



Amazon Keyspaces (for Apache Cassandra) pricing

Keyspaces-Cassandra Cost Calculator

Estimate your monthly costs between Amazon Keyspaces and your Apache Cassandra workload. This calculator only compares direct operational costs and excludes TCO factors such as infrastructure maintenance, operational overhead, and support costs.

[Keyspaces-Cassandra Cost Calculator](#)



With Amazon Keyspaces, you only pay for what you use. In addition to on-demand and pricing pricing options, Keyspaces offers Database Savings Plans, which are a flexible pricing model that offers savings in exchange for a commitment to a specific amount of usage (measured in \$/hour) over a 1-year term. You can learn more about eligible usage on the [Database Savings Plans pricing page](#).

Read and write throughput

Amazon Keyspaces offers two throughput capacity modes for reads and writes: on-demand and provisioned. You can choose your table's throughput capacity mode to optimize the price of reads and writes based on the predictability and variability of your workload. You also can change the capacity mode of a table once per day as you learn more about your workload, or if you expect to have a large burst in traffic, such as from a one-time or seasonal event.

On-demand capacity mode

With on-demand capacity mode, you pay for only the reads and writes that your application actually performs. You do not need to specify in advance how many reads and writes you expect your application to perform. Amazon Keyspaces accommodates workloads instantly as they ramp up or down, making it a good option for applications with unpredictable traffic.

Provisioned capacity mode

Provisioned capacity mode helps you optimize the price of throughput if you have predictable application traffic and can forecast capacity requirements in advance. With provisioned capacity mode, you specify the number of reads and writes per second that you expect your application to perform. You can increase and decrease the provisioned capacity for your table automatically in response to actual application traffic by enabling auto scaling.

Read and write consistency

Amazon Keyspaces stores data durably across multiple AWS Availability Zones using a replication factor of three for high availability.

You can execute reads using either LOCAL_ONE or LOCAL_QUORUM consistency. LOCAL_ONE consistency optimizes for performance and availability by returning the first returned value from any storage replica. LOCAL_QUORUM consistency optimizes for data correctness by requiring at least two storage replicas to return a value before it is returned to your application.

All writes in Amazon Keyspaces are executed with LOCAL_QUORUM consistency for durability.

Metering and regional pricing

Metering of API calls to read and write data in Amazon Keyspaces is based on the capacity mode of the table, the consistency level of the operation, and the size of the data.

On-demand capacity mode



Provisioned capacity mode



Storage

With Amazon Keyspaces, you do not need to provision storage in advance. Amazon Keyspaces monitors the billable size of your tables continuously to determine your storage charges.

Region:
Europe (London)

Charge type	Price
Storage	\$0.29715 per GB-month

Backup and restore

Amazon Keyspaces offers continuous backups with point-in-time recovery (PITR) to protect your table against accidental writes or deletes. When you enable PITR, Amazon Keyspaces backs up your data automatically with per-second granularity, and you can restore your table data to any single second in the preceding 35 days.

Point-in-time recovery (PITR)

Amazon Keyspaces charges for PITR based on the size of each Amazon Keyspaces table on which it is enabled. Amazon Keyspaces monitors the size of your PITR-enabled tables continuously throughout the month to determine your backup charges and continues to bill you until you disable PITR on each table.

Region:
Europe (London)

Charge type	Price
PITR	\$0.23772 per GB-month

Restoring a table

Restoring a table from continuous backups is charged based on the total size of data restored for each request.

Region:
Europe (London)

Charge type	Price
Backup restore	\$0.17829 per GB

Data transfer

Data transfer in and out refers to transfer into and out of Amazon Keyspaces. Keyspaces does not charge for inbound data transfer, and the service does not charge for data transferred between Keyspaces and other AWS services within the same AWS Region (\$0.00 per GB). Amazon Keyspaces also does not charge for data transfer across AWS Regions when using [Multi-Region Replication](#). Data transferred across AWS Regions, such as between Keyspaces in the US East (N. Virginia) Region and Amazon EC2 in the EU (Ireland) Region, is charged on both sides of the transfer. As part of the [AWS Free Tier](#), you receive 1 GB of free data transfer out each month, aggregated across all AWS services except in the AWS GovCloud (US) Regions. To transfer data exceeding 500 TB per month, [contact us](#).

Region:
Europe (London)

	Price
Data Transfer IN	
All data transfer in	\$0.00 per GB
Data Transfer OUT	
Next 9.999 TB / Month	\$0.09 per GB
Next 40 TB / Month	\$0.085 per GB
Next 100 TB / Month	\$0.07 per GB
Greater than 150 TB / Month	\$0.05 per GB

Time to Live (TTL)

TTL pricing is based on the size of the rows being deleted or updated by using TTL. TTL operations are metered in units of TTL deletes. One TTL delete is consumed per KB of data per row that is deleted or updated. For example, to update a row that stores 2.5 KB of data and delete one or more columns within the row at the same time requires 3 TTL deletes. Or, to delete an entire row that contains 3.5 KB of data requires 4 TTL deletes.

Region:
Europe (London)

Charge type	Price
TTL Deletes	\$0.3275 per million TTL Deletes

Keyspaces Streams

Keyspaces charges for reading data from Keyspaces Streams in read request units. Each GetRecords API call is billed as streams read request unit and returns up to 1 MB of data from Keyspaces Streams. Streams read request units are unique from read requests on your Keyspaces table.

Region:
Europe (London)

Charge Type	Price
Keyspaces Streams	\$0.0237 per 100,000 Keyspaces Streams read request units

AWS PrivateLink

AWS PrivateLink simplifies the security of data shared with cloud-based applications by eliminating the exposure of data to the public internet. PrivateLink provides private connectivity between VPCs, AWS services, and on-premises applications, securely on the Amazon network. PrivateLink makes it easy to connect services across different accounts and VPCs to significantly simplify the network architecture. The cost of VPC endpoints for use with PrivateLink is not included in the price of Amazon Keyspaces data transfer.

For more information, see [AWS PrivateLink pricing](#).

AWS Free Tier

As part of the [AWS Free Tier](#), you can get started with Amazon Keyspaces for free. For the first three months, you are offered a monthly free tier of 30 million on-demand write request units, 30 million on-demand read request units, and 1 GB of storage (limit of one free tier per payer account). Your free tier starts from the first month when you create your first Amazon Keyspaces resource. [Get started with Amazon Keyspaces](#).

Next Steps

Training

Learn with hands-on training

→

Documentation

Dive deep on Keyspaces

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Sign up for a free account

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Console

Start building in the console

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Get Started with AWS

Learn how to start using AWS in minutes

AWS Free Tier

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- What Is Agentic AI?
- Cloud Computing Concepts Hub
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- What's New
- Blogs
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- AWS Solutions Library
- Architecture Center
- Product and Technical FAQs
- Analyst Reports
- AWS Partners

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- SDKs & Tools
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- Java on AWS
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