



Instance Types

Amazon EC2



Amazon EC2: Instance Types

Copyright © 2025 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

| | |
|--|----------|
| Instance types | 1 |
| Current generation instances | 2 |
| Previous generation instances | 2 |
| Instance performance | 3 |
| Naming conventions | 4 |
| Specifications | 6 |
| General purpose | 7 |
| Instance families and instance types | 8 |
| Instance family summary | 11 |
| Performance specifications | 15 |
| Network specifications | 36 |
| Amazon EBS specifications | 55 |
| Instance store specifications | 84 |
| Security specifications | 91 |
| Compute optimized | 119 |
| Instance families and instance types | 120 |
| Instance family summary | 122 |
| Performance specifications | 124 |
| Network specifications | 141 |
| Amazon EBS specifications | 154 |
| Instance store specifications | 177 |
| Security specifications | 183 |
| Memory optimized | 205 |
| Instance families and instance types | 206 |
| Instance family summary | 210 |
| Performance specifications | 214 |
| Network specifications | 239 |
| Amazon EBS specifications | 260 |
| Instance store specifications | 295 |
| Security specifications | 305 |
| Storage optimized | 337 |
| Instance families and instance types | 337 |
| Instance family summary | 339 |
| Performance specifications | 340 |

| | |
|--|------------|
| Network specifications | 350 |
| Amazon EBS specifications | 357 |
| Instance store specifications | 370 |
| Security specifications | 380 |
| Accelerated computing | 386 |
| Instance families and instance types | 387 |
| Instance family summary | 389 |
| Performance specifications | 391 |
| Network specifications | 406 |
| Amazon EBS specifications | 413 |
| Instance store specifications | 425 |
| Security specifications | 432 |
| High-performance computing | 439 |
| Instance families and instance types | 440 |
| Instance family summary | 441 |
| Performance specifications | 441 |
| Network specifications | 442 |
| Amazon EBS specifications | 443 |
| Instance store specifications | 446 |
| Security specifications | 446 |
| Previous generation | 448 |
| Instance families and instance types | 448 |
| Instance family summary | 449 |
| Performance specifications | 451 |
| Network specifications | 457 |
| Amazon EBS specifications | 461 |
| Instance store specifications | 468 |
| Security specifications | 470 |
| Instance types by Region | 477 |
| US East (N. Virginia) | 477 |
| US East (Ohio) | 478 |
| US West (N. California) | 478 |
| US West (Oregon) | 479 |
| Africa (Cape Town) | 479 |
| Asia Pacific (Hong Kong) | 479 |
| Asia Pacific (Hyderabad) | 480 |

| | |
|----------------------------------|------------|
| Asia Pacific (Jakarta) | 480 |
| Asia Pacific (Malaysia) | 480 |
| Asia Pacific (Melbourne) | 481 |
| Asia Pacific (Mumbai) | 481 |
| Asia Pacific (New Zealand) | 481 |
| Asia Pacific (Osaka) | 482 |
| Asia Pacific (Seoul) | 482 |
| Asia Pacific (Singapore) | 482 |
| Asia Pacific (Sydney) | 483 |
| Asia Pacific (Taipei) | 483 |
| Asia Pacific (Thailand) | 484 |
| Asia Pacific (Tokyo) | 484 |
| Canada (Central) | 484 |
| Canada West (Calgary) | 485 |
| China (Beijing) | 485 |
| China (Ningxia) | 485 |
| Europe (Frankfurt) | 486 |
| Europe (Ireland) | 486 |
| Europe (London) | 487 |
| Europe (Milan) | 487 |
| Europe (Paris) | 488 |
| Europe (Spain) | 488 |
| Europe (Stockholm) | 488 |
| Europe (Zurich) | 489 |
| Israel (Tel Aviv) | 489 |
| Mexico (Central) | 489 |
| Middle East (Bahrain) | 490 |
| Middle East (UAE) | 490 |
| South America (São Paulo) | 490 |
| AWS GovCloud (US-East) | 491 |
| AWS GovCloud (US-West) | 491 |
| AWS Nitro System | 492 |
| Nitro components | 492 |
| Network feature support | 493 |
| Virtualized instances | 494 |
| Bare metal instances | 496 |

| | |
|--|------------|
| Nitro instance requirements | 497 |
| Linux instances with AWS Graviton processors | 500 |
| Quotas | 501 |
| On-Demand Instance quotas | 501 |
| Spot Instance quotas | 502 |
| Dedicated Host quotas | 502 |
| Capacity Blocks quotas | 509 |
| Document history | 511 |

Amazon EC2 instance types

End of sale notice

The **U-9tb1**, **U-12tb1**, **U-18tb1**, and **U-24tb1** instance types are no longer available for new instance launches. If your workload requires a high-memory instance, we recommend that you use a U7i instance type instead.

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.

For pricing information, see [Amazon EC2 Pricing](#).

Topics

- [Current generation instances](#)
- [Previous generation instances](#)
- [Instance performance](#)

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 | M8g | M8gd | M8i | M8i-flex | Mac1 | Mac2 | Mac2-m1ultra | Mac2-m2 | Mac2-m2pro | Mac-m4 | Mac-m4pro | T2 | T3 | T3a | T4g
- **Compute optimized:** C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a | C7g | C7gd | C7gn | C7i | C7i-flex | C8g | C8gd | C8gn
- **Memory optimized:** R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | R8i | R8i-flex | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | U7i-6tb | U7i-8tb | U7i-12tb | U7in-16tb | U7in-24tb | U7in-32tb | U7inh-32tb | X1 | X1e | X2gd | X2idn | X2iedn | X2iezn | X8g | z1d
- **Storage optimized:** D2 | D3 | D3en | H1 | I3 | I3en | I4g | I4i | I7i | I7ie | I8g | I8ge | Im4gn | Is4gen
- **Accelerated computing:** DL1 | DL2q | F1 | F2 | G4ad | G4dn | G5 | G5g | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P3dn | P4d | P4de | P5 | P5e | P5en | P6-B200 | P6e-GB200 | Trn1 | Trn1n | Trn2 | Trn2u | 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:** I2
- **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. 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 [Burstable performance instances](#) in the *Amazon EC2 User Guide*.

Flex instances

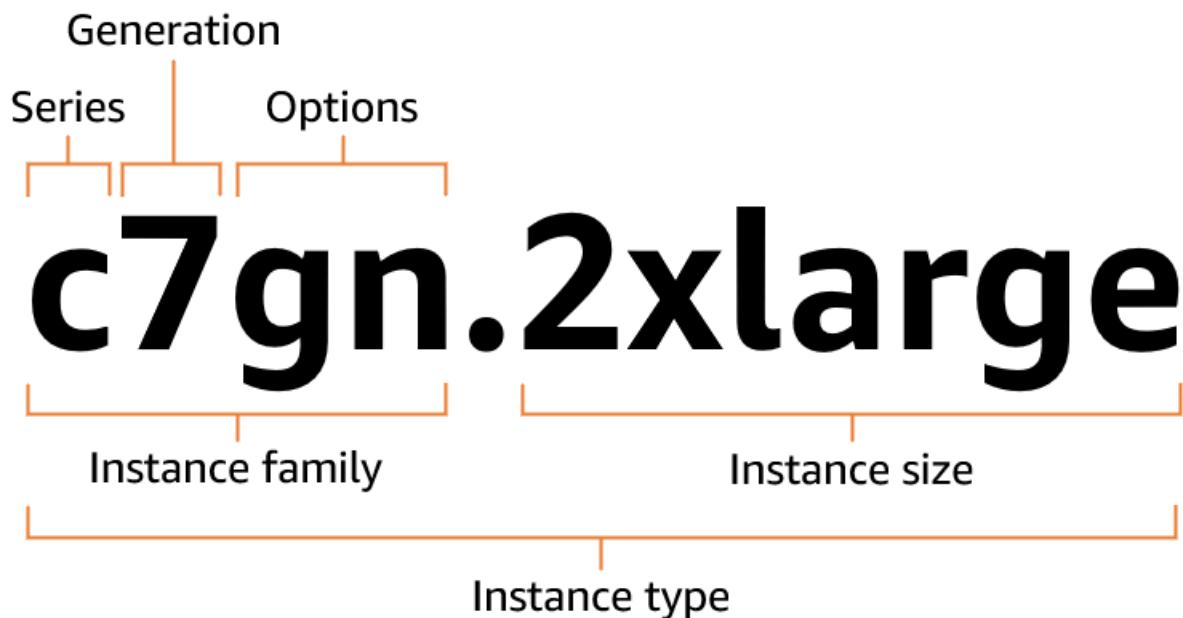
C7i-flex, M7i-flex, M8i-flex, and R8i-flex instances offer a balance of compute, memory, and network resources, and they provide the most cost-effective way to run a broad spectrum of general purpose applications. These instances provide reliable CPU resources to deliver a baseline CPU performance of 40 percent, which is designed to meet the compute requirements for a majority of general purpose workloads. When more performance is needed, these 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.

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 the following:

- [M7i-flex instances](#)
- [C7i-flex instances](#)
- [R7i-flex instances](#)

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 *instance family* and *instance size*. The first position of the instance family indicates the *series*, for example c. The second position indicates the *generation*, for example 7. The third position indicates the *options*, for example gn. After the period (.) is the instance size, such as small or 4xlarge, or metal for bare metal instances.



| Series | Options |
|--|---|
| <ul style="list-style-type: none">C – Compute optimizedD – Dense storageF – FPGAG – Graphics intensiveHpc – High performance computingI – Storage optimizedIm – Storage optimized (1 to 4 ratio of vCPU to memory)Is – Storage optimized (1 to 6 ratio of vCPU to memory) | <ul style="list-style-type: none">a – AMD processorsb200 – Accelerated by NVIDIA Blackwell GPUsg – AWS Graviton processorsi – Intel processorsm1ultra – Apple M1 Ultra chipm2 – Apple M2 chipm2pro – Apple M2 Pro chipb – Block storage optimizationd – Instance store volumes |

| Series | Options |
|---|--|
| <ul style="list-style-type: none">• Inf – AWS Inferentia• M – General purpose• Mac – macOS• P – GPU accelerated• R – Memory optimized• T – Burstable performance• Trn – AWS Trainium• U – High memory• VT – Video transcoding• X – Memory intensive• Z – High memory | <ul style="list-style-type: none">• e – Extra storage (for storage optimized instance types), extra memory (for memory optimized instance types), or extra GPU memory (for accelerated computing instance types).• flex – Flex instance• n – Network and EBS optimized• q – Qualcomm inference accelerators• *tb – Amount of memory for high-memory instances (3 TiB to 32 TiB)• z – High CPU frequency |

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 [Burstable performance instances](#) in the *Amazon EC2 User Guide*.
- **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](#) in the *Amazon EC2 User Guide*.

Categories

- [Specifications for Amazon EC2 general purpose instances](#)
- [Specifications for Amazon EC2 compute optimized instances](#)
- [Specifications for Amazon EC2 memory optimized instances](#)
- [Specifications for Amazon EC2 storage optimized instances](#)
- [Specifications for Amazon EC2 accelerated computing instances](#)
- [Specifications for Amazon EC2 high-performance computing instances](#)
- [Specifications for Amazon EC2 previous generation instances](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Specifications for Amazon EC2 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.

For information on previous generation instance types of this category, such as M4 instances, see [Specifications for Amazon EC2 previous generation instances](#).

Contents

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)

- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| M5 | m5.large m5.xlarge m5.2xlarge m5.4xlarge m5.8xlarge m5.12xlarge m5.16xlarge m5.24xlarge m5.metal |
| M5a | m5a.large m5a.xlarge m5a.2xlarge m5a.4xlarge m5a.8xlarge m5a.12xlarge m5a.16xlarge m5a.24xlarge |
| M5ad | m5ad.large m5ad.xlarge m5ad.2xlarge m5ad.4xlarge m5ad.8xlarge m5ad.12xlarge m5ad.16xlarge m5ad.24xlarge |
| M5d | m5d.large m5d.xlarge m5d.2xlarge m5d.4xlarge m5d.8xlarge m5d.12xlarge m5d.16xlarge m5d.24xlarge m5d.metal |
| M5dn | m5dn.large m5dn.xlarge m5dn.2xlarge m5dn.4xlarge m5dn.8xlarge m5dn.12xlarge m5dn.16xlarge m5dn.24xlarge m5dn.metal |
| M5n | m5n.large m5n.xlarge m5n.2xlarge m5n.4xlarge m5n.8xlarge m5n.12xlarge m5n.16xlarge m5n.24xlarge m5n.metal |
| M5zn | m5zn.large m5zn.xlarge m5zn.2xlarge m5zn.3xlarge m5zn.6xlarge m5zn.12xlarge m5zn.metal |
| M6a | m6a.large m6a.xlarge m6a.2xlarge m6a.4xlarge m6a.8xlarge m6a.12xlarge m6a.16xlarge m6a.24xlarge m6a.32xlarge m6a.48xlarge m6a.metal |

| Instance family | Available instance types |
|-----------------|---|
| M6g | m6g.medium m6g.large m6g.xlarge m6g.2xlarge m6g.4xlarge m6g.8xlarge m6g.12xlarge m6g.16xlarge m6g.metal |
| M6gd | m6gd.medium m6gd.large m6gd.xlarge m6gd.2xlarge m6gd.4xlarge m6gd.8xlarge m6gd.12xlarge m6gd.16xlarge m6gd.metal |
| M6i | m6i.large m6i.xlarge m6i.2xlarge m6i.4xlarge m6i.8xlarge m6i.12xlarge m6i.16xlarge m6i.24xlarge m6i.32xlarge m6i.metal |
| M6id | m6id.large m6id.xlarge m6id.2xlarge m6id.4xlarge m6id.8xlarge m6id.12xlarge m6id.16xlarge m6id.24xlarge m6id.32xlarge m6id.metal |
| M6idn | m6idn.large m6idn.xlarge m6idn.2xlarge m6idn.4xlarge m6idn.8xlarge m6idn.12xlarge m6idn.16xlarge m6idn.24xlarge m6idn.32xlarge m6idn.metal |
| M6in | m6in.large m6in.xlarge m6in.2xlarge m6in.4xlarge m6in.8xlarge m6in.12xlarge m6in.16xlarge m6in.24xlarge m6in.32xlarge m6in.metal |
| M7a | m7a.medium m7a.large m7a.xlarge m7a.2xlarge m7a.4xlarge m7a.8xlarge m7a.12xlarge m7a.16xlarge m7a.24xlarge m7a.32xlarge m7a.48xlarge m7a.metal-48x1 |
| M7g | m7g.medium m7g.large m7g.xlarge m7g.2xlarge m7g.4xlarge m7g.8xlarge m7g.12xlarge m7g.16xlarge m7g.metal |
| M7gd | m7gd.medium m7gd.large m7gd.xlarge m7gd.2xlarge m7gd.4xlarge m7gd.8xlarge m7gd.12xlarge m7gd.16xlarge m7gd.metal |

| Instance family | Available instance types |
|-----------------|--|
| M7i | m7i.large m7i.xlarge m7i.2xlarge m7i.4xlarge m7i.8xlarge m7i.12xlarge m7i.16xlarge m7i.24xlarge m7i.48xlarge m7i.metal-24x1 m7i.metal-48x1 |
| M7i-flex | m7i-flex.large m7i-flex.xlarge m7i-flex.2xlarge m7i-flex.4xlarge m7i-flex.8xlarge m7i-flex.12xlarge m7i-flex.16xlarge |
| M8g | m8g.medium m8g.large m8g.xlarge m8g.2xlarge m8g.4xlarge m8g.8xlarge m8g.12xlarge m8g.16xlarge m8g.24xlarge m8g.48xlarge m8g.metal-24x1 m8g.metal-48x1 |
| M8gd | m8gd.medium m8gd.large m8gd.xlarge m8gd.2xlarge m8gd.4xlarge m8gd.8xlarge m8gd.12xlarge m8gd.16xlarge m8gd.24xlarge m8gd.48xlarge m8gd.metal-24x1 m8gd.metal-48x1 |
| M8i | m8i.large m8i.xlarge m8i.2xlarge m8i.4xlarge m8i.8xlarge m8i.12xlarge m8i.16xlarge m8i.24xlarge m8i.32xlarge m8i.48xlarge m8i.96xlarge m8i.metal-48x1 m8i.metal-96x1 |
| M8i-flex | m8i-flex.large m8i-flex.xlarge m8i-flex.2xlarge m8i-flex.4xlarge m8i-flex.8xlarge m8i-flex.12xlarge m8i-flex.16xlarge |
| Mac1 | mac1.metal |
| Mac2 | mac2.metal |
| Mac2-m1ultra | mac2-m1ultra.metal |
| Mac2-m2 | mac2-m2.metal |
| Mac2-m2pro | mac2-m2pro.metal |

| Instance family | Available instance types |
|-----------------|--|
| Mac-m4 | mac-m4.metal |
| Mac-m4pro | mac-m4pro.metal |
| T2 | t2.nano t2.micro t2.small t2.medium t2.large t2.xlarge t2.2xlarge |
| T3 | t3.nano t3.micro t3.small t3.medium t3.large t3.xlarge t3.2xlarge |
| T3a | t3a.nano t3a.micro t3a.small t3a.medium t3a.large t3a.xlarge t3a.2xlarge |
| T4g | t4g.nano t4g.micro t4g.small t4g.medium t4g.large t4g.xlarge t4g.2xlarge |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instance available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|--------------------------|-------------------------|--------------|---------------------|-----------------------------|
| M5 | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M5a | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| M5ad | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| M5d | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| M5dn | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| M5n | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| M5zn | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| M6a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M6g | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M6gd | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M6i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M6id | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M6idn | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M6in | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M7a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| M7g | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M7gd | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M7i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M7i-flex | Nitro v4 | Intel (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| M8g | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M8gd | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| M8i | Nitro v6 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| M8i-flex | Nitro v6 | Intel (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| Mac1 | Nitro v2 | Intel (x86_64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| Mac2 | Nitro v2 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| Mac2-m1ultra | Nitro v2 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| Mac2-m2 | Nitro v2 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| Mac2-m2pro | Nitro v2 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| Mac-m4 | Nitro v5 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| Mac-m4pro | Nitro v5 | Apple (arm64_mac) | ✓ | ✓ | ✗ | ✗ | Linux |
| T2 | Xen | Intel (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| T3 | Nitro v2 | Intel (x86_64) | ✗ | ✓ | ✓ | ✓ | Windows Linux |
| T3a | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| T4g | Nitro v2 | AWS Graviton (arm64) | x | x | ✓ | ✓ | Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| M5 | | | | | | | |
| m5.large | 8.00 | Intel Xeon Platinum 8175 | 2 | 1 | 2 | x | x |
| m5.xlarge | 16.00 | Intel Xeon Platinum 8175 | 4 | 2 | 2 | x | x |
| m5.2xlarge | 32.00 | Intel Xeon Platinum 8175 | 8 | 4 | 2 | x | x |
| m5.4xlarge | 64.00 | Intel Xeon Platinum 8175 | 16 | 8 | 2 | x | x |
| m5.8xlarge | 128.00 | Intel Xeon Platinum 8175 | 32 | 16 | 2 | x | x |
| m5.12xlarge | 192.00 | Intel Xeon Platinum 8175 | 48 | 24 | 2 | x | x |
| m5.16xlarge | 256.00 | Intel Xeon Platinum 8175 | 64 | 32 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| m5.24xlarge | 384.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| m5.metal | 384.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| M5a | | | | | | | |
| m5a.large | 8.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| m5a.xlarge | 16.00 | AMD EPYC 7571 | 4 | 2 | 2 | x | x |
| m5a.2xlarge | 32.00 | AMD EPYC 7571 | 8 | 4 | 2 | x | x |
| m5a.4xlarge | 64.00 | AMD EPYC 7571 | 16 | 8 | 2 | x | x |
| m5a.8xlarge | 128.00 | AMD EPYC 7571 | 32 | 16 | 2 | x | x |
| m5a.12xlarge | 192.00 | AMD EPYC 7571 | 48 | 24 | 2 | x | x |
| m5a.16xlarge | 256.00 | AMD EPYC 7571 | 64 | 32 | 2 | x | x |
| m5a.24xlarge | 384.00 | AMD EPYC 7571 | 96 | 48 | 2 | x | x |
| M5ad | | | | | | | |
| m5ad.large | 8.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| m5ad.xlarge | 16.00 | AMD EPYC 7571 | 4 | 2 | 2 | x | x |
| m5ad.2xlarge | 32.00 | AMD EPYC 7571 | 8 | 4 | 2 | x | x |
| m5ad.4xlarge | 64.00 | AMD EPYC 7571 | 16 | 8 | 2 | x | x |
| m5ad.8xlarge | 128.00 | AMD EPYC 7571 | 32 | 16 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| m5ad.12xlarge | 192.00 | AMD EPYC 7571 | 48 | 24 | 2 | x | x |
| m5ad.16xlarge | 256.00 | AMD EPYC 7571 | 64 | 32 | 2 | x | x |
| m5ad.24xlarge | 384.00 | AMD EPYC 7571 | 96 | 48 | 2 | x | x |
| M5d | | | | | | | |
| m5d.large | 8.00 | Intel Xeon Platinum 8175 | 2 | 1 | 2 | x | x |
| m5d.xlarge | 16.00 | Intel Xeon Platinum 8175 | 4 | 2 | 2 | x | x |
| m5d.2xlarge | 32.00 | Intel Xeon Platinum 8175 | 8 | 4 | 2 | x | x |
| m5d.4xlarge | 64.00 | Intel Xeon Platinum 8175 | 16 | 8 | 2 | x | x |
| m5d.8xlarge | 128.00 | Intel Xeon Platinum 8175 | 32 | 16 | 2 | x | x |
| m5d.12xlarge | 192.00 | Intel Xeon Platinum 8175 | 48 | 24 | 2 | x | x |
| m5d.16xlarge | 256.00 | Intel Xeon Platinum 8175 | 64 | 32 | 2 | x | x |
| m5d.24xlarge | 384.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| m5d.metal | 384.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| M5dn | | | | | | | |
| m5dn.large | 8.00 | Intel Xeon Platinum 8259 | 2 | 1 | 2 | x | x |
| m5dn.xlarge | 16.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |
| m5dn.2xlarge | 32.00 | Intel Xeon Platinum 8259 | 8 | 4 | 2 | x | x |
| m5dn.4xlarge | 64.00 | Intel Xeon Platinum 8259 | 16 | 8 | 2 | x | x |
| m5dn.8xlarge | 128.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| m5dn.12xlarge | 192.00 | Intel Xeon Platinum 8259 | 48 | 24 | 2 | x | x |
| m5dn.16xlarge | 256.00 | Intel Xeon Platinum 8259 | 64 | 32 | 2 | x | x |
| m5dn.24xlarge | 384.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |
| m5dn.metal | 384.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |
| M5n | | | | | | | |
| m5n.large | 8.00 | Intel Xeon Platinum 8259 | 2 | 1 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| m5n.xlarge | 16.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |
| m5n.2xlarge | 32.00 | Intel Xeon Platinum 8259 | 8 | 4 | 2 | x | x |
| m5n.4xlarge | 64.00 | Intel Xeon Platinum 8259 | 16 | 8 | 2 | x | x |
| m5n.8xlarge | 128.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| m5n.12xlarge | 192.00 | Intel Xeon Platinum 8259 | 48 | 24 | 2 | x | x |
| m5n.16xlarge | 256.00 | Intel Xeon Platinum 8259 | 64 | 32 | 2 | x | x |
| m5n.24xlarge | 384.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |
| m5n.metal | 384.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |

M5zn

| | | | | | | | |
|--------------|-------|--------------------------|---|---|---|---|---|
| m5zn.large | 8.00 | Intel Xeon Platinum 8252 | 2 | 1 | 2 | x | x |
| m5zn.xlarge | 16.00 | Intel Xeon Platinum 8252 | 4 | 2 | 2 | x | x |
| m5zn.2xlarge | 32.00 | Intel Xeon Platinum 8252 | 8 | 4 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| m5zn.3xlarge | 48.00 | Intel Xeon Platinum 8252 | 12 | 6 | 2 | x | x |
| m5zn.6xlarge | 96.00 | Intel Xeon Platinum 8252 | 24 | 12 | 2 | x | x |
| m5zn.12xlarge | 192.00 | Intel Xeon Platinum 8252 | 48 | 24 | 2 | x | x |
| m5zn.metal | 192.00 | Intel Xeon Platinum 8252 | 48 | 24 | 2 | x | x |
| M6a | | | | | | | |
| m6a.large | 8.00 | AMD EPYC 7R13 | 2 | 1 | 2 | x | x |
| m6a.xlarge | 16.00 | AMD EPYC 7R13 | 4 | 2 | 2 | x | x |
| m6a.2xlarge | 32.00 | AMD EPYC 7R13 | 8 | 4 | 2 | x | x |
| m6a.4xlarge | 64.00 | AMD EPYC 7R13 | 16 | 8 | 2 | x | x |
| m6a.8xlarge | 128.00 | AMD EPYC 7R13 | 32 | 16 | 2 | x | x |
| m6a.12xlarge | 192.00 | AMD EPYC 7R13 | 48 | 24 | 2 | x | x |
| m6a.16xlarge | 256.00 | AMD EPYC 7R13 | 64 | 32 | 2 | x | x |
| m6a.24xlarge | 384.00 | AMD EPYC 7R13 | 96 | 48 | 2 | x | x |
| m6a.32xlarge | 512.00 | AMD EPYC 7R13 | 128 | 64 | 2 | x | x |
| m6a.48xlarge | 768.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |
| m6a.metal | 768.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |
| M6g | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| m6g.medium | 4.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| m6g.large | 8.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| m6g.xlarge | 16.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| m6g.2xlarge | 32.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| m6g.4xlarge | 64.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| m6g.8xlarge | 128.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| m6g.12xlarge | 192.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| m6g.16xlarge | 256.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| m6g.metal | 256.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| M6gd | | | | | | | |
| m6gd.medium | 4.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| m6gd.large | 8.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| m6gd.xlarge | 16.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| m6gd.2xlarge | 32.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| m6gd.4xlarge | 64.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| m6gd.8xlarge | 128.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| m6gd.12xlarge | 192.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| m6gd.16xlarge | 256.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| m6gd.metal | 256.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| M6i | | | | | | | |
| m6i.large | 8.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| m6i.xlarge | 16.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| m6i.2xlarge | 32.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| m6i.4xlarge | 64.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| m6i.8xlarge | 128.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| m6i.12xlarge | 192.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| m6i.16xlarge | 256.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| m6i.24xlarge | 384.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| m6i.32xlarge | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| m6i.metal | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| M6id | | | | | | | |
| m6id.large | 8.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| m6id.xlarge | 16.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| m6id.2xlarge | 32.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| m6id.4xlarge | 64.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| m6id.8xlarge | 128.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| m6id.12xlarge | 192.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| m6id.16xlarge | 256.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| m6id.24xlarge | 384.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| m6id.32xlarge | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| m6id.metal | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| M6idn | | | | | | | |
| m6idn.large | 8.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| m6idn.xlarge | 16.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| m6in.12xlarge | 192.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| m6in.16xlarge | 256.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| m6in.24xlarge | 384.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| m6in.32xlarge | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| m6in.metal | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| M7a | | | | | | | |
| m7a.medium | 4.00 | AMD EPYC 9R14 | 1 | 1 | 1 | x | x |
| m7a.large | 8.00 | AMD EPYC 9R14 | 2 | 2 | 1 | x | x |
| m7a.xlarge | 16.00 | AMD EPYC 9R14 | 4 | 4 | 1 | x | x |
| m7a.2xlarge | 32.00 | AMD EPYC 9R14 | 8 | 8 | 1 | x | x |
| m7a.4xlarge | 64.00 | AMD EPYC 9R14 | 16 | 16 | 1 | x | x |
| m7a.8xlarge | 128.00 | AMD EPYC 9R14 | 32 | 32 | 1 | x | x |
| m7a.12xlarge | 192.00 | AMD EPYC 9R14 | 48 | 48 | 1 | x | x |
| m7a.16xlarge | 256.00 | AMD EPYC 9R14 | 64 | 64 | 1 | x | x |
| m7a.24xlarge | 384.00 | AMD EPYC 9R14 | 96 | 96 | 1 | x | x |
| m7a.32xlarge | 512.00 | AMD EPYC 9R14 | 128 | 128 | 1 | x | x |
| m7a.48xlarge | 768.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| m7a.metal -48xl | 768.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| M7g | | | | | | | |
| m7g.medium | 4.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |
| m7g.large | 8.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |
| m7g.xlarge | 16.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |
| m7g.2xlarge | 32.00 | AWS Graviton3 Processor | 8 | 8 | 1 | x | x |
| m7g.4xlarge | 64.00 | AWS Graviton3 Processor | 16 | 16 | 1 | x | x |
| m7g.8xlarge | 128.00 | AWS Graviton3 Processor | 32 | 32 | 1 | x | x |
| m7g.12xlarge | 192.00 | AWS Graviton3 Processor | 48 | 48 | 1 | x | x |
| m7g.16xlarge | 256.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| m7g.metal | 256.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| M7gd | | | | | | | |
| m7gd.medium | 4.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| m7gd.large | 8.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |
| m7gd.xlarge | 16.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |
| m7gd.2xlarge | 32.00 | AWS Graviton3 Processor | 8 | 8 | 1 | x | x |
| m7gd.4xlarge | 64.00 | AWS Graviton3 Processor | 16 | 16 | 1 | x | x |
| m7gd.8xlarge | 128.00 | AWS Graviton3 Processor | 32 | 32 | 1 | x | x |
| m7gd.12xlarge | 192.00 | AWS Graviton3 Processor | 48 | 48 | 1 | x | x |
| m7gd.16xlarge | 256.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| m7gd.metal | 256.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| M7i | | | | | | | |
| m7i.large | 8.00 | Intel Xeon Sapphire Rapids | 2 | 1 | 2 | x | x |
| m7i.xlarge | 16.00 | Intel Xeon Sapphire Rapids | 4 | 2 | 2 | x | x |
| m7i.2xlarge | 32.00 | Intel Xeon Sapphire Rapids | 8 | 4 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| m7i.4xlarge | 64.00 | Intel Xeon Sapphire Rapids | 16 | 8 | 2 | x | x |
| m7i.8xlarge | 128.00 | Intel Xeon Sapphire Rapids | 32 | 16 | 2 | x | x |
| m7i.12xlarge | 192.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |
| m7i.16xlarge | 256.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| m7i.24xlarge | 384.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| m7i.48xlarge | 768.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| m7i.metal-24xl | 384.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| m7i.metal-48xl | 768.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| M7i-flex | | | | | | | |
| m7i-flex.large | 8.00 | Intel Xeon Sapphire Rapids | 2 | 1 | 2 | x | x |
| m7i-flex.xlarge | 16.00 | Intel Xeon Sapphire Rapids | 4 | 2 | 2 | x | x |
| m7i-flex.2xlarge | 32.00 | Intel Xeon Sapphire Rapids | 8 | 4 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| m7i-flex.4xlarge | 64.00 | Intel Xeon Sapphire Rapids | 16 | 8 | 2 | x | x |
| m7i-flex.8xlarge | 128.00 | Intel Xeon Sapphire Rapids | 32 | 16 | 2 | x | x |
| m7i-flex.12xlarge | 192.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |
| m7i-flex.16xlarge | 256.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| M8g | | | | | | | |
| m8g.medium | 4.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| m8g.large | 8.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| m8g.xlarge | 16.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| m8g.2xlarge | 32.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| m8g.4xlarge | 64.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| m8g.8xlarge | 128.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| m8g.12xlarge | 192.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| m8g.16xlarge | 256.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| m8g.24xlarge | 384.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| m8g.48xlarge | 768.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| m8g.metal-24xl | 384.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| m8g.metal-48xl | 768.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| M8gd | | | | | | | |
| m8gd.medium | 4.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| m8gd.large | 8.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| m8gd.xlarge | 16.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| m8gd.2xlarge | 32.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| m8gd.4xlarge | 64.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| m8gd.8xlarge | 128.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| m8gd.12xlarge | 192.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| m8gd.16xlarge | 256.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| m8gd.24xlarge | 384.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| m8gd.48xlarge | 768.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| m8gd.meta-l-24xlarge | 384.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| m8gd.meta-l-48xlarge | 768.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| M8i | | | | | | | |
| m8i.large | 8.00 | Intel Xeon Granite Rapids | 2 | 1 | 2 | x | x |
| m8i.xlarge | 16.00 | Intel Xeon Granite Rapids | 4 | 2 | 2 | x | x |
| m8i.2xlarge | 32.00 | Intel Xeon Granite Rapids | 8 | 4 | 2 | x | x |
| m8i.4xlarge | 64.00 | Intel Xeon Granite Rapids | 16 | 8 | 2 | x | x |
| m8i.8xlarge | 128.00 | Intel Xeon Granite Rapids | 32 | 16 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| m8i.12xlarge | 192.00 | Intel Xeon Granite Rapids | 48 | 24 | 2 | x | x |
| m8i.16xlarge | 256.00 | Intel Xeon Granite Rapids | 64 | 32 | 2 | x | x |
| m8i.24xlarge | 384.00 | Intel Xeon Granite Rapids | 96 | 48 | 2 | x | x |
| m8i.32xlarge | 512.00 | Intel Xeon Granite Rapids | 128 | 64 | 2 | x | x |
| m8i.48xlarge | 768.00 | Intel Xeon Granite Rapids | 192 | 96 | 2 | x | x |
| m8i.96xlarge | 1536.00 | Intel Xeon Granite Rapids | 384 | 192 | 2 | x | x |
| m8i.metal-48xl | 768.00 | Intel Xeon Granite Rapids | 192 | 96 | 2 | x | x |
| m8i.metal-96xl | 1536.00 | Intel Xeon Granite Rapids | 384 | 192 | 2 | x | x |
| M8i-flex | | | | | | | |
| m8i-flex.large | 8.00 | Intel Xeon Granite Rapids | 2 | 1 | 2 | x | x |
| m8i-flex.xlarge | 16.00 | Intel Xeon Granite Rapids | 4 | 2 | 2 | x | x |
| m8i-flex.2xlarge | 32.00 | Intel Xeon Granite Rapids | 8 | 4 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------------|--------------|---------------------------------|-------|-----------|------------------|--------------|--------------------|
| m8i-flex.4xlarge | 64.00 | Intel Xeon Granite Rapids | 16 | 8 | 2 | x | x |
| m8i-flex.8xlarge | 128.00 | Intel Xeon Granite Rapids | 32 | 16 | 2 | x | x |
| m8i-flex.12xlarge | 192.00 | Intel Xeon Granite Rapids | 48 | 24 | 2 | x | x |
| m8i-flex.16xlarge | 256.00 | Intel Xeon Granite Rapids | 64 | 32 | 2 | x | x |
| Mac1 | | | | | | | |
| mac1.metal | 32.00 | Intel Core i7-8700B | 12 | 6 | 2 | x | x |
| Mac2 | | | | | | | |
| mac2.metal | 16.00 | Apple M1 chip with 8-core CPU | 8 | 4 | 2 | x | x |
| Mac2-m1ultra | | | | | | | |
| mac2-m1ultra.metal | 128.00 | Apple M1 Ultra with 20-core CPU | 20 | 20 | 1 | x | x |
| Mac2-m2 | | | | | | | |
| mac2-m2.metal | 24.00 | Apple M2 with 8-core CPU | 8 | 8 | 1 | x | x |
| Mac2-m2pro | | | | | | | |
| mac2-m2pro.metal | 32.00 | Apple M2 Pro with 12-core CPU | 12 | 12 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-------------------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| Mac-m4 | | | | | | | |
| mac-m4.metal | 24.00 | Apple M4 with 10-core CPU | 10 | 10 | 1 | x | x |
| Mac-m4pro | | | | | | | |
| mac-m4pro.metal | 48.00 | Apple M4 with 12-core CPU | 14 | 14 | 1 | x | x |
| T2 | | | | | | | |
| t2.nano ¹ | 0.50 | Intel Xeon Family | 1 | 1 | 1 | x | x |
| t2.micro ¹ | 1.00 | Intel Xeon Family | 1 | 1 | 1 | x | x |
| t2.small ¹ | 2.00 | Intel Xeon Family | 1 | 1 | 1 | x | x |
| t2.medium ¹ | 4.00 | Intel Broadwell E5-2686v4 | 2 | 2 | 1 | x | x |
| t2.large ¹ | 8.00 | Intel Broadwell E5-2686v4 | 2 | 2 | 1 | x | x |
| t2.xlarge ¹ | 16.00 | Intel Broadwell E5-2686v4 | 4 | 4 | 1 | x | x |
| t2.2xlarge ¹ | 32.00 | Intel Broadwell E5-2686v4 | 8 | 8 | 1 | x | x |
| T3 | | | | | | | |
| t3.nano ¹ | 0.50 | Intel Skylake P-8175 | 2 | 1 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|--------------------------|--------------|----------------------|-------|-----------|------------------|--------------|--------------------|
| t3.micro ¹ | 1.00 | Intel Skylake P-8175 | 2 | 1 | 2 | x | x |
| t3.small ¹ | 2.00 | Intel Skylake P-8175 | 2 | 1 | 2 | x | x |
| t3.medium ¹ | 4.00 | Intel Skylake P-8175 | 2 | 1 | 2 | x | x |
| t3.large ¹ | 8.00 | Intel Skylake P-8175 | 2 | 1 | 2 | x | x |
| t3.xlarge ¹ | 16.00 | Intel Skylake P-8175 | 4 | 2 | 2 | x | x |
| t3.2xlarge ¹ | 32.00 | Intel Skylake P-8175 | 8 | 4 | 2 | x | x |
| T3a | | | | | | | |
| t3a.nano ¹ | 0.50 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| t3a.micro ¹ | 1.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| t3a.small ¹ | 2.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| t3a.medium ¹ | 4.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| t3a.large ¹ | 8.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| t3a.xlarge ¹ | 16.00 | AMD EPYC 7571 | 4 | 2 | 2 | x | x |
| t3a.2xlarge ¹ | 32.00 | AMD EPYC 7571 | 8 | 4 | 2 | x | x |
| T4g | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|--------------------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| t4g.nano ¹ | 0.50 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| t4g.micro ¹ | 1.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| t4g.small ¹ | 2.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| t4g.medium ¹ | 4.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| t4g.large ¹ | 8.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| t4g.xlarge ¹ | 16.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| t4g.2xlarge ¹ | 32.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |

Note

¹ These are burstable instance types that provide a baseline CPU performance with the ability to burst beyond their baseline at any time using CPU credits. For more information, see [Burstable performance instances](#).

Network specifications

Note

M8g, M8gd, M8i, M8i-flex instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking

performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| M5 | | | | | | | | |
| m5.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m5.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5.4xlarge ¹ | 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 | ✓ |
| M5a | | | | | | | | |
| m5a.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m5a.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5a.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5a.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m5a.8xlarge ¹ | 7.5 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5a.12xlarge | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5a.16xlarge | 12 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| m5a.24xlarge | 20 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| M5ad | | | | | | | | |
| m5ad.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m5ad.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5ad.2xlarge ₁ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5ad.4xlarge ₁ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5ad.8xlarge ₁ | 7.5 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5ad.12xlarge | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5ad.16xlarge | 12 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| m5ad.24xlarge | 20 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| M5d | | | | | | | | |
| m5d.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m5d.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5d.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5d.4xlarge ¹ | 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 | ✓ |
| M5dn | | | | | | | | |
| m5dn.large ¹ | 2.1 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m5dn.xlarge ¹ | 4.1 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5dn.2xlarge ₁ | 8.125 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m5dn.4xlarge ₁ | 16.25 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5dn.8xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5dn.12xlarge | 50 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5dn.16xlarge | 75 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m5dn.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| m5dn.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| M5n | | | | | | | | |
| m5n.large ¹ | 2.1 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m5n.xlarge ¹ | 4.1 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m5n.2xlarge ¹ | 8.125 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m5n.4xlarge ¹ | 16.25 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m5n.8xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m5n.12xlarge | 50 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m5n.16xlarge | 75 Gigabit | ✗ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| m5n.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| m5n.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| M5zn | | | | | | | | |
| m5zn.large ¹ | 3.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m5zn.xlarge ¹ | 5.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m5zn.2xlarge ¹ | 10.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m5zn.3xlarge ¹ | 15.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m5zn.6xlarge | 50 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m5zn.12xlarge | 100 Gigabit | ✓ | ✓ | x | 1 | 15 | 50 | ✓ |
| m5zn.metal | 100 Gigabit | ✓ | ✓ | x | 1 | 15 | 50 | ✓ |
| M6a | | | | | | | | |
| m6a.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6a.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6a.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6a.4xlarge ¹ | 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 | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m6a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6a.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M6g | | | | | | | | |
| m6g.medium ₁ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m6g.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6g.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6g.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6g.4xlarge ¹ | 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 | ✓ |
| M6gd | | | | | | | | |
| m6gd.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| m6gd.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6gd.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6gd.2xlarge ₁ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6gd.4xlarge ₁ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m6gd.8xlarge | 12 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m6gd.12xlarge | 20 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m6gd.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| m6gd.metal | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| M6i | | | | | | | | |
| m6i.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6i.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6i.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6i.4xlarge ¹ | 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 | ✓ |
| M6id | | | | | | | | |
| m6id.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6id.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6id.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6id.4xlarge ¹ | 6.25 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| 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 | ✓ |
| m6id.32xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6id.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M6idn | | | | | | | | |
| m6idn.large ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m6idn.xlarge ₁ | 6.25 / 30.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6idn.2xlarge ₁ | 12.5 / 40.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m6idn.4xlarge ₁ | 25.0 / 50.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m6idn.8xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m6idn.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m6idn.16xlarge | 100 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6idn.24xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENAv | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|------|-------------|---------------|-------------------------|----------------------------|------|
| m6idn.32xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| m6idn.metal | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| M6in | | | | | | | | |
| m6in.large ¹ | 3.125 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m6in.xlarge ¹ | 6.25 / 30.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m6in.2xlarge ¹ | 12.5 / 40.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m6in.4xlarge ¹ | 25.0 / 50.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m6in.8xlarge | 50 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m6in.12xlarge | 75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m6in.16xlarge | 100 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6in.24xlarge | 150 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m6in.32xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| m6in.metal | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| M7a | | | | | | | | |
| m7a.medium ¹ | 0.39 / 12.5 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |
| m7a.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m7a.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m7a.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m7a.4xlarge ¹ | 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 | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m7a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7a.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M7g | | | | | | | | |
| m7g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| m7g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m7g.xlarge ¹ | 1.876 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m7g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m7g.4xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m7g.16xlarge | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7g.metal | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M7gd | | | | | | | | |
| m7gd.medium ¹ | 0.52 / 12.5 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |
| m7gd.large ¹ | 0.937 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m7gd.xlarge ¹ | 1.876 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m7gd.2xlarge ¹ | 3.75 / 15.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m7gd.4xlarge ¹ | 7.5 / 15.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m7gd.8xlarge | 15 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| m7gd.12xlarge | 22.5 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m7gd.16xlarge | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M7i | | | | | | | | |
| m7i.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| m7i.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| m7i.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m7i.4xlarge ¹ | 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 | ✓ |
| m7i.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7i.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7i.metal-24xl | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m7i.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M7i-flex | | | | | | | | |
| m7i-flex.large ¹ | 0.39 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m7i-flex.xlarge ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m7i-flex.2xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m7i-flex.4xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m7i-flex.8xlarge ¹ | 6.25 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m7i-flex.12xlarge ¹ | 9.375 / 18.75 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m7i-flex.16xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 15 | 50 | ✓ |
| M8g | | | | | | | | |
| m8g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| m8g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m8g.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m8g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m8g.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m8g.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m8g.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m8g.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8g.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8g.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8g.metal-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8g.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M8gd | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m8gd.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| m8gd.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| m8gd.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m8gd.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| m8gd.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m8gd.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| m8gd.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| m8gd.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8gd.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8gd.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8gd.meta-l-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| m8gd.meta-l-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| M8i | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m8i.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 20 | ✓ |
| m8i.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| m8i.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| m8i.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 50 | ✓ |
| m8i.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 10 | 50 | ✓ |
| m8i.12xlarge | 22.5 Gigabit | x | ✓ | x | 1 | 12 | 50 | ✓ |
| m8i.16xlarge | 30 Gigabit | x | ✓ | x | 1 | 16 | 64 | ✓ |
| m8i.24xlarge | 40 Gigabit | x | ✓ | ✓ | 1 | 16 | 64 | ✓ |
| m8i.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| m8i.48xlarge | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| m8i.96xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| m8i.metal-48xl | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| m8i.metal-96xl | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| M8i-flex | | | | | | | | |
| m8i-flex.large ¹ | 0.468 / 12.5 | x | ✓ | x | 1 | 3 | 20 | ✓ |
| m8i-flex.xlarge ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 4 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| m8i-flex.2xlarge ¹ | 1.875 / 15.0 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| m8i-flex.4xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 8 | 50 | ✓ |
| m8i-flex.8xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 10 | 50 | ✓ |
| m8i-flex.12xlarge ¹ | 11.25 / 22.5 | x | ✓ | x | 1 | 12 | 50 | ✓ |
| m8i-flex.16xlarge ¹ | 15.0 / 30.0 | x | ✓ | x | 1 | 16 | 64 | ✓ |
| Mac1 | | | | | | | | |
| mac1.metal | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac2 | | | | | | | | |
| mac2.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac2-m1ultra.metal | | | | | | | | |
| mac2-m1ultra.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac2-m2 | | | | | | | | |
| mac2-m2.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac2-m2pro | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| mac2-m2pro.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac-m4 | | | | | | | | |
| mac-m4.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Mac-m4pro | | | | | | | | |
| mac-m4pro.metal | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| T2 | | | | | | | | |
| t2.nano | Low to Moderate | x | x | x | 1 | 2 | 2 | ✓ |
| t2.micro | Low to Moderate | x | x | x | 1 | 2 | 2 | ✓ |
| t2.small | Low to Moderate | x | x | x | 1 | 3 | 4 | ✓ |
| t2.medium | Low to Moderate | x | x | x | 1 | 3 | 6 | ✓ |
| t2.large | Low to 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 | ✓ |
| T3 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| t3.nano ¹ | 0.032 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t3.micro ¹ | 0.064 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t3.small ¹ | 0.128 / 5.0 | x | ✓ | x | 1 | 3 | 4 | ✓ |
| t3.medium ¹ | 0.256 / 5.0 | x | ✓ | x | 1 | 3 | 6 | ✓ |
| t3.large ¹ | 0.512 / 5.0 | x | ✓ | x | 1 | 3 | 12 | ✓ |
| t3.xlarge ¹ | 1.024 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| t3.2xlarge ¹ | 2.048 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| T3a | | | | | | | | |
| t3a.nano ¹ | 0.032 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t3a.micro ¹ | 0.064 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t3a.small ¹ | 0.128 / 5.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| t3a.medium ¹ | 0.256 / 5.0 | x | ✓ | x | 1 | 3 | 6 | ✓ |
| t3a.large ¹ | 0.512 / 5.0 | x | ✓ | x | 1 | 3 | 12 | ✓ |
| t3a.xlarge ¹ | 1.024 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| t3a.2xlarge ¹ | 2.048 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| T4g | | | | | | | | |
| t4g.nano ¹ | 0.032 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t4g.micro ¹ | 0.064 / 5.0 | x | ✓ | x | 1 | 2 | 2 | ✓ |
| t4g.small ¹ | 0.128 / 5.0 | x | ✓ | x | 1 | 3 | 4 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| t4g.medium ¹ | 0.256 / 5.0 | x | ✓ | x | 1 | 3 | 6 | ✓ |
| t4g.large ¹ | 0.512 / 5.0 | x | ✓ | x | 1 | 3 | 12 | ✓ |
| t4g.xlarge ¹ | 1.024 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| t4g.2xlarge ¹ | 2.048 / 5.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

Note

¹ 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 instance types can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

For m6in.32xlarge, m6in.metal, m6idn.32xlarge, and m6idn.metal, you must attach at least 2 ENIs, to separate network cards, to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve up to 170 Gbps.

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve

maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for r6i.16xlarge, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS-optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

Note

M8g, M8gd, M8i, M8i-flex instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| M5 | | | | | |
| m5.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m5.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| m5.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m5.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| m5.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m5.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M5a | | | | | |
| m5a.large ¹ | 650.00 / 2880.00 | 81.25 / 360.00 | 3600.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.xlarge ¹ | 1085.00 / 2880.00 | 135.62 / 360.00 | 6000.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.2xlarge ¹ | 1580.00 / 2880.00 | 197.50 / 360.00 | 8333.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.4xlarge | 2880.00 | 360.00 | 16000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m5a.8xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.12xlarge | 6780.00 | 847.50 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.16xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m5a.24xlarge | 13750.00 | 1718.75 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| M5ad | | | | | |
| m5ad.large ¹ | 650.00 / 2880.00 | 81.25 / 360.00 | 3600.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| m5ad.xlarge ¹ | 1085.00 / 2880.00 | 135.62 / 360.00 | 6000.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| m5ad.2xlarge ¹ | 1580.00 / 2880.00 | 197.50 / 360.00 | 8333.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| m5ad.4xlarge | 2880.00 | 360.00 | 16000.00 | ✓ | Up to 25 (Shared limit) |
| m5ad.8xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| m5ad.12xlarge | 6780.00 | 847.50 | 30000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m5ad.16xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 23 (Shared limit) |
| m5ad.24xlarge | 13750.00 | 1718.75 | 60000.00 | ✓ | Up to 23 (Shared limit) |
| M5d | | | | | |
| m5d.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5d.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5d.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5d.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 25 (Shared limit) |
| m5d.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 25 (Shared limit) |
| m5d.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| m5d.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 23 (Shared limit) |
| m5d.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m5d.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M5dn | | | | | |
| m5dn.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5dn.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5dn.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| m5dn.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 25 (Shared limit) |
| m5dn.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 25 (Shared limit) |
| m5dn.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| m5dn.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 23 (Shared limit) |
| m5dn.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |
| m5dn.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M5n | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m5n.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5n.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5n.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5n.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 27 (Shared limit) |
| m5n.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| m5n.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m5n.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| m5n.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m5n.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M5zn | | | | | |
| m5zn.large ¹ | 800.00 / 3170.00 | 100.00 / 396.25 | 3333.00 / 13333.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m5zn.xlarge ¹ | 1564.00 / 3170.00 | 195.50 / 396.25 | 6667.00 / 13333.00 | ✓ | Up to 27 (Shared limit) |
| m5zn.2xlarge | 3170.00 | 396.25 | 13333.00 | ✓ | Up to 27 (Shared limit) |
| m5zn.3xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| m5zn.6xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m5zn.12xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m5zn.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M6a | | | | | |
| m6a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 27 (Shared limit) |
| m6a.metal | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 31 (Shared limit) |
| M6g | | | | | |
| m6g.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6g.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m6g.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M6gd | | | | | |
| m6gd.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| m6gd.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| m6gd.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| m6gd.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6gd.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| m6gd.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| m6gd.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 25 (Shared limit) |
| m6gd.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| m6gd.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M6i | | | | | |
| m6i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| m6i.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| M6id | | | | | |
| m6id.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m6id.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m6id.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m6id.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m6id.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|----------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m6id.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| m6id.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| m6id.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 23 (Shared limit) |
| m6id.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 23 (Shared limit) |
| m6id.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| M6idn | | | | | |
| m6idn.large ¹ | 1562.00 / 25000.00 | 195.31 / 3125.00 | 6250.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| m6idn.xlarge ¹ | 3125.00 / 25000.00 | 390.62 / 3125.00 | 12500.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| m6idn.2xlarge ¹ | 6250.00 / 25000.00 | 781.25 / 3125.00 | 25000.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| m6idn.4xlarge ¹ | 12500.00 / 25000.00 | 1562.50 / 3125.00 | 50000.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| m6idn.8xlarge | 25000.00 | 3125.00 | 100000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6idn.12x large | 37500.00 | 4687.50 | 150000.00 | ✓ | Up to 25 (Shared limit) |
| m6idn.16x large | 50000.00 | 6250.00 | 200000.00 | ✓ | Up to 25 (Shared limit) |
| m6idn.24x large | 75000.00 | 9375.00 | 300000.00 | ✓ | Up to 23 (Shared limit) |
| m6idn.32x large | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 23 (Shared limit) |
| m6idn.metal | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 31 (Shared limit) |
| M6in | | | | | |
| m6in.large ¹ | 1562.00 / 25000.00 | 195.31 / 3125.00 | 6250.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.xlarge ¹ | 3125.00 / 25000.00 | 390.62 / 3125.00 | 12500.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.2xlarge ¹ | 6250.00 / 25000.00 | 781.25 / 3125.00 | 25000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.4xlarge ¹ | 12500.00 / 25000.00 | 1562.50 / 3125.00 | 50000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.8xlarge | 25000.00 | 3125.00 | 100000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m6in.12xlarge | 37500.00 | 4687.50 | 150000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.16xlarge | 50000.00 | 6250.00 | 200000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.24xlarge | 75000.00 | 9375.00 | 300000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.32xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 27 (Shared limit) |
| m6in.metal | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 31 (Shared limit) |
| M7a | | | | | |
| m7a.medium ¹ | 325.00 / 10000.00 | 40.62 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m7a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| m7a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| m7a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| m7a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| m7a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |
| m7a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| m7a.metal-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| M7g | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m7g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| m7g.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M7gd | | | | | |
| m7gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m7gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m7gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m7gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m7gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| m7gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| m7gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| m7gd.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| m7gd.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| M7i | | | | | |
| m7i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m7i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| m7i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| m7i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| m7i.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| m7i.metal -24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m7i.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| M7i-flex | | | | | |
| m7i-flex. large ¹ | 312.00 / 10000.00 | 39.06 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. xlarge ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. 2xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. 4xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. 8xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. 12xlarge ¹ | 7500.00 / 15000.00 | 937.50 / 1875.00 | 30000.00 / 60000.00 | ✓ | 32 (Dedicated limit) |
| m7i-flex. 16xlarge ¹ | 10000.00 / 20000.00 | 1250.00 / 2500.00 | 40000.00 / 80000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| M8g | | | | | |
| m8g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| m8g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| m8g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m8g.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| m8g.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| m8g.metal-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| m8g.metal-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| M8gd | | | | | |
| m8gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m8gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| m8gd.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| m8gd.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| m8gd.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| m8gd.meta-l-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| m8gd.meta-l-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| M8i | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| m8i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| m8i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| m8i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m8i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |
| m8i.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| m8i.96xlarge | 80000.00 | 10000.00 | 480000.00 | ✓ | 128 (Dedicated limit) |
| m8i.metal-48xl | 60000.00 | 7500.00 | 240000.00 | ✓ | 64 (Dedicated limit) |
| m8i.metal-96xl | 80000.00 | 10000.00 | 480000.00 | ✓ | 79 (Dedicated limit) |
| M8i-flex | | | | | |
| m8i-flex.large ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i-flex.xlarge ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i-flex.2xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------------|-------------------------------------|---|--------------------------------------|------|--|
| m8i-flex. 4xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i-flex. 8xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| m8i-flex. 12xlarge ¹ | 7500.00 / 15000.00 | 937.50 / 1875.00 | 30000.00 / 60000.00 | ✓ | 32 (Dedicated limit) |
| m8i-flex. 16xlarge ¹ | 10000.00 / 20000.00 | 1250.00 / 2500.00 | 40000.00 / 80000.00 | ✓ | 48 (Dedicated limit) |
| Mac1 | | | | | |
| mac1.metal | 14000.00 | 1750.00 | 80000.00 | ✓ | Up to 16 (Shared limit) |
| Mac2 | | | | | |
| mac2.metal | 10000.00 | 1250.00 | 55000.00 | ✓ | Up to 10 (Shared limit) |
| Mac2-m1ultra | | | | | |
| mac2-m1ultra.metal | 10000.00 | 1250.00 | 55000.00 | ✓ | Up to 10 (Shared limit) |
| Mac2-m2 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|------------------------|-------------------------------------|---|--------------------------------------|------|--|
| mac2-m2.metal | 8000.00 | 1000.00 | 55000.00 | ✓ | Up to 10 (Shared limit) |
| Mac2-m2pro | | | | | |
| mac2-m2pro.metal | 8000.00 | 1000.00 | 55000.00 | ✓ | Up to 10 (Shared limit) |
| Mac-m4 | | | | | |
| mac-m4.metal | 8000.00 | 1000.00 | 55000.00 | ✓ | Up to 31 (Shared limit) |
| Mac-m4pro | | | | | |
| mac-m4pro.metal | 8000.00 | 1000.00 | 55000.00 | ✓ | Up to 31 (Shared limit) |
| T2 | | | | | |
| T3 | | | | | |
| t3.nano ¹ | 43.00 / 2085.00 | 5.38 / 260.62 | 250.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3.micro ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3.small ¹ | 174.00 / 2085.00 | 21.75 / 260.62 | 1000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3.medium ¹ | 347.00 / 2085.00 | 43.38 / 260.62 | 2000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| t3.large ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t3.xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t3.2xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| T3a | | | | | |
| t3a.nano ¹ | 45.00 / 2085.00 | 5.62 / 260.62 | 250.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3a.micro ¹ | 90.00 / 2085.00 | 11.25 / 260.62 | 500.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3a.small ¹ | 175.00 / 2085.00 | 21.88 / 260.62 | 1000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3a.medium ¹ | 350.00 / 2085.00 | 43.75 / 260.62 | 2000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t3a.large ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t3a.xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t3a.2xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| T4g | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| t4g.nano ¹ | 43.00 / 2085.00 | 5.38 / 260.62 | 250.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t4g.micro ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t4g.small ¹ | 174.00 / 2085.00 | 21.75 / 260.62 | 1000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t4g.medium ¹ | 347.00 / 2085.00 | 43.38 / 260.62 | 2000.00 / 11800.00 | ✓ | Up to 27 (Shared limit) |
| t4g.large ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t4g.xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |
| t4g.2xlarge ¹ | 695.00 / 2780.00 | 86.88 / 347.50 | 4000.00 / 15700.00 | ✓ | Up to 27 (Shared limit) |

 **Note**

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| M5ad | | | | | |
| m5ad.large | 1 x 75 GB | NVMe SSD | 30,000 / 15,000 | | ✓ |
| m5ad.xlarge | 1 x 150 GB | NVMe SSD | 59,000 / 29,000 | | ✓ |
| m5ad.2xlarge | 1 x 300 GB | NVMe SSD | 117,000 / 57,000 | | ✓ |
| m5ad.4xlarge | 2 x 300 GB | NVMe SSD | 234,000 / 114,000 | | ✓ |
| m5ad.8xlarge | 2 x 600 GB | NVMe SSD | 466,666 / 233,334 | | ✓ |
| m5ad.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| m5ad.16xlarge | 4 x 600 GB | NVMe SSD | 933,332 / 466,668 | | ✓ |
| m5ad.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| M5d | | | | | |
| m5d.large | 1 x 75 GB | NVMe SSD | 30,000 / 15,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m5d.xlarge | 1 x 150 GB | NVMe SSD | 59,000 / 29,000 | | ✓ |
| m5d.2xlarge | 1 x 300 GB | NVMe SSD | 117,000 / 57,000 | | ✓ |
| m5d.4xlarge | 2 x 300 GB | NVMe SSD | 234,000 / 114,000 | | ✓ |
| m5d.8xlarge | 2 x 600 GB | NVMe SSD | 466,666 / 233,334 | | ✓ |
| m5d.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| m5d.16xlarge | 4 x 600 GB | NVMe SSD | 933,332 / 466,668 | | ✓ |
| m5d.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| m5d.metal | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| M5dn | | | | | |
| m5dn.large | 1 x 75 GB | NVMe SSD | 29,000 / 14,500 | | ✓ |
| m5dn.xlarge | 1 x 150 GB | NVMe SSD | 58,000 / 29,000 | | ✓ |
| m5dn.2xlarge | 1 x 300 GB | NVMe SSD | 116,000 / 58,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m5dn.4xlarge | 2 x 300 GB | NVMe SSD | 232,000 / 116,000 | | ✓ |
| m5dn.8xlarge | 2 x 600 GB | NVMe SSD | 464,000 / 232,000 | | ✓ |
| m5dn.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 350,000 | | ✓ |
| m5dn.16xlarge | 4 x 600 GB | NVMe SSD | 930,000 / 465,000 | | ✓ |
| m5dn.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 700,000 | | ✓ |
| m5dn.metal | 4 x 900 GB | NVMe SSD | 1,400,000 / 700,000 | | ✓ |
| M6gd | | | | | |
| m6gd.medium | 1 x 59 GB | NVMe SSD | 13,438 / 5,625 | | ✓ |
| m6gd.large | 1 x 118 GB | NVMe SSD | 26,875 / 11,250 | | ✓ |
| m6gd.xlarge | 1 x 237 GB | NVMe SSD | 53,750 / 22,500 | | ✓ |
| m6gd.2xlarge | 1 x 474 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |
| m6gd.4xlarge | 1 x 950 GB | NVMe SSD | 215,000 / 90,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m6gd.8xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| m6gd.12xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| m6gd.16xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| m6gd.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| M6id | | | | | |
| m6id.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| m6id.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| m6id.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| m6id.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| m6id.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| m6id.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |
| m6id.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m6id.24xlarge | 4 x 1425 GB | NVMe SSD | 1,609,996 / 805,000 | | ✓ |
| m6id.32xlarge | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| m6id.metal | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| M6idn | | | | | |
| m6idn.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| m6idn.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| m6idn.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| m6idn.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| m6idn.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| m6idn.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |
| m6idn.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| m6idn.24xlarge | 4 x 1425 GB | NVMe SSD | 1,609,996 / 805,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m6idn.32xlarge | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| m6idn.metal | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| M7gd | | | | | |
| m7gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| m7gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| m7gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| m7gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| m7gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| m7gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| m7gd.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |
| m7gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| m7gd.metal | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| M8gd | | | | | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| m8gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| m8gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| m8gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| m8gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| m8gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| m8gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| m8gd.12xlarge | 3 x 950 GB | NVMe SSD | 804,999 / 402,501 | | ✓ |
| m8gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| m8gd.24xlarge | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |
| m8gd.48xlarge | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |
| m8gd.metal-24xl | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |
| m8gd.metal-48xl | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|------------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| Mac-m4 | | | | | |
| mac-m4.metal | 1 x 1900 GB | NVMe SSD | 550,000 / 275,000 | | ✓ |
| Mac-m4pro | | | | | |
| mac-m4pro.metal | 1 x 1900 GB | NVMe SSD | 550,000 / 275,000 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| M5 | | | | | | |
| m5.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| m5.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.2xlarge | ✓ | Instance store not | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| | | supported | | | | |
| m5.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| M5a | | | | | | |
| m5a.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m5a.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m5a.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| M5ad | | | | | | |
| m5ad.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| m5ad.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| m5ad.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5ad.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5ad.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5ad.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5ad.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5ad.24xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| M5d | | | | | | |
| m5d.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| m5d.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.24xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m5d.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| M5dn | | | | | | |
| m5dn.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| m5dn.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| m5dn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m5dn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

M5n

| | | | | | | |
|-------------|---|------------------------------|---|---|---|---|
| m5n.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m5n.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m5n.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5n.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M5zn | | | | | | |
| m5zn.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m5zn.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5zn.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5zn.3xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m5zn.6xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5zn.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m5zn.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

M6a

| | | | | | | |
|-------------|---|------------------------------|---|---|---|---|
| m6a.large | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✗ |
| m6a.xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| m6a.2xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| m6a.4xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| m6a.8xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6a.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

M6g

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| m6g.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| m6g.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6g.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| m6g.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| M6gd | | | | | | |
| m6gd.medium | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| m6gd.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| m6gd.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| m6gd.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |

M6i

| | | | | | | |
|-------------|---|------------------------------|---|---|---|---|
| m6i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m6i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6i.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M6id | | | | | | |
| m6id.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| m6id.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6id.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6id.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| M6idn | | | | | | |
| m6idn.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| m6idn.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m6idn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| M6in | | | | | | |
| m6in.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6in.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m6in.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m6in.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

M7a

| | | | | | | |
|--------------|---|------------------------------|---|---|---|---|
| m7a.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7a.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7a.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m7a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7a.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M7g | | | | | | |
| m7g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m7g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7g.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M7gd | | | | | | |
| m7gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| m7gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m7gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m7gd.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| M7i | | | | | | |
| m7i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m7i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m7i.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| m7i.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M7i-flex | | | | | | |
| m7i-flex.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i-flex.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m7i-flex.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i-flex.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i-flex.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i-flex.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m7i-flex.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| M8g | | | | | | |
| m8g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m8g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| m8g.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m8g.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M8gd | | | | | | |
| m8gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| m8gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| m8gd.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| m8gd.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| M8i | | | | | | |
| m8i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m8i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m8i.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.96xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| m8i.metal-96xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| M8i-flex | | | | | | |
| m8i-flex.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i-flex.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i-flex.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i-flex.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m8i-flex.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i-flex.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| m8i-flex.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| Mac1 | | | | | | |
| mac1.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| Mac2 | | | | | | |
| mac2.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| Mac2-m1ultra | | | | | | |
| mac2-m1ultra.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| Mac2-m2 | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| mac2-m2.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| Mac2-m2pro | | | | | | |
| mac2-m2pro.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| Mac-m4 | | | | | | |
| mac-m4.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| Mac-m4pro | | | | | | |
| mac-m4pro.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| T2 | | | | | | |
| t2.nano | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| t2.micro | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| t2.small | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| t2.medium | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| t2.large | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| t2.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| t2.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| T3 | | | | | | |
| t3.nano | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3.micro | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3.small | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| t3.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| T3a | | | | | | |
| t3a.nano | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3a.micro | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3a.small | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3a.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3a.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| t3a.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t3a.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| T4g | | | | | | |
| t4g.nano | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t4g.micro | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t4g.small | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t4g.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t4g.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| t4g.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| t4g.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

Specifications for Amazon EC2 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, media transcoding, high performance web servers, high performance computing (HPC), scientific modeling, dedicated gaming servers, ad server engines, and machine learning inference.

For information on previous generation instance types of this category, such as C4 instances, see [Specifications for Amazon EC2 previous generation instances](#).

Contents

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| C5 | c5.large c5.xlarge c5.2xlarge c5.4xlarge c5.9xlarge c5.12xlarge c5.18xlarge c5.24xlarge c5.metal |
| C5a | c5a.large c5a.xlarge c5a.2xlarge c5a.4xlarge c5a.8xlarge c5a.12xlarge c5a.16xlarge c5a.24xlarge |
| C5ad | c5ad.large c5ad.xlarge c5ad.2xlarge c5ad.4xlarge c5ad.8xlarge c5ad.12xlarge c5ad.16xlarge c5ad.24xlarge |
| C5d | c5d.large c5d.xlarge c5d.2xlarge c5d.4xlarge c5d.9xlarge c5d.12xlarge c5d.18xlarge c5d.24xlarge c5d.metal |
| C5n | c5n.large c5n.xlarge c5n.2xlarge c5n.4xlarge c5n.9xlarge c5n.18xlarge c5n.metal |
| C6a | c6a.large c6a.xlarge c6a.2xlarge c6a.4xlarge c6a.8xlarge c6a.12xlarge c6a.16xlarge c6a.24xlarge c6a.32xlarge c6a.48xlarge c6a.metal |
| C6g | c6g.medium c6g.large c6g.xlarge c6g.2xlarge c6g.4xlarge c6g.8xlarge c6g.12xlarge c6g.16xlarge c6g.metal |
| 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 c6gn.4xlarge c6gn.8xlarge c6gn.12xlarge c6gn.16xlarge |
| C6i | c6i.large c6i.xlarge c6i.2xlarge c6i.4xlarge c6i.8xlarge c6i.12xlarge c6i.16xlarge c6i.24xlarge c6i.32xlarge c6i.metal |

| Instance family | Available instance types |
|-----------------|---|
| 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.4xlarge c7a.8xlarge c7a.12xlarge c7a.16xlarge c7a.24xlarge 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 | c7gd.medium c7gd.large c7gd.xlarge c7gd.2xlarge c7gd.4xlarge c7gd.8xlarge c7gd.12xlarge c7gd.16xlarge c7gd.metal |
| C7gn | c7gn.medium c7gn.large c7gn.xlarge c7gn.2xlarge c7gn.4xlarge c7gn.8xlarge c7gn.12xlarge c7gn.16xlarge c7gn.metal |
| C7i | c7i.large c7i.xlarge c7i.2xlarge c7i.4xlarge c7i.8xlarge c7i.12xlarge c7i.16xlarge c7i.24xlarge c7i.48xlarge c7i.metal-24xl c7i.metal-48xl |
| C7i-flex | c7i-flex.large c7i-flex.xlarge c7i-flex.2xlarge c7i-flex.4xlarge c7i-flex.8xlarge c7i-flex.12xlarge c7i-flex.16xlarge |
| C8g | c8g.medium c8g.large c8g.xlarge c8g.2xlarge c8g.4xlarge c8g.8xlarge c8g.12xlarge c8g.16xlarge c8g.24xlarge c8g.48xlarge c8g.metal-24xl c8g.metal-48xl |

| Instance family | Available instance types |
|-----------------|---|
| C8gd | c8gd.medium c8gd.large c8gd.xlarge c8gd.2xlarge c8gd.4xlarge c8gd.8xlarge c8gd.12xlarge c8gd.16xlarge c8gd.24xlarge c8gd.48xlarge c8gd.metal-24x1 c8gd.meta1-48x1 |
| C8gn | c8gn.medium c8gn.large c8gn.xlarge c8gn.2xlarge c8gn.4xlarge c8gn.8xlarge c8gn.12xlarge c8gn.16xlarge c8gn.24xlarge c8gn.48xlarge c8gn.metal-24x1 c8gn.meta1-48x1 |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| C5 | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C5a | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✗ | Windows Linux |
| C5ad | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✗ | Windows Linux |
| C5d | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C5n | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| C6a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| C6g | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C6gd | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C6gn | Nitro v4 | AWS Graviton (arm64) | ✗ | ✓ | ✓ | ✓ | Linux |
| C6i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C6id | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C6in | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C7a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C7g | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C7gd | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| C7gn | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C7i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| C7i-flex | Nitro v4 | Intel (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| C8g | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C8gd | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| C8gn | Nitro v6 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| C5 | | | | | | | |
| c5.large | 4.00 | Intel Xeon Platinum 8124M | 2 | 1 | 2 | ✗ | ✗ |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|------------------------------------|-------|-----------|------------------|--------------|--------------------|
| c5.xlarge | 8.00 | Intel Xeon Platinum 8124M | 4 | 2 | 2 | x | x |
| c5.2xlarge | 16.00 | Intel Xeon Platinum 8124M | 8 | 4 | 2 | x | x |
| c5.4xlarge | 32.00 | Intel Xeon Platinum 8124M | 16 | 8 | 2 | x | x |
| c5.9xlarge | 72.00 | Intel Xeon Platinum 8124M | 36 | 18 | 2 | x | x |
| c5.12xlarge | 96.00 | 2nd Gen Intel Xeon Platinum 8275CL | 48 | 24 | 2 | x | x |
| c5.18xlarge | 144.00 | Intel Xeon Platinum 8124M | 72 | 36 | 2 | x | x |
| c5.24xlarge | 192.00 | 2nd Gen Intel Xeon Platinum 8275CL | 96 | 48 | 2 | x | x |
| c5.metal | 192.00 | 2nd Gen Intel Xeon Platinum 8275CL | 96 | 48 | 2 | x | x |

C5a

| | | | | | | | |
|-------------|-------|-----------------------|---|---|---|---|---|
| c5a.large | 4.00 | 2nd Gen AMD EPYC 7R32 | 2 | 1 | 2 | x | x |
| c5a.xlarge | 8.00 | 2nd Gen AMD EPYC 7R32 | 4 | 2 | 2 | x | x |
| c5a.2xlarge | 16.00 | 2nd Gen AMD EPYC 7R32 | 8 | 4 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|--------------|--------------------|
| c5a.4xlarge | 32.00 | 2nd Gen AMD EPYC 7R32 | 16 | 8 | 2 | x | x |
| c5a.8xlarge | 64.00 | 2nd Gen AMD EPYC 7R32 | 32 | 16 | 2 | x | x |
| c5a.12xlarge | 96.00 | 2nd Gen AMD EPYC 7R32 | 48 | 24 | 2 | x | x |
| c5a.16xlarge | 128.00 | 2nd Gen AMD EPYC 7R32 | 64 | 32 | 2 | x | x |
| c5a.24xlarge | 192.00 | 2nd Gen AMD EPYC 7R32 | 96 | 48 | 2 | x | x |
| C5ad | | | | | | | |
| c5ad.large | 4.00 | 2nd Gen AMD EPYC 7R32 | 2 | 1 | 2 | x | x |
| c5ad.xlarge | 8.00 | 2nd Gen AMD EPYC 7R32 | 4 | 2 | 2 | x | x |
| c5ad.2xlarge | 16.00 | 2nd Gen AMD EPYC 7R32 | 8 | 4 | 2 | x | x |
| c5ad.4xlarge | 32.00 | 2nd Gen AMD EPYC 7R32 | 16 | 8 | 2 | x | x |
| c5ad.8xlarge | 64.00 | 2nd Gen AMD EPYC 7R32 | 32 | 16 | 2 | x | x |
| c5ad.12xlarge | 96.00 | 2nd Gen AMD EPYC 7R32 | 48 | 24 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|------------------------------------|-------|-----------|------------------|--------------|--------------------|
| c5ad.16xlarge | 128.00 | 2nd Gen AMD EPYC 7R32 | 64 | 32 | 2 | x | x |
| c5ad.24xlarge | 192.00 | 2nd Gen AMD EPYC 7R32 | 96 | 48 | 2 | x | x |
| C5d | | | | | | | |
| c5d.large | 4.00 | Intel Xeon Platinum 8124M | 2 | 1 | 2 | x | x |
| c5d.xlarge | 8.00 | Intel Xeon Platinum 8124M | 4 | 2 | 2 | x | x |
| c5d.2xlarge | 16.00 | Intel Xeon Platinum 8124M | 8 | 4 | 2 | x | x |
| c5d.4xlarge | 32.00 | Intel Xeon Platinum 8124M | 16 | 8 | 2 | x | x |
| c5d.9xlarge | 72.00 | Intel Xeon Platinum 8124M | 36 | 18 | 2 | x | x |
| c5d.12xlarge | 96.00 | 2nd Gen Intel Xeon Platinum 8275CL | 48 | 24 | 2 | x | x |
| c5d.18xlarge | 144.00 | Intel Xeon Platinum 8124M | 72 | 36 | 2 | x | x |
| c5d.24xlarge | 192.00 | 2nd Gen Intel Xeon Platinum 8275CL | 96 | 48 | 2 | x | x |
| c5d.metal | 192.00 | 2nd Gen Intel Xeon Platinum 8275CL | 96 | 48 | 2 | x | x |
| C5n | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| c5n.large | 5.25 | Intel Xeon Platinum 8124M | 2 | 1 | 2 | x | x |
| c5n.xlarge | 10.50 | Intel Xeon Platinum 8124M | 4 | 2 | 2 | x | x |
| c5n.2xlarge | 21.00 | Intel Xeon Platinum 8124M | 8 | 4 | 2 | x | x |
| c5n.4xlarge | 42.00 | Intel Xeon Platinum 8124M | 16 | 8 | 2 | x | x |
| c5n.9xlarge | 96.00 | Intel Xeon Platinum 8124M | 36 | 18 | 2 | x | x |
| c5n.18xlarge | 192.00 | Intel Xeon Platinum 8124M | 72 | 36 | 2 | x | x |
| c5n.metal | 192.00 | Intel Xeon Platinum 8124M | 72 | 36 | 2 | x | x |

C6a

| | | | | | | | |
|--------------|--------|---------------|----|----|---|---|---|
| c6a.large | 4.00 | AMD EPYC 7R13 | 2 | 1 | 2 | x | x |
| c6a.xlarge | 8.00 | AMD EPYC 7R13 | 4 | 2 | 2 | x | x |
| c6a.2xlarge | 16.00 | AMD EPYC 7R13 | 8 | 4 | 2 | x | x |
| c6a.4xlarge | 32.00 | AMD EPYC 7R13 | 16 | 8 | 2 | x | x |
| c6a.8xlarge | 64.00 | AMD EPYC 7R13 | 32 | 16 | 2 | x | x |
| c6a.12xlarge | 96.00 | AMD EPYC 7R13 | 48 | 24 | 2 | x | x |
| c6a.16xlarge | 128.00 | AMD EPYC 7R13 | 64 | 32 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| c6a.24xlarge | 192.00 | AMD EPYC 7R13 | 96 | 48 | 2 | x | x |
| c6a.32xlarge | 256.00 | AMD EPYC 7R13 | 128 | 64 | 2 | x | x |
| c6a.48xlarge | 384.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |
| c6a.metal | 384.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |
| C6g | | | | | | | |
| c6g.medium | 2.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| c6g.large | 4.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| c6g.xlarge | 8.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| c6g.2xlarge | 16.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| c6g.4xlarge | 32.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| c6g.8xlarge | 64.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| c6g.12xlarge | 96.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| c6g.16xlarge | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| c6g.metal | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| C6gd | | | | | | | |
| c6gd.medium | 2.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| c6gd.large | 4.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| c6gd.xlarge | 8.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| c6gd.2xlarge | 16.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| c6gd.4xlarge | 32.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| c6gd.8xlarge | 64.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| c6gd.12xlarge | 96.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| c6gd.16xlarge | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| c6gd.metal | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| C6gn | | | | | | | |
| c6gn.medium | 2.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| c6gn.large | 4.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| c6i.metal | 256.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| C6id | | | | | | | |
| c6id.large | 4.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| c6id.xlarge | 8.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| c6id.2xlarge | 16.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| c6id.4xlarge | 32.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| c6id.8xlarge | 64.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| c6id.12xlarge | 96.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| c6id.16xlarge | 128.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| c6id.24xlarge | 192.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| c6id.32xlarge | 256.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| c6id.metal | 256.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| C6in | | | | | | | |
| c6in.large | 4.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| c6in.xlarge | 8.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| c6in.2xlarge | 16.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| c6in.4xlarge | 32.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| c6in.8xlarge | 64.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| c6in.12xlarge | 96.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| c6in.16xlarge | 128.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| c6in.24xlarge | 192.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| c6in.32xlarge | 256.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| c6in.metal | 256.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| C7a | | | | | | | |
| c7a.medium | 2.00 | AMD EPYC 9R14 | 1 | 1 | 1 | x | x |
| c7a.large | 4.00 | AMD EPYC 9R14 | 2 | 2 | 1 | x | x |
| c7a.xlarge | 8.00 | AMD EPYC 9R14 | 4 | 4 | 1 | x | x |
| c7a.2xlarge | 16.00 | AMD EPYC 9R14 | 8 | 8 | 1 | x | x |
| c7a.4xlarge | 32.00 | AMD EPYC 9R14 | 16 | 16 | 1 | x | x |
| c7a.8xlarge | 64.00 | AMD EPYC 9R14 | 32 | 32 | 1 | x | x |
| c7a.12xlarge | 96.00 | AMD EPYC 9R14 | 48 | 48 | 1 | x | x |
| c7a.16xlarge | 128.00 | AMD EPYC 9R14 | 64 | 64 | 1 | x | x |
| c7a.24xlarge | 192.00 | AMD EPYC 9R14 | 96 | 96 | 1 | x | x |
| c7a.32xlarge | 256.00 | AMD EPYC 9R14 | 128 | 128 | 1 | x | x |
| c7a.48xlarge | 384.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| c7a.metal-48xl | 384.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| C7g | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| c7g.medium | 2.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |
| c7g.large | 4.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |
| c7g.xlarge | 8.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |
| c7g.2xlarge | 16.00 | AWS Graviton3 Processor | 8 | 8 | 1 | x | x |
| c7g.4xlarge | 32.00 | AWS Graviton3 Processor | 16 | 16 | 1 | x | x |
| c7g.8xlarge | 64.00 | AWS Graviton3 Processor | 32 | 32 | 1 | x | x |
| c7g.12xlarge | 96.00 | AWS Graviton3 Processor | 48 | 48 | 1 | x | x |
| c7g.16xlarge | 128.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| c7g.metal | 128.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| C7gd | | | | | | | |
| c7gd.medium | 2.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |
| c7gd.large | 4.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| c7gd.xlarge | 8.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |
| c7gd.2xlarge | 16.00 | AWS Graviton3 Processor | 8 | 8 | 1 | x | x |
| c7gd.4xlarge | 32.00 | AWS Graviton3 Processor | 16 | 16 | 1 | x | x |
| c7gd.8xlarge | 64.00 | AWS Graviton3 Processor | 32 | 32 | 1 | x | x |
| c7gd.12xlarge | 96.00 | AWS Graviton3 Processor | 48 | 48 | 1 | x | x |
| c7gd.16xlarge | 128.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| c7gd.metal | 128.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| C7gn | | | | | | | |
| c7gn.medium | 2.00 | AWS Graviton3E Processor | 1 | 1 | 1 | x | x |
| c7gn.large | 4.00 | AWS Graviton3E Processor | 2 | 2 | 1 | x | x |
| c7gn.xlarge | 8.00 | AWS Graviton3E Processor | 4 | 4 | 1 | x | x |
| c7gn.2xlarge | 16.00 | AWS Graviton3E Processor | 8 | 8 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| c7gn.4xlarge | 32.00 | AWS Graviton3E Processor | 16 | 16 | 1 | x | x |
| c7gn.8xlarge | 64.00 | AWS Graviton3E Processor | 32 | 32 | 1 | x | x |
| c7gn.12xlarge | 96.00 | AWS Graviton3E Processor | 48 | 48 | 1 | x | x |
| c7gn.16xlarge | 128.00 | AWS Graviton3E Processor | 64 | 64 | 1 | x | x |
| c7gn.metal | 128.00 | AWS Graviton3E Processor | 64 | 64 | 1 | x | x |
| C7i | | | | | | | |
| c7i.large | 4.00 | Intel Xeon Sapphire Rapids | 2 | 1 | 2 | x | x |
| c7i.xlarge | 8.00 | Intel Xeon Sapphire Rapids | 4 | 2 | 2 | x | x |
| c7i.2xlarge | 16.00 | Intel Xeon Sapphire Rapids | 8 | 4 | 2 | x | x |
| c7i.4xlarge | 32.00 | Intel Xeon Sapphire Rapids | 16 | 8 | 2 | x | x |
| c7i.8xlarge | 64.00 | Intel Xeon Sapphire Rapids | 32 | 16 | 2 | x | x |
| c7i.12xlarge | 96.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| c7i.16xlarge | 128.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| c7i.24xlarge | 192.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| c7i.48xlarge | 384.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| c7i.metal-24xl | 192.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| c7i.metal-48xl | 384.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| C7i-flex | | | | | | | |
| c7i-flex.large | 4.00 | Intel Xeon Sapphire Rapids | 2 | 1 | 2 | x | x |
| c7i-flex.xlarge | 8.00 | Intel Xeon Sapphire Rapids | 4 | 2 | 2 | x | x |
| c7i-flex.2xlarge | 16.00 | Intel Xeon Sapphire Rapids | 8 | 4 | 2 | x | x |
| c7i-flex.4xlarge | 32.00 | Intel Xeon Sapphire Rapids | 16 | 8 | 2 | x | x |
| c7i-flex.8xlarge | 64.00 | Intel Xeon Sapphire Rapids | 32 | 16 | 2 | x | x |
| c7i-flex.12xlarge | 96.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| c7i-flex.16xlarge | 128.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| C8g | | | | | | | |
| c8g.medium | 2.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| c8g.large | 4.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| c8g.xlarge | 8.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| c8g.2xlarge | 16.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| c8g.4xlarge | 32.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| c8g.8xlarge | 64.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| c8g.12xlarge | 96.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| c8g.16xlarge | 128.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| c8g.24xlarge | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| c8g.48xlarge | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| c8g.metal-24xl | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| c8g.metal-48xl | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| C8gd | | | | | | | |
| c8gd.medium | 2.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| c8gd.large | 4.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| c8gd.xlarge | 8.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| c8gd.2xlarge | 16.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| c8gd.4xlarge | 32.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| c8gd.8xlarge | 64.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| c8gd.12xlarge | 96.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| c8gd.16xlarge | 128.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| c8gd.24xlarge | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| c8gd.48xlarge | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| c8gd.meta-l-24xlarge | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| c8gd.meta-l-48xlarge | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| C8gn | | | | | | | |
| c8gn.medium | 2.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| c8gn.large | 4.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| c8gn.xlarge | 8.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| c8gn.2xlarge | 16.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| c8gn.4xlarge | 32.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| c8gn.8xlarge | 64.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| c8gn.12xlarge | 96.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| c8gn.16xlarge | 128.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| c8gn.24xlarge | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| c8gn.48xlarge | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| c8gn.meta-l-24xlarge | 192.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| c8gn.meta-l-48xlarge | 384.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |

Network specifications

 Note

C8g, C8gd instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| C5 | | | | | | | | |
| c5.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c5.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c5.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5.4xlarge ¹ | 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 | ✓ |
| C5a | | | | | | | | |
| c5a.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c5a.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5a.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5a.4xlarge ¹ | 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 | ✓ |
| C5ad | | | | | | | | |
| c5ad.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c5ad.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c5ad.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5ad.4xlarge ¹ | 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 | ✓ |
| C5d | | | | | | | | |
| c5d.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c5d.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5d.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5d.4xlarge ¹ | 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 | ✓ |
| C5n | | | | | | | | |
| c5n.large ¹ | 3.0 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c5n.xlarge ¹ | 5.0 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c5n.2xlarge ¹ | 10.0 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c5n.4xlarge ¹ | 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 | ✓ |
| C6a | | | | | | | | |
| c6a.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c6a.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6a.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6a.4xlarge ¹ | 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 | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6a.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C6g | | | | | | | | |
| c6g.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c6g.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c6g.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6g.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6g.4xlarge ¹ | 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 | ✓ |
| C6gd | | | | | | | | |
| c6gd.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c6gd.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c6gd.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6gd.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6gd.4xlarge ¹ | 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 | ✓ |
| c6gd.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| c6gd.metal | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| C6gn | | | | | | | | |
| c6gn.medium ¹ | 1.6 / 16.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c6gn.large ¹ | 3.0 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c6gn.xlarge ¹ | 6.3 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6gn.2xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6gn.4xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6gn.8xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6gn.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6gn.16xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C6i | | | | | | | | |
| c6i.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c6i.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6i.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c6i.4xlarge ¹ | 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 | ✓ |
| c6i.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6i.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c6i.32xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6i.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C6id | | | | | | | | |
| c6id.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| c6id.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c6id.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c6id.4xlarge ¹ | 6.25 / 12.5 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| c6id.8xlarge | 12.5 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6id.12xlarge | 18.75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6id.16xlarge | 25 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6id.24xlarge | 37.5 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6id.32xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6id.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C6in | | | | | | | | |
| c6in.large ¹ | 3.125 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| c6in.xlarge ¹ | 6.25 / 30.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c6in.2xlarge ¹ | 12.5 / 40.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c6in.4xlarge ¹ | 25.0 / 50.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| c6in.8xlarge | 50 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c6in.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c6in.16xlarge | 100 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6in.24xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c6in.32xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| c6in.metal | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| C7a | | | | | | | | |
| c7a.medium ¹ | 0.39 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c7a.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c7a.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7a.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7a.4xlarge ¹ | 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 | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c7a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7a.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| C7g | | | | | | | | |
| c7g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c7g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c7g.xlarge ¹ | 1.876 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7g.4xlarge ¹ | 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 | ✓ |
| C7gd | | | | | | | | |
| c7gd.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c7gd.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c7gd.xlarge ¹ | 1.876 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7gd.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7gd.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c7gd.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c7gd.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c7gd.16xlarge | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7gd.metal | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C7gn | | | | | | | | |
| c7gn.medium ¹ | 3.125 / 25.0 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |
| c7gn.large ¹ | 6.25 / 30.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| c7gn.xlarge ¹ | 12.5 / 40.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c7gn.2xlarge ¹ | 25.0 / 50.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c7gn.4xlarge | 50 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c7gn.8xlarge | 100 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c7gn.12xlarge | 150 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c7gn.16xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c7gn.metal | 200 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C7i | | | | | | | | |
| c7i.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| c7i.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c7i.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| c7i.4xlarge ¹ | 6.25 / 12.5 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| c7i.8xlarge | 12.5 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| 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 | ✓ |
| C7i-flex | | | | | | | | |
| c7i-flex.large ¹ | 0.39 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c7i-flex.xlarge ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7i-flex.2xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c7i-flex.4xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c7i-flex.8xlarge ¹ | 6.25 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c7i-flex.12xlarge ¹ | 9.375 / 18.75 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c7i-flex.16xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 15 | 50 | ✓ |
| C8g | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c8g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c8g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c8g.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c8g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c8g.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c8g.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c8g.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c8g.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8g.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8g.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8g.metal-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8g.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |

C8gd

| | | | | | | | | |
|---------------------------|--------------|---|---|---|---|---|----|---|
| c8gd.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c8gd.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c8gd.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c8gd.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c8gd.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c8gd.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c8gd.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| c8gd.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8gd.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8gd.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8gd.meta-l-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| c8gd.meta-l-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| C8gn | | | | | | | | |
| c8gn.medium ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| c8gn.large ¹ | 6.25 / 30.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| c8gn.xlarge ¹ | 12.5 / 40.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c8gn.2xlarge ¹ | 25.0 / 50.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| c8gn.4xlarge | 50 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| c8gn.8xlarge | 100 Gigabit | x | ✓ | ✓ | 1 | 10 | 30 | ✓ |
| c8gn.12xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 12 | 30 | ✓ |
| c8gn.16xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 1 | 16 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| c8gn.24xlarge | 300 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 50 | ✓ |
| c8gn.48xlarge | 600 Gigabit | ✓ | ✓ | ✓ | 2 | 24 | 50 | ✓ |
| c8gn.meta-l-24xl | 300 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 50 | ✓ |
| c8gn.meta-l-48xl | 600 Gigabit | ✓ | ✓ | ✓ | 2 | 24 | 50 | ✓ |

Note

¹ 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 instance types can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

For c6in.32xlarge and c6in.metal, you must attach at least 2 ENIs, to separate network cards, to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve up to 170 Gbps.

For c8gn.48xlarge and c8gn.meta-l-48xl, you must attach at least 2 ENIs, to separate network cards, to achieve 600 Gbps throughput. Each ENI attached to a network card can achieve up to 300 Gbps.

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

⚠ Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for `r6i.16xlarge`, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each ($5 \text{ volumes} \times 16,000 \text{ IOPS} = 80,000 \text{ IOPS}$).

We recommend that you choose an EBS-optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

ℹ Note

C8g, C8gd instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|------------------------|-------------------------------------|---|--------------------------------------|------|--|
| C5 | | | | | |
| c5.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 4000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c5.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 10000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5.9xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c5.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c5.18xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c5.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c5.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

C5a

| | | | | | |
|--------------------------|------------------|-----------------|--------------------|---|---|
| c5a.large ¹ | 200.00 / 3170.00 | 25.00 / 396.25 | 800.00 / 13300.00 | ✓ | Up to 27 (Shared limit) |
| c5a.xlarge ¹ | 400.00 / 3170.00 | 50.00 / 396.25 | 1600.00 / 13300.00 | ✓ | Up to 27 (Shared limit) |
| c5a.2xlarge ¹ | 800.00 / 3170.00 | 100.00 / 396.25 | 3200.00 / 13300.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c5a.4xlarge ¹ | 1580.00 / 3170.00 | 197.50 / 396.25 | 6600.00 / 13300.00 | ✓ | Up to 27 (Shared limit) |
| c5a.8xlarge | 3170.00 | 396.25 | 13300.00 | ✓ | Up to 27 (Shared limit) |
| c5a.12xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5a.16xlarge | 6300.00 | 787.50 | 26700.00 | ✓ | Up to 27 (Shared limit) |
| c5a.24xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| C5ad | | | | | |
| c5ad.large ¹ | 200.00 / 3170.00 | 25.00 / 396.25 | 800.00 / 13300.00 | ✓ | Up to 26 (Shared limit) |
| c5ad.xlarge ¹ | 400.00 / 3170.00 | 50.00 / 396.25 | 1600.00 / 13300.00 | ✓ | Up to 26 (Shared limit) |
| c5ad.2xlarge ¹ | 800.00 / 3170.00 | 100.00 / 396.25 | 3200.00 / 13300.00 | ✓ | Up to 26 (Shared limit) |
| c5ad.4xlarge ¹ | 1580.00 / 3170.00 | 197.50 / 396.25 | 6600.00 / 13300.00 | ✓ | Up to 25 (Shared limit) |
| c5ad.8xlarge | 3170.00 | 396.25 | 13300.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c5ad.12xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| c5ad.16xlarge | 6300.00 | 787.50 | 26700.00 | ✓ | Up to 25 (Shared limit) |
| c5ad.24xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| C5d | | | | | |
| c5d.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 4000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c5d.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c5d.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 10000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c5d.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| c5d.9xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| c5d.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| c5d.18xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c5d.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |
| c5d.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| C5n | | | | | |
| c5n.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 4000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 10000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.9xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.18xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c5n.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| C6a | | | | | |
| c6a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c6a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 27 (Shared limit) |
| c6a.metal | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 31 (Shared limit) |

C6g

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c6g.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c6g.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| C6gd | | | | | |
| c6gd.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c6gd.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c6gd.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c6gd.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| c6gd.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| c6gd.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| c6gd.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 25 (Shared limit) |
| c6gd.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| c6gd.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| C6gn | | | | | |
| c6gn.medium ¹ | 760.00 / 9500.00 | 95.00 / 1187.50 | 2500.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.large ¹ | 1235.00 / 9500.00 | 154.38 / 1187.50 | 5000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c6gn.xlarge ¹ | 2375.00 / 9500.00 | 296.88 / 1187.50 | 10000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.2xlarge ¹ | 4750.00 / 9500.00 | 593.75 / 1187.50 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.4xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.8xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.12xlarge | 28500.00 | 3562.50 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| c6gn.16xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| C6i | | | | | |
| c6i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c6i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| c6i.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| C6id | | | | | |
| c6id.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c6id.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c6id.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c6id.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c6id.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| c6id.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| c6id.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| c6id.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 23 (Shared limit) |
| c6id.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 23 (Shared limit) |
| c6id.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| C6in | | | | | |
| c6in.large ¹ | 1562.00 / 25000.00 | 195.31 / 3125.00 | 6250.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.xlarge ¹ | 3125.00 / 25000.00 | 390.62 / 3125.00 | 12500.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.2xlarge ¹ | 6250.00 / 25000.00 | 781.25 / 3125.00 | 25000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.4xlarge ¹ | 12500.00 / 25000.00 | 1562.50 / 3125.00 | 50000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|---|
| c6in.8xlarge | 25000.00 | 3125.00 | 100000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.12xlarge | 37500.00 | 4687.50 | 150000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.16xlarge | 50000.00 | 6250.00 | 200000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.24xlarge | 75000.00 | 9375.00 | 300000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.32xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 27 (Shared limit) |
| c6in.metal | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 31 (Shared limit) |

C7a

| | | | | | |
|-------------------------|--------------------|------------------|--------------------|---|--|
| c7a.medium ¹ | 325.00 / 10000.00 | 40.62 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c7a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| c7a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| c7a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| c7a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| c7a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |
| c7a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c7a.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| C7g | | | | | |
| c7g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| c7g.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| C7gd | | | | | |
| c7gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| c7gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| c7gd.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| c7gd.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| C7gn | | | | | |
| c7gn.medium ¹ | 521.00 / 10000.00 | 65.12 / 1250.00 | 2083.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|----------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c7gn.large ¹ | 1042.00 / 10000.00 | 130.25 / 1250.00 | 4167.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.xlarge ¹ | 2083.00 / 10000.00 | 260.38 / 1250.00 | 8333.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.2xlarge ¹ | 4167.00 / 10000.00 | 520.88 / 1250.00 | 16667.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.4xlarge ¹ | 8333.00 / 10000.00 | 1041.62 / 1250.00 | 33333.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.8xlarge ¹ | 16667.00 / 20000.00 | 2083.38 / 2500.00 | 66667.00 / 80000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.12xlarge ¹ | 25000.00 / 30000.00 | 3125.00 / 3750.00 | 100000.00 / 120000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.16xlarge ¹ | 33333.00 / 40000.00 | 4166.62 / 5000.00 | 133333.00 / 160000.00 | ✓ | Up to 27 (Shared limit) |
| c7gn.metal ¹ | 33333.00 / 40000.00 | 4166.62 / 5000.00 | 133333.00 / 160000.00 | ✓ | Up to 31 (Shared limit) |
| C7i | | | | | |
| c7i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c7i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| c7i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| c7i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| c7i.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| c7i.metal -24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c7i.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| C7i-flex | | | | | |
| c7i-flex.large ¹ | 312.00 / 10000.00 | 39.06 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.xlarge ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.2xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.4xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.8xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.12xlarge ¹ | 7500.00 / 15000.00 | 937.50 / 1875.00 | 30000.00 / 60000.00 | ✓ | 32 (Dedicated limit) |
| c7i-flex.16xlarge ¹ | 10000.00 / 20000.00 | 1250.00 / 2500.00 | 40000.00 / 80000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| C8g | | | | | |
| c8g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| c8g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| c8g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c8g.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| c8g.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| c8g.metal-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| c8g.metal-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| C8gd | | | | | |
| c8gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| c8gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| c8gd.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| c8gd.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| c8gd.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| c8gd.meta-l-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| c8gd.meta-l-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| C8gn | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| c8gn.medium ¹ | 760.00 / 10000.00 | 95.00 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.large ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.2xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.4xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.8xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.12xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 32 (Dedicated limit) |
| c8gn.16xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|----------------------|-------------------------------------|---|--------------------------------------|------|---|
| c8gn.24xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 64 (Dedicated limit) |
| c8gn.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 64 (Dedicated limit) |
| c8gn.meta-l-24xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 39 (Dedicated limit) |
| c8gn.meta-l-48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 39 (Dedicated limit) |

 **Note**

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| C5ad | | | | | |
| c5ad.large | 1 x 75 GB | NVMe SSD | 16,283 / 7,105 | | ✓ |
| c5ad.xlarge | 1 x 150 GB | NVMe SSD | 32,566 / 14,211 | | ✓ |
| c5ad.2xlarge | 1 x 300 GB | NVMe SSD | 65,132 / 28,421 | | ✓ |
| c5ad.4xlarge | 2 x 300 GB | NVMe SSD | 130,262 / 56,842 | | ✓ |
| c5ad.8xlarge | 2 x 600 GB | NVMe SSD | 260,526 / 113,684 | | ✓ |
| c5ad.12xlarge | 2 x 900 GB | NVMe SSD | 412,500 / 180,000 | | ✓ |
| c5ad.16xlarge | 2 x 1200 GB | NVMe SSD | 521,052 / 227,368 | | ✓ |
| c5ad.24xlarge | 2 x 1900 GB | NVMe SSD | 825,000 / 360,000 | | ✓ |
| C5d | | | | | |
| c5d.large | 1 x 50 GB | NVMe SSD | 20,000 / 9,000 | | ✓ |
| c5d.xlarge | 1 x 100 GB | NVMe SSD | 40,000 / 18,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c5d.2xlarge | 1 x 200 GB | NVMe SSD | 80,000 / 37,000 | | ✓ |
| c5d.4xlarge | 1 x 400 GB | NVMe SSD | 175,000 / 75,000 | | ✓ |
| c5d.9xlarge | 1 x 900 GB | NVMe SSD | 350,000 / 170,000 | | ✓ |
| c5d.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| c5d.18xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| c5d.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| c5d.metal | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| C6gd | | | | | |
| c6gd.medium | 1 x 59 GB | NVMe SSD | 13,438 / 5,625 | | ✓ |
| c6gd.large | 1 x 118 GB | NVMe SSD | 26,875 / 11,250 | | ✓ |
| c6gd.xlarge | 1 x 237 GB | NVMe SSD | 53,750 / 22,500 | | ✓ |
| c6gd.2xlarge | 1 x 474 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c6gd.4xlarge | 1 x 950 GB | NVMe SSD | 215,000 / 90,000 | | ✓ |
| c6gd.8xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| c6gd.12xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| c6gd.16xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| c6gd.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| C6id | | | | | |
| c6id.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| c6id.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| c6id.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| c6id.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| c6id.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| c6id.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c6id.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| c6id.24xlarge | 4 x 1425 GB | NVMe SSD | 1,609,996 / 805,000 | | ✓ |
| c6id.32xlarge | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| c6id.metal | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| C7gd | | | | | |
| c7gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| c7gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| c7gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| c7gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| c7gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| c7gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| c7gd.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c7gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| c7gd.metal | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| C8gd | | | | | |
| c8gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| c8gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| c8gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| c8gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| c8gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| c8gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| c8gd.12xlarge | 3 x 950 GB | NVMe SSD | 804,999 / 402,501 | | ✓ |
| c8gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| c8gd.24xlarge | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c8gd.48xlarge | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |
| c8gd.metal-24xl | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |
| c8gd.metal-48xl | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| C5 | | | | | | |
| c5.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| c5.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c5.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.9xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.18xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c5.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |

C5a

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| c5a.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c5a.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c5a.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5a.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5a.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| C5ad | | | | | | |
| c5ad.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| c5ad.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c5ad.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c5ad.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c5ad.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c5ad.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c5ad.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c5ad.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| C5d | | | | | | |
| c5d.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| c5d.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.9xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.18xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.24xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c5d.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| C5n | | | | | | |
| c5n.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c5n.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5n.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5n.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5n.9xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5n.18xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c5n.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

C6a

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| c6a.large | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✗ |
| c6a.xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6a.2xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| c6a.4xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| c6a.8xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| c6a.12xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| c6a.16xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| c6a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6a.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

C6g

| | | | | | | |
|--------------|---|------------------------------|---|---|---|---|
| c6g.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| c6g.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6g.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| c6g.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| C6gd | | | | | | |
| c6gd.medium | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| c6gd.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| c6gd.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| C6gn | | | | | | |
| c6gn.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6gn.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6gn.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| C6i | | | | | | |
| c6i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6i.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6i.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C6id | | | | | | |
| c6id.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| c6id.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c6id.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| C6in | | | | | | |
| c6in.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c6in.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c6in.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c6in.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

C7a

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7a.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7a.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7a.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7a.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C7g | | | | | | |
| c7g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7g.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C7gd | | | | | | |
| c7gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| c7gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c7gd.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| C7gn | | | | | | |
| c7gn.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7gn.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7gn.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C7i | | | | | | |
| c7i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c7i.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| c7i.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C7i-flex | | | | | | |
| c7i-flex.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i-flex.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i-flex.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c7i-flex.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i-flex.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i-flex.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c7i-flex.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| C8g | | | | | | |
| c8g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c8g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c8g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8g.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| c8g.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| C8gd | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c8gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| c8gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| c8gd.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| c8gd.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| C8gn | | | | | | |
| c8gn.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| c8gn.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c8gn.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| c8gn.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c8gn.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| c8gn.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

Specifications for Amazon EC2 memory optimized instances

 **End of sale notice**

The **U-9tb1**, **U-12tb1**, **U-18tb1**, and **U-24tb1** instance types are no longer available for new instance launches. If your workload requires a high-memory instance, we recommend that you use a U7i instance type instead.

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

For information on previous generation instance types of this category, such as R4 instances, see [Specifications for Amazon EC2 previous generation instances](#).

Contents

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| R5 | r5.large r5.xlarge r5.2xlarge r5.4xlarge r5.8xlarge r5.12xlarge r5.16xlarge r5.24xlarge r5.metal |
| R5a | r5a.large r5a.xlarge r5a.2xlarge r5a.4xlarge r5a.8xlarge r5a.12xlarge r5a.16xlarge r5a.24xlarge |
| R5ad | r5ad.large r5ad.xlarge r5ad.2xlarge r5ad.4xlarge r5ad.8xlarge r5ad.12xlarge r5ad.16xlarge r5ad.24xlarge |
| R5b | r5b.large r5b.xlarge r5b.2xlarge r5b.4xlarge r5b.8xlarge r5b.12xlarge r5b.16xlarge r5b.24xlarge r5b.metal |
| R5d | r5d.large r5d.xlarge r5d.2xlarge r5d.4xlarge r5d.8xlarge r5d.12xlarge r5d.16xlarge r5d.24xlarge r5d.metal |
| R5dn | r5dn.large r5dn.xlarge r5dn.2xlarge r5dn.4xlarge r5dn.8xlarge r5dn.12xlarge r5dn.16xlarge r5dn.24xlarge r5dn.metal |
| R5n | r5n.large r5n.xlarge r5n.2xlarge r5n.4xlarge r5n.8xlarge r5n.12xlarge r5n.16xlarge r5n.24xlarge r5n.metal |
| R6a | r6a.large r6a.xlarge r6a.2xlarge r6a.4xlarge r6a.8xlarge r6a.12xlarge r6a.16xlarge r6a.24xlarge r6a.32xlarge r6a.48xlarge r6a.metal |
| R6g | r6g.medium r6g.large r6g.xlarge r6g.2xlarge r6g.4xlarge r6g.8xlarge r6g.12xlarge r6g.16xlarge r6g.metal |

| Instance family | Available instance types |
|-----------------|---|
| R6gd | r6gd.medium r6gd.large r6gd.xlarge r6gd.2xlarge r6gd.4xlarge r6gd.8xlarge r6gd.12xlarge r6gd.16xlarge r6gd.metal |
| R6i | r6i.large r6i.xlarge r6i.2xlarge r6i.4xlarge r6i.8xlarge r6i.12xlarge r6i.16xlarge r6i.24xlarge r6i.32xlarge r6i.metal |
| R6id | r6id.large r6id.xlarge r6id.2xlarge r6id.4xlarge r6id.8xlarge r6id.12xlarge r6id.16xlarge r6id.24xlarge r6id.32xlarge r6id.metal |
| R6idn | r6idn.large r6idn.xlarge r6idn.2xlarge r6idn.4xlarge r6idn.8xlarge r6idn.12xlarge r6idn.16xlarge r6idn.24xlarge 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 |
| R7a | r7a.medium r7a.large r7a.xlarge r7a.2xlarge r7a.4xlarge r7a.8xlarge r7a.12xlarge r7a.16xlarge r7a.24xlarge 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 |
| R7gd | r7gd.medium r7gd.large r7gd.xlarge r7gd.2xlarge r7gd.4xlarge r7gd.8xlarge r7gd.12xlarge r7gd.16xlarge r7gd.metal |
| R7i | r7i.large r7i.xlarge r7i.2xlarge r7i.4xlarge r7i.8xlarge r7i.12xlarge r7i.16xlarge r7i.24xlarge r7i.48xlarge r7i.metal-24xl r7i.metal-48xl |

| Instance family | Available instance types |
|-----------------|--|
| R7iz | r7iz.large r7iz.xlarge r7iz.2xlarge r7iz.4xlarge r7iz.8xlarge r7iz.12xlarge r7iz.16xlarge r7iz.32xlarge r7iz.metal-16xl r7iz.metal-32xl |
| R8g | r8g.medium r8g.large r8g.xlarge r8g.2xlarge r8g.4xlarge r8g.8xlarge r8g.12xlarge r8g.16xlarge r8g.24xlarge r8g.48xlarge r8g.metal-24xl r8g.metal-48xl |
| R8gd | r8gd.medium r8gd.large r8gd.xlarge r8gd.2xlarge r8gd.4xlarge r8gd.8xlarge r8gd.12xlarge r8gd.16xlarge r8gd.24xlarge r8gd.48xlarge r8gd.metal-24xl r8gd.metal-48xl |
| R8i | r8i.large r8i.xlarge r8i.2xlarge r8i.4xlarge r8i.8xlarge r8i.12xlarge r8i.16xlarge r8i.24xlarge r8i.32xlarge r8i.48xlarge r8i.96xlarge r8i.metal-48xl r8i.metal-96xl |
| R8i-flex | r8i-flex.large r8i-flex.xlarge r8i-flex.2xlarge r8i-flex.4xlarge r8i-flex.8xlarge r8i-flex.12xlarge r8i-flex.16xlarge |
| 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 |
| U7i-6tb | u7i-6tb.112xlarge |
| U7i-8tb | u7i-8tb.112xlarge |

| Instance family | Available instance types |
|-----------------|---|
| U7i-12tb | u7i-12tb.224xlarge |
| U7in-16tb | u7in-16tb.224xlarge |
| U7in-24tb | u7in-24tb.224xlarge |
| U7in-32tb | u7in-32tb.224xlarge |
| U7inh-32tb | u7inh-32tb.480xlarge |
| X1 | x1.16xlarge x1.32xlarge |
| X1e | x1e.xlarge x1e.2xlarge x1e.4xlarge x1e.8xlarge x1e.16xlarge x1e.32xlarge |
| X2gd | x2gd.medium x2gd.large x2gd.xlarge x2gd.2xlarge x2gd.4xlarge x2gd.8xlarge x2gd.12xlarge x2gd.16xlarge x2gd.metal |
| X2idn | x2idn.16xlarge x2idn.24xlarge x2idn.32xlarge x2idn.metal |
| X2iedn | x2iedn.xlarge x2iedn.2xlarge x2iedn.4xlarge x2iedn.8xlarge x2iedn.16xlarge x2iedn.24xlarge x2iedn.32xlarge x2iedn.metal |
| X2iezn | x2iezn.2xlarge x2iezn.4xlarge x2iezn.6xlarge x2iezn.8xlarge x2iezn.12xlarge x2iezn.metal |
| X8g | x8g.medium x8g.large x8g.xlarge x8g.2xlarge x8g.4xlarge x8g.8xlarge x8g.12xlarge x8g.16xlarge x8g.24xlarge x8g.48xlarge x8g.metal-24x1 x8g.metal-48x1 |
| z1d | z1d.large z1d.xlarge z1d.2xlarge z1d.3xlarge z1d.6xlarge z1d.12xlarge z1d.metal |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| R5 | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R5a | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| R5ad | Nitro v2 | AMD (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| R5b | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| R5d | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R5dn | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| R5n | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| R6a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R6g | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| R6gd | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| R6i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| R6id | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |
| R6idn | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R6in | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R7a | Nitro v4 | AMD (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R7g | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| R7gd | Nitro v4 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| R7i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R7iz | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R8g | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| R8gd | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| R8i | Nitro v6 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| R8i-flex | Nitro v6 | Intel (x86_64) | ✗ | ✗ | ✓ | ✓ | Windows Linux |
| U-3tb1 | Nitro v3 | Intel (x86_64) | ✗ | ✗ | ✗ | ✗ | Windows Linux |
| U-6tb1 | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✗ | ✗ | Windows Linux |
| U-9tb1 | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✗ | ✗ | Windows Linux |
| U-12tb1 | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✗ | ✗ | Windows Linux |
| U-18tb1 | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✗ | ✗ | Windows Linux |
| U-24tb1 | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✗ | ✗ | Windows Linux |
| U7i-6tb | Nitro v4 | Intel (x86_64) | ✗ | ✓ | ✗ | ✗ | Windows Linux |
| U7i-8tb | Nitro v4 | Intel (x86_64) | ✗ | ✓ | ✗ | ✗ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| U7i-12tb | Nitro v4 | Intel (x86_64) | x | ✓ | x | x | Windows Linux |
| U7in-16tb | Nitro v4 | Intel (x86_64) | x | ✓ | x | x | Windows Linux |
| U7in-24tb | Nitro v4 | Intel (x86_64) | x | ✓ | x | x | Windows Linux |
| U7in-32tb | Nitro v4 | Intel (x86_64) | x | ✓ | x | x | Windows Linux |
| U7inh-32tb | Nitro v4 | Intel (x86_64) | x | ✓ | x | x | Linux |
| X1 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| X1e | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| X2gd | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| X2idn | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | x | Windows Linux |
| X2iedn | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | x | Windows Linux |
| X2iezn | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | x | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| X8g | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✗ | Linux |
| z1d | Nitro v2 | Intel (x86_64) | ✓ | ✓ | ✓ | ✗ | Windows Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| R5 | | | | | | | |
| r5.large | 16.00 | Intel Xeon Platinum 8175 | 2 | 1 | 2 | ✗ | ✗ |
| r5.xlarge | 32.00 | Intel Xeon Platinum 8175 | 4 | 2 | 2 | ✗ | ✗ |
| r5.2xlarge | 64.00 | Intel Xeon Platinum 8175 | 8 | 4 | 2 | ✗ | ✗ |
| r5.4xlarge | 128.00 | Intel Xeon Platinum 8175 | 16 | 8 | 2 | ✗ | ✗ |
| r5.8xlarge | 256.00 | Intel Xeon Platinum 8175 | 32 | 16 | 2 | ✗ | ✗ |
| r5.12xlarge | 384.00 | Intel Xeon Platinum 8175 | 48 | 24 | 2 | ✗ | ✗ |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| r5.16xlarge | 512.00 | Intel Xeon Platinum 8175 | 64 | 32 | 2 | x | x |
| r5.24xlarge | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| r5.metal | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| R5a | | | | | | | |
| r5a.large | 16.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| r5a.xlarge | 32.00 | AMD EPYC 7571 | 4 | 2 | 2 | x | x |
| r5a.2xlarge | 64.00 | AMD EPYC 7571 | 8 | 4 | 2 | x | x |
| r5a.4xlarge | 128.00 | AMD EPYC 7571 | 16 | 8 | 2 | x | x |
| r5a.8xlarge | 256.00 | AMD EPYC 7571 | 32 | 16 | 2 | x | x |
| r5a.12xlarge | 384.00 | AMD EPYC 7571 | 48 | 24 | 2 | x | x |
| r5a.16xlarge | 512.00 | AMD EPYC 7571 | 64 | 32 | 2 | x | x |
| r5a.24xlarge | 768.00 | AMD EPYC 7571 | 96 | 48 | 2 | x | x |
| R5ad | | | | | | | |
| r5ad.large | 16.00 | AMD EPYC 7571 | 2 | 1 | 2 | x | x |
| r5ad.xlarge | 32.00 | AMD EPYC 7571 | 4 | 2 | 2 | x | x |
| r5ad.2xlarge | 64.00 | AMD EPYC 7571 | 8 | 4 | 2 | x | x |
| r5ad.4xlarge | 128.00 | AMD EPYC 7571 | 16 | 8 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| r5ad.8xlarge | 256.00 | AMD EPYC 7571 | 32 | 16 | 2 | x | x |
| r5ad.12xlarge | 384.00 | AMD EPYC 7571 | 48 | 24 | 2 | x | x |
| r5ad.16xlarge | 512.00 | AMD EPYC 7571 | 64 | 32 | 2 | x | x |
| r5ad.24xlarge | 768.00 | AMD EPYC 7571 | 96 | 48 | 2 | x | x |
| R5b | | | | | | | |
| r5b.large | 16.00 | Intel Xeon Platinum 8259 | 2 | 1 | 2 | x | x |
| r5b.xlarge | 32.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |
| r5b.2xlarge | 64.00 | Intel Xeon Platinum 8259 | 8 | 4 | 2 | x | x |
| r5b.4xlarge | 128.00 | Intel Xeon Platinum 8259 | 16 | 8 | 2 | x | x |
| r5b.8xlarge | 256.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| r5b.12xlarge | 384.00 | Intel Xeon Platinum 8259 | 48 | 24 | 2 | x | x |
| r5b.16xlarge | 512.00 | Intel Xeon Platinum 8259 | 64 | 32 | 2 | x | x |
| r5b.24xlarge | 768.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |
| r5b.metal | 768.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| R5d | | | | | | | |
| r5d.large | 16.00 | Intel Xeon Platinum 8175 | 2 | 1 | 2 | x | x |
| r5d.xlarge | 32.00 | Intel Xeon Platinum 8175 | 4 | 2 | 2 | x | x |
| r5d.2xlarge | 64.00 | Intel Xeon Platinum 8175 | 8 | 4 | 2 | x | x |
| r5d.4xlarge | 128.00 | Intel Xeon Platinum 8175 | 16 | 8 | 2 | x | x |
| r5d.8xlarge | 256.00 | Intel Xeon Platinum 8175 | 32 | 16 | 2 | x | x |
| r5d.12xlarge | 384.00 | Intel Xeon Platinum 8175 | 48 | 24 | 2 | x | x |
| r5d.16xlarge | 512.00 | Intel Xeon Platinum 8175 | 64 | 32 | 2 | x | x |
| r5d.24xlarge | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| r5d.metal | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| R5dn | | | | | | | |
| r5dn.large | 16.00 | Intel Xeon Platinum 8259 | 2 | 1 | 2 | x | x |
| r5dn.xlarge | 32.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| r5n.8xlarge | 256.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| r5n.12xlarge | 384.00 | Intel Xeon Platinum 8259 | 48 | 24 | 2 | x | x |
| r5n.16xlarge | 512.00 | Intel Xeon Platinum 8259 | 64 | 32 | 2 | x | x |
| r5n.24xlarge | 768.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |
| r5n.metal | 768.00 | Intel Xeon Platinum 8259 | 96 | 48 | 2 | x | x |

R6a

| | | | | | | | |
|--------------|---------|---------------|-----|----|---|---|---|
| r6a.large | 16.00 | AMD EPYC 7R13 | 2 | 1 | 2 | x | x |
| r6a.xlarge | 32.00 | AMD EPYC 7R13 | 4 | 2 | 2 | x | x |
| r6a.2xlarge | 64.00 | AMD EPYC 7R13 | 8 | 4 | 2 | x | x |
| r6a.4xlarge | 128.00 | AMD EPYC 7R13 | 16 | 8 | 2 | x | x |
| r6a.8xlarge | 256.00 | AMD EPYC 7R13 | 32 | 16 | 2 | x | x |
| r6a.12xlarge | 384.00 | AMD EPYC 7R13 | 48 | 24 | 2 | x | x |
| r6a.16xlarge | 512.00 | AMD EPYC 7R13 | 64 | 32 | 2 | x | x |
| r6a.24xlarge | 768.00 | AMD EPYC 7R13 | 96 | 48 | 2 | x | x |
| r6a.32xlarge | 1024.00 | AMD EPYC 7R13 | 128 | 64 | 2 | x | x |
| r6a.48xlarge | 1536.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| r6a.metal | 1536.00 | AMD EPYC 7R13 | 192 | 96 | 2 | x | x |
| R6g | | | | | | | |
| r6g.medium | 8.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| r6g.large | 16.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| r6g.xlarge | 32.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| r6g.2xlarge | 64.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| r6g.4xlarge | 128.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| r6g.8xlarge | 256.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| r6g.12xlarge | 384.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| r6g.16xlarge | 512.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| r6g.metal | 512.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| R6gd | | | | | | | |
| r6gd.medium | 8.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| r6gd.large | 16.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| r6gd.xlarge | 32.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| r6gd.2xlarge | 64.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| r6gd.4xlarge | 128.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| r6gd.8xlarge | 256.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| r6gd.12xlarge | 384.00 | AWS Graviton2 Processor | 48 | 48 | 1 | x | x |
| r6gd.16xlarge | 512.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| r6gd.metal | 512.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |

R6i

| | | | | | | | |
|-------------|--------|---------------------|----|----|---|---|---|
| r6i.large | 16.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| r6i.xlarge | 32.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| r6i.2xlarge | 64.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| r6i.4xlarge | 128.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| r6i.8xlarge | 256.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| r6i.12xlarge | 384.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| r6i.16xlarge | 512.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| r6i.24xlarge | 768.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| r6i.32xlarge | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| r6i.metal | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| R6id | | | | | | | |
| r6id.large | 16.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| r6id.xlarge | 32.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| r6id.2xlarge | 64.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| r6id.4xlarge | 128.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| r6id.8xlarge | 256.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| r6id.12xlarge | 384.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| r6id.16xlarge | 512.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| r6id.24xlarge | 768.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| r6id.32xlarge | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| r6id.metal | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| R6idn | | | | | | | |
| r6idn.large | 16.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| r6idn.xlarge | 32.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| r6in.32xlarge | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| r6in.metal | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| R7a | | | | | | | |
| r7a.medium | 8.00 | AMD EPYC 9R14 | 1 | 1 | 1 | x | x |
| r7a.large | 16.00 | AMD EPYC 9R14 | 2 | 2 | 1 | x | x |
| r7a.xlarge | 32.00 | AMD EPYC 9R14 | 4 | 4 | 1 | x | x |
| r7a.2xlarge | 64.00 | AMD EPYC 9R14 | 8 | 8 | 1 | x | x |
| r7a.4xlarge | 128.00 | AMD EPYC 9R14 | 16 | 16 | 1 | x | x |
| r7a.8xlarge | 256.00 | AMD EPYC 9R14 | 32 | 32 | 1 | x | x |
| r7a.12xlarge | 384.00 | AMD EPYC 9R14 | 48 | 48 | 1 | x | x |
| r7a.16xlarge | 512.00 | AMD EPYC 9R14 | 64 | 64 | 1 | x | x |
| r7a.24xlarge | 768.00 | AMD EPYC 9R14 | 96 | 96 | 1 | x | x |
| r7a.32xlarge | 1024.00 | AMD EPYC 9R14 | 128 | 128 | 1 | x | x |
| r7a.48xlarge | 1536.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| r7a.metal-48xl | 1536.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| R7g | | | | | | | |
| r7g.medium | 8.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| r7g.large | 16.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |
| r7g.xlarge | 32.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |
| r7g.2xlarge | 64.00 | AWS Graviton3 Processor | 8 | 8 | 1 | x | x |
| r7g.4xlarge | 128.00 | AWS Graviton3 Processor | 16 | 16 | 1 | x | x |
| r7g.8xlarge | 256.00 | AWS Graviton3 Processor | 32 | 32 | 1 | x | x |
| r7g.12xlarge | 384.00 | AWS Graviton3 Processor | 48 | 48 | 1 | x | x |
| r7g.16xlarge | 512.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| r7g.metal | 512.00 | AWS Graviton3 Processor | 64 | 64 | 1 | x | x |
| R7gd | | | | | | | |
| r7gd.medium | 8.00 | AWS Graviton3 Processor | 1 | 1 | 1 | x | x |
| r7gd.large | 16.00 | AWS Graviton3 Processor | 2 | 2 | 1 | x | x |
| r7gd.xlarge | 32.00 | AWS Graviton3 Processor | 4 | 4 | 1 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| r7i.12xlarge | 384.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |
| r7i.16xlarge | 512.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| r7i.24xlarge | 768.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| r7i.48xlarge | 1536.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| r7i.metal-24xl | 768.00 | Intel Xeon Sapphire Rapids | 96 | 48 | 2 | x | x |
| r7i.metal-48xl | 1536.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| R7iz | | | | | | | |
| r7iz.large | 16.00 | Intel Xeon Sapphire Rapids | 2 | 1 | 2 | x | x |
| r7iz.xlarge | 32.00 | Intel Xeon Sapphire Rapids | 4 | 2 | 2 | x | x |
| r7iz.2xlarge | 64.00 | Intel Xeon Sapphire Rapids | 8 | 4 | 2 | x | x |
| r7iz.4xlarge | 128.00 | Intel Xeon Sapphire Rapids | 16 | 8 | 2 | x | x |
| r7iz.8xlarge | 256.00 | Intel Xeon Sapphire Rapids | 32 | 16 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| r7iz.12xlarge | 384.00 | Intel Xeon Sapphire Rapids | 48 | 24 | 2 | x | x |
| r7iz.16xlarge | 512.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| r7iz.32xlarge | 1024.00 | Intel Xeon Sapphire Rapids | 128 | 64 | 2 | x | x |
| r7iz.meta-l-16xl | 512.00 | Intel Xeon Sapphire Rapids | 64 | 32 | 2 | x | x |
| r7iz.meta-l-32xl | 1024.00 | Intel Xeon Sapphire Rapids | 128 | 64 | 2 | x | x |

R8g

| | | | | | | | |
|-------------|--------|-------------------------|----|----|---|---|---|
| r8g.medium | 8.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| r8g.large | 16.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| r8g.xlarge | 32.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| r8g.2xlarge | 64.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| r8g.4xlarge | 128.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| r8g.8xlarge | 256.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| r8g.12xlarge | 384.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| r8g.16xlarge | 512.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| r8g.24xlarge | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| r8g.48xlarge | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| r8g.metal-24xl | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| r8g.metal-48xl | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| R8gd | | | | | | | |
| r8gd.medium | 8.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| r8gd.large | 16.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| r8gd.xlarge | 32.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| r8gd.2xlarge | 64.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| r8gd.4xlarge | 128.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| r8gd.8xlarge | 256.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| r8gd.12xlarge | 384.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| r8gd.16xlarge | 512.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| r8gd.24xlarge | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| r8gd.48xlarge | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| r8gd.meta-l-24xl | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| r8gd.meta-l-48xl | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| R8i | | | | | | | |
| r8i.large | 16.00 | Intel Xeon Granite Rapids | 2 | 1 | 2 | x | x |
| r8i.xlarge | 32.00 | Intel Xeon Granite Rapids | 4 | 2 | 2 | x | x |
| r8i.2xlarge | 64.00 | Intel Xeon Granite Rapids | 8 | 4 | 2 | x | x |
| r8i.4xlarge | 128.00 | Intel Xeon Granite Rapids | 16 | 8 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-----------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| r8i.8xlarge | 256.00 | Intel Xeon Granite Rapids | 32 | 16 | 2 | x | x |
| r8i.12xlarge | 384.00 | Intel Xeon Granite Rapids | 48 | 24 | 2 | x | x |
| r8i.16xlarge | 512.00 | Intel Xeon Granite Rapids | 64 | 32 | 2 | x | x |
| r8i.24xlarge | 768.00 | Intel Xeon Granite Rapids | 96 | 48 | 2 | x | x |
| r8i.32xlarge | 1024.00 | Intel Xeon Granite Rapids | 128 | 64 | 2 | x | x |
| r8i.48xlarge | 1536.00 | Intel Xeon Granite Rapids | 192 | 96 | 2 | x | x |
| r8i.96xlarge | 3072.00 | Intel Xeon Granite Rapids | 384 | 192 | 2 | x | x |
| r8i.metal-48xl | 1536.00 | Intel Xeon Granite Rapids | 192 | 96 | 2 | x | x |
| r8i.metal-96xl | 3072.00 | Intel Xeon Granite Rapids | 384 | 192 | 2 | x | x |
| R8i-flex | | | | | | | |
| r8i-flex.large | 16.00 | Intel Xeon Granite Rapids | 2 | 1 | 2 | x | x |
| r8i-flex.xlarge | 32.00 | Intel Xeon Granite Rapids | 4 | 2 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-------------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| r8i-flex.2xlarge | 64.00 | Intel Xeon Granite Rapids | 8 | 4 | 2 | x | x |
| r8i-flex.4xlarge | 128.00 | Intel Xeon Granite Rapids | 16 | 8 | 2 | x | x |
| r8i-flex.8xlarge | 256.00 | Intel Xeon Granite Rapids | 32 | 16 | 2 | x | x |
| r8i-flex.12xlarge | 384.00 | Intel Xeon Granite Rapids | 48 | 24 | 2 | x | x |
| r8i-flex.16xlarge | 512.00 | Intel Xeon Granite Rapids | 64 | 32 | 2 | x | x |

U-3tb1

| | | | | | | | |
|-----------------|---------|---------------------------|-----|-----|---|---|---|
| u-3tb1.56xlarge | 3072.00 | Intel Xeon Platinum 8176M | 224 | 112 | 2 | x | x |
|-----------------|---------|---------------------------|-----|-----|---|---|---|

U-6tb1

| | | | | | | | |
|------------------|---------|---------------------------|-----|-----|---|---|---|
| u-6tb1.56xlarge | 6144.00 | Intel Xeon Platinum 8176M | 224 | 224 | 1 | x | x |
| u-6tb1.112xlarge | 6144.00 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |
| u-6tb1.metal | 6144.00 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |

U-9tb1

| | | | | | | | |
|------------------|---------|---------------------------|-----|-----|---|---|---|
| u-9tb1.112xlarge | 9216.00 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |
|------------------|---------|---------------------------|-----|-----|---|---|---|

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-----------------------|--------------|----------------------------|-------|-----------|------------------|--------------|--------------------|
| u-9tb1.metal | 9216.00 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |
| U-12tb1 | | | | | | | |
| u-12tb1.1 12xlarge | 12288.0 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |
| u-12tb1.metal | 12288.0 | Intel Xeon Platinum 8176M | 448 | 224 | 2 | x | x |
| U-18tb1 | | | | | | | |
| u-18tb1.1 12xlarge | 18432.0 | Intel Xeon Platinum 8280L | 448 | 224 | 2 | x | x |
| u-18tb1.metal | 18432.0 | Intel Xeon Platinum 8280L | 448 | 224 | 2 | x | x |
| U-24tb1 | | | | | | | |
| u-24tb1.1 12xlarge | 24576.0 | Intel Xeon Platinum 8280L | 448 | 224 | 2 | x | x |
| u-24tb1.metal | 24576.0 | Intel Xeon Platinum 8280L | 448 | 224 | 2 | x | x |
| U7i-6tb | | | | | | | |
| u7i-6tb.1 12xlarge | 6144.00 | Intel Xeon Sapphire Rapids | 448 | 224 | 2 | x | x |
| U7i-8tb | | | | | | | |
| u7i-8tb.1 12xlarge | 8192.00 | Intel Xeon Sapphire Rapids | 448 | 224 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|--------------------------|--------------|-------------------------------|-------|-----------|------------------|--------------|--------------------|
| U7i-12tb | | | | | | | |
| u7i-12tb. .224xlarge | 12288.0 | Intel Xeon Sapphire Rapids | 896 | 448 | 2 | x | x |
| U7in-16tb | | | | | | | |
| u7in-16tb .224xlarge | 16384.0 | Intel Xeon Sapphire Rapids | 896 | 448 | 2 | x | x |
| U7in-24tb | | | | | | | |
| u7in-24tb .224xlarge | 24576.0 | Intel Xeon Sapphire Rapids | 896 | 448 | 2 | x | x |
| U7inh-32tb | | | | | | | |
| u7inh-32t b.480xlarge | 32768.0 | Intel Xeon Sapphire Rapids | 896 | 448 | 2 | x | x |
| X1 | | | | | | | |
| x1.16xlarge | 976.00 | Intel Xeon E7 8880 v3 | 64 | 32 | 2 | x | x |
| x1.32xlarge | 1952.00 | Intel Xeon E7 8880 v3 | 128 | 64 | 2 | x | x |
| X1e | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| x1e.xlarge | 122.00 | Intel Haswell E7 8880v3 | 4 | 2 | 2 | x | x |
| x1e.2xlarge | 244.00 | Intel Haswell E7 8880v3 | 8 | 4 | 2 | x | x |
| x1e.4xlarge | 488.00 | Intel Haswell E7 8880v3 | 16 | 8 | 2 | x | x |
| x1e.8xlarge | 976.00 | Intel Haswell E7 8880v3 | 32 | 16 | 2 | x | x |
| x1e.16xlarge | 1952.00 | Intel Haswell E7 8880v3 | 64 | 32 | 2 | x | x |
| x1e.32xlarge | 3904.00 | Intel Haswell E7 8880v3 | 128 | 64 | 2 | x | x |
| X2gd | | | | | | | |
| x2gd.medium | 16.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| x2gd.large | 32.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| x2gd.xlarge | 64.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| x2gd.2xlarge | 128.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| x2gd.4xlarge | 256.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |

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

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-----------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| x2iedn.8xlarge | 1024.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| x2iedn.16xlarge | 2048.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| x2iedn.24xlarge | 3072.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| x2iedn.32xlarge | 4096.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| x2iedn.metal | 4096.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| X2iezn | | | | | | | |
| x2iezn.2xlarge | 256.00 | Intel Xeon Platinum 8252 | 8 | 4 | 2 | x | x |
| x2iezn.4xlarge | 512.00 | Intel Xeon Platinum 8252 | 16 | 8 | 2 | x | x |
| x2iezn.6xlarge | 768.00 | Intel Xeon Platinum 8252 | 24 | 12 | 2 | x | x |
| x2iezn.8xlarge | 1024.00 | Intel Xeon Platinum 8252 | 32 | 16 | 2 | x | x |
| x2iezn.12xlarge | 1536.00 | Intel Xeon Platinum 8252 | 48 | 24 | 2 | x | x |
| x2iezn.metal | 1536.00 | Intel Xeon Platinum 8252 | 48 | 24 | 2 | x | x |
| X8g | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| x8g.medium | 16.00 | AWS Graviton4 Processor | 1 | 1 | 1 | x | x |
| x8g.large | 32.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| x8g.xlarge | 64.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| x8g.2xlarge | 128.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| x8g.4xlarge | 256.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| x8g.8xlarge | 512.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| x8g.12xlarge | 768.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| x8g.16xlarge | 1024.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| x8g.24xlarge | 1536.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| x8g.48xlarge | 3072.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| x8g.metal-24xl | 1536.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| x8g.metal-48xl | 3072.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| z1d | | | | | | | |
| z1d.large | 16.00 | Intel Xeon Platinum 8151 | 2 | 1 | 2 | x | x |
| z1d.xlarge | 32.00 | Intel Xeon Platinum 8151 | 4 | 2 | 2 | x | x |
| z1d.2xlarge | 64.00 | Intel Xeon Platinum 8151 | 8 | 4 | 2 | x | x |
| z1d.3xlarge | 96.00 | Intel Xeon Platinum 8151 | 12 | 6 | 2 | x | x |
| z1d.6xlarge | 192.00 | Intel Xeon Platinum 8151 | 24 | 12 | 2 | x | x |
| z1d.12xlarge | 384.00 | Intel Xeon Platinum 8151 | 48 | 24 | 2 | x | x |
| z1d.metal | 384.00 | Intel Xeon Platinum 8151 | 48 | 24 | 2 | x | x |

Network specifications

 **Note**

R8g, R8gd, R8i, R8i-flex, X8g instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| R5 | | | | | | | | |
| r5.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5.4xlarge ¹ | 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 | ✓ |
| R5a | | | | | | | | |
| r5a.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5a.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5a.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5a.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r5a.8xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r5a.24xlarge | 20 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| R5ad | | | | | | | | |
| r5ad.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5ad.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5ad.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5ad.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r5ad.8xlarge ¹ | 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 | ✓ |
| R5b | | | | | | | | |
| r5b.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5b.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5b.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5b.4xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r5b.metal | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| R5d | | | | | | | | |
| r5d.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5d.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5d.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5d.4xlarge ¹ | 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 | ✓ |
| R5dn | | | | | | | | |
| r5dn.large ¹ | 2.1 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r5dn.xlarge ¹ | 4.1 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5dn.2xlarge ¹ | 8.125 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r5dn.4xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r5dn.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| r5dn.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| R5n | | | | | | | | |
| r5n.large ¹ | 2.1 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| r5n.xlarge ¹ | 4.1 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r5n.2xlarge ¹ | 8.125 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r5n.4xlarge ¹ | 16.25 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r5n.8xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r5n.12xlarge | 50 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r5n.16xlarge | 75 Gigabit | ✗ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| r5n.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| r5n.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| R6a | | | | | | | | |
| r6a.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| r6a.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r6a.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r6a.4xlarge ¹ | 6.25 / 12.5 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r6a.8xlarge | 12.5 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r6a.12xlarge | 18.75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r6a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6a.metal | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| R6g | | | | | | | | |
| r6g.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r6g.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r6g.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6g.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6g.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| 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 | ✓ |
| R6gd | | | | | | | | |
| r6gd.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r6gd.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r6gd.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6gd.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6gd.4xlarge ¹ | 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 | ✓ |
| R6i | | | | | | | | |
| r6i.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r6i.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6i.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6i.4xlarge ¹ | 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 | ✓ |
| R6id | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r6id.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r6id.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6id.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6id.4xlarge ¹ | 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 | ✓ |
| 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 | ✓ |

R6idn

| | | | | | | | | |
|----------------------------|--------------|---|---|---|---|---|----|---|
| r6idn.large ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r6idn.xlarge ¹ | 6.25 / 30.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6idn.2xlarge ¹ | 12.5 / 40.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6idn.4xlarge ¹ | 25.0 / 50.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r6idn.8xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r6idn.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r6idn.16xlarge | 100 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6idn.24xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6idn.32xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| r6idn.metal | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| R6in | | | | | | | | |
| r6in.large ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r6in.xlarge ¹ | 6.25 / 30.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6in.2xlarge ¹ | 12.5 / 40.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r6in.4xlarge ¹ | 25.0 / 50.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r6in.8xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r6in.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r6in.16xlarge | 100 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6in.24xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r6in.32xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| r6in.metal | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| R7a | | | | | | | | |
| r7a.medium ¹ | 0.39 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r7a.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r7a.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r7a.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r7a.4xlarge ¹ | 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 | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r7a.16xlarge | 25 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r7a.24xlarge | 37.5 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r7a.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r7a.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r7a.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| R7g | | | | | | | | |
| r7g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r7g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r7g.xlarge ¹ | 1.876 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r7g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r7g.4xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r7g.metal | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| R7gd | | | | | | | | |
| r7gd.medium ¹ | 0.52 / 12.5 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |
| r7gd.large ¹ | 0.937 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| r7gd.xlarge ¹ | 1.876 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r7gd.2xlarge ¹ | 3.75 / 15.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r7gd.4xlarge ¹ | 7.5 / 15.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r7gd.8xlarge | 15 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r7gd.12xlarge | 22.5 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r7gd.16xlarge | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r7gd.metal | 30 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| R7i | | | | | | | | |
| r7i.large ¹ | 0.781 / 12.5 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| r7i.xlarge ¹ | 1.562 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r7i.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| r7i.4xlarge ¹ | 6.25 / 12.5 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r7i.8xlarge | 12.5 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| r7i.12xlarge | 18.75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| 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 | ✓ |
| R7iz | | | | | | | | |
| r7iz.large ¹ | 0.781 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r7iz.xlarge ¹ | 1.562 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r7iz.2xlarge ¹ | 3.125 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r7iz.4xlarge ¹ | 6.25 / 12.5 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r7iz.8xlarge | 12.5 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| 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-l-16xl | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| r7iz.meta-l-32xl | 50 Gigabit | ✓ | ✓ | x | 1 | 15 | 50 | ✓ |
| R8g | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r8g.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r8g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r8g.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r8g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r8g.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r8g.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r8g.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r8g.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8g.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8g.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8g.metal-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8g.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| R8gd | | | | | | | | |
| r8gd.medium ¹ | 0.52 / 12.5 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| r8gd.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r8gd.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r8gd.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r8gd.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r8gd.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| r8gd.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| r8gd.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8gd.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8gd.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8gd.meta-l-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| r8gd.meta-l-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |

R8i

| | | | | | | | | |
|--------------------------|--------------|---|---|---|---|----|----|---|
| r8i.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 20 | ✓ |
| r8i.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| r8i.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| r8i.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 50 | ✓ |
| r8i.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 10 | 50 | ✓ |
| r8i.12xlarge | 22.5 Gigabit | x | ✓ | x | 1 | 12 | 50 | ✓ |
| r8i.16xlarge | 30 Gigabit | x | ✓ | x | 1 | 16 | 64 | ✓ |
| r8i.24xlarge | 40 Gigabit | x | ✓ | ✓ | 1 | 16 | 64 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| r8i.32xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| r8i.48xlarge | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| r8i.96xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| r8i.metal-48xl | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| r8i.metal-96xl | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 64 | ✓ |
| R8i-flex | | | | | | | | |
| r8i-flex.large ¹ | 0.468 / 12.5 | x | ✓ | x | 1 | 3 | 20 | ✓ |
| r8i-flex.xlarge ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| r8i-flex.2xlarge ¹ | 1.875 / 15.0 | x | ✓ | x | 1 | 4 | 30 | ✓ |
| r8i-flex.4xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 8 | 50 | ✓ |
| r8i-flex.8xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 10 | 50 | ✓ |
| r8i-flex.12xlarge ¹ | 11.25 / 22.5 | x | ✓ | x | 1 | 12 | 50 | ✓ |
| r8i-flex.16xlarge ¹ | 15.0 / 30.0 | x | ✓ | x | 1 | 16 | 64 | ✓ |
| U-3tb1 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| u-3tb1.56xlarge | 50 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| U-6tb1 | | | | | | | | |
| u-6tb1.56xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-6tb1.112xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-6tb1.metal | 100 | x | ✓ | x | 1 | 5 | 30 | ✓ |
| U-9tb1 | | | | | | | | |
| u-9tb1.112xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-9tb1.metal | 100 | x | ✓ | x | 1 | 5 | 30 | ✓ |
| U-12tb1 | | | | | | | | |
| u-12tb1.12xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-12tb1.metal | 100 | x | ✓ | x | 1 | 5 | 30 | ✓ |
| U-18tb1 | | | | | | | | |
| u-18tb1.12xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-18tb1.metal | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| U-24tb1 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| u-24tb1.1 12xlarge | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| u-24tb1.metal | 100 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| U7i-6tb | | | | | | | | |
| u7i-6tb.1 12xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| U7i-8tb | | | | | | | | |
| u7i-8tb.1 12xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| U7i-12tb | | | | | | | | |
| u7i-12tb. 224xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| U7in-16tb | | | | | | | | |
| u7in-16tb .224xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| U7in-24tb | | | | | | | | |
| u7in-24tb .224xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| U7in-32tb | | | | | | | | |
| u7in-32tb .224xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| U7inh-32tb | | | | | | | | |
| u7inh-32t b.480xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 16 | 50 | ✓ |
| X1 | | | | | | | | |
| x1.16xlarge | 10 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| x1.32xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| X1e | | | | | | | | |
| x1e.xlarge ¹ | 0.625 / 10.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| x1e.2xlarge ¹ | 1.25 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| x1e.4xlarge ¹ | 2.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| x1e.8xlarge ¹ | 5.0 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| x1e.16xlarge | 10 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| x1e.32xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| X2gd | | | | | | | | |
| x2gd.medium ¹ | 0.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |
| x2gd.large ¹ | 0.75 / 10.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| x2gd.xlarge ¹ | 1.25 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| x2gd.2xlarge ¹ | 2.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| x2gd.4xlarge ¹ | 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.16xlarge | 50 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2idn.24xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2idn.32xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2idn.metal | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| X2iedn | | | | | | | | |
| x2iedn.xlarge ₁ | 1.875 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| x2iedn.2xlarge ¹ | 5.0 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| x2iedn.4xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| x2iedn.8xlarge | 25 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| x2iedn.16xlarge | 50 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2iedn.24xlarge | 75 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2iedn.32xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x2iedn.metal | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| X2iezn | | | | | | | | |
| x2iezn.2xlarge ¹ | 12.5 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| x2iezn.4xlarge ¹ | 15.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| x2iezn.6xlarge | 50 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| x2iezn.8xlarge | 75 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| x2iezn.12xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| x2iezn.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| X8g | | | | | | | | |
| x8g.medium ¹ | 0.52 / 12.5 | ✗ | ✓ | ✗ | 1 | 2 | 4 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| x8g.large ¹ | 0.937 / 12.5 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| x8g.xlarge ¹ | 1.875 / 12.5 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| x8g.2xlarge ¹ | 3.75 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| x8g.4xlarge ¹ | 7.5 / 15.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| x8g.8xlarge | 15 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| x8g.12xlarge | 22.5 Gigabit | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| x8g.16xlarge | 30 Gigabit | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x8g.24xlarge | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x8g.48xlarge | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x8g.metal-24xl | 40 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| x8g.metal-48xl | 50 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |

z1d

| | | | | | | | | |
|--------------------------|-------------|---|---|---|---|---|----|---|
| z1d.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| z1d.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| z1d.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| z1d.3xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| z1d.6xlarge | 12 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| z1d.12xlarge | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| z1d.metal | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |

Note

¹ 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 instance types can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

For r6in.32xlarge, r6in.metal, r6idn.32xlarge, and r6idn.metal, you must attach at least 2 ENIs, to separate network cards, to achieve 200 Gbps throughput. Each ENI attached to a network card can achieve up to 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 might only 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

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

⚠ Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for `r6i.16xlarge`, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS-optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

ⓘ Note

- R8g, R8gd, R8i, R8i-flex, X8g virtualized instance types support configurable bandwidth weightings. With these instance types, you can optimize an instance's bandwidth for either networking performance or Amazon EBS performance. The following table shows the default networking bandwidth performance for these instance types. Bare metal instance types are not supported. For the supported configurable weightings, see [Configurable bandwidth weighting preferences](#).
- For maximum IOPS performance with U7i instances, we recommend that you use io2 BlockExpress volumes.

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-----------------------|-------------------------------------|---|--------------------------------------|------|---|
| R5 | | | | | |
| r5.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r5.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| r5.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r5.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| r5.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| r5.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

R5a

| | | | | | |
|-------------------------|-------------------|-----------------|--------------------|---|---|
| r5a.large ¹ | 650.00 / 2880.00 | 81.25 / 360.00 | 3600.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.xlarge ¹ | 1085.00 / 2880.00 | 135.62 / 360.00 | 6000.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r5a.2xlarge ¹ | 1580.00 / 2880.00 | 197.50 / 360.00 | 8333.00 / 16000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.4xlarge | 2880.00 | 360.00 | 16000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.8xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.12xlarge | 6780.00 | 847.50 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.16xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r5a.24xlarge | 13570.00 | 1696.25 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| R5ad | | | | | |
| r5ad.large ¹ | 650.00 / 2880.00 | 81.25 / 360.00 | 3600.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| r5ad.xlarge ¹ | 1085.00 / 2880.00 | 135.62 / 360.00 | 6000.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| r5ad.2xlarge ¹ | 1580.00 / 2880.00 | 197.50 / 360.00 | 8333.00 / 16000.00 | ✓ | Up to 26 (Shared limit) |
| r5ad.4xlarge | 2880.00 | 360.00 | 16000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r5ad.8xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| r5ad.12xlarge | 6780.00 | 847.50 | 30000.00 | ✓ | Up to 25 (Shared limit) |
| r5ad.16xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 23 (Shared limit) |
| r5ad.24xlarge | 13570.00 | 1696.25 | 60000.00 | ✓ | Up to 23 (Shared limit) |
| R5b | | | | | |
| r5b.large ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5417.00 / 43333.00 | ✓ | Up to 27 (Shared limit) |
| r5b.xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10833.00 / 43333.00 | ✓ | Up to 27 (Shared limit) |
| r5b.2xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 21667.00 / 43333.00 | ✓ | Up to 27 (Shared limit) |
| r5b.4xlarge | 10000.00 | 1250.00 | 43333.00 | ✓ | Up to 27 (Shared limit) |
| r5b.8xlarge | 20000.00 | 2500.00 | 86667.00 | ✓ | Up to 27 (Shared limit) |
| r5b.12xlarge | 30000.00 | 3750.00 | 130000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r5b.16xlarge | 40000.00 | 5000.00 | 173333.00 | ✓ | Up to 27 (Shared limit) |
| r5b.24xlarge | 60000.00 | 7500.00 | 260000.00 | ✓ | Up to 27 (Shared limit) |
| r5b.metal | 60000.00 | 7500.00 | 260000.00 | ✓ | Up to 31 (Shared limit) |
| R5d | | | | | |
| r5d.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5d.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5d.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5d.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 25 (Shared limit) |
| r5d.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 25 (Shared limit) |
| r5d.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| r5d.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 23 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r5d.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |
| r5d.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| R5dn | | | | | |
| r5dn.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5dn.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5dn.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 26 (Shared limit) |
| r5dn.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 25 (Shared limit) |
| r5dn.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 25 (Shared limit) |
| r5dn.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| r5dn.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 23 (Shared limit) |
| r5dn.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|---|
| r5dn.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

R5n

| | | | | | |
|--------------------------|-------------------|-----------------|---------------------|---|---|
| r5n.large ¹ | 650.00 / 4750.00 | 81.25 / 593.75 | 3600.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5n.xlarge ¹ | 1150.00 / 4750.00 | 143.75 / 593.75 | 6000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5n.2xlarge ¹ | 2300.00 / 4750.00 | 287.50 / 593.75 | 12000.00 / 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5n.4xlarge | 4750.00 | 593.75 | 18750.00 | ✓ | Up to 27 (Shared limit) |
| r5n.8xlarge | 6800.00 | 850.00 | 30000.00 | ✓ | Up to 27 (Shared limit) |
| r5n.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r5n.16xlarge | 13600.00 | 1700.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| r5n.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| r5n.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

R6a

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 27 (Shared limit) |
| r6a.metal | 40000.00 | 5000.00 | 240000.00 | ✓ | Up to 31 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| R6g | | | | | |
| r6g.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| r6g.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| R6gd | | | | | |
| r6gd.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6gd.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| r6gd.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| r6gd.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| r6gd.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| r6gd.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| r6gd.12xlarge | 14250.00 | 1781.25 | 50000.00 | ✓ | Up to 25 (Shared limit) |
| r6gd.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| r6gd.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| R6i | | | | | |
| r6i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| r6i.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| R6id | | | | | |
| r6id.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r6id.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6id.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r6id.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r6id.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| r6id.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| r6id.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| r6id.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 23 (Shared limit) |
| r6id.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 23 (Shared limit) |
| r6id.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| R6idn | | | | | |
| r6idn.large ¹ | 1562.00 / 25000.00 | 195.31 / 3125.00 | 6250.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| r6idn.xlarge ¹ | 3125.00 / 25000.00 | 390.62 / 3125.00 | 12500.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|----------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6idn.2xlarge ¹ | 6250.00 / 25000.00 | 781.25 / 3125.00 | 25000.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| r6idn.4xlarge ¹ | 12500.00 / 25000.00 | 1562.50 / 3125.00 | 50000.00 / 100000.00 | ✓ | Up to 26 (Shared limit) |
| r6idn.8xlarge | 25000.00 | 3125.00 | 100000.00 | ✓ | Up to 26 (Shared limit) |
| r6idn.12xlarge | 37500.00 | 4687.50 | 150000.00 | ✓ | Up to 25 (Shared limit) |
| r6idn.16xlarge | 50000.00 | 6250.00 | 200000.00 | ✓ | Up to 25 (Shared limit) |
| r6idn.24xlarge | 75000.00 | 9375.00 | 300000.00 | ✓ | Up to 23 (Shared limit) |
| r6idn.32xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 23 (Shared limit) |
| r6idn.metal | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 31 (Shared limit) |
| R6in | | | | | |
| r6in.large ¹ | 1562.00 / 25000.00 | 195.31 / 3125.00 | 6250.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.xlarge ¹ | 3125.00 / 25000.00 | 390.62 / 3125.00 | 12500.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r6in.2xlarge ¹ | 6250.00 / 25000.00 | 781.25 / 3125.00 | 25000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.4xlarge ¹ | 12500.00 / 25000.00 | 1562.50 / 3125.00 | 50000.00 / 100000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.8xlarge | 25000.00 | 3125.00 | 100000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.12xlarge | 37500.00 | 4687.50 | 150000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.16xlarge | 50000.00 | 6250.00 | 200000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.24xlarge | 75000.00 | 9375.00 | 300000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.32xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 27 (Shared limit) |
| r6in.metal | 100000.00 | 12500.00 | 400000.00 | ✓ | Up to 31 (Shared limit) |

R7a

| | | | | | |
|-------------------------|-------------------|-----------------|--------------------|---|--|
| r7a.medium ¹ | 325.00 / 10000.00 | 40.62 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7a.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r7a.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7a.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7a.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7a.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| r7a.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| r7a.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r7a.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| r7a.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r7a.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| r7a.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| R7g | | | | | |
| r7g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 27 (Shared limit) |
| r7g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r7g.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| R7gd | | | | | |
| r7gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| r7gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| r7gd.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| r7gd.metal | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| R7i | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r7i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| r7i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| r7i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r7i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r7i.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| r7i.metal-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| r7i.metal-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| R7iz | | | | | |
| r7iz.large ¹ | 792.00 / 10000.00 | 99.00 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7iz.xlarge ¹ | 1584.00 / 10000.00 | 198.00 / 1250.00 | 6667.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7iz.2xlarge ¹ | 3168.00 / 10000.00 | 396.00 / 1250.00 | 13333.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7iz.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r7iz.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r7iz.12xlarge | 19000.00 | 2375.00 | 76000.00 | ✓ | 32 (Dedicated limit) |
| r7iz.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r7iz.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |
| r7iz.meta-l-16xl | 20000.00 | 2500.00 | 80000.00 | ✓ | 39 (Dedicated limit) |
| r7iz.meta-l-32xl | 40000.00 | 5000.00 | 160000.00 | ✓ | 79 (Dedicated limit) |
| R8g | | | | | |
| r8g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r8g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| r8g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| r8g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r8g.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| r8g.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| r8g.metal -24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r8g.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| R8gd | | | | | |
| r8gd.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| r8gd.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r8gd.16xl arge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r8gd.24xl arge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| r8gd.48xl arge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| r8gd.meta l-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| r8gd.meta l-48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| R8i | | | | | |
| r8i.large ¹ | 650.00 / 10000.00 | 81.25 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r8i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| r8i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| r8i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| r8i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | 88 (Dedicated limit) |
| r8i.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| r8i.96xlarge | 80000.00 | 10000.00 | 480000.00 | ✓ | 128 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------------|-------------------------------------|---|--------------------------------------|------|---|
| r8i.metal -48xl | 60000.00 | 7500.00 | 240000.00 | ✓ | 64 (Dedicated limit) |
| r8i.metal -96xl | 80000.00 | 10000.00 | 480000.00 | ✓ | 79 (Dedicated limit) |
| R8i-flex | | | | | |
| r8i-flex.large ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i-flex.xlarge ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i-flex.2xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i-flex.4xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i-flex.8xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| r8i-flex.12xlarge ¹ | 7500.00 / 15000.00 | 937.50 / 1875.00 | 30000.00 / 60000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------------|-------------------------------------|---|--------------------------------------|------|--|
| r8i-flex.16xlarge ¹ | 10000.00 / 20000.00 | 1250.00 / 2500.00 | 40000.00 / 80000.00 | ✓ | 48 (Dedicated limit) |
| U-3tb1 | | | | | |
| u-3tb1.56xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| U-6tb1 | | | | | |
| u-6tb1.56xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| u-6tb1.112xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| u-6tb1.metal | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| U-9tb1 | | | | | |
| u-9tb1.112xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| u-9tb1.metal | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| U-12tb1 | | | | | |
| u-12tb1.12xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|------------------|-------------------------------------|---|--------------------------------------|------|--|
| u-12tb1.metal | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| U-18tb1 | | | | | |
| u-18tb1.12xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| u-18tb1.metal | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| U-24tb1 | | | | | |
| u-24tb1.12xlarge | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 27 (Shared limit) |
| u-24tb1.metal | 38000.00 | 4750.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| U7i-6tb | | | | | |
| u7i-6tb.12xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7i-8tb | | | | | |
| u7i-8tb.12xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7i-12tb | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| u7i-12tb. 224xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7in-16tb | | | | | |
| u7in-16tb .224xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7in-24tb | | | | | |
| u7in-24tb .224xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7in-32tb | | | | | |
| u7in-32tb .224xlarge | 100000.00 | 12500.00 | 560000.00 | ✓ | 128 (Dedicated limit) |
| U7inh-32tb | | | | | |
| u7inh-32t b.480xlarge | 160000.00 | 20000.00 | 840000.00 | ✓ | 128 (Dedicated limit) |
| X1 | | | | | |
| x1.16xlarge | 7000.00 | 875.00 | 40000.00 | ✗ | Up to 40 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| x1.32xlarge | 14000.00 | 1750.00 | 80000.00 | x | Up to 40 (Xen-based limit) |
| X1e | | | | | |
| x1e.xlarge | 500.00 | 62.50 | 3700.00 | x | Up to 40 (Xen-based limit) |
| X1e | | | | | |
| x1e.2xlarge | 1000.00 | 125.00 | 7400.00 | x | Up to 40 (Xen-based limit) |
| x1e.4xlarge | 1750.00 | 218.75 | 10000.00 | x | Up to 40 (Xen-based limit) |
| x1e.8xlarge | 3500.00 | 437.50 | 20000.00 | x | Up to 40 (Xen-based limit) |
| x1e.16xlarge | 7000.00 | 875.00 | 40000.00 | x | Up to 40 (Xen-based limit) |
| x1e.32xlarge | 14000.00 | 1750.00 | 80000.00 | x | Up to 40 (Xen-based limit) |
| X2gd | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| x2gd.medium ¹ | 315.00 / 4750.00 | 39.38 / 593.75 | 2500.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.large ¹ | 630.00 / 4750.00 | 78.75 / 593.75 | 3600.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| x2gd.12xlarge | 14250.00 | 1781.25 | 60000.00 | ✓ | Up to 25 (Shared limit) |
| x2gd.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| x2gd.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| X2idn | | | | | |
| x2idn.16xlarge | 40000.00 | 5000.00 | 173333.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-----------------------------|-------------------------------------|---|--------------------------------------|------|--|
| x2idn.24xlarge | 60000.00 | 7500.00 | 260000.00 | ✓ | Up to 25 (Shared limit) |
| x2idn.32xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 25 (Shared limit) |
| x2idn.metal | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 31 (Shared limit) |
| X2iedn | | | | | |
| x2iedn.xlarge ¹ | 2500.00 / 20000.00 | 312.50 / 2500.00 | 8125.00 / 65000.00 | ✓ | Up to 26 (Shared limit) |
| x2iedn.2xlarge ¹ | 5000.00 / 20000.00 | 625.00 / 2500.00 | 16250.00 / 65000.00 | ✓ | Up to 26 (Shared limit) |
| x2iedn.4xlarge ¹ | 10000.00 / 20000.00 | 1250.00 / 2500.00 | 32500.00 / 65000.00 | ✓ | Up to 26 (Shared limit) |
| x2iedn.8xlarge | 20000.00 | 2500.00 | 65000.00 | ✓ | Up to 26 (Shared limit) |
| x2iedn.16xlarge | 40000.00 | 5000.00 | 130000.00 | ✓ | Up to 26 (Shared limit) |
| x2iedn.24xlarge | 60000.00 | 7500.00 | 195000.00 | ✓ | Up to 25 (Shared limit) |
| x2iedn.32xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|---|
| x2iedn.metal | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 31 (Shared limit) |
| X2iezn | | | | | |
| x2iezn.2x large | 3170.00 | 396.25 | 13333.00 | ✓ | Up to 27 (Shared limit) |
| x2iezn.4x large | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| x2iezn.6x large | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 27 (Shared limit) |
| x2iezn.8x large | 12000.00 | 1500.00 | 55000.00 | ✓ | Up to 27 (Shared limit) |
| x2iezn.12 xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |
| x2iezn.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| X8g | | | | | |
| x8g.medium ¹ | 315.00 / 10000.00 | 39.38 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| x8g.large ¹ | 630.00 / 10000.00 | 78.75 / 1250.00 | 3600.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| x8g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| x8g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 12000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| x8g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| x8g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| x8g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| x8g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| x8g.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| x8g.48xlarge | 40000.00 | 5000.00 | 240000.00 | ✓ | 128 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|--|
| x8g.metal -24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| x8g.metal -48xl | 40000.00 | 5000.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| z1d | | | | | |
| z1d.large ¹ | 800.00 / 3170.00 | 100.00 / 396.25 | 3333.00 / 13333.00 | ✓ | Up to 26 (Shared limit) |
| z1d.xlarge ¹ | 1580.00 / 3170.00 | 197.50 / 396.25 | 6667.00 / 13333.00 | ✓ | Up to 26 (Shared limit) |
| z1d.2xlarge | 3170.00 | 396.25 | 13333.00 | ✓ | Up to 26 (Shared limit) |
| z1d.3xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| z1d.6xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| z1d.12xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| z1d.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

 **Note**

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| R5ad | | | | | |
| r5ad.large | 1 x 75 GB | NVMe SSD | 30,000 / 15,000 | | ✓ |
| r5ad.xlarge | 1 x 150 GB | NVMe SSD | 59,000 / 29,000 | | ✓ |
| r5ad.2xlarge | 1 x 300 GB | NVMe SSD | 117,000 / 57,000 | | ✓ |
| r5ad.4xlarge | 2 x 300 GB | NVMe SSD | 234,000 / 114,000 | | ✓ |
| r5ad.8xlarge | 2 x 600 GB | NVMe SSD | 466,666 / 233,334 | | ✓ |
| r5ad.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| r5ad.16xlarge | 4 x 600 GB | NVMe SSD | 933,332 / 466,668 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r5ad.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| R5d | | | | | |
| r5d.large | 1 x 75 GB | NVMe SSD | 30,000 / 15,000 | | ✓ |
| r5d.xlarge | 1 x 150 GB | NVMe SSD | 59,000 / 29,000 | | ✓ |
| r5d.2xlarge | 1 x 300 GB | NVMe SSD | 117,000 / 57,000 | | ✓ |
| r5d.4xlarge | 2 x 300 GB | NVMe SSD | 234,000 / 114,000 | | ✓ |
| r5d.8xlarge | 2 x 600 GB | NVMe SSD | 466,666 / 233,334 | | ✓ |
| r5d.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| r5d.16xlarge | 4 x 600 GB | NVMe SSD | 933,332 / 466,668 | | ✓ |
| r5d.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| r5d.metal | 4 x 900 GB | NVMe SSD | 1,400,000 / 680,000 | | ✓ |
| R5dn | | | | | |
| r5dn.large | 1 x 75 GB | NVMe SSD | 29,000 / 14,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r5dn.xlarge | 1 x 150 GB | NVMe SSD | 58,000 / 29,000 | | ✓ |
| r5dn.2xlarge | 1 x 300 GB | NVMe SSD | 116,000 / 58,000 | | ✓ |
| r5dn.4xlarge | 2 x 300 GB | NVMe SSD | 232,000 / 116,000 | | ✓ |
| r5dn.8xlarge | 2 x 600 GB | NVMe SSD | 464,000 / 232,000 | | ✓ |
| r5dn.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 350,000 | | ✓ |
| r5dn.16xlarge | 4 x 600 GB | NVMe SSD | 930,000 / 465,000 | | ✓ |
| r5dn.24xlarge | 4 x 900 GB | NVMe SSD | 1,400,000 / 700,000 | | ✓ |
| r5dn.metal | 4 x 900 GB | NVMe SSD | 1,400,000 / 700,000 | | ✓ |
| R6gd | | | | | |
| r6gd.medium | 1 x 59 GB | NVMe SSD | 13,438 / 5,625 | | ✓ |
| r6gd.large | 1 x 118 GB | NVMe SSD | 26,875 / 11,250 | | ✓ |
| r6gd.xlarge | 1 x 237 GB | NVMe SSD | 53,750 / 22,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r6gd.2xlarge | 1 x 474 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |
| r6gd.4xlarge | 1 x 950 GB | NVMe SSD | 215,000 / 90,000 | | ✓ |
| r6gd.8xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| r6gd.12xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| r6gd.16xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| r6gd.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| R6id | | | | | |
| r6id.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| r6id.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| r6id.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| r6id.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| r6id.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r6id.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |
| r6id.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| r6id.24xlarge | 4 x 1425 GB | NVMe SSD | 1,609,996 / 805,000 | | ✓ |
| r6id.32xlarge | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| r6id.metal | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| R6idn | | | | | |
| r6idn.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| r6idn.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| r6idn.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| r6idn.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| r6idn.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| r6idn.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r6idn.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| r6idn.24xlarge | 4 x 1425 GB | NVMe SSD | 1,609,996 / 805,000 | | ✓ |
| r6idn.32xlarge | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| r6idn.metal | 4 x 1900 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |
| R7gd | | | | | |
| r7gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| r7gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| r7gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| r7gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| r7gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| r7gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| r7gd.12xlarge | 2 x 1425 GB | NVMe SSD | 804,998 / 402,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r7gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| r7gd.metal | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| R8gd | | | | | |
| r8gd.medium | 1 x 59 GB | NVMe SSD | 16,771 / 8,385 | | ✓ |
| r8gd.large | 1 x 118 GB | NVMe SSD | 33,542 / 16,771 | | ✓ |
| r8gd.xlarge | 1 x 237 GB | NVMe SSD | 67,083 / 33,542 | | ✓ |
| r8gd.2xlarge | 1 x 474 GB | NVMe SSD | 134,167 / 67,084 | | ✓ |
| r8gd.4xlarge | 1 x 950 GB | NVMe SSD | 268,333 / 134,167 | | ✓ |
| r8gd.8xlarge | 1 x 1900 GB | NVMe SSD | 536,666 / 268,334 | | ✓ |
| r8gd.12xlarge | 3 x 950 GB | NVMe SSD | 804,999 / 402,501 | | ✓ |
| r8gd.16xlarge | 2 x 1900 GB | NVMe SSD | 1,073,332 / 536,668 | | ✓ |
| r8gd.24xlarge | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| r8gd.48xlarge | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |
| r8gd.metal-24xl | 3 x 1900 GB | NVMe SSD | 1,609,998 / 805,002 | | ✓ |
| r8gd.metal-48xl | 6 x 1900 GB | NVMe SSD | 3,219,996 / 1,610,004 | | ✓ |
| X1 | | | | | |
| x1.16xlarge | 1 x 1920 GB | SSD | | ✓ | |
| x1.32xlarge | 2 x 1920 GB | SSD | | ✓ | |
| X1e | | | | | |
| 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 | | ✓ | |
| X2gd | | | | | |
| x2gd.medium | 1 x 59 GB | NVMe SSD | 13,438 / 5,625 | | ✓ |
| x2gd.large | 1 x 118 GB | NVMe SSD | 26,875 / 11,250 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| x2gd.xlarge | 1 x 237 GB | NVMe SSD | 53,750 / 22,500 | | ✓ |
| x2gd.2xlarge | 1 x 475 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |
| x2gd.4xlarge | 1 x 950 GB | NVMe SSD | 215,000 / 90,000 | | ✓ |
| x2gd.8xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| x2gd.12xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| x2gd.16xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| x2gd.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |

X2idn

| | | | | | |
|----------------|-------------|----------|-------------------|--|---|
| x2idn.16xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| x2idn.24xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| x2idn.32xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| x2idn.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |

X2iedn

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| x2iedn.xlarge | 1 x 118 GB | NVMe SSD | 26,875 / 11,250 | | ✓ |
| x2iedn.2xlarge | 1 x 237 GB | NVMe SSD | 53,750 / 22,500 | | ✓ |
| x2iedn.4xlarge | 1 x 475 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |
| x2iedn.8xlarge | 1 x 950 GB | NVMe SSD | 215,000 / 90,000 | | ✓ |
| x2iedn.16xlarge | 1 x 1900 GB | NVMe SSD | 430,000 / 180,000 | | ✓ |
| x2iedn.24xlarge | 2 x 1425 GB | NVMe SSD | 645,000 / 270,000 | | ✓ |
| x2iedn.32xlarge | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |
| x2iedn.metal | 2 x 1900 GB | NVMe SSD | 860,000 / 360,000 | | ✓ |

z1d

| | | | | | |
|-------------|------------|----------|------------------|--|---|
| z1d.large | 1 x 75 GB | NVMe SSD | 30,000 / 15,000 | | ✓ |
| z1d.xlarge | 1 x 150 GB | NVMe SSD | 59,000 / 29,000 | | ✓ |
| z1d.2xlarge | 1 x 300 GB | NVMe SSD | 117,000 / 57,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| z1d.3xlarge | 1 x 450 GB | NVMe SSD | 175,000 / 75,000 | | ✓ |
| z1d.6xlarge | 1 x 900 GB | NVMe SSD | 350,000 / 170,000 | | ✓ |
| z1d.12xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| z1d.metal | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| R5 | | | | | | |
| r5.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| r5.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r5.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| R5a | | | | | | |
| r5a.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r5a.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5a.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| R5ad | | | | | | |
| r5ad.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| r5ad.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r5ad.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5ad.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5ad.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5ad.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5ad.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5ad.24xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| R5b | | | | | | |
| r5b.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| r5b.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r5b.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.24xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r5b.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| R5d | | | | | | |
| r5d.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| r5d.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.24xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r5d.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| R5dn | | | | | | |
| r5dn.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| r5dn.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r5dn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| R5n | | | | | | |
| r5n.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r5n.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r5n.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r5n.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

R6a

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| r6a.large | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✗ |
| r6a.xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6a.2xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| r6a.4xlarge | ✓ | Instance store not supported | ✓ | ✓ | ✓ | ✓ |
| r6a.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6a.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

R6g

| | | | | | | |
|--------------|---|------------------------------|---|---|---|---|
| r6g.medium | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✗ |
| r6g.large | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.12xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6g.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✓ | ✓ |
| r6g.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| R6gd | | | | | | |
| r6gd.medium | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| r6gd.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.4xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.8xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.16xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| r6gd.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| R6i | | | | | | |
| r6i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6i.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6i.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R6id | | | | | | |
| r6id.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| r6id.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6id.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| R6idn | | | | | | |
| r6idn.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| r6idn.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6idn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r6idn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| R6in | | | | | | |
| r6in.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r6in.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r6in.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r6in.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

R7a

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| r7a.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r7a.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r7a.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7a.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7a.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R7g | | | | | | |
| r7g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r7g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7g.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R7gd | | | | | | |
| r7gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| r7gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r7gd.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| R7i | | | | | | |
| r7i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7i.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7i.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| r7i.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R7iz | | | | | | |
| r7iz.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r7iz.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r7iz.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r7iz.metal-16xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| r7iz.metal-32xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R8g | | | | | | |
| r8g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r8g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| r8g.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| r8g.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R8gd | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| r8gd.medium | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| r8gd.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| r8gd.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| r8gd.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

R8i

| | | | | | | |
|------------|---|------------------------------|---|---|---|---|
| r8i.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r8i.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.32xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r8i.96xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| r8i.metal-96xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| R8i-flex | | | | | | |
| r8i-flex.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i-flex.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i-flex.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i-flex.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i-flex.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r8i-flex.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| r8i-flex.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U-3tb1 | | | | | | |
| u-3tb1.56xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| U-6tb1 | | | | | | |
| u-6tb1.56xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| u-6tb1.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| u-6tb1.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| U-9tb1 | | | | | | |
| u-9tb1.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| u-9tb1.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| U-12tb1 | | | | | | |
| u-12tb1.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| u-12tb1.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| U-18tb1 | | | | | | |
| u-18tb1.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| u-18tb1.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| U-24tb1 | | | | | | |
| u-24tb1.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| u-24tb1.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| U7i-6tb | | | | | | |
| u7i-6tb.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7i-8tb | | | | | | |
| u7i-8tb.112xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7i-12tb | | | | | | |
| u7i-12tb.224xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7in-16tb | | | | | | |
| u7in-16tb.224xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7in-24tb | | | | | | |
| u7in-24tb.224xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7in-32tb | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|--------------------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| u7in-32tb .224xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| U7inh-32tb | | | | | | |
| u7inh-32t b.480xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| X1 | | | | | | |
| x1.16xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1.32xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| X1e | | | | | | |
| x1e.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1e.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1e.4xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1e.8xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1e.16xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| x1e.32xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| X2gd | | | | | | |
| x2gd.medium | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| x2gd.large | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| x2gd.xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.2xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.4xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.8xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.12xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.16xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ |
| x2gd.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| X2idn | | | | | | |
| x2idn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2idn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2idn.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2idn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| X2iedn | | | | | | |
| x2iedn.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| x2iedn.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| x2iedn.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

X2iezn

| | | | | | | |
|-----------------|---|------------------------------|---|---|---|---|
| x2iezn.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x2iezn.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x2iezn.6xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x2iezn.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x2iezn.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x2iezn.metal | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

X8g

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| x8g.medium | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| x8g.large | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| x8g.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| x8g.metal-24xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| x8g.metal-48xl | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| z1d | | | | | | |
| z1d.large | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| z1d.xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| z1d.2xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| z1d.3xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| z1d.6xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| z1d.12xlarge | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| z1d.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |

Specifications for Amazon EC2 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.

For information on previous generation instance types of this category, such as I2 instances, see [Specifications for Amazon EC2 previous generation instances](#).

Contents

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| 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 |

| Instance family | Available instance types |
|-----------------|---|
| I3 | i3.large i3.xlarge i3.2xlarge i3.4xlarge i3.8xlarge i3.16xlarge i3.metal |
| I3en | i3en.large i3en.xlarge i3en.2xlarge i3en.3xlarge i3en.6xlarge i3en.12xlarge i3en.24xlarge i3en.metal |
| I4g | i4g.large i4g.xlarge i4g.2xlarge i4g.4xlarge i4g.8xlarge i4g.16xlarge |
| I4i | i4i.large i4i.xlarge i4i.2xlarge i4i.4xlarge i4i.8xlarge i4i.12xlarge i4i.16xlarge i4i.24xlarge i4i.32xlarge i4i.metal |
| I7i | i7i.large i7i.xlarge i7i.2xlarge i7i.4xlarge i7i.8xlarge i7i.12xlarge i7i.16xlarge i7i.24xlarge i7i.48xlarge i7i.metal-24xl i7i.metal-48xl |
| I7ie | i7ie.large i7ie.xlarge i7ie.2xlarge i7ie.3xlarge i7ie.6xlarge i7ie.12xlarge i7ie.18xlarge i7ie.24xlarge i7ie.48xlarge i7ie.metal-24xl i7ie.metal-48xl |
| I8g | i8g.large i8g.xlarge i8g.2xlarge i8g.4xlarge i8g.8xlarge i8g.12xlarge i8g.16xlarge i8g.24xlarge i8g.48xlarge i8g.metal-24xl |
| I8ge | i8ge.large i8ge.xlarge i8ge.2xlarge i8ge.3xlarge i8ge.6xlarge i8ge.12xlarge i8ge.18xlarge i8ge.24xlarge i8ge.48xlarge i8ge.metal-24xl i8ge.metal-48xl |
| Im4gn | im4gn.large im4gn.xlarge im4gn.2xlarge im4gn.4xlarge im4gn.8xlarge im4gn.16xlarge |
| Is4gen | is4gen.medium is4gen.large is4gen.xlarge is4gen.2xlarge is4gen.4xlarge is4gen.8xlarge |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| D2 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| D3 | Nitro v3 | Intel (x86_64) | x | x | ✓ | x | Windows Linux |
| D3en | Nitro v3 | Intel (x86_64) | x | x | ✓ | x | Windows Linux |
| H1 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| I3 | Xen * | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| I3en | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| I4g | Nitro v4 | AWS Graviton (arm64) | x | ✓ | ✓ | ✓ | Linux |
| I4i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | x | Windows Linux |
| I7i | Nitro v4 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |
| I7ie | Nitro v5 | Intel (x86_64) | ✓ | ✓ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| I8g | Nitro v5 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| I8ge | Nitro v6 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✓ | Linux |
| Im4gn | Nitro v4 | AWS Graviton (arm64) | ✗ | ✓ | ✓ | ✓ | Linux |
| Is4gen | Nitro v4 | AWS Graviton (arm64) | ✗ | ✗ | ✓ | ✓ | Linux |

 **Note**

* i3.metal instances are built on the AWS Nitro System.

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| D2 | | | | | | | |
| d2.xlarge | 30.50 | Intel Xeon E52676v3 | 4 | 2 | 2 | ✗ | ✗ |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| d2.2xlarge | 61.00 | Intel Xeon E52676v3 | 8 | 4 | 2 | x | x |
| d2.4xlarge | 122.00 | Intel Xeon E52676v3 | 16 | 8 | 2 | x | x |
| d2.8xlarge | 244.00 | Intel Xeon E52676v3 | 36 | 18 | 2 | x | x |
| D3 | | | | | | | |
| d3.xlarge | 32.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |
| d3.2xlarge | 64.00 | Intel Xeon Platinum 8259 | 8 | 4 | 2 | x | x |
| d3.4xlarge | 128.00 | Intel Xeon Platinum 8259 | 16 | 8 | 2 | x | x |
| d3.8xlarge | 256.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| D3en | | | | | | | |
| d3en.xlarge | 16.00 | Intel Xeon Platinum 8259 | 4 | 2 | 2 | x | x |
| d3en.2xlarge | 32.00 | Intel Xeon Platinum 8259 | 8 | 4 | 2 | x | x |
| d3en.4xlarge | 64.00 | Intel Xeon Platinum 8259 | 16 | 8 | 2 | x | x |
| d3en.6xlarge | 96.00 | Intel Xeon Platinum 8259 | 24 | 12 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| d3en.8xlarge | 128.00 | Intel Xeon Platinum 8259 | 32 | 16 | 2 | x | x |
| d3en.12xlarge | 192.00 | Intel Xeon Platinum 8259 | 48 | 24 | 2 | x | x |
| H1 | | | | | | | |
| h1.2xlarge | 32.00 | Intel Broadwell E5-2686v4 | 8 | 4 | 2 | x | x |
| h1.4xlarge | 64.00 | Intel Broadwell E5-2686v4 | 16 | 8 | 2 | x | x |
| h1.8xlarge | 128.00 | Intel Broadwell E5-2686v4 | 32 | 16 | 2 | x | x |
| h1.16xlarge | 256.00 | Intel Broadwell E5-2686v4 | 64 | 32 | 2 | x | x |
| I3 | | | | | | | |
| i3.large | 15.25 | Intel Broadwell E5-2686v4 | 2 | 1 | 2 | x | x |
| i3.xlarge | 30.50 | Intel Broadwell E5-2686v4 | 4 | 2 | 2 | x | x |
| i3.2xlarge | 61.00 | Intel Broadwell E5-2686v4 | 8 | 4 | 2 | x | x |
| i3.4xlarge | 122.00 | Intel Broadwell E5-2686v4 | 16 | 8 | 2 | x | x |
| i3.8xlarge | 244.00 | Intel Broadwell E5-2686v4 | 32 | 16 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| i3.16xlarge | 488.00 | Intel Broadwell E5-2686v4 | 64 | 32 | 2 | x | x |
| i3.metal | 512.00 | Intel Broadwell E5-2686v4 | 72 | 36 | 2 | x | x |
| i3en | | | | | | | |
| i3en.large | 16.00 | Intel Xeon Platinum 8175 | 2 | 1 | 2 | x | x |
| i3en.xlarge | 32.00 | Intel Xeon Platinum 8175 | 4 | 2 | 2 | x | x |
| i3en.2xlarge | 64.00 | Intel Xeon Platinum 8175 | 8 | 4 | 2 | x | x |
| i3en.3xlarge | 96.00 | Intel Xeon Platinum 8175 | 12 | 6 | 2 | x | x |
| i3en.6xlarge | 192.00 | Intel Xeon Platinum 8175 | 24 | 12 | 2 | x | x |
| i3en.12xlarge | 384.00 | Intel Xeon Platinum 8175 | 48 | 24 | 2 | x | x |
| i3en.24xlarge | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| i3en.metal | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | x | x |
| i4g | | | | | | | |
| i4g.large | 16.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| i4g.xlarge | 32.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| i4g.2xlarge | 64.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| i4g.4xlarge | 128.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| i4g.8xlarge | 256.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| i4g.16xlarge | 512.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |

I4i

| | | | | | | | |
|--------------|---------|---------------------|-----|----|---|---|---|
| i4i.large | 16.00 | Intel Xeon Ice Lake | 2 | 1 | 2 | x | x |
| i4i.xlarge | 32.00 | Intel Xeon Ice Lake | 4 | 2 | 2 | x | x |
| i4i.2xlarge | 64.00 | Intel Xeon Ice Lake | 8 | 4 | 2 | x | x |
| i4i.4xlarge | 128.00 | Intel Xeon Ice Lake | 16 | 8 | 2 | x | x |
| i4i.8xlarge | 256.00 | Intel Xeon Ice Lake | 32 | 16 | 2 | x | x |
| i4i.12xlarge | 384.00 | Intel Xeon Ice Lake | 48 | 24 | 2 | x | x |
| i4i.16xlarge | 512.00 | Intel Xeon Ice Lake | 64 | 32 | 2 | x | x |
| i4i.24xlarge | 768.00 | Intel Xeon Ice Lake | 96 | 48 | 2 | x | x |
| i4i.32xlarge | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |
| i4i.metal | 1024.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|----------------------|-------|-----------|------------------|--------------|--------------------|
| i7i | | | | | | | |
| i7i.large | 16.00 | Intel Emerald Rapids | 2 | 1 | 2 | x | x |
| i7i.xlarge | 32.00 | Intel Emerald Rapids | 4 | 2 | 2 | x | x |
| i7i.2xlarge | 64.00 | Intel Emerald Rapids | 8 | 4 | 2 | x | x |
| i7i.4xlarge | 128.00 | Intel Emerald Rapids | 16 | 8 | 2 | x | x |
| i7i.8xlarge | 256.00 | Intel Emerald Rapids | 32 | 16 | 2 | x | x |
| i7i.12xlarge | 384.00 | Intel Emerald Rapids | 48 | 24 | 2 | x | x |
| i7i.16xlarge | 512.00 | Intel Emerald Rapids | 64 | 32 | 2 | x | x |
| i7i.24xlarge | 768.00 | Intel Emerald Rapids | 96 | 48 | 2 | x | x |
| i7i.48xlarge | 1536.00 | Intel Emerald Rapids | 192 | 96 | 2 | x | x |
| i7i.metal-24xl | 768.00 | Intel Emerald Rapids | 96 | 48 | 2 | x | x |
| i7i.metal-48xl | 1536.00 | Intel Emerald Rapids | 192 | 96 | 2 | x | x |
| i7ie | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|----------------------|-------|-----------|------------------|--------------|--------------------|
| i7ie.large | 16.00 | Intel Emerald Rapids | 2 | 1 | 2 | x | x |
| i7ie.xlarge | 32.00 | Intel Emerald Rapids | 4 | 2 | 2 | x | x |
| i7ie.2xlarge | 64.00 | Intel Emerald Rapids | 8 | 4 | 2 | x | x |
| i7ie.3xlarge | 96.00 | Intel Emerald Rapids | 12 | 6 | 2 | x | x |
| i7ie.6xlarge | 192.00 | Intel Emerald Rapids | 24 | 12 | 2 | x | x |
| i7ie.12xlarge | 384.00 | Intel Emerald Rapids | 48 | 24 | 2 | x | x |
| i7ie.18xlarge | 576.00 | Intel Emerald Rapids | 72 | 36 | 2 | x | x |
| i7ie.24xlarge | 768.00 | Intel Emerald Rapids | 96 | 48 | 2 | x | x |
| i7ie.48xlarge | 1536.00 | Intel Emerald Rapids | 192 | 96 | 2 | x | x |
| i7ie.meta-l-24xl | 768.00 | Intel Emerald Rapids | 96 | 48 | 2 | x | x |
| i7ie.meta-l-48xl | 1536.00 | Intel Emerald Rapids | 192 | 96 | 2 | x | x |
| 18g | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| i8g.large | 16.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |
| i8g.xlarge | 32.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| i8g.2xlarge | 64.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| i8g.4xlarge | 128.00 | AWS Graviton4 Processor | 16 | 16 | 1 | x | x |
| i8g.8xlarge | 256.00 | AWS Graviton4 Processor | 32 | 32 | 1 | x | x |
| i8g.12xlarge | 384.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| i8g.16xlarge | 512.00 | AWS Graviton4 Processor | 64 | 64 | 1 | x | x |
| i8g.24xlarge | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| i8g.48xlarge | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| i8g.metal-24xl | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| I8ge | | | | | | | |
| i8ge.large | 16.00 | AWS Graviton4 Processor | 2 | 2 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|------------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| i8ge.xlarge | 32.00 | AWS Graviton4 Processor | 4 | 4 | 1 | x | x |
| i8ge.2xlarge | 64.00 | AWS Graviton4 Processor | 8 | 8 | 1 | x | x |
| i8ge.3xlarge | 96.00 | AWS Graviton4 Processor | 12 | 12 | 1 | x | x |
| i8ge.6xlarge | 192.00 | AWS Graviton4 Processor | 24 | 24 | 1 | x | x |
| i8ge.12xlarge | 384.00 | AWS Graviton4 Processor | 48 | 48 | 1 | x | x |
| i8ge.18xlarge | 576.00 | AWS Graviton4 Processor | 72 | 72 | 1 | x | x |
| i8ge.24xlarge | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| i8ge.48xlarge | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| i8ge.meta-l-24xl | 768.00 | AWS Graviton4 Processor | 96 | 96 | 1 | x | x |
| i8ge.meta-l-48xl | 1536.00 | AWS Graviton4 Processor | 192 | 192 | 1 | x | x |
| Im4gn | | | | | | | |
| im4gn.large | 8.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|-------------------------|-------|-----------|------------------|--------------|--------------------|
| im4gn.xlarge | 16.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| im4gn.2xlarge | 32.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| im4gn.4xlarge | 64.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| im4gn.8xlarge | 128.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |
| im4gn.16xlarge | 256.00 | AWS Graviton2 Processor | 64 | 64 | 1 | x | x |
| Is4gen | | | | | | | |
| is4gen.medium | 6.00 | AWS Graviton2 Processor | 1 | 1 | 1 | x | x |
| is4gen.large | 12.00 | AWS Graviton2 Processor | 2 | 2 | 1 | x | x |
| is4gen.xlarge | 24.00 | AWS Graviton2 Processor | 4 | 4 | 1 | x | x |
| is4gen.2xlarge | 48.00 | AWS Graviton2 Processor | 8 | 8 | 1 | x | x |
| is4gen.4xlarge | 96.00 | AWS Graviton2 Processor | 16 | 16 | 1 | x | x |
| is4gen.8xlarge | 192.00 | AWS Graviton2 Processor | 32 | 32 | 1 | x | x |

Network specifications

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|----------------|-------------|---------------|-------------------------|----------------------------|------|
| D2 | | | | | | | | |
| d2.xlarge | Moderate | x | x ² | x | 1 | 4 | 15 | ✓ |
| d2.2xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| d2.4xlarge | High | x | x ² | x | 1 | 8 | 30 | ✓ |
| d2.8xlarge | 10 Gigabit | x | x ² | x | 1 | 8 | 30 | ✓ |
| D3 | | | | | | | | |
| d3.xlarge ¹ | 3.0 / 15.0 | x | ✓ | x | 1 | 4 | 3 | ✓ |
| d3.2xlarge ¹ | 6.0 / 15.0 | x | ✓ | x | 1 | 4 | 5 | ✓ |
| d3.4xlarge ¹ | 12.5 / 15.0 | x | ✓ | x | 1 | 4 | 10 | ✓ |
| d3.8xlarge | 25 Gigabit | x | ✓ | x | 1 | 3 | 20 | ✓ |
| D3en | | | | | | | | |
| d3en.xlarge ¹ | 6.0 / 25.0 | x | ✓ | x | 1 | 4 | 3 | ✓ |
| d3en.2xlarge ¹ | 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 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| H1 | | | | | | | | |
| h1.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| h1.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| h1.8xlarge | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| h1.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 50 | ✓ |
| i3 | | | | | | | | |
| i3.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| i3.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i3.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i3.4xlarge ¹ | 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 | ✓ |
| i3en | | | | | | | | |
| i3en.large ¹ | 2.1 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| i3en.xlarge ¹ | 4.2 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i3en.2xlarge ¹ | 8.4 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i3en.3xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i3en.6xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| i3en.12xlarge | 50 Gigabit | ✓ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| i3en.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| i3en.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| i4g | | | | | | | | |
| i4g.large ¹ | 0.781 / 10.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| i4g.xlarge ¹ | 1.875 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i4g.2xlarge ¹ | 4.687 / 12.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i4g.4xlarge ¹ | 9.375 / 25.0 | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i4g.8xlarge | 18.75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i4g.16xlarge | 37.5 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i4i | | | | | | | | |
| i4i.large ¹ | 0.781 / 10.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| i4i.xlarge ¹ | 1.875 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i4i.2xlarge ¹ | 4.687 / 12.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i4i.4xlarge ¹ | 9.375 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| i4i.8xlarge | 18.75 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i4i.12xlarge | 28.12 Gigabit | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i4i.16xlarge | 37.5 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i4i.24xlarge | 56.25 Gigabit | ✗ | ✓ | ✓ | 1 | 15 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| i4i.32xlarge | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i4i.metal | 75 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7i | | | | | | | | |
| i7i.large ¹ | 1.171 / 10.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| i7i.xlarge ¹ | 2.343 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i7i.2xlarge ¹ | 4.687 / 12.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| i7i.4xlarge ¹ | 9.375 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| i7i.8xlarge ¹ | 15.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| i7i.12xlarge ¹ | 22.5 / 28.125 | ✗ | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i7i.16xlarge ¹ | 30.0 / 37.5 | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7i.24xlarge ¹ | 45.0 / 56.25 | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7i.48xlarge ¹ | 90.0 / 100.0 | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7i.metal-24xl ₁ | 45.0 / 56.25 | ✗ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7i.metal-48xl ₁ | 90.0 / 100.0 | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7ie | | | | | | | | |
| i7ie.large ¹ | 2.083 / 25.0 | ✗ | ✓ | ✗ | 1 | 3 | 10 | ✓ |
| i7ie.xlarge ¹ | 4.166 / 25.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| i7ie.2xlarge ¹ | 8.333 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i7ie.3xlarge ¹ | 12.5 / 25.0 | x | ✓ | ✓ | 1 | 4 | 15 | ✓ |
| i7ie.6xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| i7ie.12xlarge ¹ | 25.0 / 50.0 | x | ✓ | ✓ | 1 | 8 | 50 | ✓ |
| i7ie.18xlarge ¹ | 37.5 / 75.0 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7ie.24xlarge ¹ | 50.0 / 100.0 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7ie.48xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7ie.meta-l-24xl ¹ | 50.0 / 100.0 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i7ie.meta-l-48xl | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| I8g | | | | | | | | |
| i8g.large ¹ | 1.172 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| i8g.xlarge ¹ | 2.344 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i8g.2xlarge ¹ | 4.688 / 12.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i8g.4xlarge ¹ | 9.375 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| i8g.8xlarge ¹ | 15.0 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| i8g.12xlarge ¹ | 22.5 / 28.125 | x | ✓ | ✓ | 1 | 8 | 30 | ✓ |
| i8g.16xlarge ¹ | 30.0 / 37.5 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| i8g.24xlarge ¹ | 45.0 / 56.25 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i8g.48xlarge ¹ | 90.0 / 100.0 | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| i8g.metal-24xl ¹ | 45.0 / 56.25 | x | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| I8ge | | | | | | | | |
| i8ge.large ¹ | 2.1 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| i8ge.xlarge ¹ | 4.2 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i8ge.2xlarge ¹ | 8.4 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| i8ge.3xlarge ¹ | 12.5 / 25.0 | x | ✓ | x | 1 | 6 | 30 | ✓ |
| i8ge.6xlarge | 37.5 Gigabit | x | ✓ | x | 1 | 10 | 30 | ✓ |
| i8ge.12xlarge | 75 Gigabit | x | ✓ | ✓ | 1 | 12 | 30 | ✓ |
| i8ge.18xlarge | 112.5 Gigabit | x | ✓ | ✓ | 1 | 16 | 50 | ✓ |
| i8ge.24xlarge | 150 Gigabit | x | ✓ | ✓ | 1 | 16 | 50 | ✓ |
| i8ge.48xlarge | 300 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 50 | ✓ |
| i8ge.meta-l-24xl | 150 Gigabit | x | ✓ | ✓ | 1 | 16 | 50 | ✓ |
| i8ge.meta-l-48xl | 300 Gigabit | ✓ | ✓ | ✓ | 1 | 24 | 50 | ✓ |
| Im4gn | | | | | | | | |
| im4gn.large ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| im4gn.xlarge ¹ | 6.25 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| im4gn.2xlarge 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.16xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 15 | 50 | ✓ |
| Is4gen | | | | | | | | |
| is4gen.medium ¹ | 1.562 / 25.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| is4gen.large ¹ | 3.125 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| is4gen.xlarge ¹ | 6.25 / 25.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| is4gen.2xlarge 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**

¹ 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 instance types

can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

² These instances support enhanced networking using the Intel 82599 VF interface.

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

⚠ Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for r6i.16xlarge, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS-optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|------------------|
| D2 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|--|
| d2.xlarge | 750.00 | 93.75 | 6000.00 | x | Up to 40 (Xen-based limit) |
| d2.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 40 (Xen-based limit) |
| d2.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 40 (Xen-based limit) |
| d2.8xlarge | 4000.00 | 500.00 | 32000.00 | x | Up to 40 (Xen-based limit) |
| D3 | | | | | |
| d3.xlarge ¹ | 850.00 / 2800.00 | 106.25 / 350.00 | 5000.00 / 15000.00 | ✓ | Up to 24 (Shared limit) |
| d3.2xlarge ¹ | 1700.00 / 2800.00 | 212.50 / 350.00 | 10000.00 / 15000.00 | ✓ | Up to 21 (Shared limit) |
| d3.4xlarge | 2800.00 | 350.00 | 15000.00 | ✓ | Up to 15 (Shared limit) |
| d3.8xlarge | 5000.00 | 625.00 | 30000.00 | ✓ | Up to 3 (Shared limit) |
| D3en | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| d3en.xlarge ¹ | 850.00 / 2800.00 | 106.25 / 350.00 | 5000.00 / 15000.00 | ✓ | Up to 25 (Shared limit) |
| d3en.2xlarge ¹ | 1700.00 / 2800.00 | 212.50 / 350.00 | 10000.00 / 15000.00 | ✓ | Up to 23 (Shared limit) |
| d3en.4xlarge | 2800.00 | 350.00 | 15000.00 | ✓ | Up to 19 (Shared limit) |
| d3en.6xlarge | 4000.00 | 500.00 | 25000.00 | ✓ | Up to 15 (Shared limit) |
| d3en.8xlarge | 5000.00 | 625.00 | 30000.00 | ✓ | Up to 11 (Shared limit) |
| d3en.12xlarge | 7000.00 | 875.00 | 40000.00 | ✓ | Up to 3 (Shared limit) |
| H1 | | | | | |
| h1.2xlarge | 1750.00 | 218.75 | 12000.00 | ✗ | Up to 40 (Xen-based limit) |
| h1.4xlarge | 3500.00 | 437.50 | 20000.00 | ✗ | Up to 40 (Xen-based limit) |
| h1.8xlarge | 7000.00 | 875.00 | 40000.00 | ✗ | Up to 40 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| h1.16xlarge | 14000.00 | 1750.00 | 80000.00 | x | Up to 40 (Xen-based limit) |
| i3 | | | | | |
| i3.large | 425.00 | 53.12 | 3000.00 | x | Up to 40 (Xen-based limit) |
| i3.xlarge | 850.00 | 106.25 | 6000.00 | x | Up to 40 (Xen-based limit) |
| i3.2xlarge | 1700.00 | 212.50 | 12000.00 | x | Up to 40 (Xen-based limit) |
| i3.4xlarge | 3500.00 | 437.50 | 16000.00 | x | Up to 40 (Xen-based limit) |
| i3.8xlarge | 7000.00 | 875.00 | 32500.00 | x | Up to 40 (Xen-based limit) |
| i3.16xlarge | 14000.00 | 1750.00 | 65000.00 | x | Up to 40 (Xen-based limit) |
| i3.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| i3en | | | | | |
| i3en.large ¹ | 576.00 / 4750.00 | 72.10 / 593.75 | 3000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| i3en.xlarge ¹ | 1153.00 / 4750.00 | 144.20 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| i3en.2xlarge ¹ | 2307.00 / 4750.00 | 288.39 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 25 (Shared limit) |
| i3en.3xlarge ¹ | 3800.00 / 4750.00 | 475.00 / 593.75 | 15000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| i3en.6xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| i3en.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 23 (Shared limit) |
| i3en.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 19 (Shared limit) |
| i3en.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| i4g | | | | | |
| i4g.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| i4g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| i4g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |
| I4i | | | | | |
| i4i.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| i4i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| i4i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | Up to 24 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| i4i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |
| i4i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 21 (Shared limit) |
| i4i.32xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 19 (Shared limit) |
| i4i.metal | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 31 (Shared limit) |
| i7i | | | | | |
| i7i.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7i.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7i.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7i.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7i.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| i7i.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| i7i.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| i7i.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| i7i.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| i7i.metal -24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| i7i.metal -48xl | 60000.00 | 7500.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| I7ie | | | | | |
| i7ie.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7ie.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| i7ie.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7ie.3xlarge ¹ | 3750.00 / 10000.00 | 468.75 / 1250.00 | 15000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7ie.6xlarge ¹ | 7500.00 / 10000.00 | 937.50 / 1250.00 | 30000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i7ie.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| i7ie.18xlarge | 22500.00 | 2812.50 | 90000.00 | ✓ | 48 (Dedicated limit) |
| i7ie.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| i7ie.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| i7ie.meta-l-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| i7ie.meta-l-48xl | 60000.00 | 7500.00 | 240000.00 | ✓ | 79 (Dedicated limit) |
| I8g | | | | | |
| i8g.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8g.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8g.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8g.4xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8g.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | 32 (Dedicated limit) |
| i8g.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| i8g.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| i8g.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| i8g.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| i8g.metal-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| I8ge | | | | | |
| i8ge.large ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8ge.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8ge.2xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8ge.3xlarge ¹ | 3750.00 / 10000.00 | 468.75 / 1250.00 | 15000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |
| i8ge.6xlarge ¹ | 7500.00 / 10000.00 | 937.50 / 1250.00 | 30000.00 / 40000.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|------------------|-------------------------------------|---|--------------------------------------|------|--|
| i8ge.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| i8ge.18xlarge | 22500.00 | 2812.50 | 90000.00 | ✓ | 48 (Dedicated limit) |
| i8ge.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| i8ge.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| i8ge.meta-l-24xl | 30000.00 | 3750.00 | 120000.00 | ✓ | 39 (Dedicated limit) |
| i8ge.meta-l-48xl | 60000.00 | 7500.00 | 240000.00 | ✓ | 79 (Dedicated limit) |

Im4gn

| | | | | | |
|---------------------------|--------------------|------------------|---------------------|---|--|
| im4gn.large ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| im4gn.xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-----------------------------|-------------------------------------|---|--------------------------------------|------|---|
| im4gn.2xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| im4gn.4xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| im4gn.8xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| im4gn.16xlarge | 40000.00 | 5000.00 | 160000.00 | ✓ | Up to 23 (Shared limit) |
| Is4gen | | | | | |
| is4gen.medium ¹ | 625.00 / 10000.00 | 78.12 / 1250.00 | 2500.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| is4gen.large ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 5000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| is4gen.xlarge ¹ | 2500.00 / 10000.00 | 312.50 / 1250.00 | 10000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| is4gen.2xlarge ¹ | 5000.00 / 10000.00 | 625.00 / 1250.00 | 20000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| is4gen.4xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| is4gen.8xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | Up to 23 (Shared limit) |

 **Note**

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| D2 | | | | | |
| d2.xlarge | 3 x 2048 GB | HDD | | ✓ | |
| d2.2xlarge | 6 x 2048 GB | HDD | | ✓ | |
| d2.4xlarge | 12 x 2048 GB | HDD | | ✓ | |
| d2.8xlarge | 24 x 2048 GB | HDD | | ✓ | |
| D3 | | | | | |
| d3.xlarge | 3 x 1980 GB | NVMe HDD | | | ✓ |
| d3.2xlarge | 6 x 1980 GB | NVMe HDD | | | ✓ |
| d3.4xlarge | 12 x 1980 GB | NVMe HDD | | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| d3.8xlarge | 24 x 1980 GB | NVMe HDD | | | ✓ |
| D3en | | | | | |
| d3en.xlarge | 2 x 13980 GB | NVMe HDD | | | ✓ |
| d3en.2xlarge | 4 x 13980 GB | NVMe HDD | | | ✓ |
| d3en.4xlarge | 8 x 13980 GB | NVMe HDD | | | ✓ |
| d3en.6xlarge | 12 x 13980 GB | NVMe HDD | | | ✓ |
| d3en.8xlarge | 16 x 13980 GB | NVMe HDD | | | ✓ |
| d3en.12xlarge | 24 x 13980 GB | NVMe HDD | | | ✓ |
| H1 | | | | | |
| 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 | | ✓ | |
| I3 | | | | | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i3.large | 1 x 475 GB | NVMe SSD | 103,125 / 35,000 | | ✓ |
| i3.xlarge | 1 x 950 GB | NVMe SSD | 206,250 / 70,000 | | ✓ |
| i3.2xlarge | 1 x 1900 GB | NVMe SSD | 412,500 / 180,000 | | ✓ |
| i3.4xlarge | 2 x 1900 GB | NVMe SSD | 825,000 / 360,000 | | ✓ |
| i3.8xlarge | 4 x 1900 GB | NVMe SSD | 1,650,000 / 720,000 | | ✓ |
| i3.16xlarge | 8 x 1900 GB | NVMe SSD | 3,300,000 / 1,440,000 | | ✓ |
| i3.metal | 8 x 1900 GB | NVMe SSD | 3,300,000 / 1,440,000 | | ✓ |

i3en

| | | | | | |
|--------------|-------------|----------|-------------------|--|---|
| i3en.large | 1 x 1250 GB | NVMe SSD | 42,500 / 32,500 | | ✓ |
| i3en.xlarge | 1 x 2500 GB | NVMe SSD | 85,000 / 65,000 | | ✓ |
| i3en.2xlarge | 2 x 2500 GB | NVMe SSD | 170,000 / 130,000 | | ✓ |
| i3en.3xlarge | 1 x 7500 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i3en.6xlarge | 2 x 7500 GB | NVMe SSD | 500,000 / 400,000 | | ✓ |
| i3en.12xlarge | 4 x 7500 GB | NVMe SSD | 1,000,000 / 800,000 | | ✓ |
| i3en.24xlarge | 8 x 7500 GB | NVMe SSD | 2,000,000 / 1,600,000 | | ✓ |
| i3en.metal | 8 x 7500 GB | NVMe SSD | 2,000,000 / 1,600,000 | | ✓ |
| i4g | | | | | |
| i4g.large | 1 x 468 GB | NVMe SSD | 31,250 / 25,000 | | ✓ |
| i4g.xlarge | 1 x 937 GB | NVMe SSD | 62,500 / 50,000 | | ✓ |
| i4g.2xlarge | 1 x 1875 GB | NVMe SSD | 125,000 / 100,000 | | ✓ |
| i4g.4xlarge | 1 x 3750 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |
| i4g.8xlarge | 2 x 3750 GB | NVMe SSD | 500,000 / 400,000 | | ✓ |
| i4g.16xlarge | 4 x 3750 GB | NVMe SSD | 1,000,000 / 800,000 | | ✓ |
| i4i | | | | | |
| i4i.large | 1 x 468 GB | NVMe SSD | 50,000 / 27,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i4i.xlarge | 1 x 937 GB | NVMe SSD | 100,000 / 55,000 | | ✓ |
| i4i.2xlarge | 1 x 1875 GB | NVMe SSD | 200,000 / 110,000 | | ✓ |
| i4i.4xlarge | 1 x 3750 GB | NVMe SSD | 400,000 / 220,000 | | ✓ |
| i4i.8xlarge | 2 x 3750 GB | NVMe SSD | 800,000 / 440,000 | | ✓ |
| i4i.12xlarge | 3 x 3750 GB | NVMe SSD | 1,200,000 / 660,000 | | ✓ |
| i4i.16xlarge | 4 x 3750 GB | NVMe SSD | 1,600,000 / 880,000 | | ✓ |
| i4i.24xlarge | 6 x 3750 GB | NVMe SSD | 2,400,000 / 1,320,000 | | ✓ |
| i4i.32xlarge | 8 x 3750 GB | NVMe SSD | 3,200,000 / 1,760,000 | | ✓ |
| i4i.metal | 8 x 3750 GB | NVMe SSD | 3,200,000 / 1,760,000 | | ✓ |
| i7i | | | | | |
| i7i.large | 1 x 468 GB | NVMe SSD | 75,000 / 41,250 | | ✓ |
| i7i.xlarge | 1 x 937 GB | NVMe SSD | 150,000 / 82,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i7i.2xlarge | 1 x 1875 GB | NVMe SSD | 300,000 / 165,000 | | ✓ |
| i7i.4xlarge | 1 x 3750 GB | NVMe SSD | 600,000 / 330,000 | | ✓ |
| i7i.8xlarge | 2 x 3750 GB | NVMe SSD | 1,200,000 / 660,000 | | ✓ |
| i7i.12xlarge | 3 x 3750 GB | NVMe SSD | 1,800,000 / 990,000 | | ✓ |
| i7i.16xlarge | 4 x 3750 GB | NVMe SSD | 2,400,000 / 1,320,000 | | ✓ |
| i7i.24xlarge | 6 x 3750 GB | NVMe SSD | 3,600,000 / 1,980,000 | | ✓ |
| i7i.48xlarge | 12 x 3750 GB | NVMe SSD | 7,200,000 / 3,960,000 | | ✓ |
| i7i.metal-24xl | 6 x 3750 GB | NVMe SSD | 3,600,000 / 1,980,000 | | ✓ |
| i7i.metal-48xl | 12 x 3750 GB | NVMe SSD | 7,200,000 / 3,960,000 | | ✓ |
| i7ie | | | | | |
| i7ie.large | 1 x 1250 GB | NVMe SSD | 54,166 / 43,333 | | ✓ |
| i7ie.xlarge | 1 x 2500 GB | NVMe SSD | 108,333 / 86,666 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i7ie.2xlarge | 2 x 2500 GB | NVMe SSD | 216,666 / 173,332 | | ✓ |
| i7ie.3xlarge | 1 x 7500 GB | NVMe SSD | 325,000 / 260,000 | | ✓ |
| i7ie.6xlarge | 2 x 7500 GB | NVMe SSD | 650,000 / 520,000 | | ✓ |
| i7ie.12xlarge | 4 x 7500 GB | NVMe SSD | 1,300,000 / 1,040,000 | | ✓ |
| i7ie.18xlarge | 6 x 7500 GB | NVMe SSD | 1,950,000 / 1,560,000 | | ✓ |
| i7ie.24xlarge | 8 x 7500 GB | NVMe SSD | 2,600,000 / 2,080,000 | | ✓ |
| i7ie.48xlarge | 16 x 7500 GB | NVMe SSD | 5,200,000 / 4,160,000 | | ✓ |
| i7ie.metal-24xl | 8 x 7500 GB | NVMe SSD | 2,600,000 / 2,080,000 | | ✓ |
| i7ie.metal-48xl | 16 x 7500 GB | NVMe SSD | 5,200,000 / 4,160,000 | | ✓ |
| i8g | | | | | |
| i8g.large | 1 x 468 GB | NVMe SSD | 75,000 / 41,250 | | ✓ |
| i8g.xlarge | 1 x 937 GB | NVMe SSD | 150,000 / 82,500 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i8g.2xlarge | 1 x 1875 GB | NVMe SSD | 300,000 / 165,000 | | ✓ |
| i8g.4xlarge | 1 x 3750 GB | NVMe SSD | 600,000 / 330,000 | | ✓ |
| i8g.8xlarge | 2 x 3750 GB | NVMe SSD | 1,200,000 / 660,000 | | ✓ |
| i8g.12xlarge | 3 x 3750 GB | NVMe SSD | 1,800,000 / 990,000 | | ✓ |
| i8g.16xlarge | 4 x 3750 GB | NVMe SSD | 2,400,000 / 1,320,000 | | ✓ |
| i8g.24xlarge | 6 x 3750 GB | NVMe SSD | 3,600,000 / 1,980,000 | | ✓ |
| i8g.48xlarge | 12 x 3750 GB | NVMe SSD | 7,200,000 / 3,960,000 | | ✓ |
| i8g.metal-24xl | 6 x 3750 GB | NVMe SSD | 3,600,000 / 1,980,000 | | ✓ |

I8ge

| | | | | | |
|--------------|-------------|----------|-------------------|--|---|
| i8ge.large | 1 x 1250 GB | NVMe SSD | 54,166 / 43,333 | | ✓ |
| i8ge.xlarge | 1 x 2500 GB | NVMe SSD | 108,333 / 86,666 | | ✓ |
| i8ge.2xlarge | 2 x 2500 GB | NVMe SSD | 216,666 / 173,332 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| i8ge.3xlarge | 1 x 7500 GB | NVMe SSD | 325,000 / 260,000 | | ✓ |
| i8ge.6xlarge | 2 x 7500 GB | NVMe SSD | 650,000 / 520,000 | | ✓ |
| i8ge.12xlarge | 4 x 7500 GB | NVMe SSD | 1,300,000 / 1,040,000 | | ✓ |
| i8ge.18xlarge | 6 x 7500 GB | NVMe SSD | 1,950,000 / 1,560,000 | | ✓ |
| i8ge.24xlarge | 8 x 7500 GB | NVMe SSD | 2,600,000 / 2,080,000 | | ✓ |
| i8ge.48xlarge | 16 x 7500 GB | NVMe SSD | 5,200,000 / 4,160,000 | | ✓ |
| i8ge.metal-24xl | 8 x 7500 GB | NVMe SSD | 2,600,000 / 2,080,000 | | ✓ |
| i8ge.metal-48xl | 16 x 7500 GB | NVMe SSD | 5,200,000 / 4,160,000 | | ✓ |

Im4gn

| | | | | | |
|---------------|-------------|----------|-------------------|--|---|
| im4gn.large | 1 x 937 GB | NVMe SSD | 31,250 / 25,000 | | ✓ |
| im4gn.xlarge | 1 x 1875 GB | NVMe SSD | 62,500 / 50,000 | | ✓ |
| im4gn.2xlarge | 1 x 3750 GB | NVMe SSD | 125,000 / 100,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| im4gn.4xlarge | 1 x 7500 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |
| im4gn.8xlarge | 2 x 7500 GB | NVMe SSD | 500,000 / 400,000 | | ✓ |
| im4gn.16xlarge | 4 x 7500 GB | NVMe SSD | 1,000,000 / 800,000 | | ✓ |
| Is4gen | | | | | |
| is4gen.medium | 1 x 937 GB | NVMe SSD | 31,250 / 25,000 | | ✓ |
| is4gen.large | 1 x 1875 GB | NVMe SSD | 62,500 / 50,000 | | ✓ |
| is4gen.xlarge | 1 x 3750 GB | NVMe SSD | 125,000 / 100,000 | | ✓ |
| is4gen.2xlarge | 1 x 7500 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |
| is4gen.4xlarge | 2 x 7500 GB | NVMe SSD | 500,000 / 400,000 | | ✓ |
| is4gen.8xlarge | 4 x 7500 GB | NVMe SSD | 1,000,000 / 800,000 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| 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 | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| H1 | | | | | | |
| h1.2xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| h1.4xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| h1.8xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| h1.16xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3 | | | | | | |
| i3.large | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.2xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.4xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.8xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.16xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3.metal | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| i3en | | | | | | |
| i3en.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| i3en.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i3en.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i3en.3xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i3en.6xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| i3en.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i3en.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i3en.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| I4g | | | | | | |
| i4g.large | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| i4g.xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| i4g.2xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| i4g.4xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| i4g.8xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| i4g.16xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| I4i | | | | | | |
| i4i.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| i4i.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| i4i.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i4i.metal | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i7i | | | | | | |
| i7i.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| i7i.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7i.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i7i.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i7ie | | | | | | |
| i7ie.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| i7ie.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.3xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| i7ie.6xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.18xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i7ie.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i7ie.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i8g | | | | | | |
| i8g.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8g.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i8ge | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| i8ge.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.3xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.6xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.18xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| i8ge.metal-24xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| i8ge.metal-48xl | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| Im4gn | | | | | | |
| im4gn.large | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| im4gn.xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| im4gn.2xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| im4gn.4xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| im4gn.8xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| im4gn.16xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| Is4gen | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| is4gen.medium | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| is4gen.large | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| is4gen.xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| is4gen.2xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| is4gen.4xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| is4gen.8xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

Specifications for Amazon EC2 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.

For information on previous generation instance types of this category, such as G3 instances, see [Specifications for Amazon EC2 previous generation instances](#).

Contents

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|--|
| DL1 | dl1.24xlarge |
| DL2q | dl2q.24xlarge |
| F1 | f1.2xlarge f1.4xlarge f1.16xlarge |
| F2 | f2.6xlarge f2.12xlarge f2.48xlarge |
| 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 g6.16xlarge g6.24xlarge g6.48xlarge |
| G6e | g6e.xlarge g6e.2xlarge g6e.4xlarge g6e.8xlarge g6e.12xlarge g6e.16xlarge g6e.24xlarge g6e.48xlarge |
| G6f | g6f.large g6f.xlarge g6f.2xlarge g6f.4xlarge |
| Gr6 | gr6.4xlarge gr6.8xlarge |
| Gr6f | gr6f.4xlarge |
| Inf1 | inf1.xlarge inf1.2xlarge inf1.6xlarge inf1.24xlarge |

| Instance family | Available instance types |
|-----------------|--|
| Inf2 | inf2.xlarge inf2.8xlarge inf2.24xlarge inf2.48xlarge |
| P3 | p3.2xlarge p3.8xlarge p3.16xlarge |
| P3dn | p3dn.24xlarge |
| P4d | p4d.24xlarge |
| P4de | p4de.24xlarge |
| P5 | p5.4xlarge p5.48xlarge |
| P5e | p5e.48xlarge |
| P5en | p5en.48xlarge |
| P6-B200 | p6-b200.48xlarge |
| P6e-GB200 | p6e-gb200.36xlarge |
| Trn1 | trn1.2xlarge trn1.32xlarge |
| Trn1n | trn1n.32xlarge |
| Trn2 | trn2.48xlarge |
| Trn2u | trn2u.48xlarge |
| VT1 | vt1.3xlarge vt1.6xlarge vt1.24xlarge |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| DL1 | Nitro v3 | Intel (x86_64) | X | ✓ | ✓ | X | Linux |
| DL2q | Nitro v3 | Intel (x86_64) | X | ✓ | ✓ | X | Linux |
| F1 | Xen | Intel (x86_64) | X | ✓ | ✓ | X | Linux |
| F2 | Nitro v4 | AMD (x86_64) | X | ✓ | ✓ | X | Linux |
| G4ad | Nitro v3 | AMD (x86_64) | X | ✓ | ✓ | X | Windows Linux |
| G4dn | Nitro v3 | Intel (x86_64) | ✓ | ✓ | ✓ | X | Windows Linux |
| G5 | Nitro v3 | AMD (x86_64) | X | ✓ | ✓ | X | Windows Linux |
| G5g | Nitro v2 | AWS Graviton (arm64) | ✓ | ✓ | ✓ | X | Linux |
| G6 | Nitro v4 | AMD (x86_64) | X | ✓ | ✓ | X | Windows Linux |
| G6e | Nitro v4 | AMD (x86_64) | X | ✓ | ✓ | X | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| G6f | Nitro v4 | AMD (x86_64) | x | x | ✓ | x | Windows Linux |
| Gr6 | Nitro v4 | AMD (x86_64) | x | x | ✓ | x | Windows Linux |
| Gr6f | Nitro v4 | AMD (x86_64) | x | x | ✓ | x | Windows Linux |
| Inf1 | Nitro v3 | Intel (x86_64) | x | ✓ | ✓ | x | Linux |
| Inf2 | Nitro v4 | AMD (x86_64) | x | ✓ | ✓ | x | Linux |
| P3 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| P3dn | Nitro v3 | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| P4d | Nitro v3 | Intel (x86_64) | x | ✓ | ✓ | x | Linux |
| P4de | Nitro v3 | Intel (x86_64) | x | x | ✓ | x | Linux |
| P5 | Nitro v4 | AMD (x86_64) | x | x | ✓ | x | Linux |
| P5e | Nitro v4 | AMD (x86_64) | x | x | ✓ | x | Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| P5en | Nitro v5 | Intel (x86_64) | x | x | ✓ | x | Linux |
| P6-B200 | Nitro v6 | Intel (x86_64) | x | x | ✓ | x | Linux |
| P6e-GB200 | Nitro v5 | NVIDIA Grace (arm64) | x | x | x | x | Linux |
| Trn1 | Nitro v4 | Intel (x86_64) | x | ✓ | ✓ | x | Linux |
| Trn1n | Nitro v4 | Intel (x86_64) | x | x | ✓ | x | Linux |
| Trn2 | Nitro v5 | Intel (x86_64) | x | x | ✓ | x | Linux |
| Trn2u | Nitro v5 | Intel (x86_64) | x | x | x | x | Linux |
| VT1 | Nitro v3 | Intel (x86_64) | x | ✓ | ✓ | x | Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------|-------|-----------|------------------|--------------|--------------------|
| DL1 | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--|----------------------|
| dl1.24xlarge | 768.00 | Intel Xeon P-8275CL | 96 | 48 | 2 | 8 x Habana Gaudi HL-205 GPU | 256 GiB (8 x 32 GiB) |
| DL2q | | | | | | | |
| dl2q.24xlarge | 768.00 | Intel Xeon Cascade Lake | 96 | 48 | 2 | 8 x Qualcomm AI100 inference accelerator | 125 GiB (8 x 15 GiB) |
| F1 | | | | | | | |
| f1.2xlarge | 122.00 | Intel Xeon E5-2686v4 | 8 | 4 | 2 | 1 x Xilinx Virtex UltraScale (VU9P) FPGA | 64 GiB (1 x 64 GiB) |
| f1.4xlarge | 244.00 | Intel Xeon E5-2686v4 | 16 | 8 | 2 | 2 x Xilinx Virtex UltraScale (VU9P) FPGA | 128 GiB (2 x 64 GiB) |
| f1.16xlarge | 976.00 | Intel Xeon E5-2686v4 | 64 | 32 | 2 | 8 x Xilinx Virtex UltraScale (VU9P) FPGA | 512 GiB (8 x 64 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|---|----------------------|
| F2 | | | | | | | |
| f2.6xlarge | 256.00 | AMD EPYC 7R13 | 24 | 12 | 2 | 1 x Xilinx Virtex UltraScale + (VU47P) FPGA | 80 GiB (1 x 80 GiB) |
| f2.12xlarge | 512.00 | AMD EPYC 7R13 | 48 | 24 | 2 | 2 x Xilinx Virtex UltraScale + (VU47P) FPGA | 160 GiB (2 x 80 GiB) |
| f2.48xlarge | 2048.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 8 x Xilinx Virtex UltraScale + (VU47P) FPGA | 640 GiB (8 x 80 GiB) |
| G4ad | | | | | | | |
| g4ad.xlarge | 16.00 | 2nd Gen AMD EPYC 7R32 | 4 | 2 | 2 | 1 x AMD Radeon Pro V520 GPU | 8 GiB (1 x 8 GiB) |
| g4ad.2xlarge | 32.00 | 2nd Gen AMD EPYC 7R32 | 8 | 4 | 2 | 1 x AMD Radeon Pro V520 GPU | 8 GiB (1 x 8 GiB) |
| g4ad.4xlarge | 64.00 | 2nd Gen AMD EPYC 7R32 | 16 | 8 | 2 | 1 x AMD Radeon Pro V520 GPU | 8 GiB (1 x 8 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|-----------------------------|---------------------|
| g4ad.8xlarge | 128.00 | 2nd Gen AMD EPYC 7R32 | 32 | 16 | 2 | 2 x AMD Radeon Pro V520 GPU | 16 GiB (2 x 8 GiB) |
| g4ad.16xlarge | 256.00 | 2nd Gen AMD EPYC 7R32 | 64 | 32 | 2 | 4 x AMD Radeon Pro V520 GPU | 32 GiB (4 x 8 GiB) |
| G4dn | | | | | | | |
| g4dn.xlarge | 16.00 | Intel Xeon P-8259L | 4 | 2 | 2 | 1 x NVIDIA T4 GPU | 16 GiB (1 x 16 GiB) |
| g4dn.2xlarge | 32.00 | Intel Xeon P-8259L | 8 | 4 | 2 | 1 x NVIDIA T4 GPU | 16 GiB (1 x 16 GiB) |
| g4dn.4xlarge | 64.00 | Intel Xeon P-8259L | 16 | 8 | 2 | 1 x NVIDIA T4 GPU | 16 GiB (1 x 16 GiB) |
| g4dn.8xlarge | 128.00 | Intel Xeon P-8259L | 32 | 16 | 2 | 1 x NVIDIA T4 GPU | 16 GiB (1 x 16 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|---------------------|----------------------|
| g4dn.12xlarge | 192.00 | Intel Xeon P-8259L | 48 | 24 | 2 | 4 x NVIDIA T4 GPU | 64 GiB (4 x 16 GiB) |
| g4dn.16xlarge | 256.00 | Intel Xeon P-8259L | 64 | 32 | 2 | 1 x NVIDIA T4 GPU | 16 GiB (1 x 16 GiB) |
| g4dn.metal | 384.00 | Intel Xeon P-8259L | 96 | 48 | 2 | 8 x NVIDIA T4 GPU | 128 GiB (8 x 16 GiB) |
| G5 | | | | | | | |
| g5.xlarge | 16.00 | 2nd Gen AMD EPYC 7R32 | 4 | 2 | 2 | 1 x NVIDIA A10G GPU | 22 GiB (1 x 22 GiB) |
| g5.2xlarge | 32.00 | 2nd Gen AMD EPYC 7R32 | 8 | 4 | 2 | 1 x NVIDIA A10G GPU | 22 GiB (1 x 22 GiB) |
| g5.4xlarge | 64.00 | 2nd Gen AMD EPYC 7R32 | 16 | 8 | 2 | 1 x NVIDIA A10G GPU | 22 GiB (1 x 22 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|---------------------|----------------------|
| g5.8xlarge | 128.00 | 2nd Gen AMD EPYC 7R32 | 32 | 16 | 2 | 1 x NVIDIA A10G GPU | 22 GiB (1 x 22 GiB) |
| g5.12xlarge | 192.00 | 2nd Gen AMD EPYC 7R32 | 48 | 24 | 2 | 4 x NVIDIA A10G GPU | 89 GiB (4 x 22 GiB) |
| g5.16xlarge | 256.00 | 2nd Gen AMD EPYC 7R32 | 64 | 32 | 2 | 1 x NVIDIA A10G GPU | 22 GiB (1 x 22 GiB) |
| g5.24xlarge | 384.00 | 2nd Gen AMD EPYC 7R32 | 96 | 48 | 2 | 4 x NVIDIA A10G GPU | 89 GiB (4 x 22 GiB) |
| g5.48xlarge | 768.00 | 2nd Gen AMD EPYC 7R32 | 192 | 96 | 2 | 8 x NVIDIA A10G GPU | 178 GiB (8 x 22 GiB) |
| G5g | | | | | | | |
| g5g.xlarge | 8.00 | AWS Graviton2 Processor | 4 | 4 | 1 | 1 x NVIDIA T4g GPU | 16 GiB (1 x 16 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-------------------------|-------|-----------|------------------|--------------------|---------------------|
| g5g.2xlarge | 16.00 | AWS Graviton2 Processor | 8 | 8 | 1 | 1 x NVIDIA T4g GPU | 16 GiB (1 x 16 GiB) |
| g5g.4xlarge | 32.00 | AWS Graviton2 Processor | 16 | 16 | 1 | 1 x NVIDIA T4g GPU | 16 GiB (1 x 16 GiB) |
| g5g.8xlarge | 64.00 | AWS Graviton2 Processor | 32 | 32 | 1 | 1 x NVIDIA T4g GPU | 16 GiB (1 x 16 GiB) |
| g5g.16xlarge | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | 2 x NVIDIA T4g GPU | 32 GiB (2 x 16 GiB) |
| g5g.metal | 128.00 | AWS Graviton2 Processor | 64 | 64 | 1 | 2 x NVIDIA T4g GPU | 32 GiB (2 x 16 GiB) |
| G6 | | | | | | | |
| g6.xlarge | 16.00 | AMD EPYC 7R13 | 4 | 2 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------|-------|-----------|------------------|-------------------|----------------------|
| g6.2xlarge | 32.00 | AMD EPYC 7R13 | 8 | 4 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |
| g6.4xlarge | 64.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |
| g6.8xlarge | 128.00 | AMD EPYC 7R13 | 32 | 16 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |
| g6.12xlarge | 192.00 | AMD EPYC 7R13 | 48 | 24 | 2 | 4 x NVIDIA L4 GPU | 89 GiB (4 x 22 GiB) |
| g6.16xlarge | 256.00 | AMD EPYC 7R13 | 64 | 32 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |
| g6.24xlarge | 384.00 | AMD EPYC 7R13 | 96 | 48 | 2 | 4 x NVIDIA L4 GPU | 89 GiB (4 x 22 GiB) |
| g6.48xlarge | 768.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 8 x NVIDIA L4 GPU | 178 GiB (8 x 22 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------|-------|-----------|------------------|---------------------|----------------------|
| G6e | | | | | | | |
| g6e.xlarge | 32.00 | AMD EPYC 7R13 | 4 | 2 | 2 | 1 x NVIDIA L40S GPU | 44 GiB (1 x 44 GiB) |
| g6e.2xlarge | 64.00 | AMD EPYC 7R13 | 8 | 4 | 2 | 1 x NVIDIA L40S GPU | 44 GiB (1 x 44 GiB) |
| g6e.4xlarge | 128.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA L40S GPU | 44 GiB (1 x 44 GiB) |
| g6e.8xlarge | 256.00 | AMD EPYC 7R13 | 32 | 16 | 2 | 1 x NVIDIA L40S GPU | 44 GiB (1 x 44 GiB) |
| g6e.12xlarge | 384.00 | AMD EPYC 7R13 | 48 | 24 | 2 | 4 x NVIDIA L40S GPU | 178 GiB (4 x 44 GiB) |
| g6e.16xlarge | 512.00 | AMD EPYC 7R13 | 64 | 32 | 2 | 1 x NVIDIA L40S GPU | 44 GiB (1 x 44 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------|-------|-----------|------------------|---------------------|----------------------|
| g6e.24xlarge | 768.00 | AMD EPYC 7R13 | 96 | 48 | 2 | 4 x NVIDIA L40S GPU | 178 GiB (4 x 44 GiB) |
| g6e.48xlarge | 1536.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 8 x NVIDIA L40S GPU | 357 GiB (8 x 44 GiB) |
| G6f | | | | | | | |
| g6f.large | 8.00 | AMD EPYC 7R13 | 2 | 1 | 2 | 1 x NVIDIA L4 GPU | 2 GiB (1 x 2 GiB) |
| g6f.xlarge | 16.00 | AMD EPYC 7R13 | 4 | 2 | 2 | 1 x NVIDIA L4 GPU | 2 GiB (1 x 2 GiB) |
| g6f.2xlarge | 32.00 | AMD EPYC 7R13 | 8 | 4 | 2 | 1 x NVIDIA L4 GPU | 5 GiB (1 x 5 GiB) |
| g6f.4xlarge | 64.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA L4 GPU | 11 GiB (1 x 11 GiB) |
| Gr6 | | | | | | | |
| gr6.4xlarge | 128.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------|-------|-----------|------------------|-------------------|---------------------|
| gr6.8xlarge | 256.00 | AMD EPYC 7R13 | 32 | 16 | 2 | 1 x NVIDIA L4 GPU | 22 GiB (1 x 22 GiB) |

Gr6f

| | | | | | | | |
|--------------|--------|---------------|----|---|---|-------------------|---------------------|
| gr6f.4xlarge | 128.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA L4 GPU | 11 GiB (1 x 11 GiB) |
|--------------|--------|---------------|----|---|---|-------------------|---------------------|

Inf1

| | | | | | | | |
|---------------|--------|--------------------|----|----|---|---|----------------------|
| inf1.xlarge | 8.00 | Intel Xeon P-8259L | 4 | 2 | 2 | 1 x AWS Inferentia inference accelerator | 8 GiB (1 x 8 GiB) |
| inf1.2xlarge | 16.00 | Intel Xeon P-8259L | 8 | 4 | 2 | 1 x AWS Inferentia inference accelerator | 8 GiB (1 x 8 GiB) |
| inf1.6xlarge | 48.00 | Intel Xeon P-8259L | 24 | 12 | 2 | 4 x AWS Inferentia inference accelerator | 32 GiB (4 x 8 GiB) |
| inf1.24xlarge | 192.00 | Intel Xeon P-8259L | 96 | 48 | 2 | 16 x AWS Inferentia inference accelerator | 128 GiB (16 x 8 GiB) |

Inf2

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|--|-----------------------|
| inf2.xlarge | 16.00 | AMD EPYC 7R13 | 4 | 2 | 2 | 1 x AWS Inferentia2 inference accelerator | 32 GiB (1 x 32 GiB) |
| inf2.8xlarge | 128.00 | AMD EPYC 7R13 | 32 | 16 | 2 | 1 x AWS Inferentia2 inference accelerator | 32 GiB (1 x 32 GiB) |
| inf2.24xlarge | 384.00 | AMD EPYC 7R13 | 96 | 48 | 2 | 6 x AWS Inferentia2 inference accelerator | 192 GiB (6 x 32 GiB) |
| inf2.48xlarge | 768.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 12 x AWS Inferentia2 inference accelerator | 384 GiB (12 x 32 GiB) |
| P3 | | | | | | | |
| p3.2xlarge | 61.00 | Intel Xeon E5-2686 v4 | 8 | 4 | 2 | 1 x NVIDIA V100 GPU | 16 GiB (1 x 16 GiB) |
| p3.8xlarge | 244.00 | Intel Xeon E5-2686 v4 | 32 | 16 | 2 | 4 x NVIDIA V100 GPU | 64 GiB (4 x 16 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|--------------------------|-------|-----------|------------------|---------------------|----------------------|
| p3.16xlarge | 488.00 | Intel Xeon E5-2686 v4 | 64 | 32 | 2 | 8 x NVIDIA V100 GPU | 128 GiB (8 x 16 GiB) |
| P3dn | | | | | | | |
| p3dn.24xlarge | 768.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | 8 x NVIDIA V100 GPU | 256 GiB (8 x 32 GiB) |
| P4d | | | | | | | |
| p4d.24xlarge | 1152.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | 8 x NVIDIA A100 GPU | 320 GiB (8 x 40 GiB) |
| P4de | | | | | | | |
| p4de.24xlarge | 1152.00 | Intel Xeon Platinum 8175 | 96 | 48 | 2 | 8 x NVIDIA A100 GPU | 640 GiB (8 x 80 GiB) |
| P5 | | | | | | | |
| p5.4xlarge | 256.00 | AMD EPYC 7R13 | 16 | 8 | 2 | 1 x NVIDIA H100 GPU | 80 GiB (1 x 80 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|--------------------|--------------|----------------------------|-------|-----------|------------------|---------------------|------------------------|
| p5.48xlarge | 2048.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 8 x NVIDIA H100 GPU | 640 GiB (8 x 80 GiB) |
| P5e | | | | | | | |
| p5e.48xlarge | 2048.00 | AMD EPYC 7R13 | 192 | 96 | 2 | 8 x NVIDIA H200 GPU | 1128 GiB (8 x 141 GiB) |
| P5en | | | | | | | |
| p5en.48xlarge | 2048.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | 8 x NVIDIA H200 GPU | 1128 GiB (8 x 141 GiB) |
| P6-B200 | | | | | | | |
| p6-b200.48xlarge | 2048.00 | Intel Xeon Emerald Rapids | 192 | 96 | 2 | 8 x NVIDIA B200 GPU | 1432 GiB (8 x 179 GiB) |
| P6e-GB200 | | | | | | | |
| p6e-gb200.36xlarge | 960.00 | Nvidia Grace CPU | 144 | 144 | 1 | 4 x NVIDIA B200 GPU | 740 GiB (4 x 185 GiB) |
| Trn1 | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|----------------------------|-------|-----------|------------------|---------------------------------|-------------------------|
| trn1.2xlarge | 32.00 | Intel Xeon Ice Lake 8375C | 8 | 4 | 2 | 1 x AWS Trainium accelerators | 32 GiB (1 x 32 GiB) |
| trn1.32xlarge | 512.00 | Intel Xeon Ice Lake 8375C | 128 | 64 | 2 | 16 x AWS Trainium accelerators | 512 GiB (16 x 32 GiB) |
| Trn1n | | | | | | | |
| trn1n.32xlarge | 512.00 | Intel Xeon Ice Lake | 128 | 64 | 2 | 16 x AWS Trainium accelerators | 512 GiB (16 x 32 GiB) |
| Trn2 | | | | | | | |
| trn2.48xlarge | 2048.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | 16 x AWS Trainium2 accelerators | 8192 GiB (16 x 512 GiB) |
| Trn2u | | | | | | | |
| trn2u.48xlarge | 2048.00 | Intel Xeon Sapphire Rapids | 192 | 96 | 2 | x | x |
| VT1 | | | | | | | |

| Instance type | Memory (GiB) | Processor | | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------------|--|-------|-----------|------------------|----------------------------------|----------------------|
| vt1.3xlarge | 24.00 | Intel Cascade Lake P-8259CL | | 12 | 6 | 2 | 1 x Xilinx U30 media accelerator | 24 GiB (1 x 24 GiB) |
| vt1.6xlarge | 48.00 | Intel Cascade Lake P-8259CL | | 24 | 12 | 2 | 2 x Xilinx U30 media accelerator | 48 GiB (2 x 24 GiB) |
| vt1.24xlarge | 192.00 | Intel Cascade Lake P-8259CL | | 96 | 48 | 2 | 8 x Xilinx U30 media accelerator | 192 GiB (8 x 24 GiB) |

Network specifications

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| DL1 | | | | | | | | |
| dl1.24xlarge | 4x 100 Gigabit | ✓ | ✓ | ✗ | 4 | 60 | 50 | ✓ |
| DL2q | | | | | | | | |
| dl2q.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| F1 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| f1.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| f1.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| f1.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 50 | ✓ |
| F2 | | | | | | | | |
| f2.6xlarge | 12.5 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| f2.12xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| f2.48xlarge | 100 Gigabit | ✓ | ✓ | x | 1 | 15 | 50 | ✓ |
| G4ad | | | | | | | | |
| g4ad.xlarge ¹ | 2.0 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| g4ad.2xlarge ¹ | 4.167 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| g4ad.4xlarge ¹ | 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 ¹ | 5.0 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| g4dn.2xlarge ₁ | 10.0 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| g4dn.4xlarge ₁ | 20.0 / 25.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| g4dn.8xlarge | 50 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g4dn.12xlarge | 50 Gigabit | ✓ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g4dn.16xlarge | 50 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g4dn.metal | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| G5 | | | | | | | | |
| g5.xlarge ¹ | 2.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g5.2xlarge ¹ | 5.0 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g5.4xlarge ¹ | 10.0 / 25.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g5.8xlarge | 25 Gigabit | ✓ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g5.12xlarge | 40 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| g5.16xlarge | 25 Gigabit | ✓ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g5.24xlarge | 50 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| g5.48xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 7 | 50 | ✓ |
| G5g | | | | | | | | |
| g5g.xlarge ¹ | 1.25 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g5g.2xlarge ¹ | 2.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| g5g.4xlarge ¹ | 5.0 / 10.0 | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g5g.8xlarge | 12 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| g5g.16xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|--------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| g5g.metal | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| G6 | | | | | | | | |
| g6.xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6.2xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6.4xlarge ¹ | 10.0 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| g6.8xlarge | 25 Gigabit | ✓ | ✓ | x | 1 | 8 | 30 | ✓ |
| 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 | ✓ |
| G6e | | | | | | | | |
| g6e.xlarge ¹ | 2.5 / 20.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6e.2xlarge ¹ | 5.0 / 20.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6e.4xlarge | 20 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| g6e.8xlarge | 25 Gigabit | ✓ | ✓ | x | 1 | 8 | 30 | ✓ |
| g6e.12xlarge | 100 Gigabit | ✓ | ✓ | ✓ | 1 | 10 | 30 | ✓ |
| g6e.16xlarge | 35 Gigabit | ✓ | ✓ | x | 1 | 15 | 50 | ✓ |
| g6e.24xlarge | 200 Gigabit | ✓ | ✓ | ✓ | 2 | 20 | 50 | ✓ |
| g6e.48xlarge | 400 Gigabit | ✓ | ✓ | ✓ | 4 | 40 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| G6f | | | | | | | | |
| g6f.large ¹ | 1.5 / 10.0 | x | ✓ | x | 1 | 2 | 10 | ✓ |
| g6f.xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6f.2xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| g6f.4xlarge ¹ | 10.0 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Gr6 | | | | | | | | |
| gr6.4xlarge ¹ | 10.0 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| gr6.8xlarge | 25 Gigabit | ✓ | ✓ | x | 1 | 8 | 30 | ✓ |
| Gr6f | | | | | | | | |
| gr6f.4xlarge ¹ | 10.0 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| Inf1 | | | | | | | | |
| inf1.xlarge ¹ | 5.0 / 25.0 | x | ✓ | x | 1 | 4 | 10 | ✓ |
| inf1.2xlarge ¹ | 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 ¹ | 2.083 / 15.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| inf2.8xlarge ¹ | 16.667 / 25.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| inf2.24xlarge | 50 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| inf2.48xlarge | 100 Gigabit | ✗ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| P3 | | | | | | | | |
| p3.2xlarge ¹ | 2.5 / 10.0 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| p3.8xlarge | 10 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| p3.16xlarge | 25 Gigabit | ✗ | ✓ | ✗ | 1 | 8 | 30 | ✓ |
| P3dn | | | | | | | | |
| p3dn.24xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 15 | 50 | ✓ |
| P4d | | | | | | | | |
| p4d.24xlarge | 4x 100 Gigabit | ✓ | ✓ | ✗ | 4 | 60 | 50 | ✓ |
| P4de | | | | | | | | |
| p4de.24xlarge | 4x 100 Gigabit | ✓ | ✓ | ✗ | 4 | 60 | 50 | ✓ |
| P5 | | | | | | | | |
| p5.4xlarge | 100 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 30 | ✓ |
| p5.48xlarge | 3200 Gigabit | ✓ | ✓ | ✓ | 32 | 64 | 50 | ✓ |
| P5e | | | | | | | | |
| p5e.48xlarge | 3200 Gigabit | ✓ | ✓ | ✓ | 32 | 64 | 50 | ✓ |
| P5en | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| p5en.48xlarge | 3200 Gigabit | ✓ | ✓ | ✓ | 16 | 64 | 50 | ✓ |
| P6-B200 | | | | | | | | |
| p6-b200.48xlarge | 3200 Gigabit | ✓ | ✓ | ✓ | 8 | 32 | 50 | ✓ |
| P6e-GB200 | | | | | | | | |
| p6e-gb200.36xlarge | 3200 Gigabit | ✓ | ✓ | ✗ | 17 | 39 | 50 | ✓ |
| Trn1 | | | | | | | | |
| trn1.2xlarge ¹ | 3.125 / 12.5 | ✗ | ✓ | ✗ | 1 | 4 | 15 | ✓ |
| trn1.32xlarge | 8x 100 Gigabit | ✓ | ✓ | ✗ | 8 | 40 | 50 | ✓ |
| Trn1n | | | | | | | | |
| trn1n.32xlarge | 16x 100 Gigabit | ✓ | ✓ | ✗ | 16 | 80 | 50 | ✓ |
| Trn2 | | | | | | | | |
| trn2.48xlarge | 16x 200 Gigabit | ✓ | ✓ | ✗ | 16 | 32 | 50 | ✓ |
| Trn2u | | | | | | | | |
| trn2u.48xlarge | 16x 200 Gigabit | ✓ | ✓ | ✗ | 16 | 32 | 50 | ✓ |
| VT1 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| 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

¹ 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 instance types can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for r6i.16xlarge, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS–optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|---|
| DL1 | | | | | |
| dl1.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 28 (Shared limit) |
| DL2q | | | | | |
| dl2q.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 19 (Shared limit) |
| F1 | | | | | |
| f1.2xlarge | 1700.00 | 212.50 | 12000.00 | ✗ | Up to 26 (Xen-based limit) |
| f1.4xlarge | 3500.00 | 437.50 | 44000.00 | ✗ | Up to 25 (Xen-based limit) |
| f1.16xlarge | 14000.00 | 1750.00 | 75000.00 | ✗ | Up to 19 (Xen-based limit) |
| F2 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| f2.6xlarge | 7500.00 | 937.50 | 30000.00 | ✓ | 32 (Dedicated limit) |
| f2.12xlarge | 15000.00 | 1875.00 | 60000.00 | ✓ | 32 (Dedicated limit) |
| f2.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| G4ad | | | | | |
| g4ad.xlarge ¹ | 400.00 / 3170.00 | 50.00 / 396.25 | 1700.00 / 13333.00 | ✓ | Up to 25 (Shared limit) |
| g4ad.2xlarge ¹ | 800.00 / 3170.00 | 100.00 / 396.25 | 3400.00 / 13333.00 | ✓ | Up to 25 (Shared limit) |
| g4ad.4xlarge ¹ | 1580.00 / 3170.00 | 197.50 / 396.25 | 6700.00 / 13333.00 | ✓ | Up to 25 (Shared limit) |
| g4ad.8xlarge | 3170.00 | 396.25 | 13333.00 | ✓ | Up to 24 (Shared limit) |
| g4ad.16xlarge | 6300.00 | 787.50 | 26667.00 | ✓ | Up to 21 (Shared limit) |
| G4dn | | | | | |
| g4dn.xlarge ¹ | 950.00 / 3500.00 | 118.75 / 437.50 | 3000.00 / 20000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|---|
| g4dn.2xlarge ¹ | 1150.00 / 3500.00 | 143.75 / 437.50 | 6000.00 / 20000.00 | ✓ | Up to 25 (Shared limit) |
| g4dn.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| g4dn.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| g4dn.12xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 22 (Shared limit) |
| g4dn.16xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 25 (Shared limit) |
| g4dn.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| G5 | | | | | |
| g5.xlarge ¹ | 700.00 / 3500.00 | 87.50 / 437.50 | 3000.00 / 15000.00 | ✓ | Up to 25 (Shared limit) |
| g5.2xlarge ¹ | 850.00 / 3500.00 | 106.25 / 437.50 | 3500.00 / 15000.00 | ✓ | Up to 25 (Shared limit) |
| g5.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 25 (Shared limit) |
| g5.8xlarge | 16000.00 | 2000.00 | 65000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| g5.12xlarge | 16000.00 | 2000.00 | 65000.00 | ✓ | Up to 22 (Shared limit) |
| g5.16xlarge | 16000.00 | 2000.00 | 65000.00 | ✓ | Up to 25 (Shared limit) |
| g5.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 22 (Shared limit) |
| g5.48xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 9 (Shared limit) |
| G5g | | | | | |
| g5g.xlarge ¹ | 1188.00 / 4750.00 | 148.50 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| g5g.2xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 12000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| g5g.4xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 26 (Shared limit) |
| g5g.8xlarge | 9500.00 | 1187.50 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| g5g.16xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 25 (Shared limit) |
| g5g.metal | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 31 (Shared limit) |
| G6 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|--|
| g6.xlarge ¹ | 1000.00 / 5000.00 | 125.00 / 625.00 | 4000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6.2xlarge ¹ | 2000.00 / 5000.00 | 250.00 / 625.00 | 8000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6.4xlarge | 8000.00 | 1000.00 | 32000.00 | ✓ | 32 (Dedicated limit) |
| g6.8xlarge | 16000.00 | 2000.00 | 64000.00 | ✓ | 32 (Dedicated limit) |
| g6.12xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 32 (Dedicated limit) |
| g6.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| g6.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| g6.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |
| G6e | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|--|
| g6e.xlarge ¹ | 1000.00 / 5000.00 | 125.00 / 625.00 | 4000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6e.2xlarge ¹ | 2000.00 / 5000.00 | 250.00 / 625.00 | 8000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6e.4xlarge | 8000.00 | 1000.00 | 32000.00 | ✓ | 32 (Dedicated limit) |
| g6e.8xlarge | 16000.00 | 2000.00 | 64000.00 | ✓ | 32 (Dedicated limit) |
| g6e.12xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 32 (Dedicated limit) |
| g6e.16xlarge | 20000.00 | 2500.00 | 80000.00 | ✓ | 48 (Dedicated limit) |
| g6e.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | 64 (Dedicated limit) |
| g6e.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 128 (Dedicated limit) |

G6f

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| g6f.large ¹ | 936.00 / 5000.00 | 117.00 / 625.00 | 3750.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6f.xlarge ¹ | 1000.00 / 5000.00 | 125.00 / 625.00 | 4000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6f.2xlarge ¹ | 2000.00 / 5000.00 | 250.00 / 625.00 | 8000.00 / 20000.00 | ✓ | 32 (Dedicated limit) |
| g6f.4xlarge | 6000.00 | 750.00 | 24000.00 | ✓ | 32 (Dedicated limit) |
| Gr6 | | | | | |
| gr6.4xlarge | 8000.00 | 1000.00 | 32000.00 | ✓ | 32 (Dedicated limit) |
| gr6.8xlarge | 16000.00 | 2000.00 | 64000.00 | ✓ | 32 (Dedicated limit) |
| Gr6f | | | | | |
| gr6f.4xlarge | 8000.00 | 1000.00 | 32000.00 | ✓ | 32 (Dedicated limit) |
| Inf1 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------------------|-------------------------------------|---|--------------------------------------|------|--|
| inf1.xlarge ¹ | 1190.00 / 4750.00 | 148.75 / 593.75 | 4000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| inf1.2xlarge ¹ | 1190.00 / 4750.00 | 148.75 / 593.75 | 6000.00 / 20000.00 | ✓ | Up to 26 (Shared limit) |
| inf1.6xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 23 (Shared limit) |
| inf1.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 11 (Shared limit) |
| Inf2 | | | | | |
| inf2.xlarge ¹ | 1250.00 / 10000.00 | 156.25 / 1250.00 | 6000.00 / 40000.00 | ✓ | Up to 26 (Shared limit) |
| inf2.8xlarge | 10000.00 | 1250.00 | 40000.00 | ✓ | Up to 26 (Shared limit) |
| inf2.24xlarge | 30000.00 | 3750.00 | 120000.00 | ✓ | Up to 28 (Shared limit) |
| inf2.48xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | Up to 28 (Shared limit) |
| P3 | | | | | |
| p3.2xlarge | 1750.00 | 218.75 | 10000.00 | ✗ | Up to 26 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| p3.8xlarge | 7000.00 | 875.00 | 40000.00 | x | Up to 23 (Xen-based limit) |
| p3.16xlarge | 14000.00 | 1750.00 | 80000.00 | x | Up to 19 (Xen-based limit) |
| P3dn | | | | | |
| p3dn.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 17 (Shared limit) |
| P4d | | | | | |
| p4d.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | 28 (Dedicated limit) |
| P4de | | | | | |
| p4de.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | 28 (Dedicated limit) |
| P5 | | | | | |
| p5.4xlarge | 10000.00 | 1250.00 | 32500.00 | ✓ | 32 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------|-------------------------------------|---|--------------------------------------|------|--|
| p5.48xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | 64 (Dedicated limit) |
| P5e | | | | | |
| p5e.48xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | 64 (Dedicated limit) |
| P5en | | | | | |
| p5en.48xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | 64 (Dedicated limit) |
| P6-B200 | | | | | |
| p6-b200.48xlarge | 100000.00 | 12500.00 | 400000.00 | ✓ | 64 (Dedicated limit) |
| P6e-GB200 | | | | | |
| p6e-gb200.36xlarge | 60000.00 | 7500.00 | 240000.00 | ✓ | 64 (Dedicated limit) |
| Trn1 | | | | | |
| trn1.2xlarge | 5000.00 / 20000.00 | 625.00 / 2500.00 | 16250.00 / 65000.00 | ✓ | Up to 25 (Shared limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--------------------------|-------------------------------------|---|--------------------------------------|------|---|
| trn1.32xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 28 (Shared limit) |
| Trn1n | | | | | |
| trn1n.32xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | Up to 28 (Shared limit) |
| Trn2 | | | | | |
| trn2.48xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | 64 (Dedicated limit) |
| Trn2u | | | | | |
| trn2u.48xlarge | 80000.00 | 10000.00 | 260000.00 | ✓ | 64 (Dedicated limit) |
| VT1 | | | | | |
| vt1.3xlarge ¹ | 2375.00 / 4750.00 | 296.88 / 593.75 | 10000.00 / 20000.00 | ✓ | Up to 25 (Shared limit) |
| vt1.6xlarge | 4750.00 | 593.75 | 20000.00 | ✓ | Up to 23 (Shared limit) |
| vt1.24xlarge | 19000.00 | 2375.00 | 80000.00 | ✓ | Up to 27 (Shared limit) |

Note

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| DL1 | | | | | |
| dl1.24xlarge | 4 x 1000 GB | NVMe SSD | 1,000,000 / 800,000 | | ✓ |
| F1 | | | | | |
| f1.2xlarge | 1 x 470 GB | NVMe SSD | | | ✓ |
| f1.4xlarge | 1 x 940 GB | NVMe SSD | | | ✓ |
| f1.16xlarge | 4 x 940 GB | NVMe SSD | | | ✓ |
| F2 | | | | | |
| f2.6xlarge | 1 x 940 GB | NVMe SSD | 400,000 / 125,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| f2.12xlarge | 2 x 940 GB | NVMe SSD | 800,000 / 250,000 | | ✓ |
| f2.48xlarge | 8 x 940 GB | NVMe SSD | 3,200,000 / 1,000,000 | | ✓ |
| G4ad | | | | | |
| g4ad.xlarge | 1 x 150 GB | NVMe SSD | 10,417 / 8,333 | | ✓ |
| g4ad.2xlarge | 1 x 300 GB | NVMe SSD | 20,833 / 16,667 | | ✓ |
| g4ad.4xlarge | 1 x 600 GB | NVMe SSD | 41,667 / 33,333 | | ✓ |
| g4ad.8xlarge | 1 x 1200 GB | NVMe SSD | 83,333 / 66,667 | | ✓ |
| g4ad.16xlarge | 2 x 1200 GB | NVMe SSD | 166,666 / 133,332 | | ✓ |
| G4dn | | | | | |
| g4dn.xlarge | 1 x 125 GB | NVMe SSD | 42,500 / 32,500 | | ✓ |
| g4dn.2xlarge | 1 x 225 GB | NVMe SSD | 42,500 / 32,500 | | ✓ |
| g4dn.4xlarge | 1 x 225 GB | NVMe SSD | 85,000 / 65,000 | | ✓ |
| g4dn.8xlarge | 1 x 900 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| g4dn.12xlarge | 1 x 900 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |
| g4dn.16xlarge | 1 x 900 GB | NVMe SSD | 250,000 / 200,000 | | ✓ |
| g4dn.metal | 2 x 900 GB | NVMe SSD | 500,000 / 400,000 | | ✓ |
| G5 | | | | | |
| g5.xlarge | 1 x 250 GB | NVMe SSD | 40,625 / 20,313 | | ✓ |
| g5.2xlarge | 1 x 450 GB | NVMe SSD | 40,625 / 20,313 | | ✓ |
| g5.4xlarge | 1 x 600 GB | NVMe SSD | 125,000 / 62,500 | | ✓ |
| g5.8xlarge | 1 x 900 GB | NVMe SSD | 250,000 / 125,000 | | ✓ |
| g5.12xlarge | 1 x 3800 GB | NVMe SSD | 312,500 / 156,250 | | ✓ |
| g5.16xlarge | 1 x 1900 GB | NVMe SSD | 250,000 / 125,000 | | ✓ |
| g5.24xlarge | 1 x 3800 GB | NVMe SSD | 312,500 / 156,250 | | ✓ |
| g5.48xlarge | 2 x 3800 GB | NVMe SSD | 625,000 / 312,500 | | ✓ |
| G6 | | | | | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| g6.xlarge | 1 x 250 GB | NVMe SSD | 40,625 / 20,000 | | ✓ |
| g6.2xlarge | 1 x 450 GB | NVMe SSD | 40,625 / 20,000 | | ✓ |
| g6.4xlarge | 1 x 600 GB | NVMe SSD | 125,000 / 40,000 | | ✓ |
| g6.8xlarge | 2 x 450 GB | NVMe SSD | 250,000 / 80,000 | | ✓ |
| g6.12xlarge | 4 x 940 GB | NVMe SSD | 312,500 / 125,000 | | ✓ |
| g6.16xlarge | 2 x 940 GB | NVMe SSD | 250,000 / 80,000 | | ✓ |
| g6.24xlarge | 4 x 940 GB | NVMe SSD | 312,500 / 156,248 | | ✓ |
| g6.48xlarge | 8 x 940 GB | NVMe SSD | 625,000 / 312,496 | | ✓ |

G6e

| | | | | | |
|-------------|------------|----------|------------------|--|---|
| g6e.xlarge | 1 x 250 GB | NVMe SSD | 40,625 / 20,000 | | ✓ |
| g6e.2xlarge | 1 x 450 GB | NVMe SSD | 40,625 / 20,000 | | ✓ |
| g6e.4xlarge | 1 x 600 GB | NVMe SSD | 125,000 / 40,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| g6e.8xlarge | 2 x 450 GB | NVMe SSD | 250,000 / 80,000 | | ✓ |
| g6e.12xlarge | 2 x 1900 GB | NVMe SSD | 312,500 / 125,000 | | ✓ |
| g6e.16xlarge | 2 x 950 GB | NVMe SSD | 250,000 / 80,000 | | ✓ |
| g6e.24xlarge | 2 x 1900 GB | NVMe SSD | 312,500 / 156,250 | | ✓ |
| g6e.48xlarge | 4 x 1900 GB | NVMe SSD | 625,000 / 312,500 | | ✓ |
| G6f | | | | | |
| g6f.large | 1 x 100 GB | NVMe SSD | 16,250 / 8,000 | | ✓ |
| g6f.xlarge | 1 x 100 GB | NVMe SSD | 27,100 / 13,333 | | ✓ |
| g6f.2xlarge | 1 x 200 GB | NVMe SSD | 40,625 / 20,000 | | ✓ |
| g6f.4xlarge | 1 x 450 GB | NVMe SSD | 125,000 / 40,000 | | ✓ |
| Gr6 | | | | | |
| gr6.4xlarge | 1 x 600 GB | NVMe SSD | 125,000 / 40,000 | | ✓ |
| gr6.8xlarge | 2 x 450 GB | NVMe SSD | 250,000 / 80,000 | | ✓ |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| Gr6f | | | | | |
| gr6f.4xlarge | 1 x 450 GB | NVMe SSD | 125,000 / 40,000 | | ✓ |
| P3dn | | | | | |
| p3dn.24xlarge | 2 x 900 GB | NVMe SSD | 700,000 / 340,000 | | ✓ |
| P4d | | | | | |
| p4d.24xlarge | 8 x 1000 GB | NVMe SSD | 2,000,000 / 1,600,000 | | ✓ |
| P4de | | | | | |
| p4de.24xlarge | 8 x 1000 GB | NVMe SSD | 2,000,000 / 1,600,000 | | ✓ |
| P5 | | | | | |
| p5.4xlarge | 1 x 3800 GB | NVMe SSD | 550,000 / 275,000 | | ✓ |
| p5.48xlarge | 8 x 3800 GB | NVMe SSD | 4,400,000 / 2,200,000 | | ✓ |
| P5e | | | | | |
| p5e.48xlarge | 8 x 3800 GB | NVMe SSD | 4,400,000 / 2,200,000 | | ✓ |
| P5en | | | | | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|--------------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| p5en.48xlarge | 8 x 3800 GB | NVMe SSD | 4,400,000 / 2,200,000 | | ✓ |
| P6-B200 | | | | | |
| p6-b200.48xlarge | 8 x 3800 GB | NVMe SSD | 4,400,000 / 2,200,000 | | ✓ |
| P6e-GB200 | | | | | |
| p6e-gb200.36xlarge | 3 x 7500 GB | NVMe SSD | 2,550,000 / 2,400,000 | | ✓ |
| Trn1 | | | | | |
| trn1.2xlarge | 1 x 474 GB | NVMe SSD | 107,500 / 45,000 | | ✓ |
| trn1.32xlarge | 4 x 1900 GB | NVMe SSD | 1,720,000 / 720,000 | | ✓ |
| Trn1n | | | | | |
| trn1n.32xlarge | 4 x 1900 GB | NVMe SSD | 1,720,000 / 720,000 | | ✓ |
| Trn2 | | | | | |
| trn2.48xlarge | 4 x 1900 GB | NVMe SSD | 1,720,000 / 720,000 | | ✓ |
| Trn2u | | | | | |
| trn2u.48xlarge | 4 x 1900 GB | NVMe SSD | 1,720,000 / 720,000 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| DL1 | | | | | | |
| dl1.24xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| DL2q | | | | | | |
| dl2q.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✓ |
| F1 | | | | | | |
| f1.2xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| f1.4xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| f1.16xlarge | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| F2 | | | | | | |
| f2.6xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| f2.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| f2.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| G4ad | | | | | | |
| g4ad.xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| 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 | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| g5.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g5.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| G5g | | | | | | |
| g5g.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g5g.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g5g.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g5g.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g5g.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g5g.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| G6 | | | | | | |
| g6.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| g6.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| G6e | | | | | | |
| g6e.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.12xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.16xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.24xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6e.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| G6f | | | | | | |
| g6f.large | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| g6f.xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| g6f.2xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| g6f.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| Gr6 | | | | | | |
| gr6.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| gr6.8xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| Gr6f | | | | | | |
| gr6f.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| Inf1 | | | | | | |
| inf1.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf1.2xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf1.6xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf1.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| Inf2 | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| inf2.xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf2.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf2.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| inf2.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✓ |
| P3 | | | | | | |
| p3.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| p3.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| p3.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| P3dn | | | | | | |
| p3dn.24xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|--------------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| P4d | | | | | | |
| p4d.24xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| P4de | | | | | | |
| p4de.24xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |
| P5 | | | | | | |
| p5.4xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| p5.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| P5e | | | | | | |
| p5e.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| P5en | | | | | | |
| p5en.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| P6-B200 | | | | | | |
| p6-b200.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| P6e-GB200 | | | | | | |
| p6e-gb200.36xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| Trn1 | | | | | | |
| trn1.2xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| trn1.32xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| Trn1n | | | | | | |
| trn1n.32xlarge | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| Trn2 | | | | | | |
| trn2.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| Trn2u | | | | | | |
| trn2u.48xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| VT1 | | | | | | |
| vt1.3xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| vt1.6xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| vt1.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

Specifications for Amazon EC2 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

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| Hpc6a | hpc6a.48xlarge |
| Hpc6id | hpc6id.32xlarge |
| Hpc7a | hpc7a.12xlarge hpc7a.24xlarge hpc7a.48xlarge hpc7a.96xlarge |
| Hpc7g | hpc7g.4xlarge hpc7g.8xlarge hpc7g.16xlarge |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|--------------------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| Hpc6a | Nitro v4 | AMD (x86_64) | x | x | x | x | Linux |
| Hpc6id | Nitro v4 | Intel (x86_64) | x | x | x | x | Windows Linux |
| Hpc7a | Nitro v4 | AMD (x86_64) | x | x | x | x | Windows Linux |
| Hpc7g | Nitro v5 | AWS Graviton (arm64) | x | x | x | x | Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|-----------------|--------------|---------------------|-------|-----------|------------------|--------------|--------------------|
| Hpc6a | | | | | | | |
| hpc6a.48xlarge | 384.00 | AMD EPYC 7R13 | 96 | 96 | 1 | x | x |
| Hpc6id | | | | | | | |
| hpc6id.32xlarge | 1024.00 | Intel Xeon Ice Lake | 64 | 64 | 1 | x | x |
| Hpc7a | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|----------------|--------------|--------------------------|-------|-----------|------------------|--------------|--------------------|
| hpc7a.12xlarge | 768.00 | AMD EPYC 9R14 | 24 | 24 | 1 | x | x |
| hpc7a.24xlarge | 768.00 | AMD EPYC 9R14 | 48 | 48 | 1 | x | x |
| hpc7a.48xlarge | 768.00 | AMD EPYC 9R14 | 96 | 96 | 1 | x | x |
| hpc7a.96xlarge | 768.00 | AMD EPYC 9R14 | 192 | 192 | 1 | x | x |
| Hpc7g | | | | | | | |
| hpc7g.4xl | 128.00 | AWS Graviton3E Processor | 16 | 16 | 1 | x | x |
| hpc7g.8xl | 128.00 | AWS Graviton3E Processor | 32 | 32 | 1 | x | x |
| hpc7g.16xlarge | 128.00 | AWS Graviton3E Processor | 64 | 64 | 1 | x | x |

Network specifications

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENAv Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|----------------|-----------------------------------|-----|-----|--------------|---------------|-------------------------|----------------------------|------|
| hpc6a.48xlarge | 100 Gigabit | ✓ | ✓ | x | 1 | 2 | 50 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENI | ENI Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-----------------|-----------------------------------|-----|-----|-------------|---------------|-------------------------|----------------------------|------|
| Hpc6id | | | | | | | | |
| hpc6id.32xlarge | 200 Gigabit | ✓ | ✓ | ✗ | 2 | 2 | 50 | ✓ |
| Hpc7a | | | | | | | | |
| hpc7a.12xlarge | 300 Gigabit | ✓ | ✓ | ✗ | 2 | 4 | 50 | ✓ |
| hpc7a.24xlarge | 300 Gigabit | ✓ | ✓ | ✗ | 2 | 4 | 50 | ✓ |
| hpc7a.48xlarge | 300 Gigabit | ✓ | ✓ | ✗ | 2 | 4 | 50 | ✓ |
| hpc7a.96xlarge | 300 Gigabit | ✓ | ✓ | ✗ | 2 | 4 | 50 | ✓ |
| Hpc7g | | | | | | | | |
| hpc7g.4xlarge | 200 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 50 | ✓ |
| hpc7g.8xlarge | 200 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 50 | ✓ |
| hpc7g.16xlarge | 200 Gigabit | ✓ | ✓ | ✗ | 1 | 4 | 50 | ✓ |

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum

IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

⚠ Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for `r6i.16xlarge`, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS–optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|--|-------------------------------------|---|--------------------------------------|------|---|
| Hpc6a | | | | | |
| <code>hpc6a.48xlarge¹</code> | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | Up to 27 (Shared limit) |
| Hpc6id | | | | | |
| <code>hpc6id.32xlarge¹</code> | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | Up to 23 (Shared limit) |
| Hpc7a | | | | | |
| <code>hpc7a.12xlarge¹</code> | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | 27 (Dedicated limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-----------------------------|-------------------------------------|---|--------------------------------------|------|---|
| hpc7a.24xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | 27 (Dedicated limit) |
| hpc7a.48xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | 27 (Dedicated limit) |
| hpc7a.96xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | 27 (Dedicated limit) |
| Hpc7g | | | | | |
| hpc7g.4xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | Up to 27 (Shared limit) |
| hpc7g.8xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | Up to 27 (Shared limit) |
| hpc7g.16xlarge ¹ | 87.00 / 2085.00 | 10.88 / 260.62 | 500.00 / 11000.00 | ✓ | Up to 27 (Shared limit) |

 **Note**

¹ 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

The following table shows the instance store volume configuration for supported instance types, along with the aggregated IOPS performance with 4,096 byte block size at queue depth saturation.

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|-----------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| Hpc6id | | | | | |
| hpc6id.32xlarge | 4 x 3800 GB | NVMe SSD | 2,146,664 / 1,073,336 | | ✓ |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|-----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| Hpc6a | | | | | | |
| hpc6a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✓ | ✗ |
| Hpc6id | | | | | | |
| hpc6id.32xlarge | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ |
| Hpc7a | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|----------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| hpc7a.12xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| hpc7a.24xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| hpc7a.48xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| hpc7a.96xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| Hpc7g | | | | | | |
| hpc7g.4xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| hpc7g.8xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |
| hpc7g.16xlarge | ✓ | Instance store not supported | ✓ | ✗ | ✗ | ✗ |

Specifications for Amazon EC2 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

- [Instance families and instance types](#)
- [Instance family summary](#)
- [Performance specifications](#)
- [Network specifications](#)
- [Amazon EBS specifications](#)
- [Instance store specifications](#)
- [Security specifications](#)

Pricing

For pricing information, see [Amazon EC2 On-Demand Pricing](#).

Instance families and instance types

| Instance family | Available instance types |
|-----------------|---|
| 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 |
| G3 | g3.4xlarge g3.8xlarge g3.16xlarge |
| I2 | i2.xlarge i2.2xlarge i2.4xlarge i2.8xlarge |

| Instance family | Available instance types |
|-----------------|--|
| 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 | m4.large m4.xlarge m4.2xlarge m4.4xlarge m4.10xlarge m4.16xlarge |
| P2 | p2.xlarge p2.8xlarge p2.16xlarge |
| R3 | r3.large r3.xlarge r3.2xlarge r3.4xlarge r3.8xlarge |
| R4 | r4.large r4.xlarge r4.2xlarge r4.4xlarge r4.8xlarge r4.16xlarge |
| T1 | t1.micro |

Instance family summary

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|-----------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| A1 | <u>Nitro v2</u> | AWS Graviton (arm64) | ✓ | ✓ | ✓ | ✗ | Linux |
| C1 | Xen | Intel (x86_64) | ✗ | ✗ | ✓ | ✗ | Windows Linux |
| C3 | Xen | Intel (x86_64) | ✗ | ✓ | ✓ | ✓ | Windows Linux |

| Instance family | Hypervisor | Processor type (architecture) | Metal instances available | Dedicated Hosts support | Spot support | Hibernation support | Supported operating systems |
|-----------------|------------|-------------------------------|---------------------------|-------------------------|--------------|---------------------|-----------------------------|
| C4 | Xen | Intel (x86_64) | x | ✓ | ✓ | ✓ | Windows Linux |
| G3 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| I2 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| M1 | Xen | Intel (x86_64) | x | x | ✓ | x | Windows Linux |
| M2 | Xen | Intel (x86_64) | x | x | ✓ | x | Windows Linux |
| M3 | Xen | Intel (x86_64) | x | ✓ | ✓ | ✓ | Windows Linux |
| M4 | Xen | Intel (x86_64) | x | ✓ | ✓ | ✓ | Windows Linux |
| P2 | Xen | Intel (x86_64) | x | ✓ | ✓ | x | Windows Linux |
| R3 | Xen | Intel (x86_64) | x | ✓ | ✓ | ✓ | Windows Linux |
| R4 | Xen | Intel (x86_64) | x | ✓ | ✓ | ✓ | Windows Linux |
| T1 | Xen | Intel (i386) | x | x | ✓ | x | Windows Linux |

Performance specifications

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|------------------------|-------|-----------|------------------|--------------|--------------------|
| A1 | | | | | | | |
| a1.medium | 2.00 | AWS Graviton Processor | 1 | 1 | 1 | x | x |
| a1.large | 4.00 | AWS Graviton Processor | 2 | 2 | 1 | x | x |
| a1.xlarge | 8.00 | AWS Graviton Processor | 4 | 4 | 1 | x | x |
| a1.2xlarge | 16.00 | AWS Graviton Processor | 8 | 8 | 1 | x | x |
| a1.4xlarge | 32.00 | AWS Graviton Processor | 16 | 16 | 1 | x | x |
| a1.metal | 32.00 | AWS Graviton Processor | 16 | 16 | 1 | x | x |
| C1 | | | | | | | |
| c1.medium | 1.70 | Intel Xeon Family | 2 | 2 | 1 | x | x |
| c1.xlarge | 7.00 | Intel Xeon Family | 8 | 8 | 1 | x | x |
| C3 | | | | | | | |
| c3.large | 3.75 | Intel Xeon E5-2680v2 | 2 | 1 | 2 | x | x |
| c3.xlarge | 7.50 | Intel Xeon E5-2680v2 | 4 | 2 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|--------------------|--------------------|
| c3.2xlarge | 15.00 | Intel Xeon E5-2680v2 | 8 | 4 | 2 | x | x |
| c3.4xlarge | 30.00 | Intel Xeon E5-2680v2 | 16 | 8 | 2 | x | x |
| c3.8xlarge | 60.00 | Intel Xeon E5-2680v2 | 32 | 16 | 2 | x | x |
| C4 | | | | | | | |
| c4.large | 3.75 | Intel Xeon E5-2666v3 | 2 | 1 | 2 | x | x |
| c4.xlarge | 7.50 | Intel Xeon E5-2666v3 | 4 | 2 | 2 | x | x |
| c4.2xlarge | 15.00 | Intel Xeon E5-2666v3 | 8 | 4 | 2 | x | x |
| c4.4xlarge | 30.00 | Intel Xeon E5-2666v3 | 16 | 8 | 2 | x | x |
| c4.8xlarge | 60.00 | Intel Xeon E5-2666v3 | 36 | 18 | 2 | x | x |
| G3 | | | | | | | |
| g3.4xlarge | 122.00 | Intel Xeon E5-2686 v4 | 16 | 8 | 2 | 1 x NVIDIA M60 GPU | 8 GiB (1 x 8 GiB) |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|--------------------|--------------------|
| g3.8xlarge | 244.00 | Intel Xeon E5-2686 v4 | 32 | 16 | 2 | 2 x NVIDIA M60 GPU | 16 GiB (2 x 8 GiB) |
| g3.16xlarge | 488.00 | Intel Xeon E5-2686 v4 | 64 | 32 | 2 | 4 x NVIDIA M60 GPU | 32 GiB (4 x 8 GiB) |
| I2 | | | | | | | |
| i2.xlarge | 30.50 | Intel Xeon E5-2670v2 | 4 | 2 | 2 | x | x |
| i2.2xlarge | 61.00 | Intel Xeon E5-2670v2 | 8 | 4 | 2 | x | x |
| i2.4xlarge | 122.00 | Intel Xeon E5-2670v2 | 16 | 8 | 2 | x | x |
| i2.8xlarge | 244.00 | Intel Xeon E5-2670v2 | 32 | 16 | 2 | x | x |
| M1 | | | | | | | |
| m1.small | 1.70 | Intel Xeon Family | 1 | 1 | 1 | x | x |
| m1.medium | 3.70 | Intel Xeon Family | 1 | 1 | 1 | x | x |
| m1.large | 7.50 | Intel Xeon Family | 2 | 2 | 1 | x | x |
| m1.xlarge | 15.00 | Intel Xeon Family | 4 | 4 | 1 | x | x |
| M2 | | | | | | | |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|----------------------|-------|-----------|------------------|--------------|--------------------|
| m2.xlarge | 17.10 | Intel Xeon Family | 2 | 2 | 1 | x | x |
| m2.2xlarge | 34.20 | Intel Xeon Family | 4 | 4 | 1 | x | x |
| m2.4xlarge | 68.40 | Intel Xeon Family | 8 | 8 | 1 | x | x |
| M3 | | | | | | | |
| m3.medium | 3.75 | Intel Xeon E5-2670v2 | 1 | 1 | 1 | x | x |
| m3.large | 7.50 | Intel Xeon E5-2670v2 | 2 | 1 | 2 | x | x |
| m3.xlarge | 15.00 | Intel Xeon E5-2670v2 | 4 | 2 | 2 | x | x |
| m3.2xlarge | 30.00 | Intel Xeon E5-2670v2 | 8 | 4 | 2 | x | x |
| M4 | | | | | | | |
| m4.large | 8.00 | Intel Xeon E5-2676v3 | 2 | 1 | 2 | x | x |
| m4.xlarge | 16.00 | Intel Xeon E5-2676v3 | 4 | 2 | 2 | x | x |
| m4.2xlarge | 32.00 | Intel Xeon E5-2676v3 | 8 | 4 | 2 | x | x |
| m4.4xlarge | 64.00 | Intel Xeon E5-2676v3 | 16 | 8 | 2 | x | x |
| m4.10xlarge | 160.00 | Intel Xeon E5-2676v3 | 40 | 20 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|-----------------------|-------|-----------|------------------|---------------------|-----------------------|
| m4.16xlarge | 256.00 | Intel Xeon E5-2686v4 | 64 | 32 | 2 | x | x |
| P2 | | | | | | | |
| p2.xlarge | 61.00 | Intel Xeon E5-2686v4 | 4 | 2 | 2 | 1 x NVIDIA K80 GPU | 12 GiB (1 x 12 GiB) |
| p2.8xlarge | 488.00 | Intel Xeon E5-2686v4 | 32 | 16 | 2 | 8 x NVIDIA K80 GPU | 96 GiB (8 x 12 GiB) |
| p2.16xlarge | 732.00 | Intel Xeon E5-2686 v4 | 64 | 32 | 2 | 16 x NVIDIA K80 GPU | 192 GiB (16 x 12 GiB) |
| R3 | | | | | | | |
| r3.large | 15.00 | Intel Xeon E5-2670v2 | 2 | 1 | 2 | x | x |
| r3.xlarge | 30.50 | Intel Xeon E5-2670v2 | 4 | 2 | 2 | x | x |
| r3.2xlarge | 61.00 | Intel Xeon E5-2670v2 | 8 | 4 | 2 | x | x |
| r3.4xlarge | 122.00 | Intel Xeon E5-2670v2 | 16 | 8 | 2 | x | x |

| Instance type | Memory (GiB) | Processor | vCPUs | CPU cores | Threads per core | Accelerators | Accelerator memory |
|---------------|--------------|---------------------------|-------|-----------|------------------|--------------|--------------------|
| r3.8xlarge | 244.00 | Intel Xeon E5-2670v2 | 32 | 16 | 2 | x | x |
| R4 | | | | | | | |
| r4.large | 15.25 | Intel Broadwell E5-2686v4 | 2 | 1 | 2 | x | x |
| r4.xlarge | 30.50 | Intel Broadwell E5-2686v4 | 4 | 2 | 2 | x | x |
| r4.2xlarge | 61.00 | Intel Broadwell E5-2686v4 | 8 | 4 | 2 | x | x |
| r4.4xlarge | 122.00 | Intel Broadwell E5-2686v4 | 16 | 8 | 2 | x | x |
| r4.8xlarge | 244.00 | Intel Broadwell E5-2686v4 | 32 | 16 | 2 | x | x |
| r4.16xlarge | 488.00 | Intel Broadwell E5-2686v4 | 64 | 32 | 2 | x | x |
| T1 | | | | | | | |
| t1.micro | 0.61 | Intel E5-2650 | 1 | 1 | 1 | x | x |

Network specifications

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENAv Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------|-----------------------------------|-----|----------------|--------------|---------------|-------------------------|----------------------------|------|
| A1 | | | | | | | | |
| a1.medium ¹ | 0.5 / 10.0 | x | ✓ | x | 1 | 2 | 4 | ✓ |
| a1.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| a1.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| a1.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| a1.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| a1.metal ¹ | 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 |
| C3 | | | | | | | | |
| c3.large | Moderate | x | x ² | x | 1 | 3 | 10 | ✓ |
| c3.xlarge | Moderate | x | x ² | x | 1 | 4 | 15 | ✓ |
| c3.2xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| c3.4xlarge | High | x | x ² | x | 1 | 8 | 30 | ✓ |
| c3.8xlarge | 10 Gigabit | x | x ² | x | 1 | 8 | 30 | ✓ |
| C4 | | | | | | | | |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------|-----------------------------------|-----|----------------|-------------|---------------|-------------------------|----------------------------|------|
| c4.large | Moderate | x | x ² | x | 1 | 3 | 10 | ✓ |
| c4.xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| c4.2xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| c4.4xlarge | High | x | x ² | x | 1 | 8 | 30 | ✓ |
| c4.8xlarge | 10 Gigabit | x | x ² | x | 1 | 8 | 30 | ✓ |
| G3 | | | | | | | | |
| g3.4xlarge ¹ | 5.0 / 10.0 | x | ✓ | x | 1 | 8 | 30 | ✓ |
| g3.8xlarge | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| g3.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 15 | 50 | ✓ |
| I2 | | | | | | | | |
| i2.xlarge | Moderate | x | x ² | x | 1 | 4 | 15 | ✓ |
| i2.2xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| i2.4xlarge | High | x | x ² | x | 1 | 8 | 30 | ✓ |
| i2.8xlarge | 10 Gigabit | x | x ² | x | 1 | 8 | 30 | ✓ |
| M1 | | | | | | | | |
| m1.small | Low | x | x | x | 1 | 2 | 4 | x |
| m1.medium | Moderate | x | x | x | 1 | 2 | 6 | x |
| m1.large | Moderate | x | x | x | 1 | 3 | 10 | x |
| m1.xlarge | High | x | x | x | 1 | 4 | 15 | x |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|---------------|-----------------------------------|-----|----------------|-------------|---------------|-------------------------|----------------------------|------|
| 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 |
| M3 | | | | | | | | |
| 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 |
| M4 | | | | | | | | |
| m4.large | Moderate | x | x ² | x | 1 | 2 | 10 | ✓ |
| m4.xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| m4.2xlarge | High | x | x ² | x | 1 | 4 | 15 | ✓ |
| m4.4xlarge | High | x | x ² | x | 1 | 8 | 30 | ✓ |
| m4.10xlarge | 10 Gigabit | x | x ² | x | 1 | 8 | 30 | ✓ |
| m4.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| P2 | | | | | | | | |
| p2.xlarge | High | x | ✓ | x | 1 | 4 | 15 | ✓ |
| p2.8xlarge | 10 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |

| Instance type | Baseline / Burst bandwidth (Gbps) | EFA | ENA | ENA Express | Network cards | Max. network interfaces | IP addresses per interface | IPv6 |
|-------------------------|-----------------------------------|-----|-------|-------------|---------------|-------------------------|----------------------------|------|
| p2.16xlarge | 25 Gigabit | x | ✓ | x | 1 | 8 | 30 | ✓ |
| R3 | | | | | | | | |
| r3.large | Moderate | x | x^2 | x | 1 | 3 | 10 | ✓ |
| r3.xlarge | Moderate | x | x^2 | x | 1 | 4 | 15 | ✓ |
| r3.2xlarge | High | x | x^2 | x | 1 | 4 | 15 | ✓ |
| r3.4xlarge | High | x | x^2 | x | 1 | 8 | 30 | ✓ |
| r3.8xlarge | 10 Gigabit | x | x^2 | x | 1 | 8 | 30 | ✓ |
| R4 | | | | | | | | |
| r4.large ¹ | 0.75 / 10.0 | x | ✓ | x | 1 | 3 | 10 | ✓ |
| r4.xlarge ¹ | 1.25 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r4.2xlarge ¹ | 2.5 / 10.0 | x | ✓ | x | 1 | 4 | 15 | ✓ |
| r4.4xlarge ¹ | 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 | ✓ |
| T1 | | | | | | | | |
| t1.micro | Very Low | x | x | x | 1 | 2 | 2 | x |

Note

¹ 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 instance types can sustain their maximum performance indefinitely. For more information, see [instance network bandwidth](#).

² These instances support enhanced networking using the Intel 82599 VF interface.

Amazon EBS specifications

The following table indicates which instance types are Amazon EBS optimized by default and which optionally support it. It also describes their EBS-optimized performance, including dedicated bandwidth to Amazon EBS, the typical maximum aggregate throughput that can be achieved on that dedicated connection with a streaming read workload and 128 KiB I/O size, and the maximum IOPS the instance type can support when using a 16 KiB I/O size. Instance types not listed do not support Amazon EBS optimization.

Important

An instance's EBS performance is bounded by the instance's performance limits, or the aggregated performance of its attached volumes, whichever is smaller. To achieve maximum EBS performance, an instance must have attached volumes that provide a combined performance equal to or greater than the maximum instance performance. For example, to achieve 80,000 IOPS for r6i.16xlarge, the instance must have at least 5 gp3 volumes provisioned with 16,000 IOPS each (5 volumes x 16,000 IOPS = 80,000 IOPS).

We recommend that you choose an EBS-optimized instance type that provides more dedicated Amazon EBS throughput than your application needs; otherwise, the connection between Amazon EBS and Amazon EC2 can become a performance bottleneck.

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|-------------------------|-------------------------------------|---|--------------------------------------|------|--|
| A1 | | | | | |
| a1.medium ¹ | 300.00 / 3500.00 | 37.50 / 437.50 | 2500.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| a1.large ¹ | 525.00 / 3500.00 | 65.62 / 437.50 | 4000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| a1.xlarge ¹ | 800.00 / 3500.00 | 100.00 / 437.50 | 6000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| a1.2xlarge ¹ | 1750.00 / 3500.00 | 218.75 / 437.50 | 10000.00 / 20000.00 | ✓ | Up to 27 (Shared limit) |
| a1.4xlarge | 3500.00 | 437.50 | 20000.00 | ✓ | Up to 27 (Shared limit) |
| a1.metal | 3500.00 | 437.50 | 20000.00 | ✓ | Up to 31 (Shared limit) |
| C1 | | | | | |
| c1.xlarge | 1000.00 | 125.00 | 8000.00 | ✗ | Up to 39 (Xen-based limit) |
| C3 | | | | | |
| c3.xlarge | 500.00 | 62.50 | 4000.00 | ✗ | Up to 39 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| c3.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 39 (Xen-based limit) |
| c3.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 39 (Xen-based limit) |
| C4 | | | | | |
| c4.large | 500.00 | 62.50 | 4000.00 | x | Up to 40 (Xen-based limit) |
| c4.xlarge | 750.00 | 93.75 | 6000.00 | x | Up to 40 (Xen-based limit) |
| c4.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 40 (Xen-based limit) |
| c4.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 40 (Xen-based limit) |
| c4.8xlarge | 4000.00 | 500.00 | 32000.00 | x | Up to 40 (Xen-based limit) |
| G3 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| g3.4xlarge | 3500.00 | 437.50 | 20000.00 | x | Up to 26 (Xen-based limit) |
| g3.8xlarge | 7000.00 | 875.00 | 40000.00 | x | Up to 25 (Xen-based limit) |
| g3.16xlarge | 14000.00 | 1750.00 | 80000.00 | x | Up to 23 (Xen-based limit) |
| I2 | | | | | |
| i2.xlarge | 500.00 | 62.50 | 4000.00 | x | Up to 40 (Xen-based limit) |
| i2.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 40 (Xen-based limit) |
| i2.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 40 (Xen-based limit) |
| M1 | | | | | |
| m1.large | 500.00 | 62.50 | 4000.00 | x | Up to 39 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| m1.xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 39 (Xen-based limit) |
| M2 | | | | | |
| m2.2xlarge | 500.00 | 62.50 | 4000.00 | x | Up to 39 (Xen-based limit) |
| m2.4xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 39 (Xen-based limit) |
| M3 | | | | | |
| m3.xlarge | 500.00 | 62.50 | 4000.00 | x | Up to 39 (Xen-based limit) |
| m3.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 39 (Xen-based limit) |
| M4 | | | | | |
| m4.large | 450.00 | 56.25 | 3600.00 | x | Up to 40 (Xen-based limit) |
| m4.xlarge | 750.00 | 93.75 | 6000.00 | x | Up to 40 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| m4.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 40 (Xen-based limit) |
| m4.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 40 (Xen-based limit) |
| m4.10xlarge | 4000.00 | 500.00 | 32000.00 | x | Up to 40 (Xen-based limit) |
| m4.16xlarge | 10000.00 | 1250.00 | 65000.00 | x | Up to 40 (Xen-based limit) |
| P2 | | | | | |
| p2.xlarge | 750.00 | 93.75 | 6000.00 | x | Up to 26 (Xen-based limit) |
| p2.8xlarge | 5000.00 | 625.00 | 32500.00 | x | Up to 19 (Xen-based limit) |
| p2.16xlarge | 10000.00 | 1250.00 | 65000.00 | x | Up to 11 (Xen-based limit) |
| R3 | | | | | |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| r3.xlarge | 500.00 | 62.50 | 4000.00 | x | Up to 39 (Xen-based limit) |
| r3.2xlarge | 1000.00 | 125.00 | 8000.00 | x | Up to 39 (Xen-based limit) |
| r3.4xlarge | 2000.00 | 250.00 | 16000.00 | x | Up to 39 (Xen-based limit) |
| R4 | | | | | |
| r4.large | 425.00 | 53.12 | 3000.00 | x | Up to 40 (Xen-based limit) |
| r4.xlarge | 850.00 | 106.25 | 6000.00 | x | Up to 40 (Xen-based limit) |
| r4.2xlarge | 1700.00 | 212.50 | 12000.00 | x | Up to 40 (Xen-based limit) |
| r4.4xlarge | 3500.00 | 437.50 | 18750.00 | x | Up to 40 (Xen-based limit) |
| r4.8xlarge | 7000.00 | 875.00 | 37500.00 | x | Up to 40 (Xen-based limit) |

| Instance type | Baseline / Maximum bandwidth (Mbps) | Baseline / Maximum throughput (MB/s, 128 KiB I/O) | Baseline / Maximum IOPS (16 KiB I/O) | NVMe | EBS volume limit |
|---------------|-------------------------------------|---|--------------------------------------|------|--|
| r4.16xlarge | 14000.00 | 1750.00 | 75000.00 | x | Up to 40 (Xen-based limit) |

T1

 **Note**

¹ 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.

C1, C3, I2, M1, M2, M3, and R3 instances are not Amazon EBS optimized by default. You can optionally enable [Amazon EBS optimization](#) for these instances during or after launch for an additional hourly fee.

Instance store specifications

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| C1 | | | | | |
| c1.medium | 1 x 350 GB | HDD | | ✓ | |
| c1.xlarge | 4 x 420 GB | HDD | | ✓ | |
| C3 | | | | | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| c3.large | 2 x 16 GB | SSD | | ✓ | |
| 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 | | ✓ | |
| I2 | | | | | |
| 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 | | ✓ | |
| M1 | | | | | |
| 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 | | ✓ | |
| M2 | | | | | |
| m2.xlarge | 1 x 420 GB | HDD | | ✓ | |
| m2.2xlarge | 1 x 850 GB | HDD | | ✓ | |
| m2.4xlarge | 2 x 840 GB | HDD | | ✓ | |

| Instance type | Instance store volumes | Instance store type | 100% random read IOPS / Write IOPS | Needs initialization ¹ | TRIM support ² |
|---------------|------------------------|---------------------|------------------------------------|-----------------------------------|---------------------------|
| M3 | | | | | |
| 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 | | ✓ | |
| R3 | | | | | |
| 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 | | ✓ | |

¹ Volumes attached to certain instances suffer a first-write penalty unless initialized. For more information, see [Optimize disk performance for instance store volumes](#).

² For more information, see [Instance store volume TRIM support](#).

Security specifications

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|---------------------------|-----------------------|-------------|----------|----------------|
| A1 | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| a1.medium | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| a1.large | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| a1.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| a1.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| a1.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| a1.metal | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| C1 | | | | | | |
| c1.medium | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| c1.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| C3 | | | | | | |
| c3.large | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| c3.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| c3.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| c3.4xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| c3.8xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| C4 | | | | | | |
| c4.large | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| c4.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| c4.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| c4.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| c4.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| G3 | | | | | | |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| g3.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g3.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| g3.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| I2 | | | | | | |
| i2.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| i2.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| i2.4xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| i2.8xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| M1 | | | | | | |
| m1.small | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m1.medium | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m1.large | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m1.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| M2 | | | | | | |
| m2.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m2.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m2.4xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| M3 | | | | | | |
| m3.medium | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m3.large | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m3.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| m3.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| M4 | | | | | | |
| m4.large | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| m4.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| m4.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| m4.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| m4.10xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| m4.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| P2 | | | | | | |
| p2.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| p2.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| p2.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| R3 | | | | | | |
| r3.large | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| r3.xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| r3.2xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| r3.4xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| r3.8xlarge | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| R4 | | | | | | |
| r4.large | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |

| Instance type | EBS encryption | Instance store encryption | Encryption in transit | AMD SEV-SNP | NitroTPM | Nitro Enclaves |
|---------------|----------------|------------------------------|-----------------------|-------------|----------|----------------|
| r4.xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| r4.2xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| r4.4xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| r4.8xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| r4.16xlarge | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |
| T1 | | | | | | |
| t1.micro | ✓ | Instance store not supported | ✗ | ✗ | ✗ | ✗ |

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.

Considerations

- 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. An instance type that is supported in a Region might not be supported in all of the Availability Zones for that Region.
- Each Local Zone supports a subset of the available instance types. For more information, see [AWS Local Zones Features](#).
- Each Wavelength Zone supports a subset of the available instance types. For more information, see [Amazon EC2 considerations](#).

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 | M8g | M8gd | M8i | M8i-flex | Mac1 | Mac2 | Mac2-m1ultra | 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 | C7i-flex | C8g | C8gd | C8gn
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | R8i | R8i-flex | U-3tb1 | U-6tb1 | U7i-6tb | U7i-8tb | U7i-12tb | U7in-16tb | U7in-24tb | U7in-32tb | X1 | X1e | X2gd | X2idn | X2iedn | X2iezn | X8g | z1d
- **Storage Optimized:** D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | I7i | I7ie | I8g | I8ge | Im4gn | Is4gen
- **Accelerated Computing:** DL1 | F1 | F2 | G4ad | G4dn | G5 | G5g | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P3dn | P4d | P4de | P5 | P5en | P6-B200 | Trn1 | Trn1n | VT1

- **High Performance Computing:** Hpc7g
- **Previous Generation:** A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

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 | M8g | M8gd | M8i | M8i-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 | C7i-flex | C8g | C8gd
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | R8i | R8i-flex | U-3tb1 | U-6tb1 | U7i-12tb | X1 | X1e | X2gd | X2idn | X2iedn | X8g | z1d
- **Storage Optimized:** D2 | D3 | H1 | I2 | I3 | I3en | I4g | I4i | I7i | I7ie | I8g | I8ge | Im4gn | Is4gen
- **Accelerated Computing:** G4ad | G4dn | G5 | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P4d | P5 | P5e | P5en | P6-B200 | Trn1 | Trn1n | Trn2
- **High Performance Computing:** Hpc6a | Hpc6id | Hpc7a
- **Previous Generation:** A1 | C4 | I2 | M4 | R3 | R4

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 | M6id | M6idn | M6in | M7g | M7gd | M7i | M7i-flex | M8g | T1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C1 | C3 | C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6in | C7g | C7gd | C7i | C7i-flex | C8g | C8gn
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5d | R5n | R6a | R6g | R6gd | R6i | R7g | R7gd | R7i | R8g | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | I2 | I3 | I3en | I4i | I7ie
- **Accelerated Computing:** G4dn | Inf1 | P5 | P5en
- **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 | M8g | M8gd | M8i | M8i-flex | Mac1 | Mac2 | Mac2-m1ultra | 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 | C7i-flex | C8g | C8gd | C8gn
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | R8i | R8i-flex | U-3tb1 | U-6tb1 | U7i-6tb | U7i-8tb | U7i-12tb | U7in-16tb | U7in-24tb | U7in-32tb | X1 | X1e | X2gd | X2idn | X2iedn | X2iezn | X8g | z1d
- **Storage Optimized:** D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | I7i | I7ie | I8g | I8ge | Im4gn | Is4gen
- **Accelerated Computing:** DL1 | DL2q | F1 | F2 | G4ad | G4dn | G5 | G5g | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P3dn | P4d | P4de | P5 | P5e | P5en | P6-B200 | 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 | M7g | T3 | T4g
- **Compute Optimized:** C5 | C5a | C5ad | C5d | C5n | C6g | C6i | C6in | C7g
- **Memory Optimized:** R5 | R5d | R5dn | R5n | R6g | R6i | R7g | R7gd | U-6tb1 | X1 | X1e | X2idn | X2iedn
- **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 | M7g | M7i | M7i-flex | M8g | T3 | T4g

- **Compute Optimized:** C5 | C5a | C5d | C5n | C6a | C6g | C6gn | C6i | C6in | C7g | C7i | C7i-flex
- **Memory Optimized:** R5 | R5d | R5n | R6g | R6i | R7g | R7gd | R8g | U-3tb1 | 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 | M8g | T3 | T4g
- **Compute Optimized:** C5 | C5d | C6a | C6g | C6i | C6in | C7g | C8g
- **Memory Optimized:** R5 | R5d | R6a | R6g | R6i | R7g | R7gd | R7i | U-6tb1 | X2idn | X2iedn
- **Storage Optimized:** I3 | I3en | I4i

Asia Pacific (Jakarta) — ap-southeast-3

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

- **General Purpose:** M5 | M5d | M6g | M6gd | M6i | M7g | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C5 | C5d | C5n | C6g | C6gd | C6gn | C6in | C7g | C7gd | C7i | C8g
- **Memory Optimized:** R5 | R5d | R6g | R6gd | R7g | R7gd | R7i | R8g | U-6tb1 | X2idn | X2iedn
- **Storage Optimized:** D3en | I3 | I3en | I4i | I7ie
- **Accelerated Computing:** G5 | P5 | P5e | P5en

Asia Pacific (Malaysia) — ap-southeast-5

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

- **General Purpose:** M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C6g | C6gn | C6i | C6id | C6in | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R6g | R6i | R6id | R7g | R7gd | R7i | R8g | X2idn | X2iedn
- **Storage Optimized:** I3en | I4i | I7i | I7ie

- **Accelerated Computing:** G6 | Gr6

Asia Pacific (Melbourne) — ap-southeast-4

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

- **General Purpose:** M5 | M5d | M6g | M6gd | M7g | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C5 | C5d | C6g | C6in
- **Memory Optimized:** R5 | R5d | R6g | R7g | R7i | X2idn
- **Storage Optimized:** I3 | I3en | I4i
- **Accelerated Computing:** Trn1

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 | M6idn | M6in | M7g | M7gd | M7i | M7i-flex | M8g | Mac1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6in | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5d | R5n | R6a | R6g | R6gd | R6i | R6id | R7g | R7gd | R7i | R8g | U-6tb1 | X1 | X1e | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | D3 | I2 | I3 | I3en | I4i | I8g | Is4gen
- **Accelerated Computing:** G4dn | G5 | G6 | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P4d | P5 | P5en | Trn1
- **Previous Generation:** A1 | C4 | I2 | M4 | R3 | R4

Asia Pacific (New Zealand) — ap-southeast-6

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

- **General Purpose:** M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C6g | C6gn | C6i | C6id | C7g | C7i | C7i-flex
- **Memory Optimized:** R6g | R6i | R6id | R7g | R7gd | R7i
- **Storage Optimized:** I3en | I4i

Asia Pacific (Osaka) — ap-northeast-3

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

- **General Purpose:** M4 | M5 | M5d | M6g | M6gd | M6i | M7g | M7i | M7i-flex | T2 | T3 | T4g
- **Compute Optimized:** C4 | C5 | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in | C7g | C7gd | C7i
- **Memory Optimized:** R4 | R5 | R5d | R6g | R6gd | R6i | R7g | R7gd | R7i | R8g | U-6tb1 | X1 | X1e | X2idn | X2iedn
- **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 | M7gd | M7i | M7i-flex | M8g | Mac1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C4 | C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6g | R6gd | R6i | R6id | R7g | R7gd | R7i | R8g | U-6tb1 | U7i-6tb | U7i-8tb | U7i-12tb | U7in-16tb | X1 | X1e | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | I2 | I3 | I3en | I4i
- **Accelerated Computing:** G4dn | G5 | G5g | G6 | G6e | Gr6 | Inf1 | Inf2 | P3 | P4d | P5en
- **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 | M8g | Mac1 | Mac2 | 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 | C7i-flex | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7g | R7gd | R7i | R8g | U-3tb1 | U-6tb1 | X1 | X1e | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | D3 | D3en | I2 | I3 | I3en | I4g | I4i | Im4gn | Is4gen
- **Accelerated Computing:** G4dn | G5g | Inf1 | Inf2 | P3 | P4de
- **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 | M7a | M7g | M7gd | M7i | M7i-flex | M8g | 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 | C7i-flex | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7g | R7gd | R7i | R8g | U-3tb1 | U-6tb1 | U7in-16tb | X1 | X1e | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | D3 | D3en | I2 | I3 | I3en | I4g | I4i | I7i | I7ie | I8g | Im4gn | Is4gen
- **Accelerated Computing:** F1 | F2 | G4dn | G5 | G6 | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P4d | P5 | P5e | Trn1
- **High Performance Computing:** Hpc6a
- **Previous Generation:** A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

Asia Pacific (Taipei) — ap-east-2

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

- **General Purpose:** M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C6g | C6gn | C6i | C6id | C7g | C7i | C7i-flex
- **Memory Optimized:** R6g | R6i | R6id | R7g | R7gd | R7i

- **Storage Optimized:** I3en | I4i

Asia Pacific (Thailand) — ap-southeast-7

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

- **General Purpose:** M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C6g | C6gn | C6i | C6id | C6in | C7g | C7i | C7i-flex | C8g
- **Memory Optimized:** R6g | R6i | R6id | R7g | R7gd | R7i | X2idn
- **Storage Optimized:** I3en | I4i

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 | M8g | M8gd | Mac1 | T1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C1 | C3 | C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a | C7g | C7gd | C7gn | C7i | C7i-flex | C8g | C8gd
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | U-3tb1 | U-6tb1 | X1 | X1e | X2idn | X2iedn | X2iezn | z1d
- **Storage Optimized:** D2 | D3 | D3en | I2 | I3 | I3en | I4i | I7i | I7ie | Im4gn | Is4gen
- **Accelerated Computing:** G4ad | G4dn | G5 | G5g | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P3dn | P4d | P4de | P5 | P5en | 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 | M6idn | M6in | M7g | M7i | M7i-flex | Mac2-m2 | T2 | T3 | T3a | T4g

- **Compute Optimized:** C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6a | R6g | R6gd | R6i | R7g | R7i | R8g | U-3tb1 | U-6tb1 | X1 | X1e | X2idn | X2iedn
- **Storage Optimized:** D2 | D3 | I3 | I3en | I4g | I4i | I8g | Im4gn | Is4gen
- **Accelerated Computing:** G4ad | G4dn | G5 | G6 | G6f | Gr6 | Gr6f | Inf1 | P3 | P4d | P5
- **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 | C6in | C7g
- **Memory Optimized:** R5 | R6g | R6i | R6id | R7g
- **Storage Optimized:** I3en | I4i

China (Beijing) — cn-north-1

The following instance types are available in China (Beijing).

- **General Purpose:** M1 | M3 | M4 | M5 | M5a | M5d | M6g | M6i | M7g | M8g | T1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C3 | C4 | C5 | C5a | C5d | C6g | C6gn | C6i | C7g | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5d | R6g | R6gd | R6i | R7g | R8g | U-6tb1 | X1 | X2idn | X2iedn
- **Storage Optimized:** D2 | I2 | I3 | I3en | I4i
- **Accelerated Computing:** G4dn | G5 | Inf1 | P3
- **Previous Generation:** C3 | C4 | I2 | M1 | M3 | M4 | R3 | R4 | T1

China (Ningxia) — cn-northwest-1

The following instance types are available in China (Ningxia).

- **General Purpose:** M4 | M5 | M5a | M5d | M6g | M6i | M7g | M8g | T2 | T3 | T3a | T4g
- **Compute Optimized:** C4 | C5 | C5a | C5d | C6g | C6gd | C6gn | C6i | C6in | C7g | C8g
- **Memory Optimized:** R4 | R5 | R5a | R5d | R6g | R6gd | R6i | R7g | R8g | U-6tb1 | X1 | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | I3 | I3en | I4i
- **Accelerated Computing:** G4dn | G5 | Inf1 | P3
- **Previous Generation:** C4 | M4 | R4

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 | M8g | M8gd | 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 | C7i-flex | C8g | C8gd
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | R8gd | U-3tb1 | U-6tb1 | U7i-6tb | U7i-8tb | U7in-16tb | X1 | X1e | X2idn | X2iedn | X8g | z1d
- **Storage Optimized:** D2 | D3 | D3en | I2 | I3 | I3en | I4i | I7i | I7ie | I8g | Im4gn | Is4gen
- **Accelerated Computing:** DL2q | F1 | G4ad | G4dn | G5 | G5g | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P4d | P4de
- **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 | M8g | 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 | C7i-flex | C8g

- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | R8g | U-3tb1 | U-6tb1 | X1 | X1e | X2gd | X2idn | X2iedn | X2iezn | z1d
- **Storage Optimized:** D2 | D3 | D3en | H1 | I2 | I3 | I3en | I4g | I4i | I7ie | I8g | Im4gn | Is4gen
- **Accelerated Computing:** F1 | G4ad | G4dn | G5 | Inf1 | Inf2 | P3 | P3dn | P4d | VT1
- **High Performance Computing:** Hpc7a | Hpc7g
- **Previous Generation:** A1 | C1 | C3 | C4 | I2 | M1 | M2 | M3 | M4 | R3 | R4 | T1

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 | M6id | M7g | M7i | M7i-flex | M8g | Mac1 | T2 | T3 | T3a | T4g
- **Compute Optimized:** C4 | C5 | C5a | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R6id | R7g | R7gd | R7i | U-6tb1 | X1 | X2idn | X2iedn | z1d
- **Storage Optimized:** D2 | D3 | I3 | I3en | I4i | I7i | I7ie | Im4gn | Is4gen
- **Accelerated Computing:** F1 | F2 | G4ad | G4dn | G5 | G6 | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P3 | P5 | P5e
- **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 | C7g
- **Memory Optimized:** R5 | R5a | R5b | R5d | R5dn | R5n | R6g | R6i | R7g | R7gd | R7i | U-3tb1 | U-6tb1 | X2idn | X2iedn
- **Storage Optimized:** D2 | I3 | I3en | I4i
- **Accelerated Computing:** G4dn | Inf1

Europe (Paris) — eu-west-3

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

- **General Purpose:** M5 | M5a | M5ad | M5d | M6a | M6g | M6gd | M6i | M7g | M7gd | M7i | M7i-flex | T2 | T3 | T3a | T4g
- **Compute Optimized:** C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g | C7gd | C7i | C7i-flex
- **Memory Optimized:** R4 | R5 | R5a | R5ad | R5d | R5dn | R5n | R6g | R6gd | R6i | R7g | R7i | U-6tb1 | X1 | X2idn | X2iedn
- **Storage Optimized:** D2 | D3 | I3 | I3en | I4i | Im4gn | Is4gen
- **Accelerated Computing:** G4dn | G6 | Gr6 | Inf1 | Inf2
- **High Performance Computing:** Hpc6id | Hpc7a
- **Previous Generation:** R4

Europe (Spain) — eu-south-2

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

- **General Purpose:** M5 | M5d | M6g | M6gd | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex | M8g | M8gd | M8i | M8i-flex | T3 | T4g
- **Compute Optimized:** C5 | C5d | C6g | C6gd | C6in | C7a | C7g | C7gd | C7i | C7i-flex | C8g | C8gd
- **Memory Optimized:** R5 | R5d | R6g | R6gd | R6id | R7a | R7g | R7gd | R7i | R8g | R8gd | R8i | R8i-flex | U-6tb1 | X2idn | X2iedn
- **Storage Optimized:** I3 | I3en | I4i | I7ie | I8g | Im4gn
- **Accelerated Computing:** G5g | G6 | G6e | Gr6 | P5en

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 | M8g | Mac1 | T3 | T4g

- **Compute Optimized:** C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in | C7a | C7g | C7gd | C7i | C7i-flex | C8g
- **Memory Optimized:** R5 | R5b | R5d | R5dn | R5n | R6g | R6gd | R6i | R6idn | R6in | R7a | R7g | R7gd | R7i | R8g | U-6tb1 | X2idn | X2iedn
- **Storage Optimized:** D2 | I3 | I3en | I4i | I7ie
- **Accelerated Computing:** G4dn | G5 | G6 | G6e | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P5 | P5e | P5en
- **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 | M6idn | M6in | M7g | T3 | T4g
- **Compute Optimized:** C5 | C5d | C6g | C6gd | C6in | C7g | C7i | C7i-flex
- **Memory Optimized:** R5 | R5d | R6g | R6gd | R6i | R7g | U-3tb1 | U-6tb1 | X2idn
- **Storage Optimized:** D3 | I3 | I3en | I4i
- **Accelerated Computing:** G6 | Gr6

Israel (Tel Aviv) — il-central-1

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

- **General Purpose:** M5 | M5d | M6g | M6gd | M6i | M6id | M7g | T3 | T3a | T4g
- **Compute Optimized:** C5 | C5d | C6g | C6gn | C6i | C6id | C6in | C7g
- **Memory Optimized:** R5 | R5d | R6g | R6i | R6id | R7g | R7gd | X2idn
- **Storage Optimized:** D3 | I3 | I3en | I4i
- **Accelerated Computing:** G5 | P4de

Mexico (Central) — mx-central-1

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

- **General Purpose:** M6g | M6gd | M6i | M6id | M7g | M7gd | M7i | M7i-flex | T3 | T4g
- **Compute Optimized:** C6g | C6gn | C6i | C6id | C7g | C7i | C7i-flex

- **Memory Optimized:** R6g | R6i | R6id | R7g | R7gd | R7i
- **Storage Optimized:** I3en | I4i

Middle East (Bahrain) — me-south-1

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

- **General Purpose:** M5 | M5d | M6g | M6gd | M6i | M7g | T3 | T4g
- **Compute Optimized:** C5 | C5a | C5ad | C5d | C5n | C6g | C6gn | C6i | C6in | C7g
- **Memory Optimized:** R5 | R5d | R6g | R6i | R7g | X2idn
- **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 | M7g | M7gd | M7i | T3 | T4g
- **Compute Optimized:** C5 | C5d | C6g | C6in | C7i
- **Memory Optimized:** R5 | R5d | R6g | R6i | R7g | R7gd | X2idn | X2iezn
- **Storage Optimized:** I3 | I3en | I4i
- **Accelerated Computing:** G5 | G6

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 | M7gd | M7i | M7i-flex | M8g | 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 | C7i-flex | C8g
- **Memory Optimized:** R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R7g | R7i | U-3tb1 | U-6tb1 | X1 | X1e | X2idn | X2iedn
- **Storage Optimized:** I3 | I3en | I4g | I4i

- **Accelerated Computing:** G4dn | G5 | G6 | G6f | Gr6 | Gr6f | Inf1 | Inf2 | P4d | P5 | P5e
- **Previous Generation:** C1 | C3 | C4 | M1 | M2 | M3 | M4 | R3 | R4 | T1

AWS GovCloud (US-East) — us-gov-east-1

The following instance types are available in AWS GovCloud (US-East).

- **General Purpose:** M5 | M5a | M5d | M5dn | M5n | M6g | M6gd | M6i | M7g | M7i | M7i-flex | T3 | T3a | T4g
- **Compute Optimized:** C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in | C7g | C7gd | C7i
- **Memory Optimized:** R5 | R5a | R5d | R5dn | R5n | R6g | R6gd | R6i | R7g | R7gd | R7i | U-6tb1 | X1 | X1e | X2idn | X2iedn
- **Storage Optimized:** I3 | I3en | I4i | I7ie
- **Accelerated Computing:** G4dn | G6 | Inf1 | P3dn
- **High Performance Computing:** Hpc6a

AWS GovCloud (US-West) — us-gov-west-1

The following instance types are available in AWS GovCloud (US-West).

- **General Purpose:** M5 | M5a | M5ad | M5d | M5dn | M5n | M6g | M6gd | M6i | M6id | M6idn | M6in | M7g | M7i | M7i-flex | T2 | T3 | T3a | T4g
- **Compute Optimized:** C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6id | C6in | C7g | C7gd | C7i | C7i-flex
- **Memory Optimized:** R5 | R5a | R5ad | R5d | R5dn | R5n | R6g | R6gd | R6i | R6id | R6idn | R6in | R7g | R7gd | R7i | R8g | U-3tb1 | U-6tb1 | U7in-24tb | X1 | X1e | X2idn | X2iedn
- **Storage Optimized:** D3 | I3 | I3en | I3p | I4i
- **Accelerated Computing:** F1 | G4dn | G6 | Gr6 | Inf1 | P2 | P3 | P3dn | P4d | P5 | P5en
- **High Performance Computing:** Hpc6a | Hpc6id | Hpc7a | Hpc7g
- **Previous Generation:** C4 | G3 | M4 | R4

Instances built on the AWS Nitro System

End of sale notice

The **U-9tb1**, **U-12tb1**, **U-18tb1**, and **U-24tb1** instance types are no longer available for new instance launches. If your workload requires a high-memory instance, we recommend that you use a U7i instance type instead.

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

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.

For more information, see [AWS Nitro System](#).

Network feature support

The following content summarizes key networking capabilities for each version of the Nitro System. Versions are shown in descending version release order. If you know the instance type family that your instance belongs to, you can expand the [Specifications](#) section and select your instance family. The **Platform summary** table for your instance family shows the Nitro version for your instance type in the **Hypervisor** column.

If you're not sure which instance family applies, see the [Naming conventions](#) section.

Note

Features are cumulative, meaning that newer versions of the Nitro system support the features that are listed in all prior versions, except where explicitly stated otherwise.

See the [Nitro instance requirements](#) section for the minimum ENA driver and Linux kernel versions for optimal performance of Nitro v4 and later instance types.

Nitro v6

- Traffic Mirroring is not supported.
- Up to 400 Gbps^{*} per network card.
- Remote direct memory access (RDMA) read and RDMA write are available with EFA for the following instance type: p6-b200.48xlarge.

Nitro v5

- Traffic Mirroring is not supported.
- Up to 200 Gbps^{*} per network card.
- RDMA write is available with EFA for the following instance type: p5en.48xlarge.

Nitro v4

- GPU accelerated and Trainium based instance types support up to 100 Gbps^{*} per network card for consistency. Other instance types support up to 170 Gbps^{*} per network card.
- RDMA write is available with EFA for the following instance types: p5.48xlarge, p5e.48xlarge.

- Supports ENA Express. For more information about ENA Express, including what specific instance types support it see [Improve network performance with ENA Express on your EC2 instances](#) in the *Amazon EC2 User Guide*.
- Traffic Mirroring is supported.

Nitro v3

- Up to 100 Gbps^{*} per network card.
- Supports RDMA read with EFA for p4d(e).24xlarge instances.
- Encryption in transit.
- Traffic Mirroring is supported.

Nitro v2

- Enhanced networking with Elastic Network Adapter (ENA).
- Traffic Mirroring is supported.

^{*} Your instance type might support a lower maximum bandwidth. For more information, refer to the network specifications for your instance type in the instance family pages.

Virtualized instances

The following virtualized instances are built on the Nitro System:

Nitro v6

- **General Purpose:** M8i | M8i-flex
- **Compute Optimized:** C8gn
- **Memory Optimized:** R8i | R8i-flex
- **Storage Optimized:** I8ge
- **Accelerated Computing:** P6-B200

Nitro v5

- **General Purpose:** M8g | M8gd

- **Compute Optimized:** C7gn | C8g | C8gd
- **Memory Optimized:** R8g | R8gd | X8g
- **Storage Optimized:** I7ie | I8g
- **Accelerated Computing:** P5en | P6e-GB200 | Trn2 | Trn2u
- **High Performance Computing:** Hpc7g

Nitro v4

- **General Purpose:** M6a | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i | M7i-flex
- **Compute Optimized:** C6a | C6gn | C6i | C6id | C6in | C7a | C7g | C7gd | C7i | C7i-flex
- **Memory Optimized:** R6a | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | U7i-6tb | U7i-8tb | U7i-12tb | U7in-16tb | U7in-24tb | U7in-32tb | U7inh-32tb | X2idn | X2iedn
- **Storage Optimized:** I4g | I4i | I7i | Im4gn | Is4gen
- **Accelerated Computing:** F2 | G6 | G6e | G6f | Gr6 | Gr6f | Inf2 | P5 | P5e | Trn1 | Trn1n
- **High Performance Computing:** Hpc6a | Hpc6id | Hpc7a

Nitro v3

- **General Purpose:** M5dn | M5n | M5zn
- **Compute Optimized:** C5n
- **Memory Optimized:** R5dn | R5n | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X2iezn
- **Storage Optimized:** D3 | D3en | I3en
- **Accelerated Computing:** DL1 | DL2q | G4ad | G4dn | G5 | Inf1 | P3dn | P4d | P4de | VT1

Nitro v2

- **General Purpose:** M5 | M5a | M5ad | M5d | M6g | M6gd | T3 | T3a | T4g | A1
- **Compute Optimized:** C5 | C5a | C5ad | C5d | C6g | C6gd
- **Memory Optimized:** R5 | R5a | R5ad | R5b | R5d | R6g | R6gd | X2gd | z1d
- **Accelerated Computing:** G5g
- **Previous Generation:** A1

Bare metal instances

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

Nitro v6

- **General Purpose:** M8i
- **Compute Optimized:** C8gn
- **Memory Optimized:** R8i
- **Storage Optimized:** I8ge

Nitro v5

- **General Purpose:** M8g | M8gd | Mac-m4 | Mac-m4pro
- **Compute Optimized:** C7gn | C8g | C8gd
- **Memory Optimized:** R8g | R8gd | X8g
- **Storage Optimized:** I7ie | I8g

Nitro v4

- **General Purpose:** M6a | M6i | M6id | M6idn | M6in | M7a | M7g | M7gd | M7i
- **Compute Optimized:** C6a | C6i | C6id | C6in | C7a | C7g | C7gd | C7i
- **Memory Optimized:** R6a | R6i | R6id | R6idn | R6in | R7a | R7g | R7gd | R7i | R7iz | X2idn | X2iedn
- **Storage Optimized:** I4i | I7i

Nitro v3

- **General Purpose:** M5dn | M5n | M5zn
- **Compute Optimized:** C5n
- **Memory Optimized:** R5dn | R5n | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X2iezn
- **Storage Optimized:** I3en
- **Accelerated Computing:** G4dn

Nitro v2

- **General Purpose:** M5 | M5d | M6g | M6gd | Mac1 | Mac2 | Mac2-m1ultra | Mac2-m2 | Mac2-m2pro | A1
- **Compute Optimized:** C5 | C5d | C6g | C6gd
- **Memory Optimized:** R5 | R5b | R5d | R6g | R6gd | X2gd | z1d
- **Storage Optimized:** I3
- **Accelerated Computing:** G5g
- **Previous Generation:** A1

In most cases, when you launch a bare metal instance, the underlying server goes through its boot process, during which it verifies all hardware and firmware components. This means that it can take up to 20 minutes or more from the time the instance enters the running state until it becomes available over the network.

Nitro instance requirements

Instances built on the AWS Nitro System use ENA for enhanced networking, and storage volumes exposed as NVMe block devices. For more information about NVMe drivers, see [Install or upgrade the NVMe driver in the Amazon EBS User Guide](#) for Linux instances, or [AWS NVMe drivers for Windows instances](#) in the [Amazon EC2 User Guide](#). For more information about ENA drivers, see [Requirements for enhanced networking with ENA](#) in the [Amazon EC2 User Guide](#).

The following tabs show details about which driver or kernel versions are recommended for your operating system.

Linux

The ENA Linux kernel driver version 2.2.9g or later, from the Amazon Drivers GitHub repository is recommended for Nitro v4 instance types and required for Nitro v5 (or later) instance types for Linux distributions that expose the version information. ENA drivers for Linux are available on GitHub. For more information, see [Linux kernel driver for Elastic Network Adapter \(ENA\) family](#). For release notes, see [ENA Linux Kernel Driver Release notes](#).

Linux distributions can also incorporate ENA driver features within the kernel. However, the timing may vary for implementation within the different distributions. The Amazon Linux 2023

and Bottlerocket Linux distributions support ENA features for Nitro v4 and newer instance types by default.

Some Linux distributions might require a minimum kernel version to prevent suboptimal performance of ENA driver features on Nitro v4 and newer instance types. If your Linux distribution appears in the following table, you can verify the kernel version for your instance with the **uname** command as follows:

```
uname -r
```

| Linux distribution | Minimum kernel version |
|-------------------------------------|--|
| Linux upstream | Kernel version 5.9 |
| Amazon Linux 2 | Kernel 4.14.186 |
| Red Hat Enterprise Linux (RHEL) | RHEL 8.3 kernel 4.18.0-240.1.1.el8_3.ARCH |
| SUSE Linux Enterprise Server (SLES) | <ul style="list-style-type: none">• SLE 12 SP4 kernel 4.12.14-95.99.3• SLE 12 SP5 kernel 4.12.14-122.116.1• SLE 15 kernel 4.12.14-150000.150.92.2• SLE 15 SP1 kernel 4.12.14-150100.197 .114.2• SLE 15 SP2 kernel 5.3.18-24.15.1 |
| Linux Ubuntu | 20.04 kernel 5.4.0-1025-aws |
| Debian | 11 (Bullseye) kernel 5.10.0 |
| DPDK | v20.11 |

Note

The following ENA Linux driver versions are not supported, and will result in elastic network interface attachment failures:

- ENA Linux
 - Nitro v5 – Earlier than 2.2.9
 - All Nitro versions prior to v5 – Earlier than v1.2.0
- ENA DPDK
 - Nitro v5 – Earlier than 20.11
 - All Nitro versions prior to v5 – Earlier than v1.1.1

Windows

ENA Windows driver version: 2.2.3 or later for Windows instances.

Note

The following ENA Windows drivers are not supported:

- ENA Windows: v2.2.0 or earlier

All of the current AWS Windows AMIs meet these requirements. For more information about AMI versions and release notes, see the [AWS Windows AMI reference](#).

FreeBSD

ENA FreeBSD driver version: 2.3.1 or later for FreeBSD instances.

Note

ENA FreeBSD driver versions earlier than v2.3.1 are not supported, and will result in elastic network interface attachment failures.

Linux instances with AWS Graviton processors

Linux instances with AWS Graviton processors have the following additional requirements:

- An AMI with 64-bit ARM architecture.
- Support for UEFI boot with ACPI tables and ACPI hot-plug of PCI devices.

 **Note**

AWS Graviton processors only support Linux operating systems.

Amazon EC2 instance type quotas

Your AWS account has quotas that affect the number of instances that you can run in each Region. These quotas are grouped by purchasing option.

Quotas

- [On-Demand Instance quotas](#)
- [Spot Instance quotas](#)
- [Dedicated Host quotas](#)
- [Capacity Blocks quotas](#)

On-Demand Instance quotas

The following table shows the maximum number of vCPUs that you can provision for On-Demand Instances. Amazon EC2 automatically increases your On-Demand Instance quotas based on your usage. You can also request a quota increase. For more information, see [On-Demand Instance quotas](#) 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 | Yes |
| Running On-Demand High Memory instances | 0 | Yes |
| Running On-Demand Inf instances | 0 | Yes |
| Running On-Demand P instances | 0 | Yes |
| Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances | 5 | Yes |

| Name | Default | Adjustable |
|---------------------------------|---------|---------------------|
| Running On-Demand Trn instances | 0 | Yes |
| Running On-Demand X instances | 0 | Yes |

Spot Instance quotas

The following table shows the maximum number of vCPUs that you can provision for Spot Instances. Amazon EC2 automatically increases your Spot Instance quotas based on your usage. You can also request a quota increase. For more information, see [Spot Instance quotas](#) in the *Amazon EC2 User Guide*.

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

| Name | Default | Adjustable |
|------------------------------|---------|---------------------|
| Running Dedicated a1 Hosts | 0 | Yes |
| Running Dedicated c1 Hosts | 0 | Yes |
| Running Dedicated c3 Hosts | 0 | Yes |
| Running Dedicated c4 Hosts | 0 | Yes |
| Running Dedicated c5 Hosts | 0 | Yes |
| Running Dedicated c5a Hosts | 0 | Yes |
| Running Dedicated c5d Hosts | 0 | Yes |
| Running Dedicated c5n Hosts | 0 | Yes |
| Running Dedicated c6a Hosts | 0 | Yes |
| Running Dedicated c6g Hosts | 0 | Yes |
| Running Dedicated c6gd Hosts | 0 | Yes |
| Running Dedicated c6gn Hosts | 0 | Yes |
| Running Dedicated c6i Hosts | 0 | Yes |
| Running Dedicated c6id Hosts | 0 | Yes |
| Running Dedicated c6in Hosts | 0 | Yes |
| Running Dedicated c7a Hosts | 0 | Yes |
| Running Dedicated c7g Hosts | 0 | Yes |
| Running Dedicated c7gd Hosts | 0 | Yes |
| Running Dedicated c7gn Hosts | 0 | Yes |
| Running Dedicated c7i Hosts | 0 | Yes |

| Name | Default | Adjustable |
|----------------------------------|---------|---------------------|
| Running Dedicated c7i-flex Hosts | 0 | Yes |
| Running Dedicated c8g Hosts | 0 | Yes |
| Running Dedicated c8gd Hosts | 0 | Yes |
| Running Dedicated c8gn Hosts | 0 | Yes |
| Running Dedicated d2 Hosts | 0 | Yes |
| Running Dedicated dl1 Hosts | 0 | Yes |
| Running Dedicated f1 Hosts | 0 | Yes |
| Running Dedicated f2 Hosts | 0 | Yes |
| Running Dedicated g4ad Hosts | 0 | Yes |
| Running Dedicated g4dn Hosts | 0 | Yes |
| Running Dedicated g5 Hosts | 0 | Yes |
| Running Dedicated g5g Hosts | 0 | Yes |
| Running Dedicated g6 Hosts | 0 | Yes |
| Running Dedicated g6e Hosts | 0 | Yes |
| Running Dedicated g6f Hosts | 0 | Yes |
| Running Dedicated gr6 Hosts | 0 | Yes |
| Running Dedicated h1 Hosts | 0 | Yes |
| Running Dedicated i2 Hosts | 0 | Yes |
| Running Dedicated i3 Hosts | 0 | Yes |
| Running Dedicated i3en Hosts | 0 | Yes |

| Name | Default | Adjustable |
|--------------------------------|---------|---------------------|
| Running Dedicated i4g Hosts | 0 | Yes |
| Running Dedicated i4i Hosts | 0 | Yes |
| Running Dedicated i7i Hosts | 0 | Yes |
| Running Dedicated i7ie Hosts | 0 | Yes |
| Running Dedicated i8g Hosts | 0 | Yes |
| Running Dedicated i8ge Hosts | 0 | Yes |
| Running Dedicated im4gn Hosts | 0 | Yes |
| Running Dedicated inf Hosts | 0 | Yes |
| Running Dedicated inf2 Hosts | 0 | Yes |
| Running Dedicated is4gen Hosts | 0 | Yes |
| Running Dedicated m1 Hosts | 0 | Yes |
| Running Dedicated m2 Hosts | 0 | Yes |
| Running Dedicated m3 Hosts | 0 | Yes |
| Running Dedicated m4 Hosts | 0 | Yes |
| Running Dedicated m5 Hosts | 0 | Yes |
| Running Dedicated m5a Hosts | 0 | Yes |
| Running Dedicated m5ad Hosts | 0 | Yes |
| Running Dedicated m5d Hosts | 0 | Yes |
| Running Dedicated m5dn Hosts | 0 | Yes |
| Running Dedicated m5n Hosts | 0 | Yes |

| Name | Default | Adjustable |
|--------------------------------------|---------|---------------------|
| Running Dedicated m5zn Hosts | 0 | Yes |
| Running Dedicated m6a Hosts | 0 | Yes |
| Running Dedicated m6g Hosts | 0 | Yes |
| Running Dedicated m6gd Hosts | 0 | Yes |
| Running Dedicated m6i Hosts | 0 | Yes |
| Running Dedicated m6id Hosts | 0 | Yes |
| Running Dedicated m6idn Hosts | 0 | Yes |
| Running Dedicated m6in Hosts | 0 | Yes |
| Running Dedicated m7a Hosts | 0 | Yes |
| Running Dedicated m7g Hosts | 0 | Yes |
| Running Dedicated m7gd Hosts | 0 | Yes |
| Running Dedicated m7i Hosts | 0 | Yes |
| Running Dedicated m8g Hosts | 0 | Yes |
| Running Dedicated m8gd Hosts | 0 | Yes |
| Running Dedicated m8i Hosts | 0 | Yes |
| Running Dedicated mac-m4 Hosts | 0 | Yes |
| Running Dedicated mac-m4pro Hosts | 0 | Yes |
| Running Dedicated mac1 Hosts | 0 | Yes |
| Running Dedicated mac2 Hosts | 0 | Yes |
| Running Dedicated mac2-m1ultra Hosts | 0 | Yes |

| Name | Default | Adjustable |
|------------------------------------|---------|---------------------|
| Running Dedicated mac2-m2 Hosts | 0 | Yes |
| Running Dedicated mac2-m2pro Hosts | 0 | Yes |
| Running Dedicated p3 Hosts | 0 | Yes |
| Running Dedicated p3dn Hosts | 0 | Yes |
| Running Dedicated p4d Hosts | 0 | Yes |
| Running Dedicated p4de Hosts | 0 | Yes |
| Running Dedicated p5 Hosts | 0 | Yes |
| Running Dedicated p5en Hosts | 0 | Yes |
| Running Dedicated r3 Hosts | 0 | Yes |
| Running Dedicated r4 Hosts | 0 | Yes |
| Running Dedicated r5 Hosts | 0 | Yes |
| Running Dedicated r5a Hosts | 0 | Yes |
| Running Dedicated r5ad Hosts | 0 | Yes |
| Running Dedicated r5b Hosts | 0 | Yes |
| Running Dedicated r5d Hosts | 0 | Yes |
| Running Dedicated r5dn Hosts | 0 | Yes |
| Running Dedicated r5n Hosts | 0 | Yes |
| Running Dedicated r6a Hosts | 0 | Yes |
| Running Dedicated r6g Hosts | 0 | Yes |
| Running Dedicated r6gd Hosts | 0 | Yes |

| Name | Default | Adjustable |
|----------------------------------|---------|---------------------|
| Running Dedicated r6i Hosts | 0 | Yes |
| Running Dedicated r6id Hosts | 0 | Yes |
| Running Dedicated r6idn Hosts | 0 | Yes |
| Running Dedicated r6in Hosts | 0 | Yes |
| Running Dedicated r7a Hosts | 0 | Yes |
| Running Dedicated r7g Hosts | 0 | Yes |
| Running Dedicated r7gd Hosts | 0 | Yes |
| Running Dedicated r7i Hosts | 0 | Yes |
| Running Dedicated r7iz Hosts | 0 | Yes |
| Running Dedicated r8g Hosts | 0 | Yes |
| Running Dedicated r8gd Hosts | 0 | Yes |
| Running Dedicated r8i Hosts | 0 | Yes |
| Running Dedicated r8i-flex Hosts | 0 | Yes |
| Running Dedicated t1 Hosts | 0 | Yes |
| Running Dedicated t2 Hosts | 0 | Yes |
| Running Dedicated t3 Hosts | 0 | Yes |
| Running Dedicated trn1 Hosts | 0 | Yes |
| Running Dedicated trn1n Hosts | 0 | Yes |
| Running Dedicated u-3tb1 Hosts | 0 | Yes |
| Running Dedicated u-6tb1 Hosts | 0 | Yes |

| Name | Default | Adjustable |
|-----------------------------------|---------|---------------------|
| Running Dedicated u7i-12tb Hosts | 0 | Yes |
| Running Dedicated u7i-6tb Hosts | 0 | Yes |
| Running Dedicated u7i-8tb Hosts | 0 | Yes |
| Running Dedicated u7in-16tb Hosts | 0 | Yes |
| Running Dedicated u7in-24tb Hosts | 0 | Yes |
| Running Dedicated u7in-32tb Hosts | 0 | Yes |
| Running Dedicated vt1 Hosts | 0 | Yes |
| Running Dedicated x1 Hosts | 0 | Yes |
| Running Dedicated x1e Hosts | 0 | Yes |
| Running Dedicated x2gd Hosts | 0 | Yes |
| Running Dedicated x2idn Hosts | 0 | Yes |
| Running Dedicated x2iedn Hosts | 0 | Yes |
| Running Dedicated x2iezn Hosts | 0 | Yes |
| Running Dedicated x8g Hosts | 0 | Yes |
| Running Dedicated z1d Hosts | 0 | Yes |

Capacity Blocks quotas

The following table shows the maximum number of vCPUs for concurrently active Capacity Blocks.

| Name | Default | Adjustable |
|--|---------|---------------------|
| Concurrent P4d Capacity Blocks per account | 0 | Yes |

| Name | Default | Adjustable |
|--|---------|---------------------|
| Concurrent P4d Capacity Blocks per organization | 0 | Yes |
| Concurrent P5 Capacity Blocks per account | 0 | Yes |
| Concurrent P5 Capacity Blocks per organization | 0 | Yes |
| Concurrent P5e Capacity Blocks per account | 0 | Yes |
| Concurrent P5e Capacity Blocks per organization | 0 | Yes |
| Concurrent P5en Capacity Blocks per account | 0 | Yes |
| Concurrent P5en Capacity Blocks per organization | 0 | Yes |
| Concurrent Trn1 Capacity Blocks per account | 0 | Yes |
| Concurrent Trn1 Capacity Blocks per organization | 0 | Yes |
| Concurrent Trn2 Capacity Blocks per account | 0 | Yes |
| Concurrent Trn2 Capacity Blocks per organization | 0 | Yes |

Document history for the Amazon EC2 Instance Types Guide

The following table describes the instance type releases for Amazon EC2.

| Change | Description | Date |
|---|--|--------------------|
| <u>M4 Pro Mac instances</u> | New general purpose Mac instances built on 2024 Mac mini hardware powered by Apple silicon M4 Pro processors, 14 CPU cores, 20 GPU cores, 48 GiB of memory, and the 16-core Apple Neural Engine. | September 11, 2025 |
| <u>M4 Mac instances</u> | New general purpose Mac instances built on 2024 Mac mini hardware powered by Apple silicon M4 processors, 10 CPU cores, 10 GPU cores, 24 GiB of memory, and the 16-core Apple Neural Engine. | September 11, 2025 |
| <u>I8ge instances</u> | New storage optimized instance family based on the latest third generation AWS Nitro SSDs and AWS Graviton4 Processor. I8ge offers up to 192 vCPUs, 1536 GB memory, and up to 120TB storage. I8ge instances are optimized for storage intensive workloads such as NoSQL databases, distributed | August 29, 2025 |

file systems, search engines, and data analytics.

M8i-flex instances

New general purpose Flex instances that feature custom sixth generation Intel Xeon Scalable Processors (Granite Rapids). Flex instances 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.

M8i instances

New general purpose instance types that feature custom sixth generation Intel Xeon Scalable Processors (Granite Rapids).

R8i-flex instances

New memory optimized Flex instances that feature custom sixth generation Intel Xeon Scalable Processors (Granite Rapids) and up to 512 GiB of memory. Flex instances 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.

| | | |
|---|---|-----------------|
| <u>R8i instances</u> | New memory optimized instance types that feature custom sixth generation Intel Xeon Scalable Processors (Granite Rapids) and up to 3 TiB of memory. | August 19, 2025 |
| <u>P5 instance new size</u> | New p5.4xlarge instance type enables smaller size with one GPU. | August 12, 2025 |
| <u>G6f, Gr6f instances</u> | New G6f and Gr6f instance types can lower GPU computing costs by offering fractional GPU profiles that better match your workload requirements, making GPU-accelerated workstations and graphics applications more cost-effective for use cases that don't require full GPU capacity. | July 29, 2025 |
| <u>P6e-GB200 instances</u> | New GPU instances featuring NVIDIA GB200 superchip s for the highest available GPU-based AI training and inference performance. | July 10, 2025 |
| <u>C8gn instances</u> | New compute optimized instances types powered by AWS Graviton4 processors, and that support up to to 600 Gbps networking. | June 30, 2025 |

| | | |
|--|--|----------------|
| <u>U-9tb1, U-12tb1, U-18tb1, and U-24tb1 end of sale</u> | The U-9tb1, U-12tb1, U-18tb1, and U-24tb1 instance types are no longer available for new instance launches. If your workload requires a high-memory instance, we recommend that you use a U7i instance type instead. | June 20, 2025 |
| <u>P6-B200 instances</u> | New GPU instances featuring NVIDIA B200 GPUs for large scale ML Training/inference and HPC. | May 15, 2025 |
| <u>I7i instances</u> | New storage optimized virtualized and bare metal instance types that feature Intel Emerald Rapids processors and third generation AWS Nitro SSD-based instance storage. | April 25, 2025 |
| <u>M8gd, C8gd, R8gd instances</u> | New general purpose (M8gd), compute optimized (C8gd), and memory optimized (R8gd) virtualized and bare metal instances powered by AWS Graviton4 processors, and that feature NVMe SSD instance storage. | April 21, 2025 |

| | | |
|---|---|-------------------|
| <u>i7ie bare metal instances</u> | New i7ie.metal-24x1 and i7ie.metal-48x1 bare metal instance types that feature the 5th generation Intel Xeon Scalable processors (Emerald Rapids), and the 3rd generation AWS Nitro SSDs. | April 10, 2025 |
| <u>GovCloud now supports R8g</u> | The GovCloud Regions now support the R8g instance type. | March 31, 2025 |
| <u>GovCloud now supports R8g</u> | The GovCloud Regions now support the R8g instance type. | March 31, 2025 |
| <u>New F2 instance type</u> | F2 is now available in the following instance size: 6xlarge. | February 5, 2025 |
| <u>New C7i-flex and M7i-flex instance types</u> | C7i-flex and M7i-flex are now available in 12xlarge and 16xlarge instance sizes. | January 16, 2025 |
| <u>U7inh-32tb instances</u> | New high memory instance types that feature 1,920 vCPUs of 4th generation Intel Xeon Scalable Processors (Sapphire Rapids) with 32 TiB of memory. | December 16, 2024 |

| | | |
|---------------------------------------|--|-------------------|
| <u>F2 instances</u> | New accelerated computing instance type for the latest generation FPGA instances that feature AMD-Xilinx VU47P HBM FPGA accelerators for genomics and multimedia processing. | December 11, 2024 |
| <u>U7i-6tb, and U7i-8tb instances</u> | New high memory instance types that feature 4th generation Intel Xeon Scalable processors. | December 9, 2024 |
| <u>Trn2 instances</u> | New accelerated instance types that feature up to 16x Trainium2 chips and deliver up to 4 times faster performance than Trn1 instances. | December 3, 2024 |
| <u>P5en instances</u> | GPU instances featuring NVIDIA H200 GPUs for large scale ML Training/inference and HPC. | December 2, 2024 |
| <u>I8g instances</u> | New storage optimized instances powered by AWS Graviton4 processors. | December 1, 2024 |
| <u>I7ie instances</u> | New storage optimized instances that feature the 5th generation Intel Xeon Scalable processors (Emerald Rapids), and the 3rd generation AWS Nitro SSDs. | December 1, 2024 |

| | | |
|---|---|--------------------|
| <u>M8g instances</u> | New general purpose instances powered by AWS Graviton4 processors. | September 25, 2024 |
| <u>C8g instances</u> | New compute optimized instances powered by AWS Graviton4 processors. | September 25, 2024 |
| <u>X8g instances</u> | New memory optimized instances powered by AWS Graviton4 processors. | September 18, 2024 |
| <u>P5e instances</u> | New accelerated computing instance type for the latest generation GPU instances featuring NVIDIA H200 GPUs for large scale ML Training/inference and HPC. | September 9, 2024 |
| <u>G6e instances</u> | New accelerated computing instances that feature up to 8 NVIDIA L40S GPUs, which offer 48 GB of GPU memory. | August 15, 2024 |
| <u>Nitro version features</u> | Updated Nitro page to include features and instance types by Nitro version. Added Nitro version to the Hypervisor column in the Platform summary tables also. | July 22, 2024 |
| <u>R8g instances</u> | New memory optimized instances powered by AWS Graviton4 processors and up to 1.5 TiB memory. | July 9, 2024 |

| | | |
|--|---|----------------|
| <u>Mac2-m1ultra instances</u> | New general purpose instance type that features Apple M1 Ultra processors. | June 17, 2024 |
| <u>U7i-12tb, U7in-16tb, U7in-24tb, and U7in-32tb instances</u> | New high memory instance types that feature 4th generation Intel Xeon Scalable processors. | May 28, 2024 |
| <u>C7i-flex instances</u> | New compute optimized instances featuring Intel Xeon Scalable processors (Sapphire Rapids). 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. | May 14, 2024 |
| <u>G6 and Gr6 instances</u> | New high performance GPU-based instance types for deep learning inference and graphics-intensive applications. | April 4, 2024 |
| <u>C7gn bare metal instances</u> | New c7gn.metal bare metal instance type powered by the latest generation AWS Graviton3E processors and the new AWS Nitro cards. | March 26, 2024 |
| <u>C7gd, M7gd, and R7gd bare metal instances</u> | New bare metal instances. | 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 |
| <u>Mac2-m2 instances</u> | New general purpose instance type that features Apple M2 processors. | October 25, 2023 |
| <u>R7i instances</u> | 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 |
| <u>Mac2-m2pro instances</u> | New general purpose instance type that features Apple M2 Pro processors. | September 18, 2023 |
| <u>C7i instances</u> | New compute optimized instance types that feature 4th generation Intel Xeon Scalable processors. | September 14, 2023 |

| | | |
|---|--|--------------------|
| <u>R7a instances</u> | New memory optimized instance types featuring 4th generation AMD EPYC 9R14 processors and up to 1536 GiB of system memory. | September 11, 2023 |
| <u>R7iz instances</u> | New high-frequency and high memory instances powered by 4th generation Intel Xeon processors. | September 7, 2023 |
| <u>Hpc7a instances</u> | 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 |
| <u>M7a instances</u> | New general purpose instances powered by 4th generation AMD EPYC processors. | August 15, 2023 |
| <u>M7i-flex instances</u> | 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 |

| | | |
|--|---|----------------|
| <u>M7i instances</u> | New general purpose instance types that feature 4th generation Intel Xeon Scalable processors. | August 2, 2023 |
| <u>R7gd instances</u> | New memory optimized instances featuring the latest AWS Graviton3 processors. | July 28, 2023 |
| <u>M7gd instances</u> | New general purpose instances featuring the latest AWS Graviton3 processors. | July 28, 2023 |
| <u>C7gd instances</u> | New compute optimized instances featuring the latest AWS Graviton3 processors. | July 28, 2023 |
| <u>P5 instances</u> | 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 |
| <u>Hpc7g instances</u> | New high-performance computing instances powered by AWS Graviton3E processors that provide up to 35 percent higher vector-instruction processing performance than Graviton3 processors. | June 20, 2023 |

| | | |
|---|---|-------------------|
| <u>C7gn instances</u> | 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>I4g instances</u> | New storage optimized instances that features the AWS Graviton2 processor and AWS Nitro SSDs. | May 9, 2023 |
| <u>Trn1n instances</u> | New accelerated computing instances optimized for machine learning training powered by AWS Trainium accelerators. | April 13, 2023 |
| <u>Inf2 instances</u> | New instances featuring AWS Inferentia2 accelerators, the latest machine learning chip designed by AWS. | April 13, 2023 |
| <u>M7g and R7g instances</u> | New instances featuring AWS Graviton3 processors. | February 12, 2023 |
| <u>Hpc6id instance</u> | New memory optimized instance featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | November 29, 2022 |
| <u>R6in and R6idn instances</u> | New memory optimized instances for network-intensive workloads. | November 28, 2022 |
| <u>M6in and M6idn instances</u> | New general computing instances types. | November 28, 2022 |

| | | |
|---------------------------------------|---|-------------------|
| <u>C6in instances</u> | 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 |
| <u>R6a instances</u> | New memory optimized instances featuring 3rd generation AMD EPYC processors. | July 19, 2022 |
| <u>R6id instances</u> | New memory optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | June 9, 2022 |
| <u>P4de instances</u> | New accelerated computing instances featuring 640GB of GPU memory. | May 26, 2022 |
| <u>M6id instances</u> | New general purpose instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | May 26, 2022 |
| <u>C6id instances</u> | New compute optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake). | May 26, 2022 |
| <u>C7g instances</u> | 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 |
| <u>X2idn and X2iedn instances</u> | New memory optimized instances featuring Intel Xeon Scalable processors (Ice Lake). | March 10, 2022 |
| <u>C6a instances</u> | New compute optimized instances featuring 3rd generation AMD EPYC processors (Milan). | February 14, 2022 |
| <u>X2iezn instances</u> | New memory optimized instances featuring Intel Xeon Platinum processors (Cascade Lake). | January 26, 2022 |
| <u>Hpc6a instances</u> | New compute optimized instances featuring AMD EPYC processors. | January 10, 2022 |
| <u>Im4gn and Is4gen instances</u> | New storage optimized instances. | November 30, 2021 |
| <u>M6a instances</u> | New general purpose instances powered by AMD 3rd Generation EPYC processors. | November 29, 2021 |
| <u>G5g instances</u> | New accelerated computing instances featuring AWS Graviton2 processors based on 64-bit Arm architecture. | November 29, 2021 |
| <u>R6i instances</u> | New memory optimized instances. | November 22, 2021 |

G5 instances

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

DL1 instances

New accelerated computing instances featuring Habana Gaudi accelerators and Intel Xeon Platinum processors (Cascade Lake).

October 26, 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-6tb1.112xlarge, and u-12tb1.112xlarge.

May 11, 2021

| | | |
|--|--|-------------------|
| <u>X2gd instances</u> | New memory optimized instances featuring an AWS Graviton2 processor based on 64-bit Arm architecture. | March 16, 2021 |
| <u>C6gn instances</u> | 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 |
| <u>G4ad instances</u> | New instances powered by AMD Radeon Pro V520 GPUs and AMD 2nd Generation EPYC processors. | December 9, 2020 |
| <u>D3, D3en, M5zn, and R5b instances</u> | New instance types built on the Nitro System. | December 1, 2020 |
| <u>Mac1 instances</u> | New instances built on Apple Mac mini computers that support running macOS workloads on Amazon EC2. | November 30, 2020 |
| <u>P4d instances</u> | New accelerated computing instances that provide a high-performance platform for machine learning and HPC workloads. | November 2, 2020 |

| | | |
|---|--|--------------------|
| <u>T4g instances</u> | 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. | September 14, 2020 |
| <u>C5ad instances</u> | New compute optimized instances featuring second-generation AMD EPYC processors. | August 13, 2020 |
| <u>C6gd, M6gd, and R6gd instances</u> | 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 |
| <u>C6g and R6g instances</u> | 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 |
| <u>C5a instances</u> | New compute optimized instances featuring second-generation AMD EPYC processors. | June 4, 2020 |

| | | |
|---|--|--------------------|
| <u>M6g instances</u> | 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 |
| <u>Inf1 instances</u> | New instances featuring AWS Inferentia, a machine learning inference chip designed to deliver high performance at a low cost. | December 3, 2019 |
| <u>M5dn, M5n, R5dn, and R5n instances</u> | New instances featuring 100 Gbps of network bandwidth. | October 9, 2019 |
| <u>G4dn instances</u> | 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 |
| <u>T3a instances</u> | New instances featuring AMD EPYC processors. | April 24, 2019 |
| <u>M5ad and R5ad instances</u> | New instances featuring AMD EPYC processors. | March 27, 2019 |
| <u>p3dn.24xlarge instances</u> | New instances that provide 100 Gbps of network bandwidth. | December 7, 2018 |
| <u>C5n instances</u> | New instances that provide up to 100 Gbps of network bandwidth. | November 26, 2018 |

| | | |
|---|---|-------------------|
| <u>A1 instances</u> | New instances featuring Arm-based processors. | November 26, 2018 |
| <u>R5a instances</u> | New instances featuring AMD EPYC processors. | November 6, 2018 |
| <u>M5a instances</u> | New instances featuring AMD EPYC processors. | November 6, 2018 |
| <u>T3 instances</u> | New instances featuring AMD EPYC processors. | August 21, 2018 |
| <u>z1d instances</u> | New memory optimized instances. | July 25, 2018 |
| <u>R5 and R5d instances</u> | New memory optimized instances. | July 25, 2018 |
| <u>M5d instances</u> | New compute optimized instances. | June 4, 2018 |
| <u>C5d instances</u> | New compute optimized instances. | May 17, 2018 |
| <u>X1e instances</u> | New memory optimized instances. | November 28, 2017 |
| <u>M5 instances</u> | New general purpose instances. | November 28, 2017 |
| <u>H1 instances</u> | New storage optimized instances. | November 28, 2017 |
| <u>C5 instances</u> | New compute optimized instances. | November 6, 2017 |
| <u>P3 instances</u> | New accelerated computing instances. | October 25, 2017 |

| | | |
|-------------------------------------|--------------------------------------|--------------------|
| <u>G3 instances</u> | New accelerated computing instances. | July 13, 2017 |
| <u>F1 instances</u> | New accelerated computing instances. | April 19, 2017 |
| <u>I3 instances</u> | New storage optimized instances. | February 23, 2017 |
| <u>R4 instances</u> | New memory optimized instances. | November 30, 2016 |
| <u>P2 instances</u> | New accelerated computing instances. | September 29, 2016 |
| <u>X1 instances</u> | New memory optimized instances. | May 18, 2016 |
| <u>M4 instances</u> | New general purpose instances. | June 11, 2015 |
| <u>D2 instances</u> | New storage optimized instances. | March 24, 2015 |
| <u>C4 instances</u> | New compute optimized instances. | January 11, 2015 |
| <u>T2 instances</u> | New general purpose instances. | June 30, 2014 |