

Instance Types

Amazon EC2



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Amazon EC2: Instance Types

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Amazon EC2 instance types

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

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

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

Contents

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

Current generation instances

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

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

- Compute optimized: C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i | C6id | C6in | C7a | C7g | C7gd | C7gn | C7i
- Memory optimized: R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X1 | X2gd | X2idn | X2iedn | X2iezn | X1e | z1d
- Storage optimized: D2 | D3 | D3en | H1 | I3 | I3en | I4q | I4i | Im4qn | Is4qen
- Accelerated computing: DL1 | DL2q | F1 | G3 | G4ad | G4dn | G5 | G5g | Inf1 | Inf2 | P2 | P3 | P3dn
 | P4d | P4de | P5 | Trn1 | Trn1n | VT1
- High-performance computing: Hpc6a | Hpc6id | Hpc7a | Hpc7g

Previous generation instances

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

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

• Compute optimized: C1 | C3 | C4

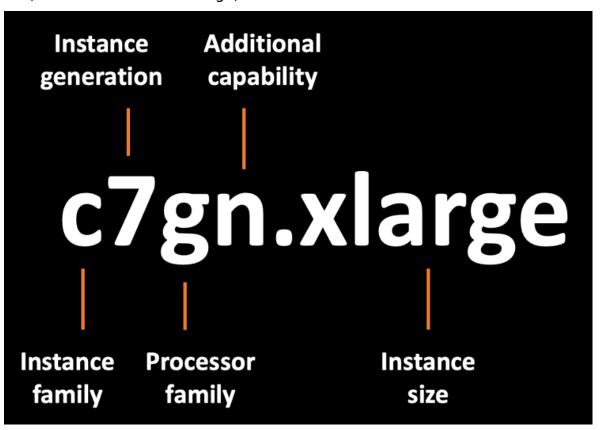
• Memory optimized: R3 | R4

• Storage optimized: 12

Accelerated computing:

Amazon EC2 instance type naming conventions

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



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

Instance families	Processor families	Additional capabilities
 Hpc – High performance computing 		 n – Network and EBS optimized
 I – Storage optimized 		• q – Qualcomm inference
 Im – Storage optimized (1 to 4 ratio of vCPU to memory) 		z – High performance
 Is – Storage optimized (1 to 6 ratio of vCPU to memory) 		
• 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		

Amazon EC2 instance type specifications

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

We group EC2 instance into the following categories:

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

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

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

Contents

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

General purpose instances

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

Contents

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

General purpose 6

Available sizes

Instance type	Available sizes
M5	<pre>m5.large m5.xlarge m5.2xlarge m5.4xlarge m5.8xlarge m5.12xlarge m5.16xlarge m5.24xlarge m5.metal</pre>
M5a	m5a.large m5a.xlarge m5a.2xlarge m5a.4xlarge m5a.8xlar ge m5a.12xlarge m5a.16xlarge m5a.24xlarge
M5ad	<pre>m5ad.large m5ad.xlarge m5ad.2xlarge m5ad.4xlarge m5ad.8xlarge m5ad.12xlarge m5ad.16xlarge m5ad.24xlarge</pre>
M5d	m5d.large m5d.xlarge m5d.2xlarge m5d.4xlarge m5d.8xlar ge 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.8xlar ge 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.8xlar ge m6a.12xlarge m6a.16xlarge m6a.24xlarge m6a.32xlarge m6a.48xlarge m6a.metal
M6g	<pre>m6g.medium m6g.large m6g.xlarge m6g.2xlarge m6g.4xlarge m6g.8xlarge m6g.12xlarge m6g.16xlarge m6g.metal</pre>
M6gd	<pre>m6gd.medium m6gd.large m6gd.xlarge m6gd.2xlarge m6gd.4xlarge m6gd.8xlarge m6gd.12xlarge m6gd.16xlarge m6gd.metal</pre>

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

Available sizes 8

Instance type	Available sizes
Mac2	mac2.metal
Mac2-m2	mac2-m2.metal
Mac2- m2pro	mac2-m2pro.metal
T2	t2.nano t2.micro t2.small t2.medium t2.large t2.xlarge t2.2xlarge
Т3	t3.nano t3.micro t3.small t3.medium t3.large t3.xlarge 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

Platform summary

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

Platform summary

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

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

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

Performance specifications

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			ľ	45				
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	✓
			M	15a				
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	✓
m5a.8xlarge ¹	7.5 / 10.0	X	✓	x	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6		
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	✓		
			М	5ad						
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	5.0 / 10.0	X	✓	X	1	8	30	✓		
m5ad.8xlarge 1	7.5 / 10.0	X	✓	X	1	8	30	✓		
m5ad.12xl arge	10 Gigabit	X	✓	X	1	8	30	✓		
m5ad.16xl arge	12 Gigabit	X	✓	X	1	15	50	✓		
m5ad.24xl arge	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 interface s per network card	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	✓
			М	5dn				
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.12xl arge	50 Gigabit	X	✓	X	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
m5dn.16xl arge	75 Gigabit	X	✓	X	1	15	50	✓
m5dn.24xl arge	100 Gigabit	✓	✓	X	1	15	50	✓
m5dn.metal	100 Gigabit	✓	✓	X	1	15	50	✓
			M	15n				
m5n.large ¹	2.1 / 25.0	X	✓	X	1	3	10	✓
m5n.xlarge ¹	4.1 / 25.0	X	✓	X	1	4	15	✓
m5n.2xlarge ¹	8.125 / 25.0	X	✓	X	1	4	15	✓
m5n.4xlarge ¹	16.25 / 25.0	X	✓	x	1	8	30	✓
m5n.8xlarge	25 Gigabit	X	✓	X	1	8	30	✓
m5n.12xlarge	50 Gigabit	X	✓	X	1	8	30	✓
m5n.16xlarge	75 Gigabit	X	✓	X	1	15	50	✓
m5n.24xlarge	100 Gigabit	✓	✓	X	1	15	50	✓
m5n.metal	100 Gigabit	✓	✓	x	1	15	50	✓
			М	5zn				
m5zn.large ¹	3.0 / 25.0	X	✓	X	1	3	10	✓
m5zn.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 interface s per network card	IP addresses per interface	IPv6
m5zn.2xlarge 1	10.0 / 25.0	X	✓	X	1	4	15	✓
m5zn.3xlarge	15.0 / 25.0	X	✓	x	1	8	30	✓
m5zn.6xlarge	50 Gigabit	X	✓	X	1	8	30	✓
m5zn.12xl arge	100 Gigabit	✓	✓	x	1	15	50	✓
m5zn.metal	100 Gigabit	✓	✓	X	1	15	50	✓
			M	16a				
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	✓	X	1	8	30	✓
m6a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓
m6a.24xlarge	37.5 Gigabit	X	✓	X	1	15	50	✓
m6a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓
m6a.48xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
m6a.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			M	16g				
m6g.medium 1	0.5 / 10.0	X	✓	X	1	2	4	✓
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	✓
			М	6gd				
m6gd.medi um 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	2.5 / 10.0	X	✓	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
m6gd.4xlarge	5.0 / 10.0	X	✓	X	1	8	30	✓
m6gd.8xlarge	12 Gigabit	X	✓	x	1	8	30	✓
m6gd.12xl arge	20 Gigabit	X	✓	X	1	8	30	✓
m6gd.16xl arge	25 Gigabit	X	✓	X	1	15	50	✓
m6gd.metal	25 Gigabit	X	✓	X	1	15	50	✓
			M	16i				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			М	6id				
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	✓
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	✓
			M	5idn				
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	12.5 / 40.0	X	✓	X	1	4	15	✓
m6idn.4xlarge	25.0 / 50.0	X	✓	X	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
m6idn.8xlarge	50 Gigabit	X	✓	X	1	8	30	✓
m6idn.12x large	75 Gigabit	X	✓	X	1	8	30	✓
m6idn.16x large	100 Gigabit	X	✓	X	1	15	50	✓
m6idn.24x large	150 Gigabit	X	✓	X	1	15	50	✓
m6idn.32x large	200 Gigabit	✓	✓	X	2	14	50	✓
m6idn.metal	200 Gigabit	✓	✓	X	2	14	50	✓
			М	6in				
m6in.large ¹	3.125 / 25.0	X	✓	X	1	3	10	✓
m6in.xlarge ¹	6.25 / 30.0	X	✓	X	1	4	15	✓
m6in.2xlarge ¹	12.5 / 40.0	X	✓	X	1	4	15	✓
m6in.4xlarge ¹	25.0 / 50.0	X	✓	X	1	8	30	✓
m6in.8xlarge	50 Gigabit	X	✓	X	1	8	30	✓
m6in.12xlarge	75 Gigabit	X	✓	x	1	8	30	✓
m6in.16xlarge	100 Gigabit	X	✓	X	1	15	50	✓
m6in.24xlarge	150 Gigabit	X	✓	X	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6			
m6in.32xlarge	200 Gigabit	✓	✓	X	2	14	50	✓			
m6in.metal	200 Gigabit	✓	✓	X	2	14	50	✓			
			M	17a							
m7a.medium 1	0.39 / 12.5	X	✓	X	1	2	4	✓			
m7a.large ¹	0.781 / 12.5	X	✓	x	1	3	10	✓			
m7a.xlarge ¹	1.562 / 12.5	X	✓	X	1	4	15	✓			
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	✓	X	1	8	30	✓			
m7a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓			
m7a.24xlarge	37.5 Gigabit	X	✓	X	1	15	50	✓			
m7a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓			
m7a.48xlarge	50 Gigabit	✓	✓	x	1	15	50	✓			
m7a.metal -48xl	50 Gigabit	✓	✓	X	1	15	50	✓			
	M7g										

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
m7g.16xlarge	30 Gigabit	✓	✓	✓	1	15	50	✓
m7g.metal	30 Gigabit	✓	✓	✓	1	15	50	✓
			M	7gd				
m7gd.medi um ¹	0.52 / 12.5	X	✓	X	1	2	4	✓
m7gd.large ¹	0.937 / 12.5	X	✓	X	1	3	10	✓
m7gd.xlarge ¹	1.876 / 12.5	X	✓	X	1	4	15	✓
m7gd.2xlarge	3.75 / 15.0	X	✓	X	1	4	15	✓
m7gd.4xlarge	7.5 / 15.0	X	✓	X	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6		
m7gd.8xlarge	15 Gigabit	X	✓	X	1	8	30	✓		
m7gd.12xl arge	22.5 Gigabit	X	✓	✓	1	8	30	✓		
m7gd.16xl arge	30 Gigabit	✓	✓	✓	1	15	50	✓		
m7gd.metal	30 Gigabit	✓	✓	✓	1	15	50	✓		
M7i										
m7i.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓		
m7i.xlarge ¹	1.562 / 12.5	X	✓	X	1	4	15	✓		
m7i.2xlarge ¹	3.125 / 12.5	X	✓	X	1	4	15	✓		
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	✓		

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
m7i.metal -48xl	50 Gigabit	✓	✓	✓	1	15	50	✓
			M7	i-flex				
m7i-flex.large	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	✓
			М	ac1				
mac1.metal	25 Gigabit	X	✓	X	1	8	30	✓
			М	ac2				
mac2.metal	10 Gigabit	X	✓	X	1	8	30	✓
			Mac	:2-m2				
mac2-m2.m etal	10 Gigabit	X	✓	X	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6		
			Mac2	-m2pro						
mac2-m2pr o.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	✓		
	Т3									
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	✓		

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6		
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	✓		
t4g.medium ¹	0.256 / 5.0	X	✓	X	1	3	6	✓		

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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 instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

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

Amazon EBS specifications

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
M5								
m5.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default			

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m5.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
m5.2xlarge ¹	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
m5.4xlarge	4750.00	593.75	18750.00	✓	default
m5.8xlarge	6800.00	850.00	30000.00	✓	default
m5.12xlarge	9500.00	1187.50	40000.00	✓	default
m5.16xlarge	13600.00	1700.00	60000.00	✓	default
m5.24xlarge	19000.00	2375.00	80000.00	✓	default
m5.metal	19000.00	2375.00	80000.00	✓	default
		M	5a		
m5a.large ¹	650.00 / 2880.00	81.25 / 360.00	3600.00 / 16000.00	✓	default
m5a.xlarge ¹	1085.00 / 2880.00	135.62 / 360.00	6000.00 / 16000.00	✓	default
m5a.2xlarge 1	1580.00 / 2880.00	197.50 / 360.00	8333.00 / 16000.00	✓	default
m5a.4xlarge	2880.00	360.00	16000.00	✓	default
m5a.8xlarge	4750.00	593.75	20000.00	✓	default
m5a.12xlarge	6780.00	847.50	30000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2				
m5a.16xlarge	9500.00	1187.50	40000.00	✓	default				
m5a.24xlarge	13750.00	1718.75	60000.00	✓	default				
M5ad									
m5ad.large ¹	650.00 / 2880.00	81.25 / 360.00	3600.00 / 16000.00	✓	default				
m5ad.xlarge 1	1085.00 / 2880.00	135.62 / 360.00	6000.00 / 16000.00	✓	default				
m5ad.2xlarge 1	1580.00 / 2880.00	197.50 / 360.00	8333.00 / 16000.00	✓	default				
m5ad.4xlarge	2880.00	360.00	16000.00	✓	default				
m5ad.8xlarge	4750.00	593.75	20000.00	✓	default				
m5ad.12xl arge	6780.00	847.50	30000.00	✓	default				
m5ad.16xl arge	9500.00	1187.50	40000.00	✓	default				
m5ad.24xl arge	13750.00	1718.75	60000.00	✓	default				
	M5d								
m5d.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default				

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m5dn.8xla rge	6800.00	850.00	30000.00	✓	default
m5dn.12xl arge	9500.00	1187.50	40000.00	✓	default
m5dn.16xl arge	13600.00	1700.00	60000.00	✓	default
m5dn.24xl arge	19000.00	2375.00	80000.00	✓	default
m5dn.metal	19000.00	2375.00	80000.00	✓	default
		M:	5n		
m5n.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default
m5n.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
m5n.2xlarge	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
m5n.4xlarge	4750.00	593.75	18750.00	✓	default
m5n.8xlarge	6800.00	850.00	30000.00	✓	default
m5n.12xla rge	9500.00	1187.50	40000.00	✓	default
m5n.16xla rge	13600.00	1700.00	60000.00	√	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
m5n.24xla rge	19000.00	2375.00	80000.00	✓	default			
m5n.metal	19000.00	2375.00	80000.00	✓	default			
M5zn								
m5zn.large ¹	800.00 / 3170.00	100.00 / 396.25	3333.00 / 13333.00	✓	default			
m5zn.xlarge 1	1564.00 / 3170.00	195.50 / 396.25	6667.00 / 13333.00	✓	default			
m5zn.2xlarge	3170.00	396.25	13333.00	✓	default			
m5zn.3xlarge	4750.00	593.75	20000.00	✓	default			
m5zn.6xlarge	9500.00	1187.50	40000.00	✓	default			
m5zn.12xl arge	19000.00	2375.00	80000.00	✓	default			
m5zn.metal	19000.00	2375.00	80000.00	✓	default			
		M	6a					
m6a.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default			
m6a.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default			
m6a.2xlarge	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default			

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m6a.4xlarge 1	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
m6a.8xlarge	10000.00	1250.00	40000.00	✓	default
m6a.12xlarge	15000.00	1875.00	60000.00	✓	default
m6a.16xlarge	20000.00	2500.00	80000.00	✓	default
m6a.24xlarge	30000.00	3750.00	120000.00	✓	default
m6a.32xlarge	40000.00	5000.00	160000.00	✓	default
m6a.48xlarge	40000.00	5000.00	240000.00	✓	default
m6a.metal	40000.00	5000.00	240000.00	✓	default
		М	6g		
m6g.medium	315.00 / 4750.00	39.38 / 593.75	2500.00 / 20000.00	✓	default
m6g.large ¹	630.00 / 4750.00	78.75 / 593.75	3600.00 / 20000.00	✓	default
m6g.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default
m6g.2xlarge 1	2375.00 / 4750.00	296.88 / 593.75	12000.00 / 20000.00	✓	default
m6g.4xlarge	4750.00	593.75	20000.00	✓	default
m6g.8xlarge	9500.00	1187.50	40000.00	✓	default

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m6gd.metal	19000.00	2375.00	80000.00	✓	default
		М	6i		
m6i.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
m6i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
m6i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
m6i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
m6i.8xlarge	10000.00	1250.00	40000.00	✓	default
m6i.12xlarge	15000.00	1875.00	60000.00	✓	default
m6i.16xlarge	20000.00	2500.00	80000.00	✓	default
m6i.24xlarge	30000.00	3750.00	120000.00	✓	default
m6i.32xlarge	40000.00	5000.00	160000.00	✓	default
m6i.metal	40000.00	5000.00	160000.00	✓	default
		Me	Sid		
m6id.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m6id.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
m6id.2xlarge	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
m6id.4xlarge	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
m6id.8xlarge	10000.00	1250.00	40000.00	✓	default
m6id.12xl arge	15000.00	1875.00	60000.00	✓	default
m6id.16xl arge	20000.00	2500.00	80000.00	✓	default
m6id.24xl arge	30000.00	3750.00	120000.00	✓	default
m6id.32xl arge	40000.00	5000.00	160000.00	✓	default
m6id.metal	40000.00	5000.00	160000.00	✓	default
		M6	idn		
m6idn.large ¹	1562.00 / 25000.00	195.31 / 3125.00	6250.00 / 100000.00	✓	default
m6idn.xlarge 1	3125.00 / 25000.00	390.62 / 3125.00	12500.00 / 100000.00	✓	default

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m6in.4xlarge	12500.00 / 25000.00	1562.50 / 3125.00	50000.00 / 100000.00	✓	default
m6in.8xlarge	25000.00	3125.00	100000.00	✓	default
m6in.12xl arge	37500.00	4687.50	150000.00	✓	default
m6in.16xl arge	50000.00	6250.00	200000.00	✓	default
m6in.24xl arge	75000.00	9375.00	300000.00	✓	default
m6in.32xl arge	100000.00	12500.00	400000.00	✓	default
m6in.metal	100000.00	12500.00	400000.00	✓	default
		М	7a		
m7a.medium 1	325.00 / 10000.00	40.62 / 1250.00	2500.00 / 40000.00	✓	default
m7a.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
m7a.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
m7a.2xlarge	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default

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

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m7gd.16xl arge	20000.00	2500.00	80000.00	✓	default
m7gd.metal	20000.00	2500.00	80000.00	✓	default
		М	7i		
m7i.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
m7i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
m7i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
m7i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
m7i.8xlarge	10000.00	1250.00	40000.00	✓	default
m7i.12xlarge	15000.00	1875.00	60000.00	✓	default
m7i.16xlarge	20000.00	2500.00	80000.00	✓	default
m7i.24xlarge	30000.00	3750.00	120000.00	✓	default
m7i.48xlarge	40000.00	5000.00	240000.00	✓	default
m7i.metal -24xl	30000.00	3750.00	120000.00	✓	default
m7i.metal -48xl	40000.00	5000.00	240000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		M7i-	-flex		
m7i-flex. large ¹	312.00 / 10000.00	39.06 / 1250.00	2500.00 / 40000.00	✓	default
m7i-flex. xlarge ¹	625.00 / 10000.00	78.12 / 1250.00	3600.00 / 40000.00	✓	default
m7i-flex. 2xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
m7i-flex. 4xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
m7i-flex. 8xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
		Ma	nc1		
mac1.metal	14000.00	1750.00	80000.00	✓	default
		Ма	nc2		
mac2.metal	10000.00	1250.00	55000.00	✓	default
		Maca	2-m2		
mac2-m2.m etal	8000.00	1000.00	55000.00	✓	default
		Mac2-	m2pro		
mac2-m2pr o.metal	8000.00	1000.00	55000.00	✓	default

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
t3a.small ¹	175.00 / 2085.00	21.88 / 260.62	1000.00 / 11800.00	✓	default
t3a.medium ¹	350.00 / 2085.00	43.75 / 260.62	2000.00 / 11800.00	✓	default
t3a.large ¹	695.00 / 2780.00	86.88 / 347.50	4000.00 / 15700.00	✓	default
t3a.xlarge ¹	695.00 / 2780.00	86.88 / 347.50	4000.00 / 15700.00	✓	default
t3a.2xlarge ¹	695.00 / 2780.00	86.88 / 347.50	4000.00 / 15700.00	✓	default
		T	1g		
t4g.nano ¹	43.00 / 2085.00	5.38 / 260.62	250.00 / 11800.00	✓	default
t4g.micro ¹	87.00 / 2085.00	10.88 / 260.62	500.00 / 11800.00	✓	default
t4g.small ¹	174.00 / 2085.00	21.75 / 260.62	1000.00 / 11800.00	✓	default
t4g.medium	347.00 / 2085.00	43.38 / 260.62	2000.00 / 11800.00	✓	default
t4g.large ¹	695.00 / 2780.00	86.88 / 347.50	4000.00 / 15700.00	✓	default

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

Note

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		MS	5ad		
m5ad.large	1 x 75 GB	NVMe SSD	30,000 / 15,000		✓
m5ad.xlarge	1 x 150 GB	NVMe SSD	59,000 / 29,000		✓

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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.

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

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2			
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		✓			
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		✓			

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Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2			
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		✓			
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		✓			

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Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
		Мб	6gd		
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		✓
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		✓
		Me	5id .		

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Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
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		✓
		М6	idn		
m6idn.large	1 x 118 GB	NVMe SSD	33,542 / 16,771		✓

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Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
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		✓
		M7	⁄gd		
m7gd.medium	1 x 59 GB	NVMe SSD	16,771 / 8,385		✓
m7gd.large	1 x 118 GB	NVMe SSD	33,542 / 16,771		✓

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Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓

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

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
			M5			

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

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m5.metal	✓	Instance store not supported	X	X	X	X
			M5a			
m5a.large	✓	Instance store not supported	X	X	✓	X
m5a.xlarge	✓	Instance store not supported	X	X	✓	✓
m5a.2xlarge	✓	Instance store not supported	X	X	✓	✓
m5a.4xlarge	✓	Instance store not supported	X	X	✓	✓
m5a.8xlarge	✓	Instance store not supported	X	X	✓	✓
m5a.12xlarge	✓	Instance store not supported	x	x	✓	✓
m5a.16xlarge	✓	Instance store not supported	X	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m5a.24xlarge	✓	Instance store not supported	X	X	✓	✓
		P	45ad			
m5ad.large	✓	✓	X	X	✓	x
m5ad.xlarge	✓	✓	X	X	✓	✓
m5ad.2xlarge	✓	✓	x	x	✓	✓
m5ad.4xlarge	✓	✓	x	x	✓	✓
m5ad.8xlarge	✓	✓	X	X	✓	✓
m5ad.12xlarge	✓	✓	x	x	✓	✓
m5ad.16xlarge	✓	✓	x	x	✓	✓
m5ad.24xlarge	✓	✓	x	x	✓	✓
			M5d			
m5d.large	✓	✓	x	x	✓	x
m5d.xlarge	✓	✓	x	x	✓	✓
m5d.2xlarge	✓	✓	x	x	✓	✓
m5d.4xlarge	✓	✓	X	X	✓	✓
m5d.8xlarge	✓	✓	X	X	✓	✓
m5d.12xlarge	✓	✓	X	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m5d.16xlarge	✓	✓	x	x	✓	✓
m5d.24xlarge	✓	✓	X	X	✓	✓
m5d.metal	✓	✓	x	x	x	x
		N	45dn			
m5dn.large	✓	✓	✓	x	✓	x
m5dn.xlarge	✓	✓	✓	X	✓	✓
m5dn.2xlarge	✓	✓	✓	X	✓	✓
m5dn.4xlarge	✓	✓	✓	X	✓	✓
m5dn.8xlarge	✓	✓	✓	x	✓	✓
m5dn.12xlarge	✓	✓	✓	x	✓	✓
m5dn.16xlarge	✓	✓	✓	X	✓	✓
m5dn.24xlarge	✓	✓	✓	x	✓	✓
m5dn.metal	✓	✓	✓	x	x	x
			M5n			
m5n.large	√	Instance store not supported	✓	x	✓	X
m5n.xlarge	✓	Instance store not supported	✓	x	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m5n.2xlarge	✓	Instance store not supported	✓	x	✓	✓
m5n.4xlarge	✓	Instance store not supported	✓	X	✓	✓
m5n.8xlarge	✓	Instance store not supported	✓	X	✓	✓
m5n.12xlarge	✓	Instance store not supported	✓	X	✓	✓
m5n.16xlarge	✓	Instance store not supported	✓	X	✓	✓
m5n.24xlarge	✓	Instance store not supported	✓	X	✓	✓
m5n.metal	✓	Instance store not supported	✓	X	X	X
		ı	M5zn			
m5zn.large	✓	Instance store not supported	✓	X	✓	X

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m6a.2xlarge	✓	Instance store not supported	✓	✓	✓	✓
m6a.4xlarge	✓	Instance store not supported	✓	✓	✓	✓
m6a.8xlarge	✓	Instance store not supported	✓	✓	✓	✓
m6a.12xlarge	✓	Instance store not supported	✓	x	✓	✓
m6a.16xlarge	✓	Instance store not supported	✓	x	✓	✓
m6a.24xlarge	✓	Instance store not supported	✓	x	✓	✓
m6a.32xlarge	✓	Instance store not supported	✓	x	✓	✓
m6a.48xlarge	✓	Instance store not supported	✓	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m6a.metal	✓	Instance store not supported	√	x	X	X
			M6g			
m6g.medium	✓	Instance store not supported	X	x	X	X
m6g.large	✓	Instance store not supported	X	x	X	✓
m6g.xlarge	✓	Instance store not supported	x	x	x	✓
m6g.2xlarge	✓	Instance store not supported	x	x	X	✓
m6g.4xlarge	✓	Instance store not supported	x	x	x	✓
m6g.8xlarge	✓	Instance store not supported	X	X	X	✓
m6g.12xlarge	✓	Instance store not supported	x	x	X	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
m6g.16xlarge	✓	Instance store not supported	X	X	x	✓		
m6g.metal	✓	Instance store not supported	X	X	X	X		
		N	16gd					
m6gd.medium	✓	✓	x	x	x	X		
m6gd.large	✓	✓	x	x	x	✓		
m6gd.xlarge	✓	✓	x	x	x	✓		
m6gd.2xlarge	✓	✓	x	x	x	✓		
m6gd.4xlarge	✓	✓	x	x	x	✓		
m6gd.8xlarge	✓	✓	x	x	x	✓		
m6gd.12xlarge	✓	✓	x	x	x	✓		
m6gd.16xlarge	✓	✓	x	x	x	✓		
m6gd.metal	✓	✓	x	x	x	x		
M6i								
m6i.large	✓	Instance store not supported	✓	X	✓	X		

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
m6i.metal	✓	Instance store not supported	✓	X	X	X			
M6id									
m6id.large	✓	✓	✓	x	✓	X			
m6id.xlarge	✓	✓	✓	x	✓	✓			
m6id.2xlarge	✓	✓	✓	x	✓	✓			
m6id.4xlarge	✓	✓	✓	x	✓	✓			
m6id.8xlarge	✓	✓	✓	x	✓	✓			
m6id.12xlarge	✓	✓	✓	x	✓	✓			
m6id.16xlarge	✓	✓	✓	x	✓	✓			
m6id.24xlarge	✓	✓	✓	x	✓	✓			
m6id.32xlarge	✓	✓	✓	x	✓	✓			
m6id.metal	✓	✓	✓	x	X	x			
		M	16idn						
m6idn.large	✓	✓	✓	X	✓	x			
m6idn.xlarge	✓	✓	✓	X	✓	✓			
m6idn.2xlarge	✓	✓	✓	X	✓	✓			
m6idn.4xlarge	✓	✓	✓	x	✓	✓			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
m6idn.8xlarge	✓	✓	✓	X	✓	✓			
m6idn.12xlarge	✓	✓	✓	X	✓	✓			
m6idn.16xlarge	✓	✓	✓	x	✓	✓			
m6idn.24xlarge	✓	✓	✓	X	✓	✓			
m6idn.32xlarge	✓	✓	✓	x	✓	✓			
m6idn.metal	✓	✓	✓	x	x	x			
	M6in								
m6in.large	√	Instance store not supported	✓	X	✓	X			
m6in.xlarge	✓	Instance store not supported	✓	X	✓	✓			
m6in.2xlarge	✓	Instance store not supported	✓	x	✓	✓			
m6in.4xlarge	✓	Instance store not supported	✓	x	✓	✓			
m6in.8xlarge	✓	Instance store not supported	✓	X	✓	✓			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m6in.12xlarge	✓	Instance store not supported	✓	x	✓	✓
m6in.16xlarge	√	Instance store not supported	✓	X	✓	✓
m6in.24xlarge	✓	Instance store not supported	✓	x	✓	✓
m6in.32xlarge	✓	Instance store not supported	✓	x	✓	✓
m6in.metal	✓	Instance store not supported	✓	x	x	X
			M7a			
m7a.medium	✓	Instance store not supported	✓	X	✓	X
m7a.large	✓	Instance store not supported	✓	X	✓	X
m7a.xlarge	✓	Instance store not supported	✓	x	✓	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m7a.2xlarge	✓	Instance store not supported	✓	x	✓	X
m7a.4xlarge	✓	Instance store not supported	√	X	√	X
m7a.8xlarge	✓	Instance store not supported	✓	X	✓	X
m7a.12xlarge	✓	Instance store not supported	✓	X	√	X
m7a.16xlarge	✓	Instance store not supported	✓	X	✓	X
m7a.24xlarge	✓	Instance store not supported	✓	x	✓	X
m7a.32xlarge	✓	Instance store not supported	✓	x	✓	X
m7a.48xlarge	✓	Instance store not supported	✓	x	✓	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m7a.metal-48xl	√	Instance store not supported	✓	X	X	X
			M7g			
m7g.medium	✓	Instance store not supported	✓	X	X	X
m7g.large	✓	Instance store not supported	✓	x	X	x
m7g.xlarge	√	Instance store not supported	✓	x	x	X
m7g.2xlarge	√	Instance store not supported	✓	x	X	X
m7g.4xlarge	√	Instance store not supported	✓	x	x	X
m7g.8xlarge	√	Instance store not supported	✓	x	X	X
m7g.12xlarge	✓	Instance store not supported	✓	X	X	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
m7g.16xlarge	✓	Instance store not supported	✓	X	x	X			
m7g.metal	✓	Instance store not supported	✓	x	X	X			
M7gd									
m7gd.medium	✓	✓	✓	x	x	x			
m7gd.large	✓	✓	✓	x	x	x			
m7gd.xlarge	✓	✓	✓	x	x	X			
m7gd.2xlarge	✓	✓	✓	x	x	x			
m7gd.4xlarge	✓	✓	✓	x	x	x			
m7gd.8xlarge	✓	✓	✓	x	x	x			
m7gd.12xlarge	✓	✓	✓	x	x	x			
m7gd.16xlarge	✓	✓	✓	x	x	x			
m7gd.metal	✓	✓	✓	x	x	x			
M7i									
m7i.large	✓	Instance store not supported	✓	X	✓	X			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m7i.xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.2xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.4xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.8xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.12xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.16xlarge	√	Instance store not supported	✓	x	✓	X
m7i.24xlarge	✓	Instance store not supported	✓	x	✓	X
m7i.48xlarge	✓	Instance store not supported	✓	X	✓	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
m7i.metal-24xl	✓	Instance store not supported	✓	X	X	X		
m7i.metal-48xl	✓	Instance store not supported	✓	x	X	X		
M7i-flex								
m7i-flex.large	✓	Instance store not supported	✓	X	✓	X		
m7i-flex.xlarge	✓	Instance store not supported	✓	x	✓	X		
m7i-flex.2xlarge	✓	Instance store not supported	✓	X	✓	X		
m7i-flex.4xlarge	✓	Instance store not supported	✓	x	✓	X		
m7i-flex.8xlarge	✓	Instance store not supported	✓	x	✓	X		
		ı	Mac1					

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
mac1.metal	√	Instance store not supported	X	X	X	X			
		ı	Mac2						
mac2.metal	√	Instance store not supported	X	X	X	X			
	Mac2-m2								
mac2-m2.metal	√	Instance store not supported	X	X	X	X			
		Mac	2-m2pro						
mac2-m2pr o.metal	√	Instance store not supported	X	x	X	X			
			T2						
t2.nano	√	Instance store not supported	X	x	X	x			
t2.micro	√	Instance store not supported	X	x	X	X			

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
t3.medium	√	Instance store not supported	X	x	✓	X
t3.large	√	Instance store not supported	x	X	✓	X
t3.xlarge	✓	Instance store not supported	x	x	✓	X
t3.2xlarge	✓	Instance store not supported	X	x	✓	X
			T3a			
t3a.nano	√	Instance store not supported	x	x	✓	X
t3a.micro	√	Instance store not supported	x	x	✓	X
t3a.small	√	Instance store not supported	x	X	✓	X
t3a.medium	√	Instance store not supported	X	x	✓	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
t3a.large	✓	Instance store not supported	X	X	✓	X
t3a.xlarge	✓	Instance store not supported	x	x	✓	X
t3a.2xlarge	✓	Instance store not supported	X	X	✓	X
			T4g			
t4g.nano	✓	Instance store not supported	X	X	X	X
t4g.micro	✓	Instance store not supported	X	X	X	X
t4g.small	✓	Instance store not supported	X	x	X	X
t4g.medium	✓	Instance store not supported	x	x	x	X
t4g.large	✓	Instance store not supported	X	X	X	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
t4g.xlarge	✓	Instance store not supported	X	x	x	X
t4g.2xlarge	✓	Instance store not supported	X	X	X	X

Compute optimized instances

Compute optimized instances are designed for compute intensive applications that benefit from high performance processors. These instances are ideal for batch processing workloads, media transcoding, high performance web servers, high performance computing (HPC), scientific modeling, dedicated gaming servers, ad server engines, and machine learning inference.

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Available sizes

Instance type	Available sizes
C5	<pre>c5.large c5.xlarge c5.2xlarge c5.4xlarge c5.9xlarge c5.12xlarge c5.18xlarge c5.24xlarge c5.metal</pre>
C5a	c5a.large c5a.xlarge c5a.2xlarge c5a.4xlarge c5a.8xlar ge c5a.12xlarge c5a.16xlarge c5a.24xlarge
C5ad	<pre>c5ad.large c5ad.xlarge c5ad.4xlarge c5ad.8xlarge c5ad.12xlarge c5ad.16xlarge c5ad.24xlarge</pre>
C5d	c5d.large c5d.xlarge c5d.2xlarge c5d.4xlarge c5d.9xlar ge c5d.12xlarge c5d.18xlarge c5d.24xlarge c5d.metal
C5n	c5n.large c5n.xlarge c5n.2xlarge c5n.4xlarge c5n.9xlar ge c5n.18xlarge c5n.metal
C6a	c6a.large c6a.xlarge c6a.2xlarge c6a.4xlarge c6a.8xlar ge c6a.12xlarge c6a.16xlarge c6a.24xlarge c6a.32xlarge c6a.48xlarge c6a.metal
C6g	<pre>c6g.medium c6g.large c6g.xlarge c6g.2xlarge c6g.4xlarge c6g.8xlarge c6g.12xlarge c6g.16xlarge c6g.metal</pre>
C6gd	c6gd.medium c6gd.large c6gd.xlarge c6gd.2xlarge c6gd.4xlarge c6gd.8xlarge c6gd.12xlarge c6gd.16xlarge c6gd.metal
C6gn	c6gn.medium c6gn.large c6gn.xlarge c6gn.2xlarge c6gn.4xlarge c6gn.8xlarge c6gn.12xlarge c6gn.16xlarge
C6i	c6i.large c6i.xlarge c6i.2xlarge c6i.4xlarge c6i.8xlar ge c6i.12xlarge c6i.16xlarge c6i.24xlarge c6i.32xlarge c6i.metal

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Instance type	Available sizes
C6id	c6id.large c6id.xlarge c6id.2xlarge c6id.4xlarge c6id.8xlarge c6id.12xlarge c6id.16xlarge c6id.24xlarge c6id.32xlarge c6id.metal
C6in	c6in.large c6in.xlarge c6in.2xlarge c6in.4xlarge c6in.8xlarge c6in.12xlarge c6in.16xlarge c6in.24xlarge c6in.32xlarge c6in.metal
C7a	c7a.medium c7a.large c7a.xlarge c7a.2xlarge c7a.4xlar ge 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	<pre>c7gd.medium c7gd.large c7gd.xlarge c7gd.2xlarge c7gd.4xlarge c7gd.8xlarge c7gd.12xlarge c7gd.16xlarge c7gd.metal</pre>
C7gn	c7gn.medium c7gn.large c7gn.xlarge c7gn.2xlarge c7gn.4xlarge c7gn.8xlarge c7gn.12xlarge c7gn.16xlarge c7gn.metal
C7i	c7i.large c7i.xlarge c7i.2xlarge c7i.4xlarge c7i.8xlar ge c7i.12xlarge c7i.16xlarge c7i.24xlarge c7i.48xlarge c7i.metal-24xl c7i.metal-48xl

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Platform summary

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
C5	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux
C5a	Nitro	AMD (x86_64)	x	X	✓	x	Windows Linux
C5ad	Nitro	AMD (x86_64)	X	X	✓	X	Windows Linux
C5d	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux
C5n	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
C6a	Nitro	AMD (x86_64)	✓	✓	✓	X	Windows Linux
C6g	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
C6gd	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
C6gn	Nitro	AWS Graviton (arm64)	X	✓	✓	X	Linux
C6i	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux

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Instance type	Hypervis r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
C6id	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux
C6in	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
C7a	Nitro	AMD (x86_64)	✓	✓	✓	✓	Windows Linux
C7g	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
C7gd	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
C7gn	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
C7i	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux

Performance specifications

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
			C 5				

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c5.large	X	4.00	Intel Xeon Platinum 8124M	2	1	2	X
c5.xlarge	x	8.00	Intel Xeon Platinum 8124M	4	2	2	X
c5.2xlarge	X	16.00	Intel Xeon Platinum 8124M	8	4	2	X
c5.4xlarge	X	32.00	Intel Xeon Platinum 8124M	16	8	2	X
c5.9xlarge	X	72.00	Intel Xeon Platinum 8124M	36	18	2	X
c5.12xlarge	X	96.00	2nd Gen Intel Xeon Platinum 8275CL	48	24	2	X
c5.18xlarge	X	144.00	Intel Xeon Platinum 8124M	72	36	2	X
c5.24xlarge	X	192.00	2nd Gen Intel Xeon Platinum 8275CL	96	48	2	X
c5.metal	X	192.00	2nd Gen Intel Xeon Platinum 8275CL	96	48	2	X

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
			C5a				
c5a.large	X	4.00	2nd Gen AMD EPYC 7R32	2	1	2	X
c5a.xlarge	X	8.00	2nd Gen AMD EPYC 7R32	4	2	2	X
c5a.2xlarge	X	16.00	2nd Gen AMD EPYC 7R32	8	4	2	X
c5a.4xlarge	X	32.00	2nd Gen AMD EPYC 7R32	16	8	2	X
c5a.8xlarge	X	64.00	2nd Gen AMD EPYC 7R32	32	16	2	X
c5a.12xlarge	X	96.00	2nd Gen AMD EPYC 7R32	48	24	2	X
c5a.16xlarge	X	128.00	2nd Gen AMD EPYC 7R32	64	32	2	X
c5a.24xlarge	X	192.00	2nd Gen AMD EPYC 7R32	96	48	2	X
			C5ad				
c5ad.large	X	4.00	2nd Gen AMD EPYC 7R32	2	1	2	X
c5ad.xlarge	X	8.00	2nd Gen AMD EPYC 7R32	4	2	2	X
c5ad.2xlarge	X	16.00	2nd Gen AMD EPYC 7R32	8	4	2	X

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors			
c5d.9xlarge	X	72.00	Intel Xeon Platinum 8124M	36	18	2	X			
c5d.12xlarge	X	96.00	2nd Gen Intel Xeon Platinum 8275CL	48	24	2	X			
c5d.18xlarge	x	144.00	Intel Xeon Platinum 8124M	72	36	2	X			
c5d.24xlarge	x	192.00	2nd Gen Intel Xeon Platinum 8275CL	96	48	2	X			
c5d.metal	x	192.00	2nd Gen Intel Xeon Platinum 8275CL	96	48	2	X			
C5n										
c5n.large	X	5.25	Intel Xeon Platinum 8124M	2	1	2	X			
c5n.xlarge	x	10.50	Intel Xeon Platinum 8124M	4	2	2	X			
c5n.2xlarge	x	21.00	Intel Xeon Platinum 8124M	8	4	2	X			

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors			
c5n.4xlarge	X	42.00	Intel Xeon Platinum 8124M	16	8	2	X			
c5n.9xlarge	x	96.00	Intel Xeon Platinum 8124M	36	18	2	X			
c5n.18xlarge	X	192.00	Intel Xeon Platinum 8124M	72	36	2	X			
c5n.metal	x	192.00	Intel Xeon Platinum 8124M	72	36	2	X			
C6a										
c6a.large	X	4.00	AMD EPYC 7R13	2	1	2	X			
c6a.xlarge	X	8.00	AMD EPYC 7R13	4	2	2	X			
c6a.2xlarge	X	16.00	AMD EPYC 7R13	8	4	2	X			
c6a.4xlarge	X	32.00	AMD EPYC 7R13	16	8	2	X			
c6a.8xlarge	X	64.00	AMD EPYC 7R13	32	16	2	X			
c6a.12xlarge	X	96.00	AMD EPYC 7R13	48	24	2	X			

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

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c6gd.metal	X	128.00	AWS Graviton2 Processor	64	64	1	X
			C6gn				
c6gn.medium	X	2.00	AWS Graviton2 Processor	1	1	1	X
c6gn.large	X	4.00	AWS Graviton2 Processor	2	2	1	X
c6gn.xlarge	X	8.00	AWS Graviton2 Processor	4	4	1	X
c6gn.2xlarge	X	16.00	AWS Graviton2 Processor	8	8	1	X
c6gn.4xlarge	X	32.00	AWS Graviton2 Processor	16	16	1	X
c6gn.8xlarge	X	64.00	AWS Graviton2 Processor	32	32	1	X
c6gn.12xlarge	X	96.00	AWS Graviton2 Processor	48	48	1	X
c6gn.16xlarge	X	128.00	AWS Graviton2 Processor	64	64	1	X
			C6i				
c6i.large	X	4.00	Intel Xeon Ice Lake	2	1	2	X
c6i.xlarge	X	8.00	Intel Xeon Ice Lake	4	2	2	X

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c6i.2xlarge	X	16.00	Intel Xeon Ice Lake	8	4	2	X
c6i.4xlarge	X	32.00	Intel Xeon Ice Lake	16	8	2	X
c6i.8xlarge	X	64.00	Intel Xeon Ice Lake	32	16	2	X
c6i.12xlarge	X	96.00	Intel Xeon Ice Lake	48	24	2	X
c6i.16xlarge	X	128.00	Intel Xeon Ice Lake	64	32	2	X
c6i.24xlarge	X	192.00	Intel Xeon Ice Lake	96	48	2	X
c6i.32xlarge	X	256.00	Intel Xeon Ice Lake	128	64	2	X
c6i.metal	X	256.00	Intel Xeon Ice Lake	128	64	2	X
			C6id				
c6id.large	X	4.00	Intel Xeon Ice Lake	2	1	2	X
c6id.xlarge	X	8.00	Intel Xeon Ice Lake	4	2	2	X
c6id.2xlarge	X	16.00	Intel Xeon Ice Lake	8	4	2	X

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

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c7a.8xlarge	X	64.00	AMD EPYC 9R14	32	32	1	X
c7a.12xlarge	X	96.00	AMD EPYC 9R14	48	48	1	X
c7a.16xlarge	X	128.00	AMD EPYC 9R14	64	64	1	X
c7a.24xlarge	X	192.00	AMD EPYC 9R14	96	96	1	X
c7a.32xlarge	X	256.00	AMD EPYC 9R14	128	128	1	X
c7a.48xlarge	X	384.00	AMD EPYC 9R14	192	192	1	X
c7a.metal -48xl	X	384.00	AMD EPYC 9R14	192	192	1	X
			C7g				
c7g.medium	X	2.00	AWS Graviton3 Processor	1	1	1	X
c7g.large	X	4.00	AWS Graviton3 Processor	2	2	1	X
c7g.xlarge	X	8.00	AWS Graviton3 Processor	4	4	1	X
c7g.2xlarge	X	16.00	AWS Graviton3 Processor	8	8	1	X

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

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c7gn.metal	X	128.00	AWS Graviton3 E Processor	64	64	1	X
			C7i				
c7i.large	x	4.00	Intel Xeon Sapphire Rapids	2	1	2	X
c7i.xlarge	x	8.00	Intel Xeon Sapphire Rapids	4	2	2	X
c7i.2xlarge	X	16.00	Intel Xeon Sapphire Rapids	8	4	2	X
c7i.4xlarge	x	32.00	Intel Xeon Sapphire Rapids	16	8	2	X
c7i.8xlarge	X	64.00	Intel Xeon Sapphire Rapids	32	16	2	X
c7i.12xlarge	x	96.00	Intel Xeon Sapphire Rapids	48	24	2	X
c7i.16xlarge	X	128.00	Intel Xeon Sapphire Rapids	64	32	2	X

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c7i.24xlarge	x	192.00	Intel Xeon Sapphire Rapids	96	48	2	X
c7i.48xlarge	X	384.00	Intel Xeon Sapphire Rapids	192	96	2	X
c7i.metal-24xl	x	192.00	Intel Xeon Sapphire Rapids	96	48	2	X
c7i.metal-48xl	X	384.00	Intel Xeon Sapphire Rapids	192	96	2	X

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
				C 5				
c5.large ¹	0.75 / 10.0	X	✓	X	1	3	10	✓
c5.xlarge ¹	1.25 / 10.0	X	✓	X	1	4	15	✓
c5.2xlarge ¹	2.5 / 10.0	X	✓	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
			C	.5a				
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	✓
			C	5ad				
c5ad.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 interface s per network card	IP addresses per interface	IPv6
c5ad.xlarge ¹	1.25 / 10.0	X	✓	X	1	4	15	✓
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	✓
			C	.5d				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			C	.5n				
c5n.large ¹	3.0 / 25.0	X	✓	x	1	3	10	✓
c5n.xlarge ¹	5.0 / 25.0	X	✓	X	1	4	15	✓
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	✓
			C	:6a				
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	✓	x	1	8	30	✓
c6a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓
c6a.24xlarge	37.5 Gigabit	X	✓	x	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
c6a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓
c6a.48xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓
c6a.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			C	:6g				
c6g.medium ¹	0.5 / 10.0	X	✓	X	1	2	4	✓
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	✓
			C	6gd				
c6gd.medium	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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
			C	6gn				
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	✓	x	1	8	30	✓
c6gn.8xlarge	50 Gigabit	X	✓	x	1	8	30	✓
c6gn.12xlarge	75 Gigabit	X	✓	X	1	8	30	✓
c6gn.16xlarge	100 Gigabit	✓	✓	✓	1	15	50	✓
			(26i				
c6i.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
c6i.32xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓
c6i.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			C	6id				
c6id.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓
c6id.xlarge ¹	1.562 / 12.5	X	✓	X	1	4	15	✓
c6id.2xlarge ¹	3.125 / 12.5	X	✓	X	1	4	15	✓
c6id.4xlarge ¹	6.25 / 12.5	X	✓	X	1	8	30	✓
c6id.8xlarge	12.5 Gigabit	X	✓	✓	1	8	30	✓
c6id.12xlarge	18.75 Gigabit	X	✓	✓	1	8	30	✓
c6id.16xlarge	25 Gigabit	X	✓	✓	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
c6id.24xlarge	37.5 Gigabit	X	✓	✓	1	15	50	✓
c6id.32xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓
c6id.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			C	6in				
c6in.large ¹	3.125 / 25.0	X	✓	X	1	3	10	✓
c6in.xlarge ¹	6.25 / 30.0	X	✓	X	1	4	15	✓
c6in.2xlarge ¹	12.5 / 40.0	X	✓	X	1	4	15	✓
c6in.4xlarge ¹	25.0 / 50.0	X	✓	X	1	8	30	✓
c6in.8xlarge	50 Gigabit	X	✓	X	1	8	30	✓
c6in.12xlarge	75 Gigabit	X	✓	X	1	8	30	✓
c6in.16xlarge	100 Gigabit	X	✓	X	1	15	50	✓
c6in.24xlarge	150 Gigabit	X	✓	X	1	15	50	✓
c6in.32xlarge	200 Gigabit	✓	✓	X	2	14	50	✓
c6in.metal	200 Gigabit	✓	✓	x	2	14	50	✓
			C	.7a				
c7a.medium ¹	0.39 / 12.5	X	✓	X	1	2	4	✓
c7a.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓	X	1	8	30	✓
c7a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓
c7a.24xlarge	37.5 Gigabit	X	✓	X	1	15	50	✓
c7a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓
c7a.48xlarge	50 Gigabit	✓	✓	X	1	15	50	✓
c7a.metal -48xl	50 Gigabit	✓	✓	X	1	15	50	✓
			C	.7g				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
c7g.12xlarge	22.5 Gigabit	X	✓	✓	1	8	30	✓
c7g.16xlarge	30 Gigabit	✓	✓	✓	1	15	50	✓
c7g.metal	30 Gigabit	✓	✓	✓	1	15	50	✓
			C	7gd				
c7gd.medium 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	✓
c7gd.16xlarge	30 Gigabit	✓	✓	✓	1	15	50	✓
c7gd.metal	30 Gigabit	✓	✓	✓	1	15	50	✓
			C	7gn				
c7gn.medium 1	3.125 / 25.0	X	✓	X	1	2	4	✓
c7gn.large ¹	6.25 / 30.0	X	✓	X	1	3	10	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
c7gn.xlarge ¹	12.5 / 40.0	X	✓	X	1	4	15	✓
c7gn.2xlarge ¹	25.0 / 50.0	X	✓	X	1	4	15	✓
c7gn.4xlarge	50 Gigabit	X	✓	x	1	8	30	✓
c7gn.8xlarge	100 Gigabit	X	✓	X	1	8	30	✓
c7gn.12xlarge	150 Gigabit	X	✓	X	1	8	30	✓
c7gn.16xlarge	200 Gigabit	✓	✓	X	1	15	50	✓
c7gn.metal	200 Gigabit	✓	✓	X	1	15	50	✓
			(:7i				
c7i.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓
c7i.xlarge ¹	1.562 / 12.5	X	✓	X	1	4	15	✓
c7i.2xlarge ¹	3.125 / 12.5	X	✓	X	1	4	15	✓
c7i.4xlarge ¹	6.25 / 12.5	X	✓	X	1	8	30	✓
c7i.8xlarge	12.5 Gigabit	X	✓	X	1	8	30	✓
c7i.12xlarge	18.75 Gigabit	X	✓	✓	1	8	30	✓
c7i.16xlarge	25 Gigabit	X	✓	✓	1	15	50	✓
c7i.24xlarge	37.5 Gigabit	X	✓	✓	1	15	50	✓
c7i.48xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
c7i.metal-24xl	37.5 Gigabit	X	✓	✓	1	15	50	✓
c7i.metal-48xl	50 Gigabit	✓	✓	✓	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 instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

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

Amazon EBS specifications

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		C	5		
c5.large ¹	650.00 / 4750.00	81.25 / 593.75	4000.00 / 20000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c5.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 20000.00	✓	default
c5.2xlarge ¹	2300.00 / 4750.00	287.50 / 593.75	10000.00 / 20000.00	✓	default
c5.4xlarge	4750.00	593.75	20000.00	✓	default
c5.9xlarge	9500.00	1187.50	40000.00	✓	default
c5.12xlarge	9500.00	1187.50	40000.00	✓	default
c5.18xlarge	19000.00	2375.00	80000.00	✓	default
c5.24xlarge	19000.00	2375.00	80000.00	✓	default
c5.metal	19000.00	2375.00	80000.00	✓	default
		Ci	5a		
c5a.large ¹	200.00 / 3170.00	25.00 / 396.25	800.00 / 13300.00	✓	default
c5a.xlarge ¹	400.00 / 3170.00	50.00 / 396.25	1600.00 / 13300.00	✓	default
c5a.2xlarge ¹	800.00 / 3170.00	100.00 / 396.25	3200.00 / 13300.00	✓	default
c5a.4xlarge ¹	1580.00 / 3170.00	197.50 / 396.25	6600.00 / 13300.00	✓	default
c5a.8xlarge	3170.00	396.25	13300.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c5a.12xlarge	4750.00	593.75	20000.00	✓	default
c5a.16xlarge	6300.00	787.50	26700.00	✓	default
c5a.24xlarge	9500.00	1187.50	40000.00	✓	default
		C5	ad		
c5ad.large ¹	200.00 / 3170.00	25.00 / 396.25	800.00 / 13300.00	✓	default
c5ad.xlarge ¹	400.00 / 3170.00	50.00 / 396.25	1600.00 / 13300.00	✓	default
c5ad.2xlarge	800.00 / 3170.00	100.00 / 396.25	3200.00 / 13300.00	✓	default
c5ad.4xlarge	1580.00 / 3170.00	197.50 / 396.25	6600.00 / 13300.00	✓	default
c5ad.8xlarge	3170.00	396.25	13300.00	✓	default
c5ad.12xl arge	4750.00	593.75	20000.00	✓	default
c5ad.16xl arge	6300.00	787.50	26700.00	✓	default
c5ad.24xl arge	9500.00	1187.50	40000.00	✓	default
		C	5d		

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c5n.9xlarge	9500.00	1187.50	40000.00	✓	default
c5n.18xlarge	19000.00	2375.00	80000.00	✓	default
c5n.metal	19000.00	2375.00	80000.00	✓	default
		C	6a		
c6a.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
c6a.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
c6a.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
c6a.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
c6a.8xlarge	10000.00	1250.00	40000.00	✓	default
c6a.12xlarge	15000.00	1875.00	60000.00	✓	default
c6a.16xlarge	20000.00	2500.00	80000.00	✓	default
c6a.24xlarge	30000.00	3750.00	120000.00	✓	default
c6a.32xlarge	40000.00	5000.00	160000.00	✓	default
c6a.48xlarge	40000.00	5000.00	240000.00	✓	default
c6a.metal	40000.00	5000.00	240000.00	✓	default
		C	5g		

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c6g.medium 1	315.00 / 4750.00	39.38 / 593.75	2500.00 / 20000.00	✓	default
c6g.large ¹	630.00 / 4750.00	78.75 / 593.75	3600.00 / 20000.00	✓	default
c6g.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default
c6g.2xlarge ¹	2375.00 / 4750.00	296.88 / 593.75	12000.00 / 20000.00	✓	default
c6g.4xlarge	4750.00	593.75	20000.00	✓	default
c6g.8xlarge	9500.00	1187.50	40000.00	✓	default
c6g.12xlarge	14250.00	1781.25	50000.00	✓	default
c6g.16xlarge	19000.00	2375.00	80000.00	✓	default
c6g.metal	19000.00	2375.00	80000.00	✓	default
		C6	gd		
c6gd.medium 1	315.00 / 4750.00	39.38 / 593.75	2500.00 / 20000.00	✓	default
c6gd.large ¹	630.00 / 4750.00	78.75 / 593.75	3600.00 / 20000.00	✓	default
c6gd.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c6gn.12xl arge	28500.00	3562.50	120000.00	✓	default
c6gn.16xl arge	38000.00	4750.00	160000.00	✓	default
		C	6i		
c6i.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
c6i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
c6i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
c6i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
c6i.8xlarge	10000.00	1250.00	40000.00	✓	default
c6i.12xlarge	15000.00	1875.00	60000.00	✓	default
c6i.16xlarge	20000.00	2500.00	80000.00	✓	default
c6i.24xlarge	30000.00	3750.00	120000.00	✓	default
c6i.32xlarge	40000.00	5000.00	160000.00	✓	default
c6i.metal	40000.00	5000.00	160000.00	✓	default
		C6	iid		

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c6id.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
c6id.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
c6id.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
c6id.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
c6id.8xlarge	10000.00	1250.00	40000.00	✓	default
c6id.12xlarge	15000.00	1875.00	60000.00	✓	default
c6id.16xlarge	20000.00	2500.00	80000.00	✓	default
c6id.24xlarge	30000.00	3750.00	120000.00	✓	default
c6id.32xlarge	40000.00	5000.00	160000.00	✓	default
c6id.metal	40000.00	5000.00	160000.00	✓	default
		C6	iin		
c6in.large ¹	1562.00 / 25000.00	195.31 / 3125.00	6250.00 / 100000.00	✓	default
c6in.xlarge ¹	3125.00 / 25000.00	390.62 / 3125.00	12500.00 / 100000.00	✓	default
c6in.2xlarge ¹	6250.00 / 25000.00	781.25 / 3125.00	25000.00 / 100000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c6in.4xlarge ¹	12500.00 / 25000.00	1562.50 / 3125.00	50000.00 / 100000.00	✓	default
c6in.8xlarge	25000.00	3125.00	100000.00	✓	default
c6in.12xlarge	37500.00	4687.50	150000.00	✓	default
c6in.16xlarge	50000.00	6250.00	200000.00	✓	default
c6in.24xlarge	75000.00	9375.00	300000.00	✓	default
c6in.32xlarge	100000.00	12500.00	400000.00	✓	default
c6in.metal	100000.00	12500.00	400000.00	✓	default
		C	7a		
c7a.medium	325.00 / 10000.00	40.62 / 1250.00	2500.00 / 40000.00	✓	default
c7a.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
c7a.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
c7a.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
c7a.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
c7a.8xlarge	10000.00	1250.00	40000.00	✓	default

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
c7g.16xlarge	20000.00	2500.00	80000.00	✓	default
c7g.metal	20000.00	2500.00	80000.00	✓	default
		С7	gd		
c7gd.medium	315.00 / 10000.00	39.38 / 1250.00	2500.00 / 40000.00	✓	default
c7gd.large ¹	630.00 / 10000.00	78.75 / 1250.00	3600.00 / 40000.00	✓	default
c7gd.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
c7gd.2xlarge	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
c7gd.4xlarge 1	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
c7gd.8xlarge	10000.00	1250.00	40000.00	✓	default
c7gd.12xl arge	15000.00	1875.00	60000.00	✓	default
c7gd.16xl arge	20000.00	2500.00	80000.00	✓	default
c7gd.metal	20000.00	2500.00	80000.00	✓	default
		C7	gn		

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

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

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.

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

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation 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									

Instance store specifications 139

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
c5d.large	1 x 50 GB	NVMe SSD	20,000 / 9,000		✓
c5d.xlarge	1 x 100 GB	NVMe SSD	40,000 / 18,000		✓
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		✓
		C6	igd		
c6gd.medium	1 x 59 GB	NVMe SSD	13,438 / 5,625		✓
c6gd.large	1 x 118 GB	NVMe SSD	26,875 / 11,250		✓

Instance store specifications 140

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
c6gd.xlarge	1 x 237 GB	NVMe SSD	53,750 / 22,500		✓
c6gd.2xlarge	1 x 474 GB	NVMe SSD	107,500 / 45,000		✓
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		✓
		C	Sid		
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		✓

Instance store specifications 141

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
c6id.8xlarge	1 x 1900 GB	NVMe SSD	536,666 / 268,334		✓
c6id.12xlarge	2 x 1425 GB	NVMe SSD	804,998 / 402,500		✓
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		✓
		C 7	gd		
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		✓

Instance store specifications 142

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
c7gd.8xlarge	1 x 1900 GB	NVMe SSD	536,666 / 268,334		✓
c7gd.12xlarge	2 x 1425 GB	NVMe SSD	804,998 / 402,500		✓
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		✓

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

Security specifications

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

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

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

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

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

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
c6a.xlarge	✓	Instance store not supported	✓	✓	✓	✓
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	✓	X	✓	✓
c6a.32xlarge	✓	Instance store not supported	✓	X	✓	✓

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

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

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

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

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

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

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

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

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

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

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

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

Memory optimized instances

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

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Available sizes

Instance type	Available sizes
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.8xlar ge 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.8xlar ge r5b.12xlarge r5b.16xlarge r5b.24xlarge r5b.metal
R5d	r5d.large r5d.xlarge r5d.2xlarge r5d.4xlarge r5d.8xlar ge 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.8xlar ge r5n.12xlarge r5n.16xlarge r5n.24xlarge r5n.metal

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Instance type	Available sizes
R6a	r6a.large r6a.xlarge r6a.2xlarge r6a.4xlarge r6a.8xlar ge 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
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.8xlar ge r6i.12xlarge r6i.16xlarge r6i.24xlarge r6i.32xlarge r6i.metal
R6idn	r6idn.large r6idn.xlarge r6idn.2xlarge r6idn.4xlarge r6idn.8xlarge r6idn.12xlarge r6idn.16xlarge r6idn.24x large r6idn.32xlarge r6idn.metal
R6in	r6in.large r6in.xlarge r6in.2xlarge r6in.4xlarge r6in.8xlarge r6in.12xlarge r6in.16xlarge r6in.24xlarge r6in.32xlarge r6in.metal
R6id	r6id.large r6id.xlarge r6id.2xlarge r6id.4xlarge r6id.8xlarge r6id.12xlarge r6id.16xlarge r6id.24xlarge r6id.32xlarge r6id.metal
R7a	r7a.medium r7a.large r7a.xlarge r7a.2xlarge r7a.4xlar ge 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

Available sizes 162

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

Available sizes 163

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

Platform summary

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

Platform summary 164

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
R5n	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
R6a	Nitro	AMD (x86_64)	✓	✓	✓	x	Windows Linux
R6g	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
R6gd	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
R6i	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
R6idn	Nitro	Intel (x86_64)	✓	✓	✓	x	Windows Linux
R6in	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
R6id	Nitro	Intel (x86_64)	1	✓	1	X	Windows Linux
R7a	Nitro	AMD (x86_64)	✓	✓	✓	✓	Windows Linux
R7g	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux

Platform summary 165

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

Platform summary 166

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

Performance specifications

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
u-18tb1.1 12xlarge	X	18432.00	Intel Xeon Platinum 8280L	448	224	2	X
u-18tb1.metal	X	18432.00	Intel Xeon Platinum 8280L	448	224	2	X
			U-24tb1				
u-24tb1.1 12xlarge	X	24576.00	Intel Xeon Platinum 8280L	448	224	2	X
u-24tb1.metal	X	24576.00	Intel Xeon Platinum 8280L	448	224	2	X
			X1				
x1.16xlarge	X	976.00	Intel Xeon E7 8880 v3	64	32	2	X
x1.32xlarge	X	1952.00	Intel Xeon E7 8880 v3	128	64	2	X
			X2gd				
x2gd.medium	X	16.00	AWS Graviton2 Processor	1	1	1	X
x2gd.large	X	32.00	AWS Graviton2 Processor	2	2	1	X
x2gd.xlarge	X	64.00	AWS Graviton2 Processor	4	4	1	X
x2gd.2xlarge	X	128.00	AWS Graviton2 Processor	8	8	1	X

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

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

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

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

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			1	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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r5.24xlarge	25 Gigabit	X	✓	X	1	15	50	✓
r5.metal	25 Gigabit	X	✓	X	1	15	50	✓
			R	!5a				
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	✓
r5a.24xlarge	20 Gigabit	X	✓	x	1	15	50	✓
			R!	5ad				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r5ad.12xlarge	10 Gigabit	X	✓	X	1	8	30	✓
r5ad.16xlarge	12 Gigabit	X	✓	X	1	15	50	✓
r5ad.24xlarge	20 Gigabit	X	✓	X	1	15	50	✓
			R	15b				
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	✓
r5b.metal	25 Gigabit	X	✓	X	1	15	50	✓
			R	15d				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
			R	5dn				
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	✓
r5dn.24xlarge	100 Gigabit	✓	✓	X	1	15	50	✓
r5dn.metal	100 Gigabit	✓	✓	X	1	15	50	✓
			R	15n				

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r5n.large ¹	2.1 / 25.0	X	✓	X	1	3	10	✓
r5n.xlarge ¹	4.1 / 25.0	X	✓	X	1	4	15	✓
r5n.2xlarge ¹	8.125 / 25.0	X	✓	X	1	4	15	✓
r5n.4xlarge ¹	16.25 / 25.0	X	✓	x	1	8	30	✓
r5n.8xlarge	25 Gigabit	X	✓	X	1	8	30	✓
r5n.12xlarge	50 Gigabit	X	✓	x	1	8	30	✓
r5n.16xlarge	75 Gigabit	X	✓	X	1	15	50	✓
r5n.24xlarge	100 Gigabit	✓	✓	x	1	15	50	✓
r5n.metal	100 Gigabit	✓	✓	X	1	15	50	✓
			R	(6a				
r6a.large ¹	0.781 / 12.5	X	✓	X	1	3	10	✓
r6a.xlarge ¹	1.562 / 12.5	X	✓	X	1	4	15	✓
r6a.2xlarge ¹	3.125 / 12.5	X	✓	X	1	4	15	✓
r6a.4xlarge ¹	6.25 / 12.5	X	✓	X	1	8	30	✓
r6a.8xlarge	12.5 Gigabit	X	✓	X	1	8	30	✓
r6a.12xlarge	18.75 Gigabit	X	✓	X	1	8	30	✓
r6a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r6a.24xlarge	37.5 Gigabit	X	✓	X	1	15	50	✓
r6a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓
r6a.48xlarge	50 Gigabit	✓	✓	✓	1	15	50	✓
r6a.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			R	16g				
r6g.medium 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	✓
			R	6gd				
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 interface s per network card	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	✓
			F	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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r6i.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			Re	Sidn				
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	✓	X	1	8	30	✓
r6idn.12xlarge	75 Gigabit	X	✓	X	1	8	30	✓
r6idn.16xlarge	100 Gigabit	X	✓	X	1	15	50	✓
r6idn.24xlarge	150 Gigabit	X	✓	X	1	15	50	✓
r6idn.32xlarge	200 Gigabit	✓	✓	X	2	14	50	✓
r6idn.metal	200 Gigabit	✓	✓	X	2	14	50	✓
			R	6in				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r6in.4xlarge ¹	25.0 / 50.0	X	✓	X	1	8	30	✓
r6in.8xlarge	50 Gigabit	X	✓	X	1	8	30	✓
r6in.12xlarge	75 Gigabit	X	✓	X	1	8	30	✓
r6in.16xlarge	100 Gigabit	X	✓	X	1	15	50	✓
r6in.24xlarge	150 Gigabit	X	✓	X	1	15	50	✓
r6in.32xlarge	200 Gigabit	✓	✓	X	2	14	50	✓
r6in.metal	200 Gigabit	✓	✓	X	2	14	50	✓
			R	6id				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
r6id.metal	50 Gigabit	✓	✓	✓	1	15	50	✓
			R	17a				
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	✓
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	✓	X	1	8	30	✓
r7a.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓
r7a.24xlarge	37.5 Gigabit	X	✓	X	1	15	50	✓
r7a.32xlarge	50 Gigabit	X	✓	X	1	15	50	✓
r7a.48xlarge	50 Gigabit	✓	✓	X	1	15	50	✓
r7a.metal -48xl	50 Gigabit	✓	✓	X	1	15	50	✓
			R	.7g				
r7g.medium ¹	0.52 / 12.5	X	✓	X	1	2	4	✓
r7g.large ¹	0.937 / 12.5	X	✓	X	1	3	10	✓

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

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

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
			U-	3tb1				
u-3tb1.56 xlarge	50 Gigabit	X	✓	X	1	8	30	✓
			U-	6tb1				
u-6tb1.56 xlarge	100 Gigabit	X	✓	X	1	15	50	✓
u-6tb1.11 2xlarge	100 Gigabit	X	✓	X	1	15	50	✓
u-6tb1.metal	100	X	✓	X	1	5	30	✓
			U-	9tb1				
u-9tb1.11 2xlarge	100 Gigabit	X	✓	X	1	15	50	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
u-9tb1.metal	100	X	✓	X	1	5	30	✓
			U-1	2tb1				
u-12tb1.1 12xlarge	100 Gigabit	X	✓	X	1	15	50	✓
u-12tb1.metal	100	X	✓	X	1	5	30	✓
			U-1	8tb1				
u-18tb1.1 12xlarge	100 Gigabit	X	✓	X	1	15	50	✓
u-18tb1.metal	100 Gigabit	X	✓	X	1	15	50	✓
			U-2	24tb1				
u-24tb1.1 12xlarge	100 Gigabit	X	✓	X	1	15	50	✓
u-24tb1.metal	100 Gigabit	X	✓	X	1	15	50	✓
			2	X1				
x1.16xlarge	10 Gigabit	X	✓	X	1	8	30	✓
x1.32xlarge	25 Gigabit	X	✓	X	1	8	30	✓
			X	2gd				
x2gd.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 interface s per network card	IP addresses per interface	IPv6
x2gd.large ¹	0.75 / 10.0	X	✓	X	1	3	10	✓
x2gd.xlarge ¹	1.25 / 10.0	X	✓	X	1	4	15	✓
x2gd.2xlarge ¹	2.5 / 10.0	X	✓	X	1	4	15	✓
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	✓
			X2	2idn				
x2idn.16x large	50 Gigabit	X	✓	✓	1	15	50	✓
x2idn.24x large	75 Gigabit	X	✓	✓	1	15	50	✓
x2idn.32x large	100 Gigabit	✓	✓	✓	1	15	50	✓
x2idn.metal	100 Gigabit	✓	✓	✓	1	15	50	✓
			X2	iedn				
x2iedn.xlarge 1	1.875 / 25.0	X	✓	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
x2iedn.2x large ¹	5.0 / 25.0	X	✓	X	1	4	15	✓
x2iedn.4x large ¹	12.5 / 25.0	X	✓	X	1	8	30	✓
x2iedn.8x large	25 Gigabit	X	✓	✓	1	8	30	✓
x2iedn.16 xlarge	50 Gigabit	X	✓	✓	1	15	50	✓
x2iedn.24 xlarge	75 Gigabit	X	✓	✓	1	15	50	✓
x2iedn.32 xlarge	100 Gigabit	✓	✓	✓	1	15	50	✓
x2iedn.metal	100 Gigabit	✓	✓	✓	1	15	50	✓
			X2	iezn				
x2iezn.2xlarge 1	12.5 / 25.0	X	✓	X	1	4	15	✓
x2iezn.4xlarge 1	15.0 / 25.0	X	✓	X	1	8	30	✓
x2iezn.6xlarge	50 Gigabit	X	✓	X	1	8	30	✓
x2iezn.8xlarge	75 Gigabit	X	✓	X	1	8	30	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
x2iezn.12 xlarge	100 Gigabit	✓	✓	X	1	15	50	✓
x2iezn.metal	100 Gigabit	✓	✓	x	1	15	50	✓
			Х	(1e				
x1e.xlarge ¹	0.625 / 10.0	X	✓	X	1	3	10	✓
x1e.2xlarge ¹	1.25 / 10.0	X	✓	X	1	4	15	✓
x1e.4xlarge ¹	2.5 / 10.0	X	✓	X	1	4	15	✓
x1e.8xlarge ¹	5.0 / 10.0	X	✓	X	1	4	15	✓
x1e.16xlarge	10 Gigabit	X	✓	X	1	8	30	✓
x1e.32xlarge	25 Gigabit	X	✓	X	1	8	30	✓
			Z	1d				
z1d.large 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	✓
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 instances types can sustain their maximum performance indefinitely. For more information, see instance network bandwidth.

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

Amazon EBS specifications

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		R	5		
r5.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default
r5.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
r5.2xlarge ¹	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
r5.4xlarge	4750.00	593.75	18750.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r5.8xlarge	6800.00	850.00	30000.00	✓	default
r5.12xlarge	9500.00	1187.50	40000.00	✓	default
r5.16xlarge	13600.00	1700.00	60000.00	✓	default
r5.24xlarge	19000.00	2375.00	80000.00	✓	default
r5.metal	19000.00	2375.00	80000.00	✓	default
		R!	5a		
r5a.large ¹	650.00 / 2880.00	81.25 / 360.00	3600.00 / 16000.00	✓	default
r5a.xlarge ¹	1085.00 / 2880.00	135.62 / 360.00	6000.00 / 16000.00	✓	default
r5a.2xlarge ¹	1580.00 / 2880.00	197.50 / 360.00	8333.00 / 16000.00	✓	default
r5a.4xlarge	2880.00	360.00	16000.00	✓	default
r5a.8xlarge	4750.00	593.75	20000.00	✓	default
r5a.12xlarge	6780.00	847.50	30000.00	✓	default
r5a.16xlarge	9500.00	1187.50	40000.00	✓	default
r5a.24xlarge	13570.00	1696.25	60000.00	✓	default
		R5	ad		
r5ad.large ¹	650.00 / 2880.00	81.25 / 360.00	3600.00 / 16000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r5ad.xlarge ¹	1085.00 / 2880.00	135.62 / 360.00	6000.00 / 16000.00	✓	default
r5ad.2xlarge	1580.00 / 2880.00	197.50 / 360.00	8333.00 / 16000.00	✓	default
r5ad.4xlarge	2880.00	360.00	16000.00	✓	default
r5ad.8xlarge	4750.00	593.75	20000.00	✓	default
r5ad.12xl arge	6780.00	847.50	30000.00	✓	default
r5ad.16xl arge	9500.00	1187.50	40000.00	✓	default
r5ad.24xl arge	13570.00	1696.25	60000.00	✓	default
		R	5b		
r5b.large ¹	1250.00 / 10000.00	156.25 / 1250.00	5417.00 / 43333.00	✓	default
r5b.xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	10833.00 / 43333.00	✓	default
r5b.2xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	21667.00 / 43333.00	✓	default
r5b.4xlarge	10000.00	1250.00	43333.00	✓	default
r5b.8xlarge	20000.00	2500.00	86667.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r5b.12xlarge	30000.00	3750.00	130000.00	✓	default
r5b.16xlarge	40000.00	5000.00	173333.00	✓	default
r5b.24xlarge	60000.00	7500.00	260000.00	✓	default
r5b.metal	60000.00	7500.00	260000.00	✓	default
		R!	5d		
r5d.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default
r5d.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
r5d.2xlarge ¹	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
r5d.4xlarge	4750.00	593.75	18750.00	✓	default
r5d.8xlarge	6800.00	850.00	30000.00	✓	default
r5d.12xlarge	9500.00	1187.50	40000.00	✓	default
r5d.16xlarge	13600.00	1700.00	60000.00	✓	default
r5d.24xlarge	19000.00	2375.00	80000.00	✓	default
r5d.metal	19000.00	2375.00	80000.00	✓	default
		R5	dn		
r5dn.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r5dn.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
r5dn.2xlarge	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
r5dn.4xlarge	4750.00	593.75	18750.00	✓	default
r5dn.8xlarge	6800.00	850.00	30000.00	✓	default
r5dn.12xl arge	9500.00	1187.50	40000.00	✓	default
r5dn.16xl arge	13600.00	1700.00	60000.00	✓	default
r5dn.24xl arge	19000.00	2375.00	80000.00	✓	default
r5dn.metal	19000.00	2375.00	80000.00	✓	default
R5n					
r5n.large ¹	650.00 / 4750.00	81.25 / 593.75	3600.00 / 18750.00	✓	default
r5n.xlarge ¹	1150.00 / 4750.00	143.75 / 593.75	6000.00 / 18750.00	✓	default
r5n.2xlarge ¹	2300.00 / 4750.00	287.50 / 593.75	12000.00 / 18750.00	✓	default
r5n.4xlarge	4750.00	593.75	18750.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r5n.8xlarge	6800.00	850.00	30000.00	✓	default
r5n.12xlarge	9500.00	1187.50	40000.00	✓	default
r5n.16xlarge	13600.00	1700.00	60000.00	✓	default
r5n.24xlarge	19000.00	2375.00	80000.00	✓	default
r5n.metal	19000.00	2375.00	80000.00	✓	default
		Re	6a		
r6a.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
r6a.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
r6a.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
r6a.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
r6a.8xlarge	10000.00	1250.00	40000.00	✓	default
r6a.12xlarge	15000.00	1875.00	60000.00	✓	default
r6a.16xlarge	20000.00	2500.00	80000.00	✓	default
r6a.24xlarge	30000.00	3750.00	120000.00	✓	default
r6a.32xlarge	40000.00	5000.00	160000.00	✓	default
r6a.48xlarge	40000.00	5000.00	240000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r6a.metal	40000.00	5000.00	240000.00	✓	default
		R	5g		
r6g.medium 1	315.00 / 4750.00	39.38 / 593.75	2500.00 / 20000.00	✓	default
r6g.large ¹	630.00 / 4750.00	78.75 / 593.75	3600.00 / 20000.00	✓	default
r6g.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default
r6g.2xlarge ¹	2375.00 / 4750.00	296.88 / 593.75	12000.00 / 20000.00	✓	default
r6g.4xlarge	4750.00	593.75	20000.00	✓	default
r6g.8xlarge	9500.00	1187.50	40000.00	✓	default
r6g.12xlarge	14250.00	1781.25	50000.00	✓	default
r6g.16xlarge	19000.00	2375.00	80000.00	✓	default
r6g.metal	19000.00	2375.00	80000.00	✓	default
		R6	gd		
r6gd.medium	315.00 / 4750.00	39.38 / 593.75	2500.00 / 20000.00	✓	default
r6gd.large ¹	630.00 / 4750.00	78.75 / 593.75	3600.00 / 20000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r6gd.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default
r6gd.2xlarge	2375.00 / 4750.00	296.88 / 593.75	12000.00 / 20000.00	✓	default
r6gd.4xlarge	4750.00	593.75	20000.00	✓	default
r6gd.8xlarge	9500.00	1187.50	40000.00	✓	default
r6gd.12xl arge	14250.00	1781.25	50000.00	✓	default
r6gd.16xl arge	19000.00	2375.00	80000.00	✓	default
r6gd.metal	19000.00	2375.00	80000.00	✓	default
		R	6i		
r6i.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
r6i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
r6i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
r6i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
r6i.8xlarge	10000.00	1250.00	40000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r6i.12xlarge	15000.00	1875.00	60000.00	✓	default
r6i.16xlarge	20000.00	2500.00	80000.00	✓	default
r6i.24xlarge	30000.00	3750.00	120000.00	✓	default
r6i.32xlarge	40000.00	5000.00	160000.00	✓	default
r6i.metal	40000.00	5000.00	160000.00	✓	default
		R6	idn		
r6idn.large ¹	1562.00 / 25000.00	195.31 / 3125.00	6250.00 / 100000.00	✓	default
r6idn.xlarge ¹	3125.00 / 25000.00	390.62 / 3125.00	12500.00 / 100000.00	✓	default
r6idn.2xlarge 1	6250.00 / 25000.00	781.25 / 3125.00	25000.00 / 100000.00	✓	default
r6idn.4xlarge 1	12500.00 / 25000.00	1562.50 / 3125.00	50000.00 / 100000.00	✓	default
r6idn.8xlarge	25000.00	3125.00	100000.00	✓	default
r6idn.12x large	37500.00	4687.50	150000.00	✓	default
r6idn.16x large	50000.00	6250.00	200000.00	✓	default
r6idn.24x large	75000.00	9375.00	300000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r6idn.32x large	100000.00	12500.00	400000.00	✓	default
r6idn.metal	100000.00	12500.00	400000.00	✓	default
		Re	in		
r6in.large ¹	1562.00 / 25000.00	195.31 / 3125.00	6250.00 / 100000.00	✓	default
r6in.xlarge ¹	3125.00 / 25000.00	390.62 / 3125.00	12500.00 / 100000.00	✓	default
r6in.2xlarge ¹	6250.00 / 25000.00	781.25 / 3125.00	25000.00 / 100000.00	✓	default
r6in.4xlarge ¹	12500.00 / 25000.00	1562.50 / 3125.00	50000.00 / 100000.00	✓	default
r6in.8xlarge	25000.00	3125.00	100000.00	✓	default
r6in.12xlarge	37500.00	4687.50	150000.00	✓	default
r6in.16xlarge	50000.00	6250.00	200000.00	✓	default
r6in.24xlarge	75000.00	9375.00	300000.00	✓	default
r6in.32xlarge	100000.00	12500.00	400000.00	✓	default
r6in.metal	100000.00	12500.00	400000.00	✓	default
		Re	iid		

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

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

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
r7gd.16xl arge	20000.00	2500.00	80000.00	✓	default
r7gd.metal	20000.00	2500.00	80000.00	✓	default
		R	7i		
r7i.large ¹	650.00 / 10000.00	81.25 / 1250.00	3600.00 / 40000.00	✓	default
r7i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
r7i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	12000.00 / 40000.00	✓	default
r7i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
r7i.8xlarge	10000.00	1250.00	40000.00	✓	default
r7i.12xlarge	15000.00	1875.00	60000.00	✓	default
r7i.16xlarge	20000.00	2500.00	80000.00	✓	default
r7i.24xlarge	30000.00	3750.00	120000.00	✓	default
r7i.48xlarge	40000.00	5000.00	240000.00	✓	default
r7i.metal -24xl	30000.00	3750.00	120000.00	✓	default
r7i.metal -48xl	40000.00	5000.00	240000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		R7	7iz		
r7iz.large ¹	792.00 / 10000.00	99.00 / 1250.00	3600.00 / 40000.00	✓	default
r7iz.xlarge ¹	1584.00 / 10000.00	198.00 / 1250.00	6667.00 / 40000.00	✓	default
r7iz.2xlarge ¹	3168.00 / 10000.00	396.00 / 1250.00	13333.00 / 40000.00	✓	default
r7iz.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
r7iz.8xlarge	10000.00	1250.00	40000.00	✓	default
r7iz.12xlarge	19000.00	2375.00	76000.00	✓	default
r7iz.16xlarge	20000.00	2500.00	80000.00	✓	default
r7iz.32xlarge	40000.00	5000.00	160000.00	✓	default
r7iz.meta l-16xl	20000.00	2500.00	80000.00	✓	default
r7iz.meta l-32xl	40000.00	5000.00	160000.00	✓	default
		U-3	tb1		
u-3tb1.56 xlarge	19000.00	2375.00	80000.00	✓	default
		U-6	tb1		

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
u-6tb1.56 xlarge	38000.00	4750.00	160000.00	✓	default
u-6tb1.11 2xlarge	38000.00	4750.00	160000.00	✓	default
u-6tb1.metal	38000.00	4750.00	160000.00	✓	default
		U-9	tb1		
u-9tb1.11 2xlarge	38000.00	4750.00	160000.00	✓	default
u-9tb1.metal	38000.00	4750.00	160000.00	✓	default
		U-12	2tb1		
u-12tb1.1 12xlarge	38000.00	4750.00	160000.00	✓	default
u-12tb1.m etal	38000.00	4750.00	160000.00	✓	default
		U-18	3tb1		
u-18tb1.1 12xlarge	38000.00	4750.00	160000.00	✓	default
u-18tb1.m etal	38000.00	4750.00	160000.00	✓	default
		U-24	4tb1		

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
x2gd.16xl arge	19000.00	2375.00	80000.00	✓	default
x2gd.metal	19000.00	2375.00	80000.00	✓	default
		X2	idn		
x2idn.16x large	40000.00	5000.00	173333.00	✓	default
x2idn.24x large	60000.00	7500.00	260000.00	✓	default
x2idn.32x large	80000.00	10000.00	260000.00	✓	default
x2idn.metal	80000.00	10000.00	260000.00	✓	default
		X2i	edn		
x2iedn.xlarge 1	2500.00 / 20000.00	312.50 / 2500.00	8125.00 / 65000.00	✓	default
x2iedn.2x large ¹	5000.00 / 20000.00	625.00 / 2500.00	16250.00 / 65000.00	✓	default
x2iedn.4x large ¹	10000.00 / 20000.00	1250.00 / 2500.00	32500.00 / 65000.00	✓	default
x2iedn.8x large	20000.00	2500.00	65000.00	✓	default
x2iedn.16 xlarge	40000.00	5000.00	130000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
x2iedn.24 xlarge	60000.00	7500.00	195000.00	✓	default
x2iedn.32 xlarge	80000.00	10000.00	260000.00	✓	default
x2iedn.metal	80000.00	10000.00	260000.00	✓	default
		X2i	ezn		
x2iezn.2x large	3170.00	396.25	13333.00	✓	default
x2iezn.4x large	4750.00	593.75	20000.00	✓	default
x2iezn.6x large	9500.00	1187.50	40000.00	✓	default
x2iezn.8x large	12000.00	1500.00	55000.00	✓	default
x2iezn.12 xlarge	19000.00	2375.00	80000.00	✓	default
x2iezn.metal	19000.00	2375.00	80000.00	✓	default
		X	1e		
x1e.xlarge	500.00	62.50	3700.00	x	default
x1e.2xlarge	1000.00	125.00	7400.00	X	default
x1e.4xlarge	1750.00	218.75	10000.00	X	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
x1e.8xlarge	3500.00	437.50	20000.00	X	default			
x1e.16xlarge	7000.00	875.00	40000.00	X	default			
x1e.32xlarge	14000.00	1750.00	80000.00	X	default			
z1d								
z1d.large ¹	800.00 / 3170.00	100.00 / 396.25	3333.00 / 13333.00	✓	default			
z1d.xlarge ¹	1580.00 / 3170.00	197.50 / 396.25	6667.00 / 13333.00	✓	default			
z1d.2xlarge	3170.00	396.25	13333.00	✓	default			
z1d.3xlarge	4750.00	593.75	20000.00	✓	default			
z1d.6xlarge	9500.00	1187.50	40000.00	✓	default			
z1d.12xlarge	19000.00	2375.00	80000.00	✓	default			
z1d.metal	19000.00	2375.00	80000.00	✓	default			

Note

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.

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

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		R5	ad		
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		✓
r5ad.24xlarge	4 x 900 GB	NVMe SSD	1,400,000 / 680,000		✓
		R!	5d		

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
		R5	dn		
r5dn.large	1 x 75 GB	NVMe SSD	29,000 / 14,500		✓
r5dn.xlarge	1 x 150 GB	NVMe SSD	58,000 / 29,000		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
		R6	igd		
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		✓
r6gd.2xlarge	1 x 474 GB	NVMe SSD	107,500 / 45,000		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
		R6	idn		
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	Read / Write performance (IOPS)	Needs initializ ation 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		✓
		Re	Sid		
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		✓
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		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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		✓
		R7	'gd		
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		✓
r7gd.16xlarge	2 x 1900 GB	NVMe SSD	1,073,332 / 536,668		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
r7gd.metal	2 x 1900 GB	NVMe SSD	1,073,332 / 536,668		✓
		×	(1		
x1.16xlarge	1 x 1920 GB	SSD		✓	
x1.32xlarge	2 x 1920 GB	SSD		✓	
		X2	gd		
x2gd.medium	1 x 59 GB	NVMe SSD	13,438 / 5,625		✓
x2gd.large	1 x 118 GB	NVMe SSD	26,875 / 11,250		✓
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		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
x2gd.metal	2 x 1900 GB	NVMe SSD	860,000 / 360,000		✓
		X2	idn		
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		✓
		X2i	edn		
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		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
x2iedn.32xlarge	2 x 1900 GB	NVMe SSD	860,000 / 360,000		✓
x2iedn.metal	2 x 1900 GB	NVMe SSD	860,000 / 360,000		✓
		X	1e		
x1e.xlarge	1 x 120 GB	SSD		✓	
x1e.2xlarge	1 x 240 GB	SSD		✓	
x1e.4xlarge	1 x 480 GB	SSD		✓	
x1e.8xlarge	1 x 960 GB	SSD		✓	
x1e.16xlarge	1 x 1920 GB	SSD		✓	
x1e.32xlarge	2 x 1920 GB	SSD		✓	
		z	1d		
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		✓
z1d.3xlarge	1 x 450 GB	NVMe SSD	175,000 / 75,000		✓
z1d.6xlarge	1 x 900 GB	NVMe SSD	350,000 / 170,000		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
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.

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
			R5			
r5.large	✓	Instance store not supported	x	x	✓	X
r5.xlarge	✓	Instance store not supported	X	X	✓	✓
r5.2xlarge	✓	Instance store not supported	x	x	✓	✓
r5.4xlarge	✓	Instance store not	X	X	✓	✓

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
		supported				
r5.8xlarge	✓	Instance store not supported	x	x	✓	✓
r5.12xlarge	✓	Instance store not supported	x	x	✓	✓
r5.16xlarge	✓	Instance store not supported	x	X	✓	✓
r5.24xlarge	✓	Instance store not supported	X	X	✓	✓
r5.metal	✓	Instance store not supported	x	x	x	X
			R5a			
r5a.large	✓	Instance store not supported	X	X	✓	X
r5a.xlarge	✓	Instance store not supported	X	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r5a.2xlarge	√	Instance store not supported	X	X	✓	✓
r5a.4xlarge	√	Instance store not supported	X	X	✓	✓
r5a.8xlarge	✓	Instance store not supported	X	X	✓	✓
r5a.12xlarge	✓	Instance store not supported	X	X	✓	✓
r5a.16xlarge	✓	Instance store not supported	X	x	✓	✓
r5a.24xlarge	✓	Instance store not supported	X	X	✓	✓
		ı	R5ad			
r5ad.large	✓	✓	X	X	✓	X
r5ad.xlarge	✓	✓	X	X	✓	✓
r5ad.2xlarge	✓	✓	X	X	✓	✓
r5ad.4xlarge	✓	✓	x	x	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r5ad.8xlarge	✓	✓	X	X	✓	✓
r5ad.12xlarge	✓	✓	x	x	✓	✓
r5ad.16xlarge	✓	✓	x	x	✓	✓
r5ad.24xlarge	✓	✓	x	x	✓	✓
			R5b			
r5b.large	√	Instance store not supported	X	X	✓	X
r5b.xlarge	✓	Instance store not supported	X	X	✓	✓
r5b.2xlarge	✓	Instance store not supported	X	X	✓	✓
r5b.4xlarge	✓	Instance store not supported	X	X	✓	✓
r5b.8xlarge	✓	Instance store not supported	x	x	✓	✓
r5b.12xlarge	✓	Instance store not supported	X	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
r5b.16xlarge	✓	Instance store not supported	x	X	✓	✓		
r5b.24xlarge	✓	Instance store not supported	X	X	✓	✓		
r5b.metal	✓	Instance store not supported	x	X	X	X		
R5d								
r5d.large	✓	✓	x	x	✓	x		
r5d.xlarge	✓	✓	X	x	✓	✓		
r5d.2xlarge	✓	✓	x	x	✓	✓		
r5d.4xlarge	✓	✓	x	x	✓	✓		
r5d.8xlarge	✓	✓	x	x	✓	✓		
r5d.12xlarge	✓	✓	x	x	✓	✓		
r5d.16xlarge	✓	✓	x	x	✓	✓		
r5d.24xlarge	✓	✓	X	X	✓	✓		
r5d.metal	✓	✓	X	X	X	x		
		F	R5dn					
r5dn.large	✓	✓	✓	X	✓	x		

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r5dn.xlarge	✓	✓	✓	X	✓	✓
r5dn.2xlarge	✓	✓	✓	x	✓	✓
r5dn.4xlarge	✓	✓	✓	x	✓	✓
r5dn.8xlarge	✓	✓	✓	x	✓	✓
r5dn.12xlarge	✓	✓	✓	x	✓	✓
r5dn.16xlarge	✓	✓	✓	x	✓	✓
r5dn.24xlarge	✓	✓	✓	x	✓	✓
r5dn.metal	✓	✓	✓	x	X	x
			R5n			
r5n.large	✓	Instance store not supported	✓	x	√	X
r5n.xlarge	√	Instance store not supported	✓	X	✓	✓
r5n.2xlarge	✓	Instance store not supported	✓	x	✓	✓
r5n.4xlarge	√	Instance store not supported	✓	x	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r5n.8xlarge	✓	Instance store not supported	✓	X	✓	✓
r5n.12xlarge	✓	Instance store not supported	✓	X	✓	✓
r5n.16xlarge	✓	Instance store not supported	✓	x	✓	✓
r5n.24xlarge	✓	Instance store not supported	✓	X	✓	✓
r5n.metal	√	Instance store not supported	✓	x	X	x
			R6a			
r6a.large	✓	Instance store not supported	✓	✓	✓	X
r6a.xlarge	✓	Instance store not supported	✓	✓	✓	✓
r6a.2xlarge	✓	Instance store not supported	✓	✓	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r6a.4xlarge	✓	Instance store not supported	✓	✓	✓	✓
r6a.8xlarge	✓	Instance store not supported	✓	x	✓	✓
r6a.12xlarge	✓	Instance store not supported	✓	X	✓	✓
r6a.16xlarge	✓	Instance store not supported	✓	X	✓	✓
r6a.24xlarge	✓	Instance store not supported	✓	X	✓	✓
r6a.32xlarge	✓	Instance store not supported	✓	X	✓	✓
r6a.48xlarge	✓	Instance store not supported	✓	X	✓	✓
r6a.metal	✓	Instance store not supported	✓	X	X	X
			R6g			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r6g.medium	✓	Instance store not supported	X	x	X	X
r6g.large	✓	Instance store not supported	X	X	X	✓
r6g.xlarge	✓	Instance store not supported	X	X	X	✓
r6g.2xlarge	✓	Instance store not supported	X	X	X	✓
r6g.4xlarge	✓	Instance store not supported	x	X	x	✓
r6g.8xlarge	√	Instance store not supported	X	X	X	✓
r6g.12xlarge	✓	Instance store not supported	X	X	X	✓
r6g.16xlarge	✓	Instance store not supported	X	x	X	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
r6g.metal	✓	Instance store not supported	X	X	X	X			
R6gd									
r6gd.medium	✓	✓	x	x	x	x			
r6gd.large	✓	✓	x	x	x	✓			
r6gd.xlarge	✓	✓	x	x	x	✓			
r6gd.2xlarge	✓	✓	x	X	X	✓			
r6gd.4xlarge	✓	✓	x	x	x	✓			
r6gd.8xlarge	✓	✓	x	X	x	✓			
r6gd.12xlarge	✓	✓	x	x	x	✓			
r6gd.16xlarge	✓	✓	x	X	X	✓			
r6gd.metal	✓	✓	x	x	x	X			
			R6i						
r6i.large	✓	Instance store not supported	√	X	✓	X			
r6i.xlarge	✓	Instance store not supported	✓	x	✓	✓			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r6i.2xlarge	✓	Instance store not supported	✓	X	✓	✓
r6i.4xlarge	✓	Instance store not supported	✓	X	✓	✓
r6i.8xlarge	✓	Instance store not supported	✓	x	✓	✓
r6i.12xlarge	✓	Instance store not supported	✓	x	✓	✓
r6i.16xlarge	✓	Instance store not supported	✓	X	✓	✓
r6i.24xlarge	✓	Instance store not supported	✓	x	✓	✓
r6i.32xlarge	✓	Instance store not supported	✓	x	✓	✓
r6i.metal	✓	Instance store not supported	✓	X	X	X
		F	R6idn			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r6idn.large	✓	✓	✓	x	✓	x
r6idn.xlarge	✓	✓	✓	x	✓	✓
r6idn.2xlarge	✓	✓	✓	x	✓	✓
r6idn.4xlarge	✓	✓	✓	x	✓	✓
r6idn.8xlarge	✓	✓	✓	x	✓	✓
r6idn.12xlarge	✓	✓	✓	x	✓	✓
r6idn.16xlarge	✓	✓	✓	x	✓	✓
r6idn.24xlarge	✓	✓	✓	x	✓	✓
r6idn.32xlarge	✓	✓	✓	X	✓	✓
r6idn.metal	✓	✓	✓	x	x	x
R6in						
r6in.large	✓	Instance store not supported	√	x	√	X
r6in.xlarge	✓	Instance store not supported	✓	x	✓	✓
r6in.2xlarge	✓	Instance store not supported	✓	x	✓	✓

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

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r7a.4xlarge	✓	Instance store not supported	✓	x	✓	X
r7a.8xlarge	✓	Instance store not supported	✓	X	✓	X
r7a.12xlarge	✓	Instance store not supported	✓	X	✓	X
r7a.16xlarge	✓	Instance store not supported	✓	X	✓	X
r7a.24xlarge	✓	Instance store not supported	✓	x	✓	X
r7a.32xlarge	✓	Instance store not supported	✓	X	✓	X
r7a.48xlarge	✓	Instance store not supported	✓	X	✓	X
r7a.metal-48xl	✓	Instance store not supported	✓	X	X	X
			R7g			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r7g.medium	✓	Instance store not supported	✓	x	x	X
r7g.large	✓	Instance store not supported	✓	X	X	X
r7g.xlarge	✓	Instance store not supported	✓	x	x	X
r7g.2xlarge	✓	Instance store not supported	✓	x	x	X
r7g.4xlarge	✓	Instance store not supported	✓	x	x	X
r7g.8xlarge	✓	Instance store not supported	✓	X	X	X
r7g.12xlarge	✓	Instance store not supported	✓	X	X	X
r7g.16xlarge	✓	Instance store not supported	✓	x	x	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
r7g.metal	✓	Instance store not supported	✓	x	X	X			
R7gd									
r7gd.medium	✓	✓	✓	x	x	X			
r7gd.large	✓	✓	✓	x	X	X			
r7gd.xlarge	✓	✓	✓	x	x	x			
r7gd.2xlarge	✓	✓	✓	x	x	x			
r7gd.4xlarge	✓	✓	✓	x	x	x			
r7gd.8xlarge	✓	✓	✓	x	x	x			
r7gd.12xlarge	✓	✓	✓	x	x	x			
r7gd.16xlarge	✓	✓	✓	X	x	x			
r7gd.metal	✓	✓	✓	x	x	x			
			R7i						
r7i.large	✓	Instance store not supported	✓	x	✓	X			
r7i.xlarge	✓	Instance store not supported	✓	x	✓	X			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r7i.2xlarge	✓	Instance store not supported	✓	x	✓	X
r7i.4xlarge	✓	Instance store not supported	✓	X	✓	X
r7i.8xlarge	✓	Instance store not supported	✓	X	✓	X
r7i.12xlarge	✓	Instance store not supported	✓	x	✓	X
r7i.16xlarge	✓	Instance store not supported	✓	x	✓	X
r7i.24xlarge	✓	Instance store not supported	✓	X	✓	X
r7i.48xlarge	✓	Instance store not supported	✓	X	✓	X
r7i.metal-24xl	✓	Instance store not supported	✓	X	X	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r7i.metal-48xl	√	Instance store not supported	✓	X	X	X
			R7iz			
r7iz.large	✓	Instance store not supported	✓	X	✓	X
r7iz.xlarge	✓	Instance store not supported	✓	X	✓	X
r7iz.2xlarge	✓	Instance store not supported	✓	x	✓	X
r7iz.4xlarge	√	Instance store not supported	✓	x	✓	x
r7iz.8xlarge	✓	Instance store not supported	✓	x	✓	X
r7iz.12xlarge	✓	Instance store not supported	√	x	√	X
r7iz.16xlarge	√	Instance store not supported	✓	x	✓	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r7iz.32xlarge	✓	Instance store not supported	✓	X	✓	X
r7iz.metal-16xl	✓	Instance store not supported	✓	X	X	X
r7iz.metal-32xl	✓	Instance store not supported	✓	X	X	X
		U	-3tb1			
u-3tb1.56xlarge	✓	Instance store not supported	✓	X	X	X
		U	-6tb1			
u-6tb1.56xlarge	✓	Instance store not supported	✓	X	x	X
u-6tb1.112xlarge	✓	Instance store not supported	✓	X	x	X
u-6tb1.metal	✓	Instance store not supported	✓	X	x	X
		U	-9tb1			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
u-9tb1.112xlarge	✓	Instance store not supported	✓	x	x	X		
u-9tb1.metal	✓	Instance store not supported	✓	X	X	X		
U-12tb1								
u-12tb1.112xlarge	✓	Instance store not supported	✓	X	X	X		
u-12tb1.metal	✓	Instance store not supported	✓	X	X	X		
		U-	18tb1					
u-18tb1.112xlarge	✓	Instance store not supported	✓	X	X	X		
u-18tb1.metal	✓	Instance store not supported	✓	X	X	X		
		U-	24tb1					
u-24tb1.112xlarge	✓	Instance store not supported	✓	X	X	X		

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
u-24tb1.metal	✓	Instance store not supported	✓	X	x	X		
			X1					
x1.16xlarge	✓	X	X	X	X	x		
x1.32xlarge	✓	X	X	X	X	x		
X2gd								
x2gd.medium	✓	✓	X	x	X	x		
x2gd.large	✓	✓	x	x	X	✓		
x2gd.xlarge	✓	✓	X	X	X	✓		
x2gd.2xlarge	✓	✓	x	x	x	✓		
x2gd.4xlarge	✓	✓	X	x	x	✓		
x2gd.8xlarge	✓	✓	x	x	x	✓		
x2gd.12xlarge	✓	✓	X	x	x	✓		
x2gd.16xlarge	✓	✓	x	x	x	✓		
x2gd.metal	✓	✓	x	x	x	x		
X2idn								
x2idn.16xlarge	✓	✓	✓	X	X	✓		
x2idn.24xlarge	✓	✓	✓	x	x	✓		

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
x2idn.32xlarge	✓	✓	✓	X	X	✓
x2idn.metal	✓	✓	✓	x	x	x
		X	2iedn			
x2iedn.xlarge	✓	✓	✓	x	x	✓
x2iedn.2xlarge	✓	✓	✓	x	x	✓
x2iedn.4xlarge	✓	✓	✓	x	x	✓
x2iedn.8xlarge	✓	✓	✓	x	x	✓
x2iedn.16xlarge	✓	✓	✓	X	x	✓
x2iedn.24xlarge	✓	✓	✓	x	x	✓
x2iedn.32xlarge	✓	✓	✓	X	x	✓
x2iedn.metal	✓	✓	✓	X	x	x
		х	2iezn			
x2iezn.2xlarge	✓	Instance store not supported	✓	x	X	✓
x2iezn.4xlarge	✓	Instance store not supported	✓	x	X	✓
x2iezn.6xlarge	✓	Instance store not supported	✓	X	X	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves			
x2iezn.8xlarge	✓	Instance store not supported	✓	x	X	✓			
x2iezn.12xlarge	✓	Instance store not supported	✓	x	x	✓			
x2iezn.metal	✓	Instance store not supported	✓	x	x	X			
X1e									
x1e.xlarge	✓	x	x	x	x	x			
x1e.2xlarge	✓	X	x	X	x	x			
x1e.4xlarge	✓	x	x	x	x	x			
x1e.8xlarge	✓	x	x	X	x	x			
x1e.16xlarge	✓	x	x	x	x	x			
x1e.32xlarge	✓	x	x	X	x	x			
			z1d						
z1d.large	✓	✓	X	X	✓	x			
z1d.xlarge	✓	✓	X	X	✓	✓			
z1d.2xlarge	✓	✓	X	X	✓	✓			
z1d.3xlarge	✓	✓	x	x	✓	✓			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
z1d.6xlarge	✓	✓	X	X	✓	✓
z1d.12xlarge	✓	✓	x	x	✓	✓
z1d.metal	✓	✓	x	x	x	X

Storage optimized instances

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

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Available sizes

Instance type	Available sizes
D2	d2.xlarge d2.2xlarge d2.4xlarge d2.8xlarge
D3	d3.xlarge d3.2xlarge d3.4xlarge d3.8xlarge

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

Platform summary

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
D2	Xen	Intel (x86_64)	X	✓	✓	x	Windows Linux

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Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
D3	Nitro	Intel (x86_64)	X	X	✓	X	Windows Linux
D3en	Nitro	Intel (x86_64)	X	X	✓	X	Windows Linux
H1	Xen	Intel (x86_64)	X	✓	✓	X	Windows Linux
13	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux
l3en	Nitro	Intel (x86_64)	✓	✓	✓	✓	Windows Linux
l4g	Nitro	AWS Graviton (arm64)	X	✓	✓	X	Linux
I4i	Nitro	Intel (x86_64)	✓	✓	✓	X	Windows Linux
lm4gn	Nitro	AWS Graviton (arm64)	X	✓	✓	X	Linux
ls4gen	Nitro	AWS Graviton (arm64)	X	X	✓	X	Linux

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Performance specifications

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

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

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

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

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

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

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	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	✓			
			D	3en							
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	✓			

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6		
d3en.12xlarge	75 Gigabit	X	✓	X	1	3	30	✓		
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	✓		
	13									
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	✓		
	l3en									
i3en.large ¹	2.1 / 25.0	X	✓	X	1	3	10	✓		
i3en.xlarge ¹	4.2 / 25.0	X	✓	X	1	4	15	✓		

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6	
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	✓	
i3en.12xlarge	50 Gigabit	✓	✓	X	1	8	30	✓	
i3en.24xlarge	100 Gigabit	✓	✓	X	1	15	50	✓	
i3en.metal	100 Gigabit	✓	✓	X	1	15	50	✓	
I4g									
i4g.large ¹	0.781 / 10.0	X	✓	X	1	3	10	✓	
i4g.xlarge ¹	1.875 / 10.0	X	✓	X	1	4	15	✓	
i4g.2xlarge ¹	4.687 / 12.0	X	✓	X	1	4	15	✓	
i4g.4xlarge ¹	9.375 / 25.0	X	✓	✓	1	8	30	✓	
i4g.8xlarge	18.75 Gigabit	X	✓	✓	1	8	30	✓	
i4g.16xlarge	37.5 Gigabit	✓	✓	✓	1	15	50	✓	
	I4i								
i4i.large ¹	0.781 / 10.0	X	✓	X	1	3	10	✓	
i4i.xlarge ¹	1.875 / 10.0	X	✓	x	1	4	15	✓	
i4i.2xlarge ¹	4.687 / 12.0	X	✓	X	1	4	15	✓	

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
i4i.4xlarge ¹	9.375 / 25.0	X	✓	X	1	8	30	✓
i4i.8xlarge	18.75 Gigabit	X	✓	✓	1	8	30	✓
i4i.12xlarge	28.12 Gigabit	X	✓	✓	1	8	30	✓
i4i.16xlarge	37.5 Gigabit	X	✓	✓	1	15	50	✓
i4i.24xlarge	56.25 Gigabit	X	✓	✓	1	15	30	✓
i4i.32xlarge	75 Gigabit	✓	✓	✓	1	15	50	✓
i4i.metal	75 Gigabit	✓	✓	✓	1	15	50	✓
			lm	4gn				
im4gn.large ¹	3.125 / 25.0	X	✓	x	1	3	10	✓
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.16x large	100 Gigabit	✓	✓	✓	1	15	50	✓
			ls4	lgen				
is4gen.me dium ¹	1.562 / 25.0	X	✓	X	1	2	4	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓



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 instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

Amazon EBS specifications

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
D2								

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
d2.xlarge	750.00	93.75	6000.00	X	default			
d2.2xlarge	1000.00	125.00	8000.00	X	default			
d2.4xlarge	2000.00	250.00	16000.00	X	default			
d2.8xlarge	4000.00	500.00	32000.00	X	default			
D3								
d3.xlarge ¹	850.00 / 2800.00	106.25 / 350.00	5000.00 / 15000.00	✓	default			
d3.2xlarge ¹	1700.00 / 2800.00	212.50 / 350.00	10000.00 / 15000.00	✓	default			
d3.4xlarge	2800.00	350.00	15000.00	✓	default			
d3.8xlarge	5000.00	625.00	30000.00	✓	default			
		D3	en					
d3en.xlarge ¹	850.00 / 2800.00	106.25 / 350.00	5000.00 / 15000.00	✓	default			
d3en.2xlarge 1	1700.00 / 2800.00	212.50 / 350.00	10000.00 / 15000.00	✓	default			
d3en.4xlarge	2800.00	350.00	15000.00	✓	default			
d3en.6xlarge	4000.00	500.00	25000.00	✓	default			
d3en.8xlarge	5000.00	625.00	30000.00	✓	default			

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
d3en.12xl arge	7000.00	875.00	40000.00	✓	default			
		н	1					
h1.2xlarge	1750.00	218.75	12000.00	x	default			
h1.4xlarge	3500.00	437.50	20000.00	x	default			
h1.8xlarge	7000.00	875.00	40000.00	X	default			
h1.16xlarge	14000.00	1750.00	80000.00	X	default			
13								
i3.large	425.00	53.12	3000.00	X	default			
i3.xlarge	850.00	106.25	6000.00	X	default			
i3.2xlarge	1700.00	212.50	12000.00	X	default			
i3.4xlarge	3500.00	437.50	16000.00	X	default			
i3.8xlarge	7000.00	875.00	32500.00	X	default			
i3.16xlarge	14000.00	1750.00	65000.00	X	default			
i3.metal	19000.00	2375.00	80000.00	✓	default			
		13	en					
i3en.large ¹	576.00 / 4750.00	72.10 / 593.75	3000.00 / 20000.00	✓	default			

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
i3en.xlarge ¹	1153.00 / 4750.00	144.20 / 593.75	6000.00 / 20000.00	✓	default
i3en.2xlarge 1	2307.00 / 4750.00	288.39 / 593.75	12000.00 / 20000.00	✓	default
i3en.3xlarge 1	3800.00 / 4750.00	475.00 / 593.75	15000.00 / 20000.00	✓	default
i3en.6xlarge	4750.00	593.75	20000.00	✓	default
i3en.12xlarge	9500.00	1187.50	40000.00	✓	default
i3en.24xlarge	19000.00	2375.00	80000.00	✓	default
i3en.metal	19000.00	2375.00	80000.00	✓	default
		14	lg		
i4g.large ¹	625.00 / 10000.00	78.12 / 1250.00	2500.00 / 40000.00	✓	default
i4g.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	5000.00 / 40000.00	✓	default
i4g.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	10000.00 / 40000.00	✓	default
i4g.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
i4g.8xlarge	10000.00	1250.00	40000.00	✓	default
i4g.16xlarge	20000.00	2500.00	80000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		14	4i		
i4i.large ¹	625.00 / 10000.00	78.12 / 1250.00	2500.00 / 40000.00	✓	default
i4i.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	5000.00 / 40000.00	✓	default
i4i.2xlarge ¹	2500.00 / 10000.00	312.50 / 1250.00	10000.00 / 40000.00	✓	default
i4i.4xlarge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default
i4i.8xlarge	10000.00	1250.00	40000.00	✓	default
i4i.12xlarge	15000.00	1875.00	60000.00	✓	default
i4i.16xlarge	20000.00	2500.00	80000.00	✓	default
i4i.24xlarge	30000.00	3750.00	120000.00	✓	default
i4i.32xlarge	40000.00	5000.00	160000.00	✓	default
i4i.metal	40000.00	5000.00	160000.00	✓	default
		lm4	4gn		
im4gn.large ¹	1250.00 / 10000.00	156.25 / 1250.00	5000.00 / 40000.00	✓	default
im4gn.xlarge	2500.00 / 10000.00	312.50 / 1250.00	10000.00 / 40000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2			
im4gn.2xl arge ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default			
im4gn.4xl arge	10000.00	1250.00	40000.00	✓	default			
im4gn.8xl arge	20000.00	2500.00	80000.00	✓	default			
im4gn.16x large	40000.00	5000.00	160000.00	✓	default			
ls4gen								
is4gen.me dium ¹	625.00 / 10000.00	78.12 / 1250.00	2500.00 / 40000.00	✓	default			
is4gen.large ¹	1250.00 / 10000.00	156.25 / 1250.00	5000.00 / 40000.00	✓	default			
is4gen.xlarge 1	2500.00 / 10000.00	312.50 / 1250.00	10000.00 / 40000.00	✓	default			
is4gen.2x large ¹	5000.00 / 10000.00	625.00 / 1250.00	20000.00 / 40000.00	✓	default			
is4gen.4x large	10000.00	1250.00	40000.00	✓	default			
is4gen.8x large	20000.00	2500.00	80000.00	✓	default			



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.

² default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS-optimized instances.

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation 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		✓					
		D	3						
d3.xlarge	3 x 1980 GB	NVMe HDD			✓				
d3.2xlarge	6 x 1980 GB	NVMe HDD			✓				

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2			
d3.4xlarge	12 x 1980 GB	NVMe HDD			✓			
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			✓			
		н	11					
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		✓				

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2			
13								
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		✓			
l3en								
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	Read / Write performance (IOPS)	Needs initializ ation 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		✓	
14i						
i4i.large	1 x 468 GB	NVMe SSD	50,000 / 27,500		✓	

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation 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		✓		
lm4gn							
im4gn.large	1 x 937 GB	NVMe SSD	31,250 / 25,000		✓		
im4gn.xlarge	1 x 1875 GB	NVMe SSD	62,500 / 50,000		✓		

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
im4gn.2xlarge	1 x 3750 GB	NVMe SSD	125,000 / 100,000		✓
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		✓
		ls4	gen		
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.

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
			D2			
d2.xlarge	✓	x	x	x	x	x
d2.2xlarge	✓	X	X	x	X	x
d2.4xlarge	✓	x	x	x	x	x
d2.8xlarge	✓	X	X	X	x	x
			D3			
d3.xlarge	✓	✓	✓	X	✓	✓
d3.2xlarge	✓	✓	✓	x	✓	✓
d3.4xlarge	✓	✓	✓	X	✓	✓
d3.8xlarge	✓	✓	✓	x	✓	✓
		ı	D3en			
d3en.xlarge	✓	✓	✓	x	✓	✓
d3en.2xlarge	✓	✓	✓	X	✓	✓
d3en.4xlarge	✓	✓	✓	X	✓	✓
d3en.6xlarge	✓	✓	✓	X	✓	✓
d3en.8xlarge	✓	✓	✓	x	✓	✓

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

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
d3en.12xlarge	✓	✓	✓	x	✓	✓
			Н1			
h1.2xlarge	✓	✓	X	x	X	x
h1.4xlarge	✓	✓	x	x	x	x
h1.8xlarge	✓	✓	X	x	X	x
h1.16xlarge	✓	✓	x	x	x	x
			13			
i3.large	✓	✓	x	x	x	x
i3.xlarge	✓	✓	x	x	x	x
i3.2xlarge	✓	✓	x	x	x	x
i3.4xlarge	✓	✓	x	x	X	x
i3.8xlarge	✓	✓	x	x	x	x
i3.16xlarge	✓	✓	x	x	X	x
i3.metal	✓	✓	x	x	x	x
			l3en			
i3en.large	✓	✓	✓	X	✓	x
i3en.xlarge	✓	✓	✓	X	✓	✓
i3en.2xlarge	✓	✓	✓	X	✓	✓
i3en.3xlarge	✓	✓	✓	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
i3en.6xlarge	✓	✓	✓	x	✓	✓
i3en.12xlarge	✓	✓	✓	x	✓	✓
i3en.24xlarge	✓	✓	✓	X	✓	✓
i3en.metal	✓	✓	✓	x	x	x
			I4g			
i4g.large	✓	✓	✓	x	x	✓
i4g.xlarge	✓	✓	✓	x	x	✓
i4g.2xlarge	✓ ✓ .		✓	x	X	✓
i4g.4xlarge	✓	✓	✓	x	x	✓
i4g.8xlarge	✓	✓	✓	x	X	✓
i4g.16xlarge	✓	✓	✓	x x		✓
			l4i			
i4i.large	✓	✓	✓	x	✓	x
i4i.xlarge	✓	✓	✓	X	✓	✓
i4i.2xlarge	✓	✓	✓	x	✓	✓
i4i.4xlarge	✓	✓	✓	X	✓	✓
i4i.8xlarge	✓	✓	✓	X	✓	✓
i4i.12xlarge	✓	✓	✓	X	✓	✓
i4i.16xlarge	✓	✓	✓	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
i4i.24xlarge	✓	✓	✓	x	✓	✓
i4i.32xlarge	✓	✓	✓	x	✓	✓
i4i.metal	✓	✓	✓	x	x	X
		lr	m4gn			
im4gn.large	✓	✓	✓	x	x	x
im4gn.xlarge	✓	✓	✓	x	x	x
im4gn.2xlarge	✓	✓	✓	X	x	x
im4gn.4xlarge	✓	✓	✓	X	x	x
im4gn.8xlarge	✓	✓	✓	x	x	x
im4gn.16xlarge	✓	✓	✓	x	x	x
		Is	4gen			
is4gen.medium	✓	✓	✓	x	x	x
is4gen.large	✓	✓	✓	x	x	x
is4gen.xlarge	✓	✓	✓	x	x	x
is4gen.2xlarge	✓	✓	✓	X	X	x
is4gen.4xlarge	✓	✓	✓	X	X	x
is4gen.8xlarge	✓	✓	✓	X	X	X

Accelerated computing instances

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

Contents

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

Available sizes

Instance type	Available sizes
DL1	dl1.24xlarge
DL2q	dl2q.24xlarge
F1	f1.2xlarge f1.4xlarge f1.16xlarge
G3	g3.4xlarge g3.8xlarge g3.16xlarge
G4ad	g4ad.xlarge g4ad.2xlarge g4ad.4xlarge g4ad.8xlarge g4ad.16xlarge
G4dn	g4dn.xlarge g4dn.2xlarge g4dn.4xlarge g4dn.8xlarge g4dn.12xlarge g4dn.16xlarge g4dn.metal
G5	g5.xlarge g5.2xlarge g5.4xlarge g5.8xlarge g5.12xlarge g5.16xlarge g5.24xlarge g5.48xlarge

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Instance type	Available sizes
G5g	g5g.xlarge g5g.2xlarge g5g.4xlarge g5g.8xlarge g5g.16xlarge g5g.metal
Inf1	<pre>inf1.xlarge inf1.2xlarge inf1.6xlarge inf1.24xlarge</pre>
Inf2	<pre>inf2.xlarge inf2.8xlarge inf2.24xlarge inf2.48xlarge</pre>
P2	p2.xlarge p2.8xlarge p2.16xlarge
P3	p3.2xlarge p3.8xlarge p3.16xlarge
P3dn	p3dn.24xlarge
P4d	p4d.24xlarge
P4de	p4de.24xlarge
P5	p5.48xlarge
Trn1	trn1.2xlarge trn1.32xlarge
Trn1n	trn1n.32xlarge
VT1	vt1.3xlarge vt1.6xlarge vt1.24xlarge

Platform summary

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
DL1	Nitro	Intel (x86_64)	X	✓	✓	X	Linux

Platform summary 290

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
DL2q	Nitro	Intel (x86_64)	x	X	x	X	Linux
F1	Xen	Intel (x86_64)	x	✓	✓	x	Linux
G3	Xen	Intel (x86_64)	x	✓	✓	x	Windows Linux
G4ad	Nitro	AMD (x86_64)	x	✓	✓	x	Windows Linux
G4dn	Nitro	Intel (x86_64)	✓	✓	✓	x	Windows Linux
G5	Nitro	AMD (x86_64)	x	✓	✓	X	Windows Linux
G5g	Nitro	AWS Graviton (arm64)	✓	✓	✓	X	Linux
Inf1	Nitro	Intel (x86_64)	x	✓	✓	X	Linux
Inf2	Nitro	AMD (x86_64)	X	✓	✓	X	Linux
P2	Xen	Intel (x86_64)	x	✓	✓	X	Windows Linux
Р3	Xen	Intel (x86_64)	X	✓	1	X	Windows Linux

Platform summary 291

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
P3dn	Nitro	Intel (x86_64)	X	X	✓	X	Windows Linux
P4d	Nitro	Intel (x86_64)	X	✓	✓	X	Linux
P4de	Nitro	Intel (x86_64)	x	✓	X	X	Linux
P5	Nitro	AMD (x86_64)	x	✓	✓	X	Linux
Trn1	Nitro	Intel (x86_64)	x	✓	✓	X	Linux
Trn1n	Nitro	Intel (x86_64)	x	X	✓	X	Linux
VT1	Nitro	Intel (x86_64)	X	X	✓	X	Linux

Performance specifications

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors	
DL1								
dl1.24xlarge	X	768.00	Intel Xeon P-8275CL	96	48	2	8 x GPU	
DL2q								

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
dl2q.24xlarge	X	768.00	Intel Xeon Cascade Lake	96	48	2	8 x inference accelerator
			F1				
f1.2xlarge	X	122.00	Intel Xeon E5-2686v4	8	4	2	1 x FPGA
f1.4xlarge	X	244.00	Intel Xeon E5-2686v4	16	8	2	2 x FPGA
f1.16xlarge	X	976.00	Intel Xeon E5-2686v4	64	32	2	8 x FPGA
			G3				
g3.4xlarge	X	122.00	Intel Xeon E5-2686 v4	16	8	2	1 x GPU
g3.8xlarge	X	244.00	Intel Xeon E5-2686 v4	32	16	2	2 x GPU
g3.16xlarge	X	488.00	Intel Xeon E5-2686 v4	64	32	2	4 x GPU
			G4ad				
g4ad.xlarge	X	16.00	2nd Gen AMD EPYC 7R32	4	2	2	1 x GPU
g4ad.2xlarge	X	32.00	2nd Gen AMD EPYC 7R32	8	4	2	1 x GPU
g4ad.4xlarge	X	64.00	2nd Gen AMD EPYC 7R32	16	8	2	1 x GPU

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
g4ad.8xlarge	X	128.00	2nd Gen AMD EPYC 7R32	32	16	2	2 x GPU
g4ad.16xlarge	X	256.00	2nd Gen AMD EPYC 7R32	64	32	2	4 x GPU
			G4dn				
g4dn.xlarge	X	16.00	Intel Xeon P-8259L	4	2	2	1 x GPU
g4dn.2xlarge	X	32.00	Intel Xeon P-8259L	8	4	2	1 x GPU
g4dn.4xlarge	X	64.00	Intel Xeon P-8259L	16	8	2	1 x GPU
g4dn.8xlarge	X	128.00	Intel Xeon P-8259L	32	16	2	1 x GPU
g4dn.12xlarge	X	192.00	Intel Xeon P-8259L	48	24	2	4 x GPU
g4dn.16xlarge	X	256.00	Intel Xeon P-8259L	64	32	2	1 x GPU
g4dn.metal	X	384.00	Intel Xeon P-8259L	96	48	2	8 x GPU
			G5				
g5.xlarge	X	16.00	2nd Gen AMD EPYC 7R32	4	2	2	1 x GPU
g5.2xlarge	X	32.00	2nd Gen AMD EPYC 7R32	8	4	2	1 x GPU

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
g5g.metal	X	128.00	AWS Graviton2 Processor	64	64	1	2 x GPU
			Inf1				
inf1.xlarge	X	8.00	Intel Xeon P-8259L	4	2	2	1 x inference accelerator
inf1.2xlarge	X	16.00	Intel Xeon P-8259L	8	4	2	1 x inference accelerator
inf1.6xlarge	X	48.00	Intel Xeon P-8259L	24	12	2	4 x inference accelerator
inf1.24xlarge	X	192.00	Intel Xeon P-8259L	96	48	2	16 x inference accelerator
			Inf2				
inf2.xlarge	X	16.00	AMD EPYC 7R13	4	2	2	1 x inference accelerator
inf2.8xlarge	X	128.00	AMD EPYC 7R13	32	16	2	1 x inference accelerator
inf2.24xlarge	X	384.00	AMD EPYC 7R13	96	48	2	6 x inference accelerator

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
inf2.48xlarge	X	768.00	AMD EPYC 7R13	192	96	2	12 x inference accelerator
			P2				
p2.xlarge	X	61.00	Intel Xeon E5-2686v4	4	2	2	1 x GPU
p2.8xlarge	X	488.00	Intel Xeon E5-2686v4	32	16	2	8 x GPU
p2.16xlarge	X	732.00	Intel Xeon E5-2686 v4	64	32	2	16 x GPU
			Р3				
p3.2xlarge	X	61.00	Intel Xeon E5-2686 v4	8	4	2	1 x GPU
p3.8xlarge	X	244.00	Intel Xeon E5-2686 v4	32	16	2	4 x GPU
p3.16xlarge	X	488.00	Intel Xeon E5-2686 v4	64	32	2	8 x GPU
			P3dn				
p3dn.24xlarge	X	768.00	Intel Xeon Platinum 8175	96	48	2	8 x GPU
			P4d				
p4d.24xlarge	X	1152.00	Intel Xeon Platinum 8175	96	48	2	8 x GPU

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
			P4de				
p4de.24xlarge	X	1152.00	Intel Xeon Platinum 8175	96	48	2	8 x GPU
			P5				
p5.48xlarge	X	2048.00	AMD EPYC 7R13	192	96	2	8 x GPU
			Trn1				
trn1.2xlarge	X	32.00	Intel Xeon Ice Lake 8375C	8	4	2	X
trn1.32xlarge	X	512.00	Intel Xeon Ice Lake 8375C	128	64	2	X
			Trn1n				
trn1n.32x large	X	512.00	Intel Xeon Ice Lake	128	64	2	X
			VT1				
vt1.3xlarge	X	24.00	Intel Cascade Lake P-8259CL	12	6	2	X
vt1.6xlarge	X	48.00	Intel Cascade Lake P-8259CL	24	12	2	X
vt1.24xlarge	X	192.00	Intel Cascade Lake P-8259CL	96	48	2	X



Note

trn1n.32xlarge instances feature 16 Trainium Accelerators.

Trn1 instances feature the following number of Trainium Accelerators.

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

VT1 instances feature the following number of U30 Accelerators.

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

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
				DL1				
dl1.24xlarge	4x 100 Gigabit	✓	✓	X	4	60	50	✓
				DL2q				
dl2q.24xlarge	100 Gigabit	✓	✓	X	1	15	50	✓
				F1				
f1.2xlarge ¹	Up to 10 Gigabit	X	✓	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
f1.4xlarge ¹	Up to 10 Gigabit	X	✓	X	1	8	30	✓
f1.16xlarge	25 Gigabit	X	✓	X	1	8	50	✓
				G3				
g3.4xlarge ¹	Up to 10 Gigabit	X	✓	X	1	8	30	✓
g3.8xlarge	10 Gigabit	X	✓	X	1	8	30	✓
g3.16xlarge	25 Gigabit	X	✓	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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
g4dn.4xlarge 1	20.0 / 25.0	X	✓	X	1	3	10	✓
g4dn.8xlarge	50 Gigabit	✓	✓	x	1	4	15	✓
g4dn.12xlarge	50 Gigabit	✓	✓	X	1	8	30	✓
g4dn.16xlarge	50 Gigabit	✓	✓	X	1	4	15	✓
g4dn.metal	100 Gigabit	✓	✓	X	1	15	50	✓
				G5				
g5.xlarge ¹	2.5 / 10.0	X	✓	X	1	4	15	✓
g5.2xlarge ¹	5.0 / 10.0	X	✓	X	1	4	15	✓
g5.4xlarge ¹	10.0 / 25.0	X	✓	X	1	8	30	✓
g5.8xlarge	25 Gigabit	✓	✓	X	1	8	30	✓
g5.12xlarge	40 Gigabit	✓	✓	x	1	15	50	✓
g5.16xlarge	25 Gigabit	✓	✓	X	1	8	30	✓
g5.24xlarge	50 Gigabit	✓	✓	x	1	15	50	✓
g5.48xlarge	100 Gigabit	✓	✓	X	1	7	50	✓
				G5g				
g5g.xlarge ¹	1.25 / 10.0	X	✓	X	1	4	15	✓
g5g.2xlarge ¹	2.5 / 10.0	X	✓	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
g5g.4xlarge ¹	5.0 / 10.0	X	✓	x	1	8	30	✓
g5g.8xlarge	12 Gigabit	X	✓	X	1	8	30	✓
g5g.16xlarge	25 Gigabit	X	✓	X	1	15	50	✓
g5g.metal	25 Gigabit	X	✓	X	1	15	50	✓
				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	✓
inf2.48xlarge	100 Gigabit	X	✓	X	1	15	50	✓
				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 interface s per network card	IP addresses per interface	IPv6
p2.16xlarge	25 Gigabit	X	✓	x	1	8	30	✓
				Р3				
p3.2xlarge ¹	Up to 10 Gigabit	X	✓	X	1	4	15	✓
p3.8xlarge	10 Gigabit	X	✓	x	1	8	30	✓
p3.16xlarge	25 Gigabit	X	✓	X	1	8	30	✓
				P3dn				
p3dn.24xlarge	100 Gigabit	✓	✓	X	1	15	50	✓
				P4d				
p4d.24xlarge	4x 100 Gigabit	✓	✓	X	4	60	50	✓
				P4de				
p4de.24xlarge	4x 100 Gigabit	✓	✓	X	4	60	50	✓
				P5				
p5.48xlarge	3200 Gigabit	✓	✓	x	32	64	50	✓
				Trn1				
trn1.2xlarge ¹	3.125 / 12.5	X	✓	X	1	4	15	✓

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

Note

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 instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

Amazon EBS specifications

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

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
g5.2xlarge ¹	850.00 / 3500.00	106.25 / 437.50	3500.00 / 15000.00	✓	default
g5.4xlarge	4750.00	593.75	20000.00	✓	default
g5.8xlarge	16000.00	2000.00	65000.00	✓	default
g5.12xlarge	16000.00	2000.00	65000.00	✓	default
g5.16xlarge	16000.00	2000.00	65000.00	✓	default
g5.24xlarge	19000.00	2375.00	80000.00	✓	default
g5.48xlarge	19000.00	2375.00	80000.00	✓	default
		G!	5g		
g5g.xlarge ¹	1188.00 / 4750.00	148.50 / 593.75	6000.00 / 20000.00	✓	default
g5g.2xlarge ¹	2375.00 / 4750.00	296.88 / 593.75	12000.00 / 20000.00	✓	default
g5g.4xlarge	4750.00	593.75	20000.00	✓	default
g5g.8xlarge	9500.00	1187.50	40000.00	✓	default
g5g.16xlarge	19000.00	2375.00	80000.00	✓	default
g5g.metal	19000.00	2375.00	80000.00	✓	default
		In	f1		
inf1.xlarge ¹	1190.00 / 4750.00	148.75 / 593.75	4000.00 / 20000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
inf1.2xlarge ¹	1190.00 / 4750.00	148.75 / 593.75	6000.00 / 20000.00	✓	default
inf1.6xlarge	4750.00	593.75	20000.00	✓	default
inf1.24xlarge	19000.00	2375.00	80000.00	✓	default
		In	f2		
inf2.xlarge ¹	1250.00 / 10000.00	156.25 / 1250.00	6000.00 / 40000.00	✓	default
inf2.8xlarge	10000.00	1250.00	40000.00	✓	default
inf2.24xlarge	30000.00	3750.00	120000.00	✓	default
inf2.48xlarge	60000.00	7500.00	240000.00	✓	default
		Р	2		
p2.xlarge	750.00	93.75	6000.00	X	default
p2.8xlarge	5000.00	625.00	32500.00	X	default
p2.16xlarge	10000.00	1250.00	65000.00	X	default
		P	3		
p3.2xlarge	1750.00	218.75	10000.00	X	default
p3.8xlarge	7000.00	875.00	40000.00	X	default
p3.16xlarge	14000.00	1750.00	80000.00	X	default
		P3	dn		

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
p3dn.24xl arge	19000.00	2375.00	80000.00	✓	default
		P	4d		
p4d.24xlarge	19000.00	2375.00	80000.00	✓	default
		P4	de		
p4de.24xl arge	19000.00	2375.00	80000.00	✓	default
		Р	5		
p5.48xlarge	80000.00	10000.00	260000.00	✓	default
		Tr	n1		
trn1.2xlarge 1	5000.00 / 20000.00	625.00 / 2500.00	16250.00 / 65000.00	✓	default
trn1.32xlarge	80000.00	10000.00	260000.00	✓	default
		Trn	ı1n		
trn1n.32x large	80000.00	10000.00	260000.00	✓	default
		V	Г1		
vt1.3xlarge ¹	2375.00 / 4750.00	296.88 / 593.75	10000.00 / 20000.00	✓	default
vt1.6xlarge	4750.00	593.75	20000.00	✓	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
vt1.24xlarge	19000.00	2375.00	80000.00	✓	default

Note

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		D	L1		
dl1.24xlarge	4 x 1000 GB	NVMe SSD	1,000,000 / 800,000		✓
		F	1		
f1.2xlarge	1 x 470 GB	NVMe SSD			✓
f1.4xlarge	1 x 940 GB	NVMe SSD			✓

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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.

 $^{^{2}}$ default indicates that instances are enabled for EBS optimization by default. supported indicates that instances can optionally be enabled for EBS optimization For more information, see Amazon EBS-optimized instances.

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
f1.16xlarge	4 x 940 GB	NVMe SSD			✓
		G4	lad		
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		✓
		G4	dn		
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		✓
g4dn.12xlarge	1 x 900 GB	NVMe SSD	250,000 / 200,000		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
g4dn.16xlarge	1 x 900 GB	NVMe SSD	250,000 / 200,000		✓
g4dn.metal	2 x 900 GB	NVMe SSD	500,000 / 400,000		✓
		G	55		
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		✓
		Р3	dn		
p3dn.24xlarge	2 x 900 GB	NVMe SSD	700,000 / 340,000		✓

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		P	4d		
p4d.24xlarge	8 x 1000 GB	NVMe SSD	2,000,000 / 1,600,000		✓
		P4	lde		
p4de.24xlarge	8 x 1000 GB	NVMe SSD	2,000,000 / 1,600,000		✓
		P	25		
p5.48xlarge	8 x 3800 GB	NVMe SSD	4,400,000 / 2,200,000		✓
		Tr	n1		
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		✓
		Trr	11n		
trn1n.32xlarge	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 <u>Instance store volume TRIM support</u>.

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
			DL1			
dl1.24xlarge	✓	✓	✓	x	x	✓
		I	DL2q			
dl2q.24xlarge	✓	Instance store not supported	✓	x	x	✓
			F1			
f1.2xlarge	✓	✓	x	x	x	x
f1.4xlarge	✓	✓	x	x	x	x
f1.16xlarge	✓	✓	x	x	x	x
			G3			
g3.4xlarge	√	Instance store not supported	x	X	x	X
g3.8xlarge	✓	Instance store not supported	x	X	x	X
g3.16xlarge	✓	Instance store not supported	x	x	x	X
		(G4ad			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
g4ad.xlarge	✓	✓	✓	x	x	x
g4ad.2xlarge	✓	✓	✓	x	x	x
g4ad.4xlarge	✓	✓	✓	x	x	x
g4ad.8xlarge	✓	✓	✓	x	x	X
g4ad.16xlarge	✓	✓	✓	x	x	x
		(G4dn			
g4dn.xlarge	✓	✓	✓	x	✓	✓
g4dn.2xlarge	✓	✓	✓	x	✓	✓
g4dn.4xlarge	✓	✓	✓	x	✓	✓
g4dn.8xlarge	✓	✓	✓	x	✓	✓
g4dn.12xlarge	✓	✓	✓	x	✓	✓
g4dn.16xlarge	✓	✓	✓	x	✓	✓
g4dn.metal	✓	✓	✓	x	x	x
			G 5			
g5.xlarge	✓	✓	✓	x	✓	✓
g5.2xlarge	✓	✓	✓	X	✓	✓
g5.4xlarge	✓	✓	✓	X	✓	✓
g5.8xlarge	✓	✓	✓	X	✓	✓
g5.12xlarge	✓	✓	✓	X	✓	✓

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
g5.16xlarge	✓	✓	✓	x	✓	✓
g5.24xlarge	✓	✓	✓	x	✓	✓
g5.48xlarge	✓	✓	✓	x	✓	✓
			G5g			
g5g.xlarge	✓	Instance store not supported	X	X	X	X
g5g.2xlarge	✓	Instance store not supported	X	X	X	X
g5g.4xlarge	✓	Instance store not supported	X	X	X	X
g5g.8xlarge	✓	Instance store not supported	X	x	X	X
g5g.16xlarge	✓	Instance store not supported	X	X	X	X
g5g.metal	✓	Instance store not supported	X	X	X	X
			Inf1			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves	
inf1.xlarge	✓	Instance store not supported	✓	X	✓	✓	
inf1.2xlarge	✓	Instance store not supported	✓	X	✓	✓	
inf1.6xlarge	✓	Instance store not supported	✓	x	✓	✓	
inf1.24xlarge	✓	Instance store not supported	✓	X	✓	✓	
Inf2							
inf2.xlarge	✓	Instance store not supported	✓	X	✓	✓	
inf2.8xlarge	✓	Instance store not supported	✓	x	✓	✓	
inf2.24xlarge	✓	Instance store not supported	✓	X	✓	✓	
inf2.48xlarge	✓	Instance store not supported	✓	x	✓	✓	

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves	
P2							
p2.xlarge	✓	Instance store not supported	x	x	x	x	
p2.8xlarge	✓	Instance store not supported	X	X	X	X	
p2.16xlarge	✓	Instance store not supported	x	x	x	X	
			Р3				
p3.2xlarge	✓	Instance store not supported	x	X	X	X	
p3.8xlarge	✓	Instance store not supported	x	x	x	X	
p3.16xlarge	✓	Instance store not supported	x	x	x	x	
P3dn							
p3dn.24xlarge	✓	✓	✓	X	X	✓	
P4d							

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves		
p4d.24xlarge	✓	✓	✓	X	X	✓		
P4de								
p4de.24xlarge	✓	✓	✓	x	x	✓		
P5								
p5.48xlarge	✓	✓	✓	x	x	✓		
Trn1								
trn1.2xlarge	✓	✓	✓	x	x	x		
trn1.32xlarge	✓	✓	✓	x	x	x		
Trn1n								
trn1n.32xlarge	✓	✓	✓	X	x	x		
VT1								
vt1.3xlarge	✓	Instance store not supported	✓	X	x	X		
vt1.6xlarge	✓	Instance store not supported	√	x	x	X		
vt1.24xlarge	✓	Instance store not supported	✓	x	x	X		

High-performance computing instances

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

Contents

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

Available sizes

Instance type	Available sizes
Нрс6а	hpc6a.48xlarge
Hpc6id	hpc6id.32xlarge
Нрс7а	hpc7a.12xlarge hpc7a.24xlarge hpc7a.48xlarge hpc7a.96xlarge
Hpc7g	hpc7g.4xlarge hpc7g.8xlarge hpc7g.16xlarge

Platform summary

Instance type	Hypervi: r	Processor type (architec ture)	Metal instances available	Dedicate Hosts support	Spot support	Hibernati on support	Supported operating systems
Нрс6а	Nitro	AMD (x86_64)	X	X	X	x	Linux
Hpc6id	Nitro	Intel (x86_64)	X	X	X	X	Windows Linux
Нрс7а	Nitro	AMD (x86_64)	X	X	X	x	Windows Linux
Нрс7д	Nitro	AWS Graviton (arm64)	X	x	X	X	Linux

Performance specifications

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
			Нрс6а				
hpc6a.48x large	X	384.00	AMD EPYC 7R13	96	96	1	X
			Hpc6id				
hpc6id.32 xlarge	X	1024.00	Intel Xeon Ice Lake	64	64	1	X
			Нрс7а				

Platform summary 321

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
hpc7a.12x large	X	768.00	AMD EPYC 9R14	24	24	1	X
hpc7a.24x large	X	768.00	AMD EPYC 9R14	48	48	1	X
hpc7a.48x large	X	768.00	AMD EPYC 9R14	96	96	1	X
hpc7a.96x large	X	768.00	AMD EPYC 9R14	192	192	1	X
			Нрс7д				
hpc7g.4xlarge	X	128.00	AWS Graviton3 E Processor	16	16	1	X
hpc7g.8xlarge	X	128.00	AWS Graviton3 E Processor	32	32	1	X
hpc7g.16x large	X	128.00	AWS Graviton3 E Processor	64	64	1	X

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			Нр	с6а				

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
hpc6a.48x large	100 Gigabit	✓	✓	X	1	2	50	✓
			Нр	c6id				
hpc6id.32 xlarge	200 Gigabit	✓	✓	X	2	2	50	✓
			Нр	c7a				
hpc7a.12x large	300 Gigabit	✓	✓	X	2	4	50	✓
hpc7a.24x large	300 Gigabit	✓	✓	X	2	4	50	✓
hpc7a.48x large	300 Gigabit	✓	✓	X	2	4	50	✓
hpc7a.96x large	300 Gigabit	✓	✓	X	2	4	50	✓
			Нр	c7g				
hpc7g.4xlarge	200 Gigabit	✓	✓	X	1	4	50	✓
hpc7g.8xlarge	200 Gigabit	✓	✓	X	1	4	50	✓
hpc7g.16x large	200 Gigabit	✓	✓	X	1	4	50	✓

Amazon EBS specifications

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

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

Note

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		Нре	c6id		
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.

Instance store specifications 325

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.

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

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

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
		н	lpc6a			
hpc6a.48xlarge	✓	Instance store not supported	✓	x	✓	X
		н	pc6id			
hpc6id.32xlarge	✓	✓	✓	x	✓	x
		н	lpc7a			
hpc7a.12xlarge	✓	Instance store not supported	✓	X	X	X
hpc7a.24xlarge	✓	Instance store not supported	✓	X	X	X
hpc7a.48xlarge	✓	Instance store not supported	✓	x	x	X
hpc7a.96xlarge	✓	Instance store not supported	✓	X	X	X
		Н	pc7g			
hpc7g.4xlarge	✓	Instance store not	✓	X	X	X

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

Previous generation instances

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

Contents

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

Previous generation 327

Available sizes

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

Available sizes 328

Platform summary

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

Platform summary 329

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

Performance specifications

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

Instance type	Burstable	Memory (GiB)	Processor	vCPUs	CPU cores	Threads per core	Accelerat ors
c1.medium	X	1.70	Intel Xeon Family	2	2	1	X
c1.xlarge	X	7.00	Intel Xeon Family	8	8	1	X
			С3				
c3.large	X	3.75	Intel Xeon E5-2680v2	2	1	2	X
c3.xlarge	X	7.50	Intel Xeon E5-2680v2	4	2	2	X
c3.2xlarge	X	15.00	Intel Xeon E5-2680v2	8	4	2	X
c3.4xlarge	X	30.00	Intel Xeon E5-2680v2	16	8	2	X
c3.8xlarge	X	60.00	Intel Xeon E5-2680v2	32	16	2	X
			C4				
c4.large	X	3.75	Intel Xeon E5-2666v3	2	1	2	X
c4.xlarge	X	7.50	Intel Xeon E5-2666v3	4	2	2	X
c4.2xlarge	X	15.00	Intel Xeon E5-2666v3	8	4	2	x
c4.4xlarge	X	30.00	Intel Xeon E5-2666v3	16	8	2	X

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

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

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

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

Network specifications

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			1	A 1				
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

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
				C 3				
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				
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	✓
				12				
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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
			l	M 1				
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
			ı	M2				
m2.xlarge	Moderate	x	X	X	1	4	15	X
m2.2xlarge	Moderate	X	X	X	1	4	30	X
m2.4xlarge	High	x	x	X	1	8	30	X
			ı	М 3				
m3.medium	Moderate	x	X	X	1	2	6	X
m3.large	Moderate	X	X	X	1	3	10	X
m3.xlarge	High	X	X	X	1	4	15	X
m3.2xlarge	High	X	X	X	1	4	30	X
			I	M4				
m4.large	Moderate	X	x ²	X	1	2	10	✓
m4.xlarge	High	X	x ²	X	1	4	15	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
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	✓
			ı	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	✓
			ı	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	✓

Instance type	Baseline / Burst bandwidth (Gbps)	EFA	ENA	ENA Express	Network cards	Max. network interface s per network card	IP addresses per interface	IPv6
				Т1				
t1.micro	Very Low	X	X	X	1	2	2	X

Note

Amazon EBS specifications

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
		А	1		
a1.medium ¹	300.00 / 3500.00	37.50 / 437.50	2500.00 / 20000.00	✓	default
a1.large ¹	525.00 / 3500.00	65.62 / 437.50	4000.00 / 20000.00	✓	default

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 instances types can sustain their maximum performance indefinitely. For more information, see <u>instance</u> network bandwidth.

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

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
a1.xlarge ¹	800.00 / 3500.00	100.00 / 437.50	6000.00 / 20000.00	✓	default
a1.2xlarge ¹	1750.00 / 3500.00	218.75 / 437.50	10000.00 / 20000.00	✓	default
a1.4xlarge	3500.00	437.50	20000.00	✓	default
a1.metal	3500.00	437.50	20000.00	✓	default
		C	1		
c1.xlarge	1000.00	125.00	8000.00	X	supported
		C	3		
c3.xlarge	500.00	62.50	4000.00	X	supported
c3.2xlarge	1000.00	125.00	8000.00	X	supported
c3.4xlarge	2000.00	250.00	16000.00	X	supported
		C	4		
c4.large	500.00	62.50	4000.00	X	default
c4.xlarge	750.00	93.75	6000.00	X	default
c4.2xlarge	1000.00	125.00	8000.00	X	default
c4.4xlarge	2000.00	250.00	16000.00	X	default
c4.8xlarge	4000.00	500.00	32000.00	X	default
		I:	2		

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
i2.xlarge	500.00	62.50	4000.00	X	supported
i2.2xlarge	1000.00	125.00	8000.00	X	supported
i2.4xlarge	2000.00	250.00	16000.00	X	supported
		M	11		
m1.large	500.00	62.50	4000.00	X	supported
m1.xlarge	1000.00	125.00	8000.00	X	supported
		M	12		
m2.2xlarge	500.00	62.50	4000.00	X	supported
m2.4xlarge	1000.00	125.00	8000.00	X	supported
		M	13		
m3.xlarge	500.00	62.50	4000.00	X	supported
m3.2xlarge	1000.00	125.00	8000.00	X	supported
		M	14		
m4.large	450.00	56.25	3600.00	X	default
m4.xlarge	750.00	93.75	6000.00	X	default
m4.2xlarge	1000.00	125.00	8000.00	X	default
m4.4xlarge	2000.00	250.00	16000.00	X	default
m4.10xlarge	4000.00	500.00	32000.00	X	default

Instance type	Baseline / Maximum bandwidth (Mbps)	Baseline / Maximum throughput (MB/s, 128 KiB I/O)	Baseline / Maximum IOPS (16 KiB I/O)	NVMe	EBS optimization 2
m4.16xlarge	10000.00	1250.00	65000.00	X	default
		R	3		
r3.xlarge	500.00	62.50	4000.00	x	supported
r3.2xlarge	1000.00	125.00	8000.00	X	supported
r3.4xlarge	2000.00	250.00	16000.00	X	supported
		R	4		
r4.large	425.00	53.12	3000.00	X	default
r4.xlarge	850.00	106.25	6000.00	X	default
r4.2xlarge	1700.00	212.50	12000.00	X	default
r4.4xlarge	3500.00	437.50	18750.00	X	default
r4.8xlarge	7000.00	875.00	37500.00	X	default
r4.16xlarge	14000.00	1750.00	75000.00	X	default
		Т	1		

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.

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

Instance store specifications

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
		C	1		
c1.medium	1 x 350 GB	HDD		✓	
c1.xlarge	4 x 420 GB	HDD		✓	
		C	.3		
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		✓	
		ı	2		
i2.xlarge	1 x 800 GB	SSD		✓	
i2.2xlarge	2 x 800 GB	SSD		✓	
i2.4xlarge	4 x 800 GB	SSD		✓	
i2.8xlarge	8 x 800 GB	SSD		✓	
		M	11		

Instance store specifications 343

Instance type	Instance store volumes	Instance store type	Read / Write performance (IOPS)	Needs initializ ation ¹	TRIM support 2
m1.small	1 x 160 GB	HDD		✓	
m1.medium	1 x 410 GB	HDD		✓	
m1.large	2 x 420 GB	HDD		✓	
m1.xlarge	4 x 420 GB	HDD		✓	
		M	12		
m2.xlarge	1 x 420 GB	HDD		✓	
m2.2xlarge	1 x 850 GB	HDD		✓	
m2.4xlarge	2 x 840 GB	HDD		✓	
		M	13		
m3.medium	1 x 4 GB	SSD		✓	
m3.large	1 x 32 GB	SSD		✓	
m3.xlarge	2 x 40 GB	SSD		✓	
m3.2xlarge	2 x 80 GB	SSD		✓	
		R	3		
r3.large	1 x 32 GB	SSD		✓	
r3.xlarge	1 x 80 GB	SSD		✓	
r3.2xlarge	1 x 160 GB	SSD		✓	
r3.4xlarge	1 x 320 GB	SSD		✓	
r3.8xlarge	2 x 320 GB	SSD		✓	

Instance store specifications 344

Security specifications

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
			A1			
a1.medium	✓	Instance store not supported	x	X	X	X
a1.large	✓	Instance store not supported	X	X	X	X
a1.xlarge	✓	Instance store not supported	x	X	X	X
a1.2xlarge	✓	Instance store not supported	X	X	X	X
a1.4xlarge	✓	Instance store not supported	x	X	X	X
a1.metal	✓	Instance store not supported	x	X	X	X
			C1			

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 <u>Instance store volume TRIM support</u>.

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
c1.medium	✓	X	X	X	X	X
c1.xlarge	✓	x	x	x	X	X
			C 3			
c3.large	✓	x	x	x	x	x
c3.xlarge	✓	X	X	X	x	x
c3.2xlarge	✓	x	x	x	x	x
c3.4xlarge	✓	x	X	x	x	x
c3.8xlarge	✓	x	x	x	x	x
			C 4			
c4.large	✓	Instance store not supported	x	x	x	X
c4.xlarge	✓	Instance store not supported	x	x	x	X
c4.2xlarge	√	Instance store not supported	x	x	x	X
c4.4xlarge	√	Instance store not supported	X	X	X	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
c4.8xlarge	✓	Instance store not supported	x	X	x	X
			12			
i2.xlarge	✓	x	x	x	x	X
i2.2xlarge	✓	x	x	X	x	x
i2.4xlarge	✓	x	x	X	x	X
i2.8xlarge	✓	X	X	X	X	x
			M1			
m1.small	✓	x	x	X	x	x
m1.medium	✓	x	x	x	x	x
m1.large	✓	x	x	x	x	x
m1.xlarge	✓	x	x	x	x	x
			M2			
m2.xlarge	✓	x	x	x	x	X
m2.2xlarge	✓	x	x	x	x	x
m2.4xlarge	✓	X	X	X	X	X
			М3			
m3.medium	✓	x	x	X	X	X

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
m3.large	✓	X	X	x	X	x
m3.xlarge	✓	x	x	x	x	x
m3.2xlarge	✓	X	X	x	x	x
			M4			
m4.large	✓	Instance store not supported	x	X	X	X
m4.xlarge	✓	Instance store not supported	X	X	X	X
m4.2xlarge	✓	Instance store not supported	X	X	X	X
m4.4xlarge	✓	Instance store not supported	x	X	x	X
m4.10xlarge	✓	Instance store not supported	X	X	X	X
m4.16xlarge	✓	Instance store not supported	X	X	X	X
			R3			

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r3.large	✓	x	x	x	x	x
r3.xlarge	✓	x	X	X	x	x
r3.2xlarge	✓	X	x	x	x	x
r3.4xlarge	✓	X	x	X	x	x
r3.8xlarge	✓	X	x	x	x	x
			R4			
r4.large	✓	Instance store not supported	X	x	x	X
r4.xlarge	✓	Instance store not supported	X	X	X	X
r4.2xlarge	✓	Instance store not supported	X	x	X	x
r4.4xlarge	✓	Instance store not supported	X	x	X	x
r4.8xlarge	✓	Instance store not supported	X	x	x	x

Instance type	EBS encryptio n	Instance store encryptio n	Encryptio n in transit	AMD SEV-SNP	NitroTPM	Nitro Enclaves
r4.16xlarge	√	Instance store not supported	X	x	X	X
T1						
t1.micro	✓	Instance store not supported	X	x	X	X

Amazon EC2 instance types by Region

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

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

Each Region supports a subset of the available instance types.

US East (Ohio) — us-east-2

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

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

US East (N. Virginia) — us-east-1

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

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

US East (Ohio) 351

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

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

US West (N. California) — us-west-1

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

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

US West (Oregon) — us-west-2

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

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

US West (N. California) 352

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

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

Africa (Cape Town) — af-south-1

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

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

Asia Pacific (Hong Kong) — ap-east-1

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

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

Asia Pacific (Hyderabad) — ap-south-2

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

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

Africa (Cape Town) 353

- Compute Optimized: C5 | C5d | C6g | C6i | C6in | C7g
- Memory Optimized: R5 | R5d | R6g | R6i | R7g | U-9tb1 | X2idn | X2iedn

• Storage Optimized: 13 | 13en | 14i

Asia Pacific (Jakarta) — ap-southeast-3

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

- General Purpose: M5 | M5d | M6g | M6gd | M6i | T3 | T4g
- Compute Optimized: C5 | C5d | C5n | C6g | C6gd | C6gn | C6in
- **Memory Optimized:** R5 | R5d | R6g | R6gd | R7i | X2idn | X2iedn
- Storage Optimized: 13 | 13en | 14i
- Accelerated Computing: G5

Asia Pacific (Melbourne) — ap-southeast-4

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

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

Asia Pacific (Mumbai) — ap-south-1

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

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

Asia Pacific (Jakarta) 354

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

Asia Pacific (Osaka) — ap-northeast-3

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

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

Asia Pacific (Seoul) — ap-northeast-2

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

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

Asia Pacific (Singapore) — ap-southeast-1

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

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

Asia Pacific (Osaka) 355

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

Asia Pacific (Sydney) — ap-southeast-2

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

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

Asia Pacific (Tokyo) — ap-northeast-1

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

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

Asia Pacific (Sydney) 356

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

Canada (Central) — ca-central-1

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

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

Canada West (Calgary) — ca-west-1

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

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

Canada (Central) 357

Europe (Frankfurt) — eu-central-1

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

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

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

Europe (Ireland) — eu-west-1

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

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

Europe (Frankfurt) 358

Europe (London) — eu-west-2

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

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

Europe (Milan) — eu-south-1

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

- General Purpose: M5 | M5a | M5d | M6a | M6g | M6gd | M6i | T3 | T3a | T4g
- Compute Optimized: C5 | C5a | C5ad | C5d | C5n | C6g | C6gn | C6i | C6in
- Memory Optimized: R5 | R5a | R5b | R5d | R5dn | R5n | R6g | R6i | U-3tb1 | U-6tb1 | U-12tb1 |
 X2idn | X2iedn
- **Storage Optimized:** D2 | 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 | M6g | M6gd | M6i | M7g | M7gd | M7i | M7i-flex | T2 |
 T3 | T3a | T4g
- Compute Optimized: C5 | C5a | C5d | C5n | C6g | C6gd | C6gn | C6i | C6in
- Memory Optimized: R4 | R5 | R5a | R5ad | R5d | R5dn | R5n | R6g | R6gd | R6i | R7i | U-6tb1 | X1 |
 X2idn | X2iedn

Europe (London) 359

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

• Previous Generation: R4

Europe (Spain) — eu-south-2

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

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

Europe (Stockholm) — eu-north-1

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

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

Europe (Zurich) — eu-central-2

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

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

Europe (Spain) 360

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

Israel (Tel Aviv) — il-central-1

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

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

Middle East (Bahrain) — me-south-1

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

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

Middle East (UAE) — me-central-1

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

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

Israel (Tel Aviv) 361

South America (São Paulo) — sa-east-1

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

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

- Compute Optimized: C1 | C3 | C4 | C5 | C5a | C5ad | C5d | C5n | C6a | C6g | C6gd | C6gn | C6i |
 C6in | C7i
- Memory Optimized: R3 | R4 | R5 | R5a | R5ad | R5b | R5d | R5n | R6g | R6gd | R6i | R7i | U-3tb1 |
 U-6tb1 | U-12tb1 | X1 | X2idn | X2iedn | X1e
- Storage Optimized: I3 | I3en | I4i
- Accelerated Computing: G4dn | G5 | Inf1
- Previous Generation: C1 | C3 | C4 | M1 | M2 | M3 | M4 | R3 | R4 | T1

South America (São Paulo) 362

Instances built on the AWS Nitro System

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

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

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

Nitro components

The following components are part of the Nitro System:

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

Virtualized instances

The following virtualized instances are built on the Nitro System:

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

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- Memory optimized: R5 | R5a | R5ad | R5b | R5d | R5dn | R5n | R6a | R6g | R6gd | R6i | R6idn | R6in | R6id | R7a | R7g | R7gd | R7i | R7iz | U-3tb1 | U-6tb1 | U-9tb1 | U-12tb1 | U-18tb1 | U-24tb1 | X2gd | X2idn | X2iedn | X2iezn | z1d
- Storage optimized: D3 | D3en | I3en | I4g | I4i | Im4gn | Is4gen
- Accelerated computing: DL1 | DL2q | G4ad | G4dn | G5 | G5g | Inf1 | Inf2 | P3dn | P4d | P4de | P5
 | Trn1 | Trn1n | VT1
- High-performance computing: Hpc6a | Hpc6id | Hpc7a | Hpc7g
- Previous generation: A1

Bare metal instances

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

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

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

Bare metal instances 364

Requirements

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

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

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

The following AMIs meet these requirements:

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

Requirements 365

Amazon EC2 instance type quotas

The following quotas apply to Amazon EC2 instances by default.

Quotas

- On-demand instance quotas
- Spot instance quotas
- Dedicated Host quotas

On-demand instance quotas

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

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

On-demand instance quotas 366

Spot instance quotas

The following table shows the maximum number of vCPUs that you can provision for Spot instances per instance type. For more information, see Spot Instance quotas in the Amazon EC2 User Guide.

Name	Default	Adjustable
All DL Spot Instance Requests	0	<u>Yes</u>
All F Spot Instance Requests	0	<u>Yes</u>
All G and VT Spot Instance Requests	0	Yes
All Inf Spot Instance Requests	0	<u>Yes</u>
All P4, P3 and P2 Spot Instance Requests	0	<u>Yes</u>
All P5 Spot Instance Requests	0	<u>Yes</u>
All Standard (A, C, D, H, I, M, R, T, Z) Spot Instance 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 per instance type.

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

Spot instance quotas 367

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

Name	Default	Adjustable
Running Dedicated g3s Hosts	0	Yes
Running Dedicated g4ad Hosts	0	<u>Yes</u>
Running Dedicated g4dn Hosts	0	<u>Yes</u>
Running Dedicated g5 Hosts	0	<u>Yes</u>
Running Dedicated g5g Hosts	0	<u>Yes</u>
Running Dedicated h1 Hosts	0	Yes
Running Dedicated i2 Hosts	0	<u>Yes</u>
Running Dedicated i3 Hosts	0	Yes
Running Dedicated i3en Hosts	0	Yes
Running Dedicated i4g Hosts	0	<u>Yes</u>
Running Dedicated i4i Hosts	0	<u>Yes</u>
Running Dedicated im4gn Hosts	0	<u>Yes</u>
Running Dedicated inf Hosts	0	<u>Yes</u>
Running Dedicated inf2 Hosts	0	<u>Yes</u>
Running Dedicated is4gen Hosts	0	Yes
Running Dedicated m3 Hosts	0	<u>Yes</u>
Running Dedicated m4 Hosts	0	<u>Yes</u>
Running Dedicated m5 Hosts	0	Yes
Running Dedicated m5a Hosts	0	Yes
Running Dedicated m5ad Hosts	0	Yes

Name	Default	Adjustable
Running Dedicated m5d Hosts	0	Yes
Running Dedicated m5dn Hosts	0	<u>Yes</u>
Running Dedicated m5n Hosts	0	<u>Yes</u>
Running Dedicated m5zn Hosts	0	<u>Yes</u>
Running Dedicated m6a Hosts	0	<u>Yes</u>
Running Dedicated m6g Hosts	0	<u>Yes</u>
Running Dedicated m6gd Hosts	0	<u>Yes</u>
Running Dedicated m6i Hosts	0	<u>Yes</u>
Running Dedicated m6id Hosts	0	<u>Yes</u>
Running Dedicated m6idn Hosts	0	<u>Yes</u>
Running Dedicated m6in Hosts	0	<u>Yes</u>
Running Dedicated m7a Hosts	0	<u>Yes</u>
Running Dedicated m7g Hosts	0	<u>Yes</u>
Running Dedicated m7gd Hosts	0	<u>Yes</u>
Running Dedicated m7i Hosts	0	<u>Yes</u>
Running Dedicated mac1 Hosts	0	<u>Yes</u>
Running Dedicated mac2 Hosts	0	<u>Yes</u>
Running Dedicated mac2-m2 Hosts	0	Yes
Running Dedicated mac2-m2pro Hosts	0	Yes
Running Dedicated p2 Hosts	0	Yes

Name	Default	Adjustable
Running Dedicated p3 Hosts	0	Yes
Running Dedicated p3dn Hosts	0	Yes
Running Dedicated p4d Hosts	0	<u>Yes</u>
Running Dedicated p5 Hosts	0	<u>Yes</u>
Running Dedicated r3 Hosts	0	<u>Yes</u>
Running Dedicated r4 Hosts	0	<u>Yes</u>
Running Dedicated r5 Hosts	0	<u>Yes</u>
Running Dedicated r5a Hosts	0	<u>Yes</u>
Running Dedicated r5ad Hosts	0	<u>Yes</u>
Running Dedicated r5b Hosts	0	<u>Yes</u>
Running Dedicated r5d Hosts	0	<u>Yes</u>
Running Dedicated r5dn Hosts	0	<u>Yes</u>
Running Dedicated r5n Hosts	0	<u>Yes</u>
Running Dedicated r6a Hosts	0	<u>Yes</u>
Running Dedicated r6g Hosts	0	<u>Yes</u>
Running Dedicated r6gd Hosts	0	<u>Yes</u>
Running Dedicated r6i Hosts	0	<u>Yes</u>
Running Dedicated r6id Hosts	0	Yes
Running Dedicated r6idn Hosts	0	Yes
Running Dedicated r6in Hosts	0	<u>Yes</u>

Name	Default	Adjustable
Running Dedicated r7a Hosts	0	Yes
Running Dedicated r7g Hosts	0	<u>Yes</u>
Running Dedicated r7gd Hosts	0	Yes
Running Dedicated r7i Hosts	0	<u>Yes</u>
Running Dedicated r7iz Hosts	0	<u>Yes</u>
Running Dedicated t3 Hosts	0	<u>Yes</u>
Running Dedicated trn1 Hosts	0	<u>Yes</u>
Running Dedicated trn1n Hosts	0	Yes
Running Dedicated u-12tb1 Hosts	0	<u>Yes</u>
Running Dedicated u-18tb1 Hosts	0	<u>Yes</u>
Running Dedicated u-24tb1 Hosts	0	<u>Yes</u>
Running Dedicated u-3tb1 Hosts	0	<u>Yes</u>
Running Dedicated u-6tb1 Hosts	0	<u>Yes</u>
Running Dedicated u-9tb1 Hosts	0	<u>Yes</u>
Running Dedicated vt1 Hosts	0	Yes
Running Dedicated x1 Hosts	0	<u>Yes</u>
Running Dedicated x1e Hosts	0	Yes
Running Dedicated x2gd Hosts	0	Yes
Running Dedicated x2idn Hosts	0	Yes
Running Dedicated x2iedn Hosts	0	Yes

Name	Default	Adjustable
Running Dedicated x2iezn Hosts	0	<u>Yes</u>
Running Dedicated z1d Hosts	0	Yes

Document history for the Amazon EC2 Instance Types Guide

The following table describes the documentation releases for Amazon EC2.

Change	Description	Date
C7gn bare metal instance	New c7gn.metal bare metal instance type powered by the latest generation AWS Graviton3E processors and the new AWS Nitro cards.	March 26, 2024
New bare metal instances	Bare metal instances for C7gd, M7gd, and R7gd.	March 6, 2024
DL2q instances	New instances that use Qualcomm AI100 inference accelerators, which feature 7th generation Qualcomm Edge AI cores. These instances can be used to cost-efficiently deploy deep learning (DL) workloads in the cloud or validate performance and accuracy of DL workloads that will be deployed on Qualcomm edge devices.	November 15, 2023
Mac2-m2 instances	New general purpose instance type that features Apple M2 processors.	October 25, 2023
R7i instances	New memory optimized instance types that feature	October 16, 2023

	4th generation Intel Xeon Scalable processors.	
C7a instances	New compute optimized instances powered by 4th generation AMD EPYC processors.	October 4, 2023
Mac2-m2pro instances	New general purpose instance type that features Apple M2 Pro processors.	September 18, 2023
C7i instances	New compute optimized instance types that feature 4th generation Intel Xeon Scalable processors.	September 14, 2023
R7a instances	New memory optimized instance types featuring 4th generation AMD EPYC 9R14 processors and up to 1536 GiB of system memory.	September 11, 2023
R7iz instances	New high-frequency and high memory instances powered by 4th generation Intel Xeon processors.	September 7, 2023
Hpc7a instances	New compute optimized instance types that feature 4th generation AMD EPYC processors. These instances support up to 300 Gbps networking bandwidth, and up to 192 CPU cores with up to 768 GB of system memory.	August 17, 2023

M7a instances	New general purpose instances powered by 4th generation AMD EPYC processors.	August 15, 2023
M7i-flex instances	New general purpose instances that offer a balance of compute, memory, and network resources for a broad spectrum of general purpose applications. They deliver a baseline CPU performance of 40 percent with the ability to deliver up to 100 percent CPU performance for 95 percent of the time over a 24-hour period.	August 2, 2023
M7i instances	New general purpose instance types that feature 4th generation Intel Xeon Scalable processors.	August 2, 2023
R7gd instances	New memory optimized instances featuring the latest AWS Graviton3 processors.	July 28, 2023
M7gd instances	New general purpose instances featuring the latest AWS Graviton3 processors.	July 28, 2023
C7gd instances	New compute optimized instances featuring the latest AWS Graviton3 processors.	July 28, 2023

P5 instances	New accelerated computing instances that feature 8 NVIDIA H100 GPUs with 640 GB high-bandwidth GPU memory, 3rd generation AMD EPYC processors, and 2 TB system memory.	July 26, 2023
Hpc7g instances	New high-performance computing instances powered by AWS Graviton3E processor s that provide up to 35 percent higher vectorinstruction processing performance than Graviton3 processors.	June 20, 2023
C7gn instances	New compute optimized instances powered by the latest generation AWS Graviton3E processors and the new AWS Nitro cards. These instances offer up to 200 Gbps network bandwidth.	June 20, 2023
Trn1n instances	New accelerated computing instances optimized for machine learning training powered by AWS Trainium accelerators.	April 13, 2023
Inf2 instances	New instances featuring AWS Inferentia2 accelerators, the latest machine learning chip designed by AWS.	April 13, 2023

Hpc6id instance	New memory optimized instance featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).	November 29, 2022
R6in and R6idn instances	New memory optimized instances for network-i ntensive workloads.	November 28, 2022
M6in and M6idn instances	New general computing instances types.	November 28, 2022
C6in instances	New compute optimized instances ideal for running high performance computing.	November 28, 2022
<u>Trn1 instances</u>	New accelerated computing instances optimized for deep learning powered by AWS Trainium chips.	October 10, 2022
R6a instances	New memory optimized instances featuring 3rd generation AMD EPYC processors.	July 19, 2022
R6id instances	New memory optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).	June 9, 2022
M6id instances	New general purpose instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).	May 26, 2022

C6id instances	New compute optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).	May 26, 2022
C7g instances	New compute optimized instances featuring AWS Graviton3 processors.	May 23, 2022
<u>I4i instances</u>	New storage optimized instances featuring 3rd generation Intel Xeon Scalable processors (Ice Lake).	April 27, 2022
X2idn and X2iedn instances	New memory optimized instances featuring Intel Xeon Scalable processors (Ice Lake).	March 10, 2022
C6a instances	New compute optimized instances featuring 3rd generation AMD EPYC processors (Milan).	February 14, 2022
X2iezn instances	New memory optimized instances featuring Intel Xeon Platinum processors (Cascade Lake).	January 26, 2022
Hpc6a instances	New compute optimized instances featuring AMD EPYC processors.	January 10, 2022
Im4gn and Is4gen instances	New storage optimized instances.	November 30, 2021

M6a instances	New general purpose instances powered by AMD 3rd Generation EPYC processors.	November 29, 2021
G5g instances	New accelerated computing instances featuring AWS Graviton2 processors based on 64-bit Arm architecture.	November 29, 2021
R6i instances	New memory optimized instances.	November 22, 2021
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
VT1 instances	New accelerated computing instances that use Xilinx Alveo U30 media accelerators and are designed for live video transcoding workloads.	September 13, 2021
M6i instances	New general purpose instances featuring third generation Intel Xeon Scalable processors (Ice Lake).	August 16, 2021

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

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

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

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