

Project 1: -

Create a Database Instance with the following specifications:

- Database creation method: Standard Create
- Engine: MySQL
- Database Instance size: db.t2.micro

Steps: -

- Go to AWS console and Search RDS.
- click on create Database
- In engine option select MySQL
- Name the database identifier as alphatest1994
- Master username as Admin and create password
- In database instance size select Burstable classes
- Keep remaining as default and click on create Database
- The database will be created as per the requirement.

Create an EC2 Instance with the following specifications:

- AMI: Amazon Linux
- Region: Use only US East (N Virginia), us-east-1, and us-east-2
- Instance types: t2.micro and t3.micro
- Allowed EBS types: GP2 and Standard

Steps: -

- ✚ Go to AWS console and search for EC2
- ✚ Click on running instances
- ✚ Click on launch instances
- ✚ Choose the AMI as per the specification
- ✚ Choose the instances type
- ✚ Add storage
- ✚ Add tags as name and value as RDS-EC2
- ✚ Choose security group, in type select MYSQL/Aurora and in source select anywhere for SSH and MYSQL/Aurora
- ✚ Now click on review and launch
- ✚ Again, go to EC2console for creating the keypairs
- ✚ In network and security select keypairs

- ✚ Create a new keypair of alphatest1994 and click on create, the keypair will be created and downloaded
- ✚ Go on the review and launch page again
- ✚ Select an existing keypair, and in select a keypair as alphatest1994
- ✚ And click on launch instances

For connection: -

- **Open Putty, put the public IP address of instance in Hostname or IP address**
- **In connection select SSH then on Auth, there will be the open of browsing the keypair, select the keypair you have created**
- **Then click on open**
- **The EC2 will open**
- **Install MYSQL with the command `sudo yum install mysql`**
- **After installation, use command `mysql -h alphatest1994.cqcovcftbewi.us-east-1.rds.amazonaws.com -u alphatest1994 -p`**
- **Now enter the password for the database and the connection will be successful**

SCREENSHOTS

The screenshot shows the AWS Management Console Home page. The top navigation bar includes the AWS logo, a 'Services' dropdown, and user information. A blue banner at the top reads 'Welcome to the new EC2 console!'. The left sidebar contains a navigation menu with categories like 'New EC2 Experience', 'EC2 Dashboard', 'Instances', 'Images', and 'Elastic Block Store'. The main content area is titled 'Resources' and displays a table of EC2 resources in the US East (N. Virginia) Region:

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:	
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	0
Security groups	1
Placement groups	0

Below the table is a 'Launch instance' button. To the right, there are sections for 'Account attributes' (Supported platforms, Default VPC, Settings, Zones, Default credit specification, Console experiments) and 'Explore AWS' (Enable Best Price-Performance with AWS Graviton2).

The screenshot shows the AWS Management Console 'Instances' page. The top navigation bar is the same as the previous screenshot. A blue banner at the top reads 'Welcome to the new instances experience!'. The left sidebar is the same as the previous screenshot. The main content area is titled 'Instances' and includes a search bar and a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS
You do not have any i							

Below the table is a 'Select an instance above' message. To the right of the table is a 'Launch instances' button.

← → ↻ console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard: Services Corestack_Role/shrivastav.mayank4@gmail @ 5736-4079-5959 N. Virginia Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)
Quick Start

My AMIs
AWS Marketplace
Community AMIs
☐ Free tier only ⓘ

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0947d2ba12ee1ff75 (64-bit x86) / ami-007a607c4abd192db (64-bit Arm)

Amazon Linux
Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

64-bit (Arm)

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-032930428bf1abbff

Amazon Linux
Free tier eligible

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

64-bit (Arm)

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-098f16afa9edf40be (64-bit x86) / ami-029ba835dd43c34f (64-bit Arm)

Red Hat
Free tier eligible

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

64-bit (Arm)

SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-0a782e324655d1cc0 (64-bit x86) / ami-06ec4eaf39ca724d4 (64-bit Arm)

SUSE Linux
Free tier eligible

SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

64-bit (Arm)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0dba2cb6798deb6d8 (64-bit x86) / ami-0ea142bd244023692 (64-bit Arm)

Select

Cancel and Exit

< > 1 to 40 of 40 AMIs >

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← → ↻ console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard: Services Corestack_Role/shrivastav.mayank4@gmail @ 5736-4079-5959 N. Virginia Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ	IPv6 Support ⓘ
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

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Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/xvda	snap-0f0e35e3435b2eb19	<input type="text" value="8"/>	General Purpose SSD (gp2) ▾	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted ▾

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Add Tags

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key ⓘ (128 characters maximum)	Value ⓘ (256 characters maximum)	Instances ⓘ	Volumes ⓘ
<input type="text" value="name"/>	<input type="text" value="RDS-EC2"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group

☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
MYSQL/Auror	TCP	3306	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Add Rule



Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to [edit changes for each section](#). Click [Launch](#) to assign a key pair to your instance and complete the launch process.



Improve your instances' security. Your s

Your instances may be accessible from any IP add

You can also open additional ports in your security s

AMI Details



Amazon Linux AMI 2018.03.0 (HVM), SSD

Free tier eligible

The Amazon Linux AMI is an EBS-backed, AWS-s

other packages.

Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type

t2.micro

ECUs

Variable

vCPUs

1

Security Groups

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Choose an existing key pair

Select a key pair

alphatest1994

☒ I acknowledge that I have access to the selected private key file (alphatest1994.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#)

[Launch Instances](#)

alphatest1994.ppk

Show all ✕

← → ↻ console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances: Corestack_Role/shrivastav.mayank@gmail.com @ 5736-4079-5959 N. Virginia Support

New EC2 Experience
Tell us what you think

EC2 Dashboard New

Events New

Tags

Limits

▼ Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Scheduled Instances

Capacity Reservations

▼ Images

AMIs

▼ Elastic Block Store

Volumes

Snapshots

Instances (1/1) Info

☒

Name

☒

-

Instance ID

i-0c6a05deab91be604

Instance state

Running

Instance type

t2.micro

Status check

Initializing

Alarm Status

No alarms +

Availability zone

us-east-1a

Public IPv4 DNS

ec2-3-88-164-78.000

Instance: i-0c6a05deab91be604

Details

Security

Networking

Storage

Status Checks

Monitoring

Tags

Feedback

English (US)

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▼ Images

AMIs

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups New

Elastic IPs New

Placement Groups New

Key Pairs New

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups New

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

Welcome to the new EC2 console!

We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Running instances

0

Elastic IPs

0

Dedicated Hosts

0

Snapshots

0

Volumes

0

Load balancers

0

Key pairs

0

Security groups

1

Placement groups

0

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

Launch instance

To get started, launch an Amazon EC2 instance, which is a

Service health

Service Health Dashboard

Account attributes

Supported platforms

• VPC

Default VPC

vpc-bc32cac1

Settings

EBS encryption

Zones

Default credit specification

Console experiments

Explore AWS

Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#)

Feedback

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← → ↻ console.aws.amazon.com/ec2/v2/home?region=us-east-1#KeyPairs: ☆ ⚙️ M ⋮

aws Services ▾

▼ Images
AMIs

▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

▼ Network & Security
Security Groups **New**
Elastic IPs **New**
Placement Groups **New**
Key Pairs **New**
Network Interfaces

▼ Load Balancing
Load Balancers
Target Groups **New**

▼ Auto Scaling
Launch Configurations
Auto Scaling Groups

Key pairs

🔄 Actions ▾ **Create key pair**

🔍 Filter key pairs

<input type="checkbox"/>	Name	Fingerprint	ID
No key pairs to display			

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← → ↻ console.aws.amazon.com/ec2/v2/home?region=us-east-1#KeyPairs: ☆ ⚙️ M ⋮

aws Services ▾

New EC2 Experience
Tell us what you think

EC2 Dashboard **New**
Events **New**
Tags
Limits

▼ Instances
Instances **New**
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts **New**
Scheduled Instances
Capacity Reservations

▼ Images
AMIs

▼ Elastic Block Store
Volumes

Key pairs (1)

🔄 Actions ▾ **Create key pair**

🔍 Filter key pairs

<input type="checkbox"/>	Name	Fingerprint	ID
<input type="checkbox"/>	alphatest1994	bb:83:6b:88:a8:3a:5a:62:4a:6f:d3:10:5...	key-0832b515aaa70d8ae

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📄 alphatest1994.ppk ⌵ **Show all** ✕

← → ↻ console.aws.amazon.com/rds/home?region=us-east-1#databases

aws Services

Corestack_Role/shrivastav.mayank4_gmail @ 5736-4079-5959 N. Virginia Support

Amazon RDS

- Dashboard
- Databases**
- Query Editor
- Performance Insights
- Snapshots
- Automated backups
- Reserved instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom Availability Zones
- Events
- Event subscriptions
- Recommendations
- Certificate update

RDS > Databases

Databases Group resources Modify Actions Restore from S3 Create database

Filter databases

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU
alphatest1994	Instance	MySQL Community	us-east-1a	db.t2.micro	Modifying	2.1

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← → ↻ console.aws.amazon.com/rds/home?region=us-east-1#

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★ Favorites

Add favorites by clicking on the star next to the service name.

Recently visited

- RDS
- Console Home
- EC2
- S3
- Kinesis
- CloudFront

All services

Search: rds

- RDS
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- Kinesis
Work with Real-Time Streaming Data
- Lambda
- Batch
- Elastic Beanstalk
- Serverless Application Reposit...
- AWS Outposts
- EC2 Image Builder
- Storage
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 - AWS Backup
- Database
 - RDS
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- Customer Enablement
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 - Support
 - Managed Services
- Blockchain
 - Amazon Managed Blockchain
- Satellite
 - Ground Station
- Quantum Technologies
 - Amazon Braket
- Management & Governance
 - AWS Organizations
 - CloudWatch
 - AWS Auto Scaling
 - CloudFormation
- Amazon CodeGuru
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- Amazon Fraud Detector
- Amazon Kendra
- Amazon Lex
- Amazon Personalize
- Amazon Polly
- Amazon Rekognition
- Amazon Textract
- Amazon Transcribe
- Amazon Translate
- AWS DeepComposer
- AWS DeepLens
- AWS DeepRacer
- Application Integration
 - Step Functions
 - Amazon AppFlow
 - Amazon EventBridge
 - Amazon MQ
 - Simple Notification Service
 - Simple Queue Service
 - SWF
- AWS Cost Management
 - AWS Cost Explorer
 - AWS Budgets
 - AWS Marketplace Subscriptions
- Customer Engagement
 - Amazon Connect
 - Pinpoint
 - Simple Email Service
- Analytics
 - Athena
 - Amazon Redshift

RDS - Recently Not Available

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Amazon RDS

Dashboard

- Databases
- Query Editor
- Performance Insights
- Snapshots
- Automated backups
- Reserved instances
- Proxies

Subnet groups

Parameter groups

Option groups

Custom Availability Zones

Events

Event subscriptions

Recommendations

Certificate update

Amazon Aurora

Amazon Aurora is a MySQL- and PostgreSQL-compatible enterprise-class database, starting at <\$1/day. Aurora supports up to 64TB of auto-scaling storage capacity, 6-way replication across three availability zones, and 15 low-latency read replicas. [Learn more](#)

[Create database](#)

Or, Restore Aurora DB cluster from S3

Resources

Refresh

You are using the following Amazon RDS resources in the US East (N. Virginia) region (used/quota)

DB Instances (0/40)	Parameter groups (1)
Allocated storage (0 TB/100 TB)	Default (1)
Click here to increase DB instances limit	Custom (0/100)
DB Clusters (0/40)	Option groups (1)
Reserved instances (0/40)	Default (1)
Snapshots (0)	Custom (0/20)
Manual (0/100)	Subnet groups (1/50)
Automated (0)	Supported platforms VPC
Recent events (8)	Default network vpc-bc32cac1
Event subscriptions (0/20)	

Create database

Recommended for you

RDS Proxy - Now Available

Improve your database efficiency and make your application scalable, more resilient and more secure, in just a few clicks. [Learn more](#)

Aurora Global Database

Place your database close to your users for low-latency reads and fast global disaster recovery. [Learn more](#)

Database Performance Tuning

Quickly assess load on your DB and take faster action with an easy-to-use performance dashboard using RDS Performance Insights, at no additional cost. [Learn more](#)

RDS Read replicas

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← → ↻ console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false&s3-import=false

aws Services ▾

Corestack_Role/shrivastav.mayank4_gmail @ 5736-4079-5959 ▾ N. Virginia ▾ Support ▾

Engine options

Engine type [Info](#)

☐ Amazon Aurora

☒ MySQL

☐ MariaDB

☐ PostgreSQL

☐ Oracle

☐ Microsoft SQL Server

Edition

☒ MySQL Community

Known Issues/Limitations

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

Version

MySQL 8.0.20 ▾

<https://console.aws.amazon.com/console/home?region=us-east-1>

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← → ↺ console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false:s3-import=false

Services

Corestack_Role/shrivastav.mayank4@gmail @ 5736-4079-5959 N. Virginia Support

Templates

Choose a sample template to meet your use case.

☒ Production
Use defaults for high availability and fast, consistent performance.

☐ Dev/Test
This instance is intended for development use outside of a production environment.

☐ Free tier
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

Alphatest1994

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter

☐ Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm password [Info](#)

Feedback

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← → ↺ console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false:s3-import=false

Services

Corestack_Role/shrivastav.mayank4@gmail @ 5736-4079-5959 N. Virginia Support

DB instance size

DB instance class [Info](#)

Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above.

☐ Standard classes (includes m classes)

☐ Memory Optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t2.micro
1 vCPUs 1 GiB RAM Not EBS Optimized

▼

☒ Include previous generation classes

Storage

Storage type [Info](#)

Provisioned IOPS (SSD)

Allocated storage

100 GiB

Minimum: 100 GiB, Maximum: 16,384 GiB

Provisioned IOPS [Info](#)

1000 IOPS

Feedback

English (US)

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