | Instance<br>store not<br>supported  | X                            | X              | X        | X                 |
| m4.16xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | X              | x        | X                 |
|               |                       |                                     | R3                           |                |          |                   |
| r3.large      | ✓                     | x                                   | x                            | x              | x        | x                 |
| r3.xlarge     | ✓                     | X                                   | X                            | X              | X        | X                 |
| r3.2xlarge    | ✓                     | X                                   | X                            | X              | X        | X                 |
| r3.4xlarge    | ✓                     | X                                   | X                            | X              | X        | X                 |
| r3.8xlarge    | ✓                     | X                                   | X                            | X              | X        | X                 |
|               |                       |                                     | R4                           |                |          |                   |

| Instance type | EBS<br>encryptio<br>n | Instance<br>store<br>encryptio<br>n | Encryptio<br>n in<br>transit | AMD<br>SEV-SNP | NitroTPM | Nitro<br>Enclaves |
|---------------|-----------------------|-------------------------------------|------------------------------|----------------|----------|-------------------|
| r4.large      | ✓                     | Instance<br>store not<br>supported  | X                            | x              | X        | X                 |
| r4.xlarge     | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | x                 |
| r4.2xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
| r4.4xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | X        | X                 |
| r4.8xlarge    | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | x                 |
| r4.16xlarge   | ✓                     | Instance<br>store not<br>supported  | x                            | x              | x        | X                 |
|               |                       |                                     | T1                           |                |          |                   |
| t1.micro      | ✓                     | Instance<br>store not<br>supported  | x                            | x              | X        | X                 |

# **Amazon EC2 instance types by Region**

An Amazon EC2 instance is tied to the zone in which it was launched. The ID of an instance is tied to the Region for the instance, and can only be used in this Region.

When you create your AWS account, we set default quotas on these resources on a per-Region basis. We monitor your usage within each Region and raise your quotas automatically based on your use of Amazon EC2. For more information, see *Quotas*.

Each Region supports a subset of the available instance types.

#### US East (Ohio) — us-east-2

The following instance types are available in US East (Ohio).

- General Purpose: A1 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | Mac2-m2 | Mac2-m2pro | T2 | T3 | T3a | T4g
- Compute Optimized: C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in |
   C7a | C7g | C7gd | C7gn | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
   R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | X1 | X2gd | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | D3 | H1 | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: G3 | G4ad | G4dn | G5 | G6 | Gr6 | Inf1 | Inf2 | P2 | P3 | P4d | P5 | Trn1 |
   Trn1n
- High Performance Computing: Hpc6a | Hpc6id | Hpc7a
- **Previous Generation:** A1 | C4 | I2 | M4 | R3 | R4

# US East (N. Virginia) — us-east-1

The following instance types are available in US East (N. Virginia).

General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | Mac2-m2 | Mac2-m2pro | T1 | T2 | T3 | T3a | T4g

US East (Ohio) 349

Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
 C6id | C6in | C7a | C7g | C7gd | C7gn | C7i

- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
   R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 |
   U-24tb1 | X1 | X2gd | X2idn | X2iedn | X2iezn | X1e | z1d
- Storage Optimized: D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: DL1 | F1 | G3 | G4ad | G4dn | G5 | G5g | G6 | Gr6 | Inf1 | Inf2 | P2 | P3 |
   P3dn | P4d | P5 | Trn1 | Trn1n | VT1
- High Performance Computing: Hpc7g
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

## US West (N. California) — us-west-1

The following instance types are available in US West (N. California).

- General Purpose: M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5zn | M6a | M6g | M6gd | M6i | M6idn | M6in | M7g | M7gd | M7i | M7i-flex | T1 | T2 | T3 | T3a | T4g
- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6in |
   C7g | C7gd | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5d | R5n | R6a | R6g | R6gd | R6i | R7g | R7gd |
   R7i | X2idn | X2iedn | z1d
- Storage Optimized: D2 | I2 | I3 | I3en | I4i
- Accelerated Computing: G3 | G4dn | Inf1
- Previous Generation: C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

# US West (Oregon) — us-west-2

The following instance types are available in US West (Oregon).

- General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | Mac2-m2 | Mac2-m2pro | T1 | T2 | T3 | T3a | T4g
- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
   C6id | C6in | C7a | C7g | C7gd | C7gn | C7i

US West (N. California) 350

Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
 R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 |
 U-24tb1 | X1 | X2gd | X2idn | X2iedn | X2iezn | X1e | z1d

- Storage Optimized: D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: DL1 | DL2q | F1 | G3 | G4ad | G4dn | G5 | G5g | G6 | Gr6 | Inf1 | Inf2 | P2 | P3 | P3dn | P4d | P5 | Trn1 | Trn1n | VT1
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

# Africa (Cape Town) — af-south-1

The following instance types are available in Africa (Cape Town).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | T3 | T4g
- Compute Optimized: C5 | C5a | C5ad | C5d | C5n | C6g | C6i | C6in
- Memory Optimized: R5 | R5d | R5dn | R5n | R6g | R6i | X1 | X2idn | X2iedn | X1e
- Storage Optimized: D2 | I3 | I3en | I4i
- Accelerated Computing: G4dn | Inf1

### Asia Pacific (Hong Kong) — ap-east-1

The following instance types are available in Asia Pacific (Hong Kong).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | T3 | T4g
- Compute Optimized: C5 | C5a | C5d | C5n | C6g | C6gn | C6i | C6in
- Memory Optimized: R5 | R5d | R5n | R6g | R6i | X1
- Storage Optimized: D2 | I3 | I3en | I4i
- Accelerated Computing: G4dn | Inf1

## Asia Pacific (Hyderabad) — ap-south-2

The following instance types are available in Asia Pacific (Hyderabad).

• General Purpose: M5 | M5d | M6a | M6g | M6gd | M6i | M7g | T3 | T4g

Africa (Cape Town) 351

- Compute Optimized: C5 | C5d | C6q | C6i | C6in | C7q
- Memory Optimized: R5 | R5d | R6g | R6i | R7g | U-9tb1 | X2idn | X2iedn

• Storage Optimized: 13 | 13en | 14i

# Asia Pacific (Jakarta) — ap-southeast-3

The following instance types are available in Asia Pacific (Jakarta).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | T3 | T4g
- **Compute Optimized:** C5 | C5d | C5n | C6g | C6gd | C6gn | C6in
- Memory Optimized: R5 | R5d | R6q | R6qd | R7i | X2idn | X2iedn
- Storage Optimized: I3 | I3en | I4i
- Accelerated Computing: G5

## Asia Pacific (Melbourne) — ap-southeast-4

The following instance types are available in Asia Pacific (Melbourne).

- General Purpose: M5 | M5d | M6g | M6gd | T3 | T4g
- Compute Optimized: C5 | C5d | C6g | C6in
- Memory Optimized: R5 | R5d | R6g
- Storage Optimized: I3 | I3en | I4i

## Asia Pacific (Mumbai) — ap-south-1

The following instance types are available in Asia Pacific (Mumbai).

- **General Purpose:** A1 | M4 | M5 | M5a | M5ad | M5d | M6a | M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | Mac1 | T2 | T3 | T3a | T4g
- Compute Optimized: C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6in | C7g | C7gd |
   C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5d | R5n | R6a | R6g | R6gd | R6i | R6id | R7g |
   R7gd | R7i | U-6tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | D3 | I2 | I3 | I3en | I4i | Is4gen

Asia Pacific (Jakarta) 352

- Accelerated Computing: G4dn | G5 | Inf1 | Inf2 | P2
- Previous Generation: A1 | C4 | I2 | M4 | R3 | R4

## Asia Pacific (Osaka) — ap-northeast-3

The following instance types are available in Asia Pacific (Osaka).

- General Purpose: M4 | M5 | M5d | M6g | M6gd | M6i | T2 | T3 | T4g
- Compute Optimized: C4 | C5 | C5d | C5n | C6g | C6gd | C6gn | C6i
- Memory Optimized: R4 | R5 | R5d | R6g | R6gd | R6i | X1 | X2idn | X2iedn | X1e
- Storage Optimized: D2 | I3 | I3en | I4i
- Accelerated Computing: G4dn
- Previous Generation: C4 | M4 | R4

# Asia Pacific (Seoul) — ap-northeast-2

The following instance types are available in Asia Pacific (Seoul).

- General Purpose: M4 | M5 | M5a | M5ad | M5d | M5zn | M6g | M6gd | M6i | M6id | M7g | M7i | M7i-flex | Mac1 | T2 | T3 | T3a | T4g
- Compute Optimized: C4 | C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6g | R6gd | R6i | R6id |
   R7g | R7i | U-6tb1 | U-9tb1 | U-12tb1 | U-24tb1 | X1 | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | I2 | I3 | I3en | I4i
- Accelerated Computing: G3 | G4dn | G5 | G5g | Inf1 | P2 | P3 | P4d
- Previous Generation: C4 | I2 | M4 | R3 | R4

## Asia Pacific (Singapore) — ap-southeast-1

The following instance types are available in Asia Pacific (Singapore).

General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | T1 | T2 | T3 | T3a | T4g

Asia Pacific (Osaka) 353

- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
   C6id | C6in | C7g | C7gd | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7g | R7gd | R7i | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | D3 | D3en | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: G3 | G4dn | G5g | Inf1 | Inf2 | P2 | P3
- High Performance Computing: Hpc6a
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

## Asia Pacific (Sydney) — ap-southeast-2

The following instance types are available in Asia Pacific (Sydney).

- General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2-m2 | Mac2-m2pro | T1 | T2 | T3 | T3a | T4g
- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
   C6id | C6in | C7g | C7gd | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
   R6id | R7g | R7gd | R7i | U-3tb1 | U-6tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | D3 | I2 | I3 | I3en | I4i | Im4gn | Is4gen
- Accelerated Computing: F1 | G3 | G4dn | G5 | Inf1 | P2 | P3
- High Performance Computing: Hpc6a
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

# Asia Pacific (Tokyo) — ap-northeast-1

The following instance types are available in Asia Pacific (Tokyo).

General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | T1 | T2 | T3 | T3a | T4g

Asia Pacific (Sydney) 354

- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id |
   C6in | C7a | C7g | C7gd | C7gn | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
   R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | X1 | X2idn | X2iedn | X2iezn | X1e | z1d
- Storage Optimized: D2 | D3 | D3en | I2 | I3 | I3en | I4i | Im4gn | Is4gen
- Accelerated Computing: G3 | G4ad | G4dn | G5 | G5g | Inf1 | Inf2 | P2 | P3 | P3dn | P4d | VT1
- High Performance Computing: Hpc7g
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

#### Canada (Central) — ca-central-1

The following instance types are available in Canada (Central).

- General Purpose: M4 | M5 | M5a | M5ad | M5d | M6a | M6g | M6gd | M6i | M6id | M7g | M7i | M7i-flex | T2 | T3 | T3a | T4g
- Compute Optimized: C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6in | C7g | C7i
- Memory Optimized: R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R7g | R7i | U-3tb1 |
   U-6tb1 | X1 | X2idn | X2iedn | X1e
- Storage Optimized: D2 | D3 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: G3 | G4ad | G4dn | G5 | Inf1 | P3
- Previous Generation: C4 | M4 | R4

## Canada West (Calgary) — ca-west-1

The following instance types are available in Canada West (Calgary).

- **General Purpose:** M5 | M5d | M6g | M6gd | M6i | M6id | T3 | T4g
- Compute Optimized: C5 | C6g | C6gn | C6i | C6id
- Memory Optimized: R5 | R6g | R6i | R6id
- Storage Optimized: I3en | I4i

Canada (Central) 355

# Europe (Frankfurt) — eu-central-1

The following instance types are available in Europe (Frankfurt).

General Purpose: A1 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2-m2 | T2 | T3 | T3a | T4g

- Compute Optimized: C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id |
   C6in | C7a | C7g | C7gd | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i |
   R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e | z1d
- Storage Optimized: D2 | D3 | D3en | I2 | I3 | I3en | I4i | Im4gn | Is4gen
- Accelerated Computing: DL2q | F1 | G3 | G4ad | G4dn | G5 | G5g | Inf1 | Inf2 | P2 | P3 | P4d
- Previous Generation: A1 | C3 | C4 | I2 | M3 | M4 | R3 | R4

## Europe (Ireland) — eu-west-1

The following instance types are available in Europe (Ireland).

- General Purpose: A1 | M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | Mac1 | Mac2 | T1 | T2 | T3 | T3a | T4g
- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
   C6id | C6in | C7a | C7g | C7gd | C7gn | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | X1 | X2gd | X2idn | X2iedn | X2iezn | X1e | z1d
- Storage Optimized: D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated Computing: F1 | G3 | G4ad | G4dn | G5 | Inf1 | Inf2 | P2 | P3 | P3dn | P4d | VT1
- **High Performance Computing:** Hpc7a | Hpc7g
- Previous Generation: A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

Europe (Frankfurt) 356

# Europe (London) — eu-west-2

The following instance types are available in Europe (London).

- General Purpose: M4 | M5 | M5a | M5ad | M5d | M6a | M6g | M6gd | M6i | M7g | M7i | M7i-flex |
   Mac1 | T2 | T3 | T3a | T4g
- Compute Optimized: C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g |
   C7i
- Memory Optimized: R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R6id | R7g | R7i |
   U-6tb1 | U-9tb1 | X1 | X2idn | X2iedn | z1d
- Storage Optimized: D2 | D3 | I3 | I3en | I4i | Im4gn | Is4gen
- Accelerated Computing: F1 | G3 | G4ad | G4dn | G5 | Inf1 | P3
- Previous Generation: C4 | M4 | R4

## Europe (Milan) — eu-south-1

The following instance types are available in Europe (Milan).

- General Purpose: M5 | M5a | M5d | M6a | M6g | M6gd | M6i | T3 | T3a | T4g
- Compute Optimized: C5 | C5a | C5ad | C5d | C5n | C6g | C6gn | C6i | C6in
- Memory Optimized: R5 | R5a | R5b | R5d | R5dn | R5n | R6g | R6i | U-3tb1 | U-6tb1 | U-12tb1 |
   X2idn | X2iedn
- Storage Optimized: D2 | 13 | 13en | 14i
- Accelerated Computing: G4dn | Inf1

## Europe (Paris) — eu-west-3

The following instance types are available in Europe (Paris).

- General Purpose: M5 | M5a | M5ad | M5d | M6g | M6gd | M6i | M7g | M7gd | M7i | M7i-flex | T2 |
   T3 | T3a | T4g
- Compute Optimized: C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in | C7i
- Memory Optimized: R4 | R5 | R5a | R5ad | R5d | R5dn | R5n | R6g | R6gd | R6i | R7i | U-6tb1 | X1 |
   X2idn | X2iedn

Europe (London) 357

- Storage Optimized: D2 | 13 | 13en | 14i | Im4gn | Is4gen
- Accelerated Computing: G4dn | Inf1

• Previous Generation: R4

## Europe (Spain) — eu-south-2

The following instance types are available in Europe (Spain).

- General Purpose: M5 | M5d | M6g | M6gd | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | T3
   | T4g
- Compute Optimized: C5 | C5d | C6g | C6in | C7a | C7g | C7gd | C7i
- Memory Optimized: R5 | R5d | R6g | R7a | R7g | R7gd | R7i | U-6tb1 | X2idn | X2iedn
- Storage Optimized: 13 | 13en
- Accelerated Computing: G5g

## Europe (Stockholm) — eu-north-1

The following instance types are available in Europe (Stockholm).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex
   | Mac1 | T3 | T4g
- Compute Optimized: C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in | C7a | C7g | C7gd | C7i
- Memory Optimized: R5 | R5b | R5d | R5dn | R5n | R6g | R6gd | R6i | R6idn | R6in | R7a | R7g |
   R7gd | R7i | U-6tb1 | U-9tb1 | X2idn | X2iedn
- **Storage Optimized:** D2 | I3 | I3en | I4i
- Accelerated Computing: G4dn | G5 | Inf1 | P5
- **High Performance Computing:** Hpc6a | Hpc6id | Hpc7a

# Europe (Zurich) — eu-central-2

The following instance types are available in Europe (Zurich).

• General Purpose: M5 | M5d | M6g | M6gd | M6i | M6id | T3 | T4g

Europe (Spain) 358

- Compute Optimized: C5 | C5d | C6g | C6gd | C6in
- Memory Optimized: R5 | R5d | R6g | R6gd | R6i | U-6tb1 | X2idn
- Storage Optimized: D3 | I3 | I3en | I4i

# Israel (Tel Aviv) — il-central-1

The following instance types are available in Israel (Tel Aviv).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | M6id | T3 | T3a | T4g
- Compute Optimized: C5 | C5d | C6g | C6gn | C6i | C6id | C6in
- Memory Optimized: R5 | R5d | R6g | R6i | R6id
- Storage Optimized: D3 | I3 | I3en | I4i
- Accelerated Computing: G5 | P4de

### Middle East (Bahrain) — me-south-1

The following instance types are available in Middle East (Bahrain).

- General Purpose: M5 | M5d | M6q | M6qd | M6i | M7q | T3 | T4q
- Compute Optimized: C5 | C5a | C5ad | C5d | C5n | C6g | C6gn | C6i | C6in
- Memory Optimized: R5 | R5d | R6g | R6i
- Storage Optimized: D2 | I3 | I3en | I4i
- Accelerated Computing: G4dn | Inf1

### Middle East (UAE) — me-central-1

The following instance types are available in Middle East (UAE).

- General Purpose: M5 | M5d | M6g | M6gd | M6i | T3 | T4g
- Compute Optimized: C5 | C5d | C6g | C6in
- Memory Optimized: R5 | R5d | R6g | R6i | X2idn
- Storage Optimized: 13 | 13en | 14i
- Accelerated Computing: G5

Israel (Tel Aviv) 359

# South America (São Paulo) — sa-east-1

The following instance types are available in South America (São Paulo).

General Purpose: M1 | M2 | M3 | M4 | M5 | M5a | M5ad | M5d | M5zn | M6a | M6g | M6gd | M6i |
 M6id | M7g | M7i | M7i-flex | T1 | T2 | T3 | T3a | T4g

- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
   C6in | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R7i | U-3tb1 |
   U-6tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e
- Storage Optimized: 13 | 13en | 14i
- Accelerated Computing: G4dn | G5 | Inf1
- Previous Generation: C1 | C3 | C4 | M1 | M2 | M3 | M4 | R3 | R4 | T1

South America (São Paulo) 360

# Instances built on the AWS Nitro System

The Nitro System is a collection of hardware and software components built by AWS that enable high performance, high availability, and high security. For more information, see AWS Nitro System.

The Nitro System provides bare metal capabilities that eliminate virtualization overhead and support workloads that require full access to host hardware. Bare metal instances are well suited for the following:

- Workloads that require access to low-level hardware features (for example, Intel VT) that are not available or fully supported in virtualized environments
- Applications that require a non-virtualized environment for licensing or support

## Nitro components

The following components are part of the Nitro System:

- Nitro card
  - Local NVMe storage volumes
  - Networking hardware support
  - Management
  - Monitoring
  - Security
- Nitro security chip, integrated into the motherboard
- Nitro hypervisor A lightweight hypervisor that manages memory and CPU allocation and delivers performance that is indistinguishable from bare metal for most workloads.

## Virtualized instances

The following virtualized instances are built on the Nitro System:

- General purpose: M5 | M5a | M5ad | M5d | M5dn | M5n | M5zn | M6a | M6g | M6gd | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | T3 | T3a | T4g
- Compute optimized: C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a
   | C7g | C7gd | C7gn | C7i

Nitro components 361

Memory optimized: R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X2gd | X2idn | X2iedn | X2iezn | z1d

- Storage optimized: D3 | D3en | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated computing: DL1 | DL2q | G4ad | G4dn | G5 | G5g | G6 | Gr6 | Inf1 | Inf2 | P3dn | P4d |
   P4de | P5 | Trn1 | Trn1n | VT1
- High-performance computing: Hpc6a | Hpc6id | Hpc7a | Hpc7g
- Previous generation: A1

### **Bare metal instances**

The following bare metal instances are built on the Nitro System:

- General purpose: m5.metal | m5d.metal | m5dn.metal | m5n.metal | m5zn.metal | m6a.metal | m6g.metal | m6gd.metal | m6i.metal | m6id.metal | m6idn.metal | m6in.metal | m7a.metal-48xl | m7g.metal | m7gd.metal | m7i.metal-24xl | m7i.metal-48xl | mac1.metal | mac2.metal | mac2-m2.metal | mac2-m2pro.metal
- Compute optimized: c5.metal | c5d.metal | c5n.metal | c6a.metal | c6g.metal | c6gd.metal | c6i.metal | c6id.metal | c6in.metal | c7a.metal 48xl | c7g.metal | c7gd.metal | c7gn.metal | c7i.metal 24xl | c7i.metal 48xl
- Memory optimized: r5.metal | r5b.metal | r5d.metal | r5dn.metal | r5n.metal | r6a.metal | r6g.metal | r6gd.metal | r6i.metal | r6idn.metal | r6id.metal | r7a.metal | r7g.metal | r7gd.metal | r7i.metal | r7i.metal | r7i.metal | r7iz.metal | r7iz.me
- Storage optimized: i3.metal | i3en.metal | i4i.metal
- Accelerated computing: g4dn.metal | g5g.metal
- Previous generation: a1.metal

Launching a bare metal instance boots the underlying server, which includes verifying all hardware and firmware components. This means that it can take 20 minutes from the time the instance enters the running state until it becomes available over the network.

Bare metal instances 362

# Requirements

- Instances built on the Nitro System have the following driver requirements:
  - NVMe drivers must be installed
  - Elastic Network Adapter (ENA) drivers must be installed

The current AWS Windows AMIs meet these requirements and the following Linux AMIs meet these requirements:

- AL2023
- Amazon Linux 2
- Ubuntu 14.04 or later with the linux-aws kernel
- Red Hat Enterprise Linux 7.4 or later
- SUSE Linux Enterprise Server 12 SP2 or later
- CentOS 7.4.1708 or later
- FreeBSD 11.1 or later
- Debian GNU/Linux 9 or later
- Instances with AWS Graviton processors have the following requirements:
  - An AMI for the 64-bit Arm architecture
  - Support for booting through UEFI with ACPI tables and ACPI hot-plug of PCI devices

The following AMIs meet these requirements:

- Amazon Linux 2 (64-bit Arm)
- Ubuntu 16.04 or later (64-bit Arm) with the linux-aws kernel
- Red Hat Enterprise Linux 8.0 or later (64-bit Arm)
- SUSE Linux Enterprise Server 15 or later (64-bit Arm)
- Debian 10 or later (64-bit Arm)

Requirements 363

# **Amazon EC2 instance type quotas**

The following quotas apply to Amazon EC2 instances by default.

#### Quotas

- On-Demand Instance quotas
- Spot Instance quotas
- Dedicated Host quotas

# **On-Demand Instance quotas**

The following table shows the maximum number of vCPUs that you can provision for On-Demand Instances per instance type. For more information, see <u>On-Demand Instance quotas</u> in the *Amazon EC2 User Guide*.

| Name   | Default | Adjustable |
|--|---------|------------|
| Running On-Demand DL instances                                   | 0       | Yes        |
| Running On-Demand F instances                                    | 0       | Yes        |
| Running On-Demand G and VT instances                             | 0       | Yes        |
| Running On-Demand HPC instances                                  | 0       | <u>Yes</u> |
| Running On-Demand High Memory instances                          | 0       | Yes        |
| Running On-Demand Inf instances                                  | 0       | Yes        |
| Running On-Demand P instances                                    | 0       | <u>Yes</u> |
| Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances | 5       | <u>Yes</u> |
| Running On-Demand Trn instances                                  | 0       | Yes        |
| Running On-Demand X instances                                    | 0       | Yes        |

On-Demand Instance quotas 364

# **Spot Instance quotas**

The following table shows the maximum number of vCPUs that you can provision for Spot Instances per instance type. For more information, see <a href="Spot Instance quotas">Spot Instance quotas</a> in the Amazon EC2 User Guide.

| Name   | Default | Adjustable |
|--|---------|------------|
| All DL Spot Instance Requests                                      | 0       | <u>Yes</u> |
| All F Spot Instance Requests                                       | 0       | <u>Yes</u> |
| All G and VT Spot Instance Requests                                | 0       | <u>Yes</u> |
| All Inf Spot Instance Requests                                     | 0       | <u>Yes</u> |
| All P4, P3 and P2 Spot Instance Requests                           | 0       | <u>Yes</u> |
| All P5 Spot Instance Requests                                      | 0       | <u>Yes</u> |
| All Standard (A, C, D, H, I, M, R, T, Z) Spot Instance<br>Requests | 5       | Yes        |
| All Trn Spot Instance Requests                                     | 0       | <u>Yes</u> |
| All X Spot Instance Requests                                       | 0       | Yes        |

# **Dedicated Host quotas**

The following table shows the maximum number of running Dedicated Hosts that you can allocate per instance type.

| Name                       | Default | Adjustable |
|----------------------------|---------|------------|
| Running Dedicated a1 Hosts | 0       | <u>Yes</u> |
| Running Dedicated c3 Hosts | 0       | <u>Yes</u> |
| Running Dedicated c4 Hosts | 0       | <u>Yes</u> |

Spot Instance quotas 365

| Name                         | Default | Adjustable |
|------------------------------|---------|------------|
| Running Dedicated c5 Hosts   | 0       | Yes        |
| Running Dedicated c5a Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c5d Hosts  | 0       | Yes        |
| Running Dedicated c5n Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c6a Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c6g Hosts  | 0       | Yes        |
| Running Dedicated c6gd Hosts | 0       | <u>Yes</u> |
| Running Dedicated c6gn Hosts | 0       | <u>Yes</u> |
| Running Dedicated c6i Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c6id Hosts | 0       | <u>Yes</u> |
| Running Dedicated c6in Hosts | 0       | <u>Yes</u> |
| Running Dedicated c7a Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c7g Hosts  | 0       | <u>Yes</u> |
| Running Dedicated c7gd Hosts | 0       | <u>Yes</u> |
| Running Dedicated c7gn Hosts | 0       | <u>Yes</u> |
| Running Dedicated c7i Hosts  | 0       | <u>Yes</u> |
| Running Dedicated d2 Hosts   | 0       | <u>Yes</u> |
| Running Dedicated dl1 Hosts  | 0       | <u>Yes</u> |
| Running Dedicated f1 Hosts   | 0       | Yes        |
| Running Dedicated g3 Hosts   | 0       | Yes        |

| Name                           | Default | Adjustable |
|--------------------------------|---------|------------|
| Running Dedicated g3s Hosts    | 0       | Yes        |
| Running Dedicated g4ad Hosts   | 0       | <u>Yes</u> |
| Running Dedicated g4dn Hosts   | 0       | <u>Yes</u> |
| Running Dedicated g5 Hosts     | 0       | <u>Yes</u> |
| Running Dedicated g5g Hosts    | 0       | Yes        |
| Running Dedicated g6 Hosts     | 0       | <u>Yes</u> |
| Running Dedicated gr6 Hosts    | 0       | <u>Yes</u> |
| Running Dedicated h1 Hosts     | 0       | <u>Yes</u> |
| Running Dedicated i2 Hosts     | 0       | Yes        |
| Running Dedicated i3 Hosts     | 0       | <u>Yes</u> |
| Running Dedicated i3en Hosts   | 0       | Yes        |
| Running Dedicated i4g Hosts    | 0       | <u>Yes</u> |
| Running Dedicated i4i Hosts    | 0       | <u>Yes</u> |
| Running Dedicated im4gn Hosts  | 0       | <u>Yes</u> |
| Running Dedicated inf Hosts    | 0       | Yes        |
| Running Dedicated inf2 Hosts   | 0       | <u>Yes</u> |
| Running Dedicated is4gen Hosts | 0       | <u>Yes</u> |
| Running Dedicated m3 Hosts     | 0       | Yes        |
| Running Dedicated m4 Hosts     | 0       | Yes        |
| Running Dedicated m5 Hosts     | 0       | Yes        |

| Name                            | Default | Adjustable |
|---------------------------------|---------|------------|
| Running Dedicated m5a Hosts     | 0       | Yes        |
| Running Dedicated m5ad Hosts    | 0       | Yes        |
| Running Dedicated m5d Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m5dn Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m5n Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m5zn Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m6a Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m6g Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m6gd Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m6i Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m6id Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m6idn Hosts   | 0       | <u>Yes</u> |
| Running Dedicated m6in Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m7a Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m7g Hosts     | 0       | <u>Yes</u> |
| Running Dedicated m7gd Hosts    | 0       | <u>Yes</u> |
| Running Dedicated m7i Hosts     | 0       | <u>Yes</u> |
| Running Dedicated mac1 Hosts    | 0       | Yes        |
| Running Dedicated mac2 Hosts    | 0       | Yes        |
| Running Dedicated mac2-m2 Hosts | 0       | <u>Yes</u> |

| Name                               | Default | Adjustable |
|------------------------------------|---------|------------|
| Running Dedicated mac2-m2pro Hosts | 0       | Yes        |
| Running Dedicated p2 Hosts         | 0       | Yes        |
| Running Dedicated p3 Hosts         | 0       | <u>Yes</u> |
| Running Dedicated p3dn Hosts       | 0       | <u>Yes</u> |
| Running Dedicated p4d Hosts        | 0       | <u>Yes</u> |
| Running Dedicated p5 Hosts         | 0       | <u>Yes</u> |
| Running Dedicated r3 Hosts         | 0       | <u>Yes</u> |
| Running Dedicated r4 Hosts         | 0       | <u>Yes</u> |
| Running Dedicated r5 Hosts         | 0       | <u>Yes</u> |
| Running Dedicated r5a Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r5ad Hosts       | 0       | <u>Yes</u> |
| Running Dedicated r5b Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r5d Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r5dn Hosts       | 0       | <u>Yes</u> |
| Running Dedicated r5n Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r6a Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r6g Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r6gd Hosts       | 0       | Yes        |
| Running Dedicated r6i Hosts        | 0       | <u>Yes</u> |
| Running Dedicated r6id Hosts       | 0       | Yes        |

| Name                            | Default | Adjustable |
|---------------------------------|---------|------------|
| Running Dedicated r6idn Hosts   | 0       | Yes        |
| Running Dedicated r6in Hosts    | 0       | <u>Yes</u> |
| Running Dedicated r7a Hosts     | 0       | Yes        |
| Running Dedicated r7g Hosts     | 0       | <u>Yes</u> |
| Running Dedicated r7gd Hosts    | 0       | <u>Yes</u> |
| Running Dedicated r7i Hosts     | 0       | <u>Yes</u> |
| Running Dedicated r7iz Hosts    | 0       | Yes        |
| Running Dedicated t3 Hosts      | 0       | <u>Yes</u> |
| Running Dedicated trn1 Hosts    | 0       | <u>Yes</u> |
| Running Dedicated trn1n Hosts   | 0       | <u>Yes</u> |
| Running Dedicated u-12tb1 Hosts | 0       | <u>Yes</u> |
| Running Dedicated u-18tb1 Hosts | 0       | <u>Yes</u> |
| Running Dedicated u-24tb1 Hosts | 0       | <u>Yes</u> |
| Running Dedicated u-3tb1 Hosts  | 0       | <u>Yes</u> |
| Running Dedicated u-6tb1 Hosts  | 0       | Yes        |
| Running Dedicated u-9tb1 Hosts  | 0       | <u>Yes</u> |
| Running Dedicated vt1 Hosts     | 0       | <u>Yes</u> |
| Running Dedicated x1 Hosts      | 0       | Yes        |
| Running Dedicated x1e Hosts     | 0       | Yes        |
| Running Dedicated x2gd Hosts    | 0       | Yes        |

| Name                           | Default | Adjustable |
|--------------------------------|---------|------------|
| Running Dedicated x2idn Hosts  | 0       | <u>Yes</u> |
| Running Dedicated x2iedn Hosts | 0       | <u>Yes</u> |
| Running Dedicated x2iezn Hosts | 0       | <u>Yes</u> |
| Running Dedicated z1d Hosts    | 0       | <u>Yes</u> |

# **Document history for the Amazon EC2 Instance Types Guide**

The following table describes the documentation releases for Amazon EC2.

| Change                                     | Description  | Date              |
|--|--|-------------------|
| New accelerated instance types: g6 and gr6 | New high performance GPU-<br>based instance types for<br>deep learning inference and<br>graphics-intensive applicati<br>ons.   | April 4, 2024     |
| C7gn bare metal instance                   | New c7gn.metal bare<br>metal instance type powered<br>by the latest generation AWS<br>Graviton3E processors and<br>the new AWS Nitro cards.  | March 26, 2024    |
| New bare metal instances                   | Bare metal instances for C7gd, M7gd, and R7gd.   | March 6, 2024     |
| <u>DL2q instances</u>                      | New instances that use Qualcomm AI100 inference accelerators, which feature 7th generation Qualcomm Edge AI cores. These instances can be used to cost-efficiently deploy deep learning (DL) workloads in the cloud or validate performance and accuracy of DL workloads that will be deployed on Qualcomm edge devices. | November 15, 2023 |

| Mac2-m2 instances    | New general purpose instance type that features Apple M2 processors.   | October 25, 2023   |
|----------------------|--|--------------------|
| R7i instances        | New memory optimized instance types that feature 4th generation Intel Xeon Scalable processors.                            | October 16, 2023   |
| <u>C7a instances</u> | New compute optimized instances powered by 4th generation AMD EPYC processors.   | October 4, 2023    |
| Mac2-m2pro instances | New general purpose instance type that features Apple M2 Pro processors.   | September 18, 2023 |
| C7i instances        | New compute optimized instance types that feature 4th generation Intel Xeon Scalable processors.                           | September 14, 2023 |
| R7a instances        | New memory optimized instance types featuring 4th generation AMD EPYC 9R14 processors and up to 1536 GiB of system memory. | September 11, 2023 |
| R7iz instances       | New high-frequency and high memory instances powered by 4th generation Intel Xeon processors.                              | September 7, 2023  |

| Hpc7a instances    | New compute optimized instance types that feature 4th generation AMD EPYC processors. These instances support up to 300 Gbps networking bandwidth, and up to 192 CPU cores with up to 768 GB of system memory.   | August 17, 2023 |
|--------------------|--|-----------------|
| M7a instances      | New general purpose instances powered by 4th generation AMD EPYC processors.   | August 15, 2023 |
| M7i-flex instances | New general purpose instances that offer a balance of compute, memory, and network resources for a broad spectrum of general purpose applications. They deliver a baseline CPU performance of 40 percent with the ability to deliver up to 100 percent CPU performance for 95 percent of the time over a 24-hour period. | August 2, 2023  |
| M7i instances      | New general purpose instance types that feature 4th generation Intel Xeon Scalable processors.   | August 2, 2023  |
| R7gd instances     | New memory optimized instances featuring the latest AWS Graviton3 processors.  | July 28, 2023   |

| M7gd instances  | New general purpose instances featuring the latest AWS Graviton3 processors.  | July 28, 2023 |
|-----------------|---|---------------|
| C7gd instances  | New compute optimized instances featuring the latest AWS Graviton3 processors.  | July 28, 2023 |
| P5 instances    | New accelerated computing instances that feature 8 NVIDIA H100 GPUs with 640 GB high-bandwidth GPU memory, 3rd generation AMD EPYC processors, and 2 TB system memory.                  | July 26, 2023 |
| Hpc7g instances | New high-performance computing instances powered by AWS Graviton3E processor s that provide up to 35 percent higher vectorinstruction processing performance than Graviton3 processors. | June 20, 2023 |
| C7gn instances  | New compute optimized instances powered by the latest generation AWS Graviton3E processors and the new AWS Nitro cards. These instances offer up to 200 Gbps network bandwidth.         | June 20, 2023 |

| <u>Trn1n instances</u>   | New accelerated computing instances optimized for machine learning training powered by AWS Trainium accelerators. | April 13, 2023    |
|--------------------------|---|-------------------|
| Inf2 instances           | New instances featuring AWS Inferentia2 accelerators, the latest machine learning chip designed by AWS.           | April 13, 2023    |
| Hpc6id instance          | New memory optimized instance featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).                 | November 29, 2022 |
| R6in and R6idn instances | New memory optimized instances for network-i ntensive workloads.  | November 28, 2022 |
| M6in and M6idn instances | New general computing instances types.  | November 28, 2022 |
| C6in instances           | New compute optimized instances ideal for running high performance computing.                                     | November 28, 2022 |
| <u>Trn1 instances</u>    | New accelerated computing instances optimized for deep learning powered by AWS Trainium chips.                    | October 10, 2022  |
| R6a instances            | New memory optimized instances featuring 3rd generation AMD EPYC processors.                                      | July 19, 2022     |

| R6id instances             | New memory optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).  | June 9, 2022      |
|----------------------------|---|-------------------|
| M6id instances             | New general purpose instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).   | May 26, 2022      |
| C6id instances             | New compute optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | May 26, 2022      |
| C7g instances              | New compute optimized instances featuring AWS Graviton3 processors.                                 | May 23, 2022      |
| <u>I4i instances</u>       | New storage optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | April 27, 2022    |
| X2idn and X2iedn instances | New memory optimized instances featuring Intel Xeon Scalable processors (Ice Lake).                 | March 10, 2022    |
| C6a instances              | New compute optimized instances featuring 3rd generation AMD EPYC processors (Milan).               | February 14, 2022 |
| X2iezn instances           | New memory optimized instances featuring Intel Xeon Platinum processors (Cascade Lake).             | January 26, 2022  |

| Hpc6a instances            | New compute optimized instances featuring AMD EPYC processors.  | January 10, 2022   |
|----------------------------|---|--------------------|
| Im4gn and Is4gen instances | New storage optimized instances.  | November 30, 2021  |
| M6a instances              | New general purpose instances powered by AMD 3rd Generation EPYC processors.  | November 29, 2021  |
| G5g instances              | New accelerated computing instances featuring AWS Graviton2 processors based on 64-bit Arm architecture.                                | November 29, 2021  |
| R6i instances              | New memory optimized instances.   | November 22, 2021  |
| <u>G5 instances</u>        | New accelerated computing instances featuring up to 8 NVIDIA A10G GPUs and second generation AMD EPY processors.                        | November 11, 2021  |
| C6i instances              | New compute optimized instances featuring Intel Xeon Scalable processors (Ice Lake).  | October 28, 2021   |
| VT1 instances              | New accelerated computing instances that use Xilinx Alveo U30 media accelerators and are designed for live video transcoding workloads. | September 13, 2021 |

| M6i instances                     | New general purpose instances featuring third generation Intel Xeon Scalable processors (Ice Lake).  | August 16, 2021   |
|-----------------------------------|--|-------------------|
| High memory virtualized instances | Virtualized high memory instances purpose-built to run large in-memory databases. The new types are u-6tb1.56xlarge, u-6tb1.11 2xlarge, u-9tb1.112xlarge, and u-12tb1.112xlarge. | May 11, 2021      |
| X2gd instances                    | New memory optimized instances featuring an AWS Graviton2 processor based on 64-bit Arm architecture.  | March 16, 2021    |
| C6gn instances                    | New computed optimized instances featuring an AWS Graviton2 processor based on 64-bit Arm architecture. These instances can utilize up to 100 Gbps of network bandwidth.         | December 18, 2020 |
| G4ad instances                    | New instances powered by<br>AMD Radeon Pro V520 GPUs<br>and AMD 2nd Generation<br>EPYC processors.   | December 9, 2020  |
| D3, D3en, M5zn, and R5b instances | New instance types built on the Nitro System.  | December 1, 2020  |
| Mac1 instances                    | New instances built on Apple Mac mini computers that support running macOS workloads on Amazon EC2.  | November 30, 2020 |

| P4d instances                     | New accelerated computing instances that provide a high-performance platform for machine learning and HPC workloads.   | November 2, 2020 |
|-----------------------------------|--|------------------|
| C5ad instances                    | New compute optimized instances featuring second-ge neration AMD EPYC processor s.   | August 13, 2020  |
| C6gd, M6gd, and R6gd<br>instances | New general purpose instances powered by AWS Graviton2 processors, which are based on 64-bit Arm Neoverse cores and custom silicon designed by AWS for optimized performance and cost. | July 27, 2020    |
| C6g and R6g instances             | New general purpose instances powered by AWS Graviton2 processors, which are based on 64-bit Arm Neoverse cores and custom silicon designed by AWS for optimized performance and cost. | June 10, 2020    |
| C5a instances                     | New compute optimized instances featuring second-ge neration AMD EPYC processor s.   | June 4, 2020     |

| M6g instances           | New general purpose instances powered by AWS Graviton2 processors, which are based on 64-bit Arm Neoverse cores and custom silicon designed by AWS for optimized performance and cost. | May 11, 2020       |
|-------------------------|--|--------------------|
| Inf1 instances          | New instances featuring AWS Inferentia, a machine learning inference chip designed to deliver high performance at a low cost.  | December 3, 2019   |
| G4dn instances          | New instances featuring NVIDIA Tesla GPUs.   | September 19, 2019 |
| <u>I3en instances</u>   | New I3en instances can utilize up to 100 Gbps of network bandwidth.  | May 8, 2019        |
| T3a instances           | New instances featuring AMD EPYC processors.   | April 24, 2019     |
| M5ad and R5ad instances | New instances featuring AMD EPYC processors.   | March 27, 2019     |
| p3dn.24xlarge instances | New instances that provide 100 Gbps of network bandwidth.  | December 7, 2018   |
| C5n instances           | New instances that provide up to 100 Gbps of network bandwidth.  | November 26, 2018  |
| A1 instances            | New instances featuring Armbased processors.   | November 26, 2018  |

| R5a instances | New instances featuring AMD EPYC processors. | November 6, 2018 |
|---------------|--|------------------|
| M5a instances | New instances featuring AMD EPYC processors. | November 6, 2018 |
| T3 instances  | New instances featuring AMD EPYC processors. | August 21, 2018  |