How AWS Pricing Works – Whitepaper Review Part 3

Amazon Web Services

Amazon RDS – Pricing Model

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need

Amazon RDS

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Amazon RDS – Pricing Model

- Clock hours of server time
- Database characteristics
- Database purchase type
- Number of database instances
- Provisioned storage
- Additional storage
- Requests
- Deployment type
- Data transfer

Amazon RDS

Amazon RDS – Pricing Model

Amazon RDS Reserved Instances give you the option to reserve a DB instance for a one or three year term and in turn receive a significant discount compared to the On-Demand Instance pricing for the DB instance.

Three payment options:

- No Upfront RIs
- Partial Upfront RIs
- All Upfront RIs

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Amazon DynamoDB – Pricing Model

Amazon DynamoDB is a fast and flexible NoSQL database service for all applications that need consistent, single-digit millisecond latency at any scale. It is a fully managed cloud database and supports both document and key-value store models. Its flexible data model, reliable performance, and automatic scaling of throughput capacity make it a great fit for mobile, web, gaming, ad tech, IoT, and many other applications.

Amazon DynamoDB

Amazon DynamoDB – Pricing Model

DynamoDB handles the provisioning of resources to achieve your target utilization of read and write capacity, then auto-scales your capacity based on usage. There is no requirement to specify memory, CPU, and other system resources. You can also directly specify read and write capacity if you prefer to manually manage table throughput.

Resource Type	Details	Monthly Price
Provisioned throughput (write)	One write capacity unit (WCU) provides up to one write per second, enough for 2.5 million writes per month.	As low as $0.47 per WCU
Provisioned throughput (read)	One read capacity unit (RCU) provides up to two reads per second, enough for 5.2 million reads per month.	As low as $0.09 per RCU
Indexed data storage	DynamoDB charges an hourly rate per GB of disk space that your table consumes.	As low as $0.25 per GB

Amazon DynamoDB – Pricing Model

Indexed data storage

Amazon DynamoDB is an SSD-backed indexed datastore. The amount of disk space your data consumes will exceed the raw size of the data you have uploaded. Amazon DynamoDB measures the size of your billable data by adding up the raw byte size of the data you upload, plus a per-item storage overhead of 100 bytes to account for indexing. You do not need to "provision" storage with Amazon DynamoDB. You are simply billed for what you use, as described above.

Amazon DynamoDB – Pricing Model

Global Tables

Global Tables builds upon DynamoDB's global footprint to provide you with a fully managed, multi-region, and multi-master database that provides fast, local, read and write performance for massively scaled, global applications. Global Tables replicates your Amazon DynamoDB tables automatically across your choice of AWS regions.

- When using Global Tables, you are charged based on the resources associated with each replica table. Write capacity for Global Tables is re
capacity units (rWCUs) instead of standard write capaci

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Amazon CloudFront – Pricing Model

Amazon CloudFront is a global content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to your viewers with low latency and high transfer speeds.

Pricing is based on:

- Traffic distribution
- Requests
- Data transfer out

Amazon CloudFront

Reserved Pricing Options

Reserving capacity can help organizations achieve significant cost savings by using Reserved Instances (RIs) and other reservation models for compute and data services. RIs allow you to commit to usage parameters at the time of purchase to achieve a lower hourly rate.

Reserved Pricing Options

The Reserved Instance Marketplace allows other AWS customers to list their Reserved Instances for sale. Third-party Reserved Instances are often listed at lower prices and shorter terms. These Reserved Instances are no different from Reserved Instances purchased directly from AWS.

Reserved Pricing Options

DynamoDB
Reserved Capacity

ElastiCache
Reserved Nodes

RDS Reserved
Instances

Redshift Reserved
Nodes

AWS Pricing - Conclusion

- You pay as you go
- Pay for what you use
- Pay less as you use more
- Pay even less when you reserve capacity

Next Video

AWS Cost Calculators