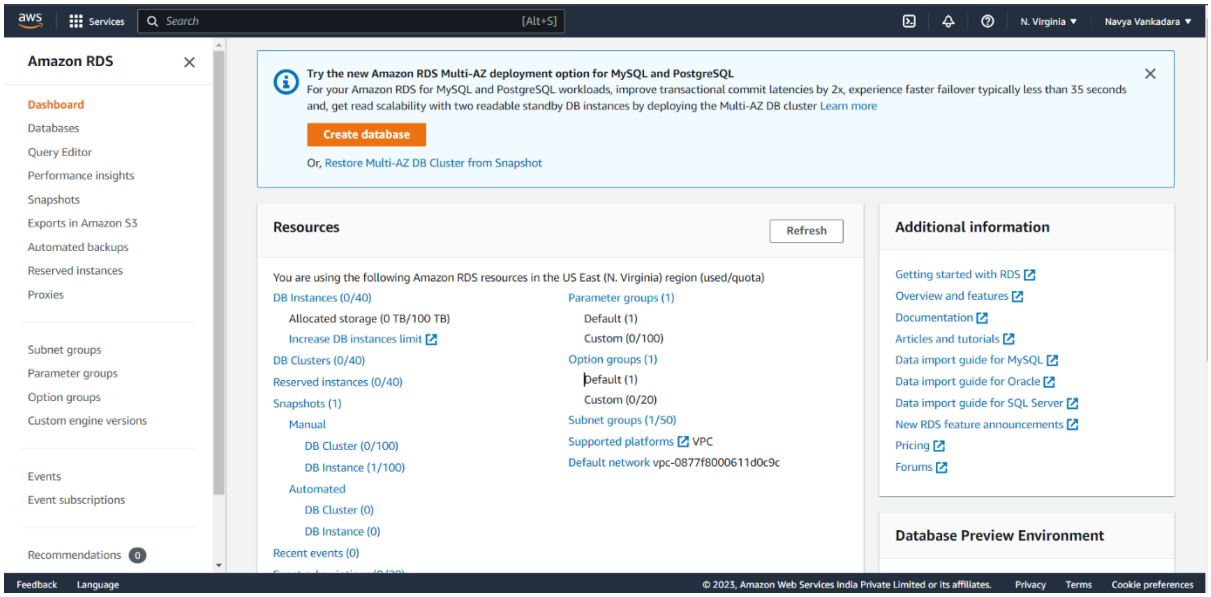
Services
Search
[Alt+S]
N. Virginia
Navya Vankadara
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations 0
Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL
For your Amazon RDS for MySQL and PostgreSQL workloads, improve transactional commit latencies by 2x, experience faster failover typically less than 35 seconds and, get read scalability with two readable standby DB instances by deploying the Multi-AZ DB cluster Learn more
Create database
Or, Restore Multi-AZ DB Cluster from Snapshot
Resources
Refresh
You are using the following Amazon RDS resources in the US East (N. Virginia) region (used/quota)
DB Instances (0/40)
Allocated storage (0 TB/100 TB)
Increase DB instances limit
DB Clusters (0/40)
Reserved instances (0/40)
Snapshots (1)
Manual
DB Cluster (0/100)
DB Instance (1/100)
Automated
DB Cluster (0)
DB Instance (0)
Recent events (0)
Parameter groups (1)
Default (1)
Custom (0/100)
Option groups (1)
Default (1)
Custom (0/20)
Subnet groups (1/50)
Supported platforms VPC
Default network vpc-0877f8000611d0c9c
Additional information
Getting started with RDS
Overview and features
Documentation
Articles and tutorials
Data import guide for MySQL
Data import guide for Oracle
Data import guide for SQL Server
New RDS feature announcements
Pricing
Forums
Database Preview Environment
Feedback
Language
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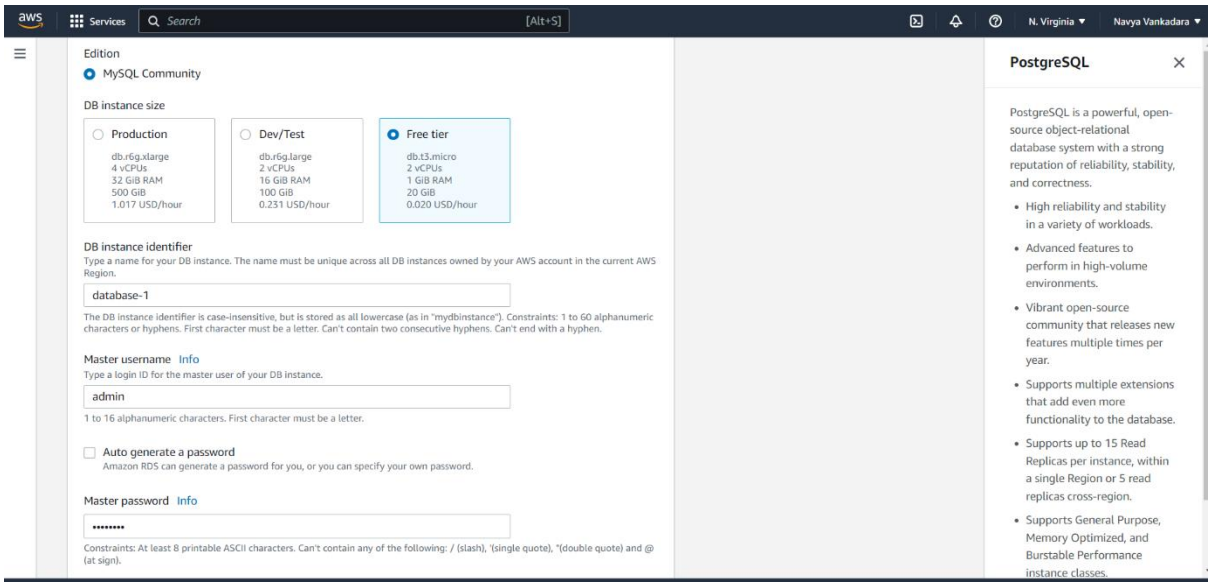
Services
Search
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N. Virginia
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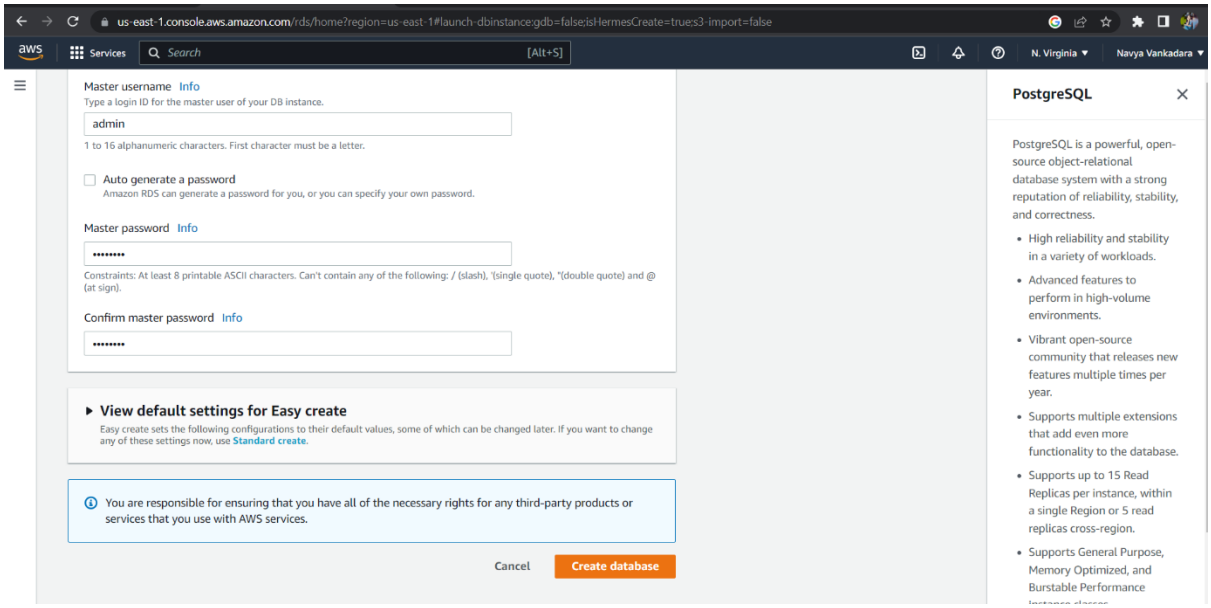
Edition
MySQL Community
DB instance size
Production
db.r6g.xlarge
4 vCPUs
32 GiB RAM
500 GiB
1.017 USD/hour
Dev/Test
db.r6g.large
2 vCPUs
16 GiB RAM
100 GiB
0.231 USD/hour
Free tier
db.t3.micro
2 vCPUs
1 GiB RAM
20 GiB
0.020 USD/hour
DB instance identifier
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.
database-1
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
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).
PostgreSQL
PostgreSQL is a powerful, open-source object-relational database system with a strong reputation of reliability, stability, and correctness.
High reliability and stability in a variety of workloads.
Advanced features to perform in high-volume environments.
Vibrant open-source community that releases new features multiple times per year.
Supports multiple extensions that add even more functionality to the database.
Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.
Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.


us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=false
Services
Search
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N. Virginia
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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 master password Info
View default settings for Easy create
Easy create sets the following configurations to their default values, some of which can be changed later. If you want to change any of these settings now, use Standard create.
You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.
Cancel
Create database
PostgreSQL
PostgreSQL is a powerful, open-source object-relational database system with a strong reputation of reliability, stability, and correctness.
High reliability and stability in a variety of workloads.
Advanced features to perform in high-volume environments.
Vibrant open-source community that releases new features multiple times per year.
Supports multiple extensions that add even more functionality to the database.
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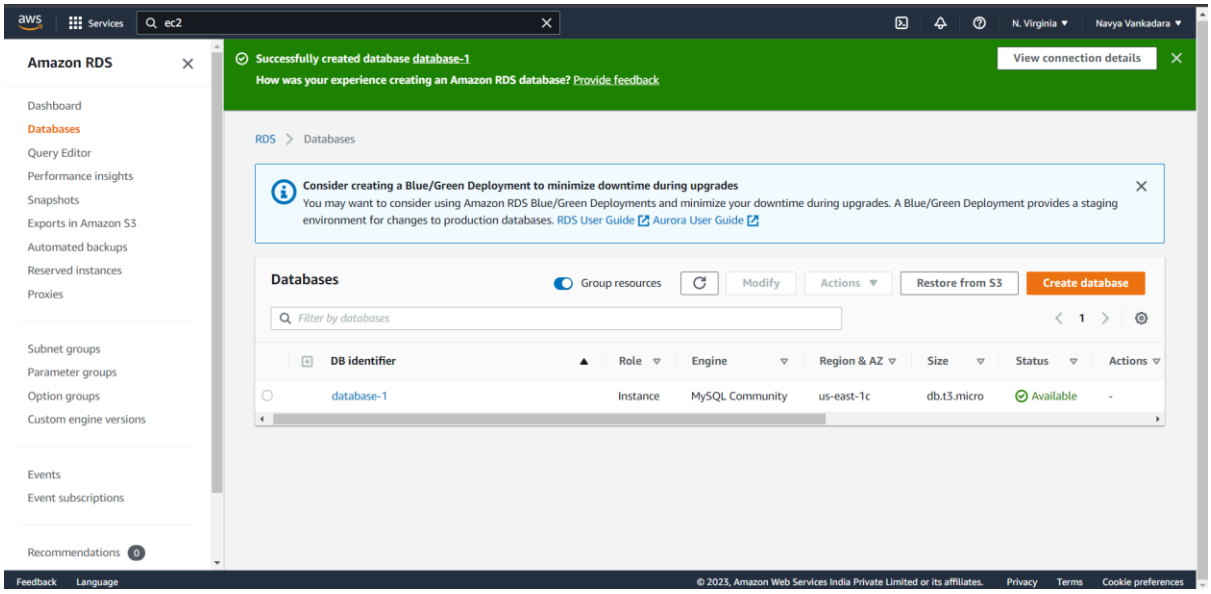
Supports General Purpose, Memory Optimized, and Burstable Performance


aws
Services
ec2
N. Virginia
Navya Vankadara
Amazon RDS
Successfully created database database-1
How was your experience creating an Amazon RDS database? Provide feedback
View connection details
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Role
Engine
Region & AZ
Size
Status
Actions
database-1
Instance
MySQL Community
us-east-1c
db.t3.micro
Available
Feedback
Language
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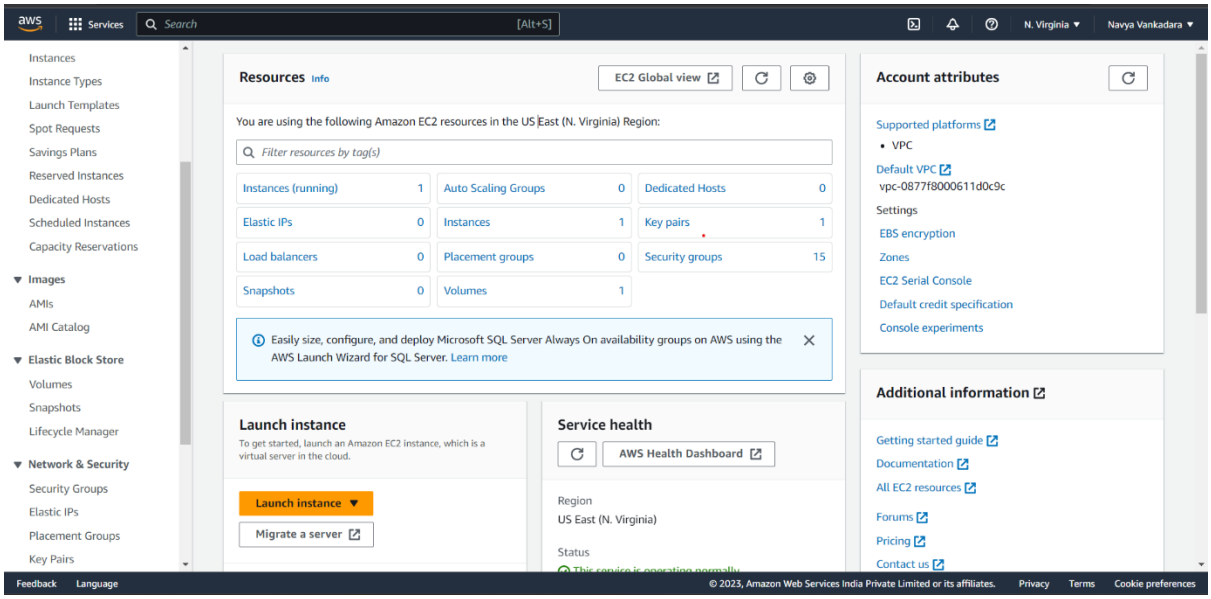
aws
Services
Search
[Alt+S]
N. Virginia
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Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Resources Info
EC2 Global view
You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:
Filter resources by tag(s)
Instances (running) 1
Auto Scaling Groups 0
Dedicated Hosts 0
Elastic IPs 0
Instances 1
Key pairs 1
Load balancers 0
Placement groups 0
Security groups 15
Snapshots 0
Volumes 1
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 virtual server in the cloud.
Launch instance
Migrate a server
Service health
AWS Health Dashboard
Region
US East (N. Virginia)
Status
Account attributes
Supported platforms
VPC
Default VPC
vpc-0877f8000611d0c9c
Settings
EBS encryption
Zones
EC2 Serial Console
Default credit specification
Console experiments
Additional information
Getting started guide
Documentation
All EC2 resources
Forums
Pricing
Contact us
Feedback
Language
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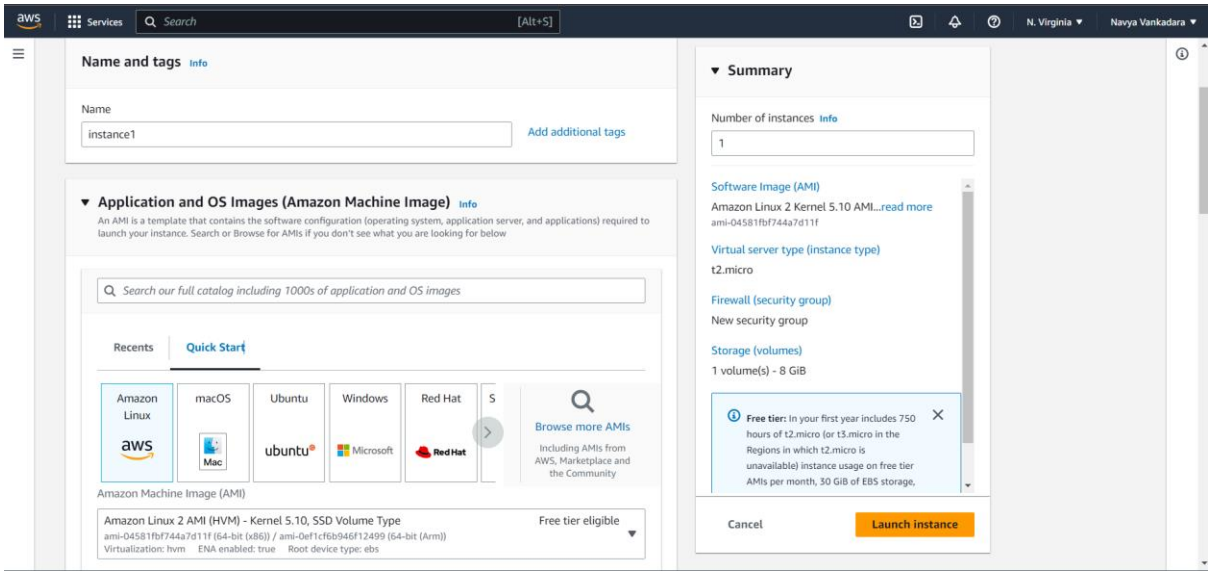
aws
Services
Search
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N. Virginia
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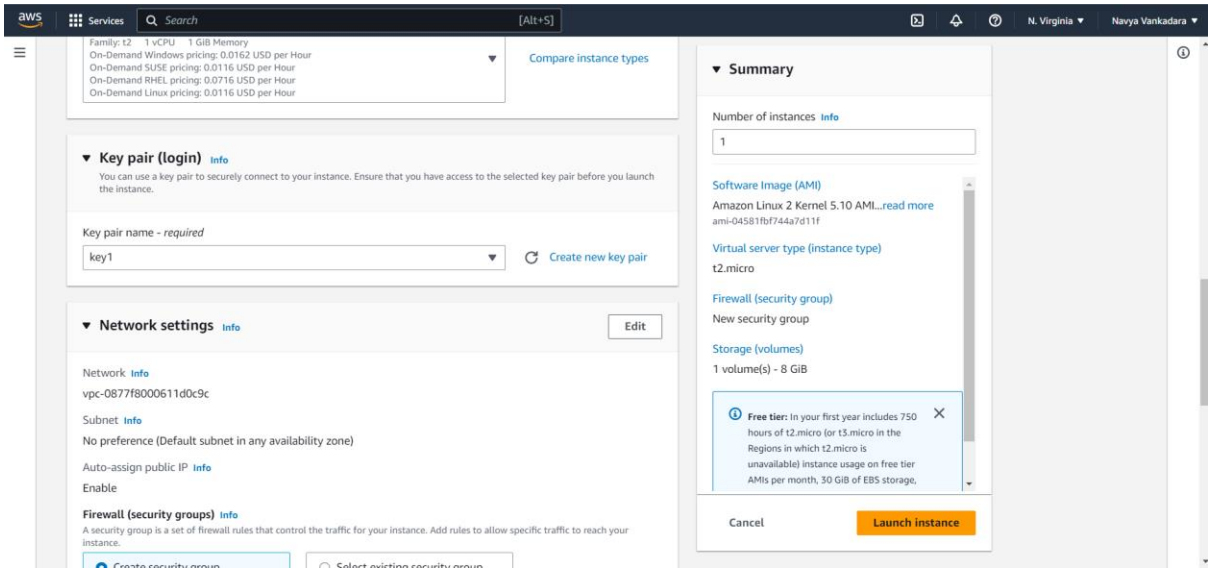
Name and tags Info
Name
instance1
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
Free tier eligible
ami-04581fbf744a7d11f (64-bit (x86)) / ami-0ef1cf6b946f12499 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-04581fbf744a7d11f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance


Services
Search
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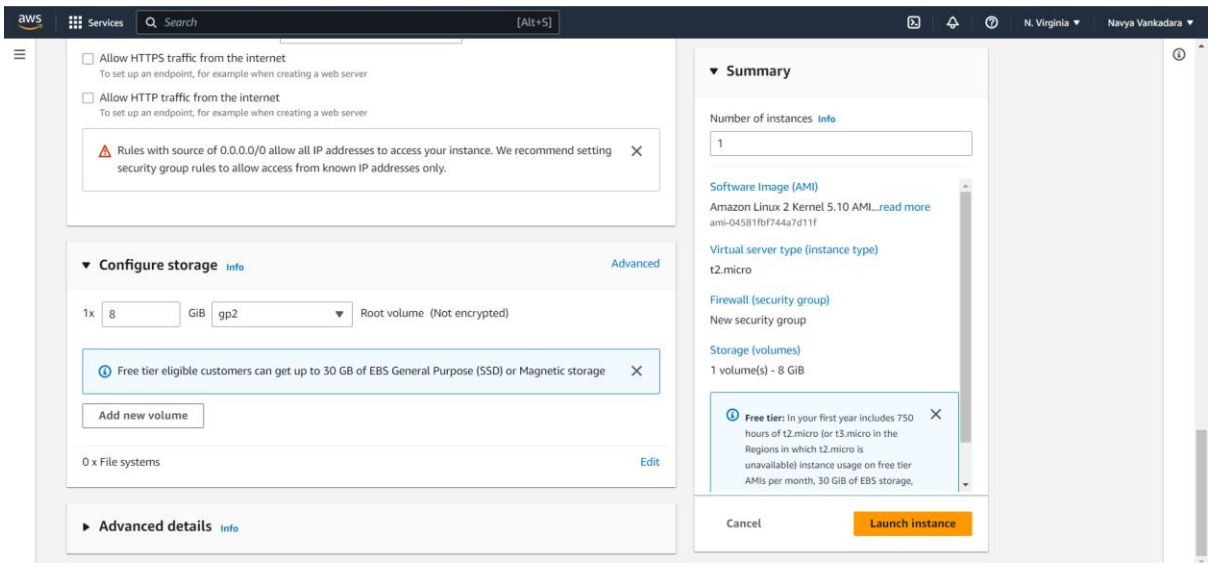
Family: t2 1 vCPU 1 GiB Memory
On-Demand Windows pricing: 0.0162 USD per Hour
On-Demand SUSE pricing: 0.0116 USD per Hour
On-Demand RHEL pricing: 0.0716 USD per Hour
On-Demand Linux pricing: 0.0116 USD per Hour
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
key1
Create new key pair
Network settings Info
Edit
Network Info
vpc-0877f8000611d0c9c
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-04581fbf744a7d11f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance


Services
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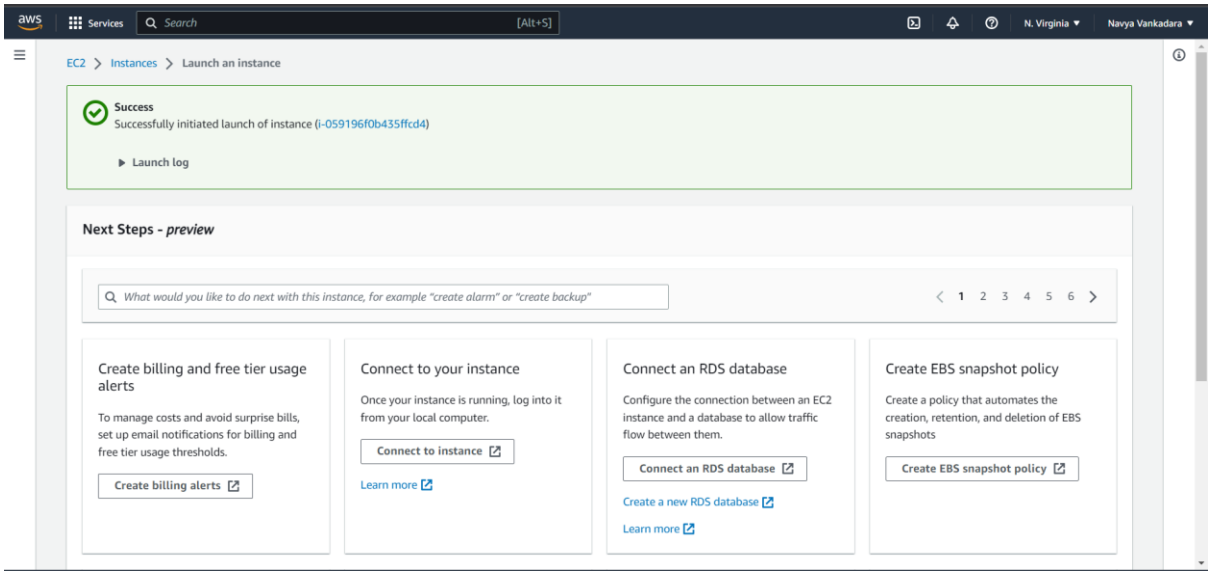
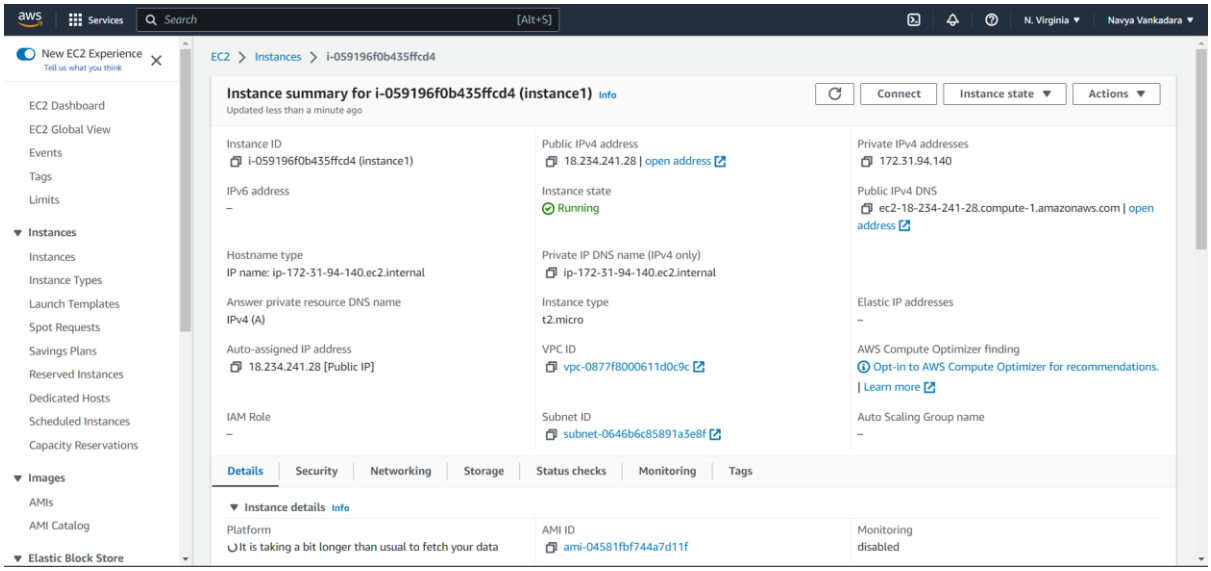
Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server
Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Configure storage Info
Advanced
1x 8 GiB gp2 Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-04581fbf744a7d11f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance


Services
Search
[Alt+S]
N. Virginia
Navya Vankadara
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-059196f0b435ffcd4)
Launch log
Next Steps - preview
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy


aws
Services
Search
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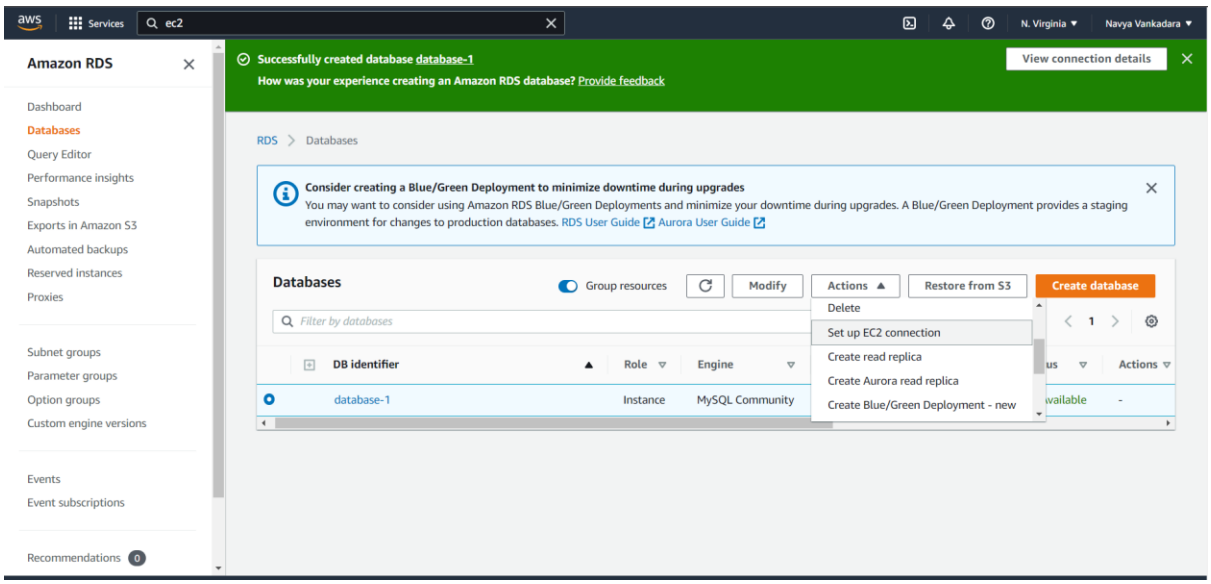
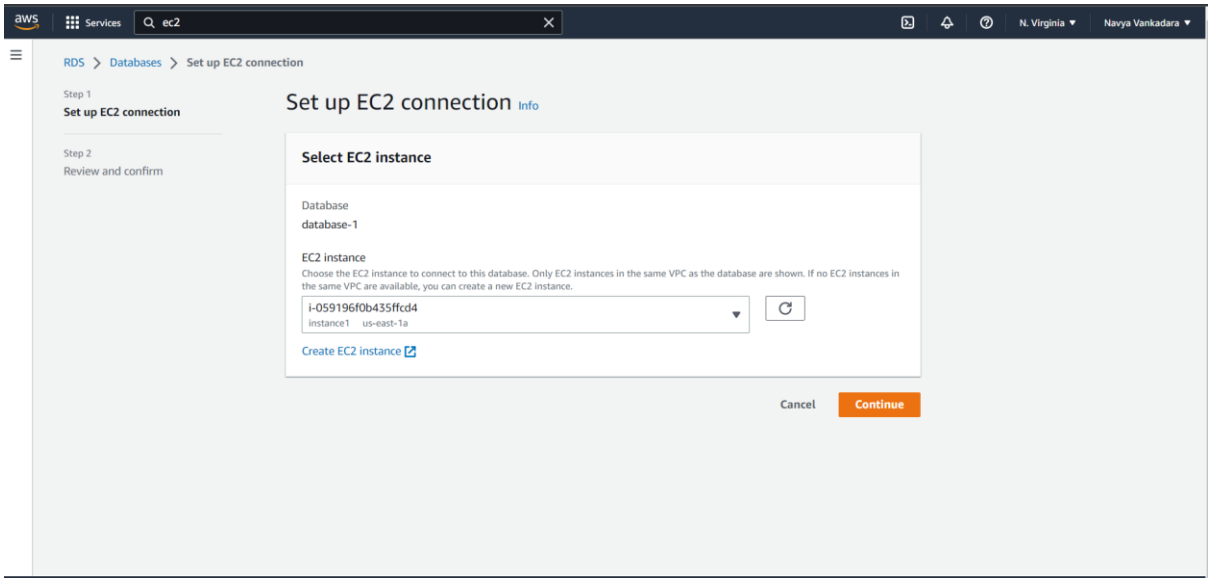
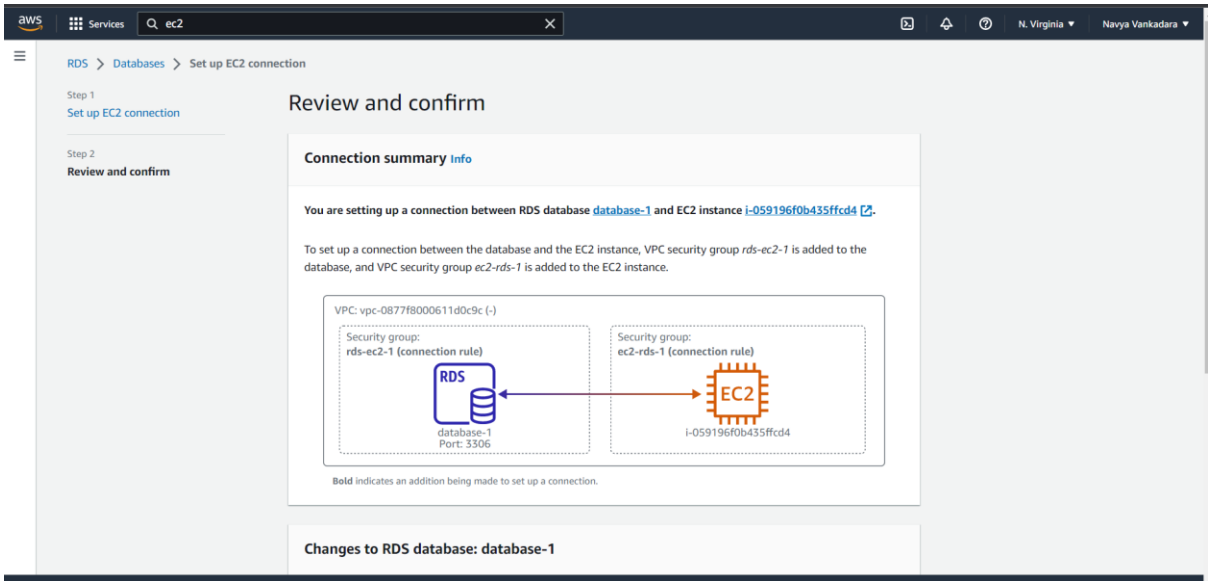
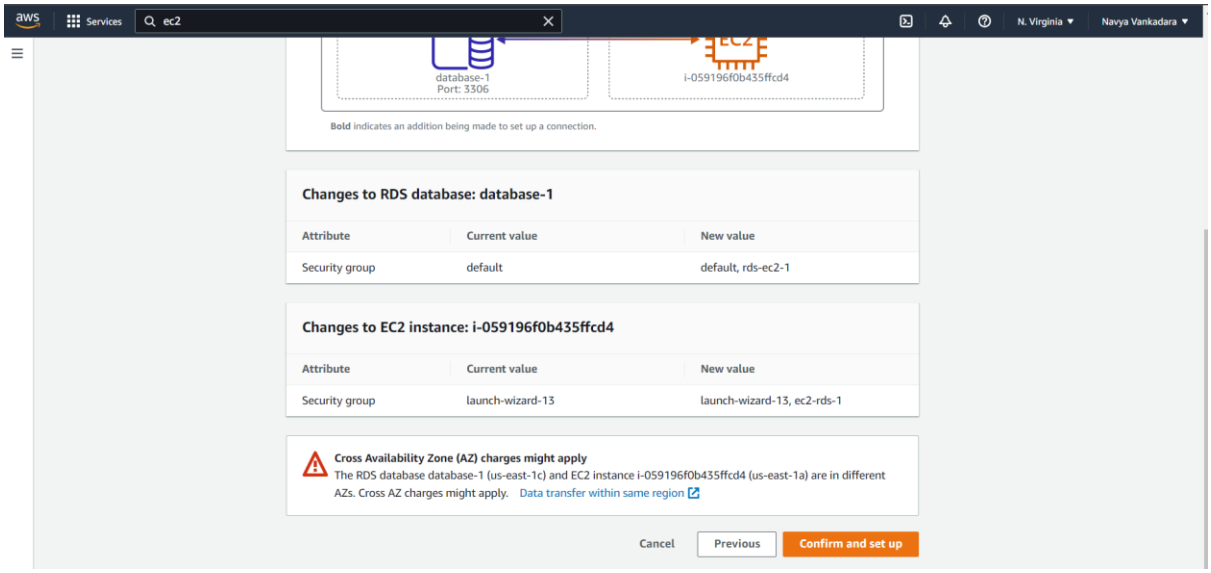
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
EC2 > Instances > i-059196f0b435ffcd4
Instance summary for i-059196f0b435ffcd4 (instance1) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-059196f0b435ffcd4 (instance1)
Public IPv4 address
18.234.241.28 | open address
Private IPv4 addresses
172.31.94.140
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-18-234-241-28.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-94-140.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-94-140.ec2.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
18.234.241.28 [Public IP]
VPC ID
vpc-0877f8000611d0c9c
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-0646b6c85891a3e8f
Auto Scaling Group name
–
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance details Info
Platform
It is taking a bit longer than usual to fetch your data
AMI ID
ami-04581fbf744a7d11f
Monitoring
disabled


aws
Services
ec2
N. Virginia
Navya Vankadara
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations 0
Successfully created database database-1
How was your experience creating an Amazon RDS database? Provide feedback
View connection details
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
Delete
Set up EC2 connection
Create read replica
Create Aurora read replica
Create Blue/Green Deployment - new
DB identifier
Role
Engine
Actions
database-1
Instance
MySQL Community


aws
Services
ec2
N. Virginia
Navya Vankadara
RDS > Databases > Set up EC2 connection
Step 1
Set up EC2 connection
Step 2
Review and confirm
Set up EC2 connection Info
Select EC2 instance
Database
database-1
EC2 instance
Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.
i-059196f0b435ffcd4
instance1 us-east-1a
Create EC2 instance
Cancel
Continue


aws
Services
ec2
N. Virginia
Navya Vankadara
RDS > Databases > Set up EC2 connection
Step 1
Set up EC2 connection
Step 2
Review and confirm
Review and confirm
Connection summary Info
You are setting up a connection between RDS database database-1 and EC2 instance i-059196f0b435ffcd4.
To set up a connection between the database and the EC2 instance, VPC security group rds-ec2-1 is added to the database, and VPC security group ec2-rds-1 is added to the EC2 instance.
VPC: vpc-0877f8000611d0c9c (-)
Security group:
rds-ec2-1 (connection rule)
RDS
database-1
Port: 3306
Security group:
ec2-rds-1 (connection rule)
EC2
i-059196f0b435ffcd4
Bold indicates an addition being made to set up a connection.
Changes to RDS database: database-1


aws
Services
ec2
N. Virginia
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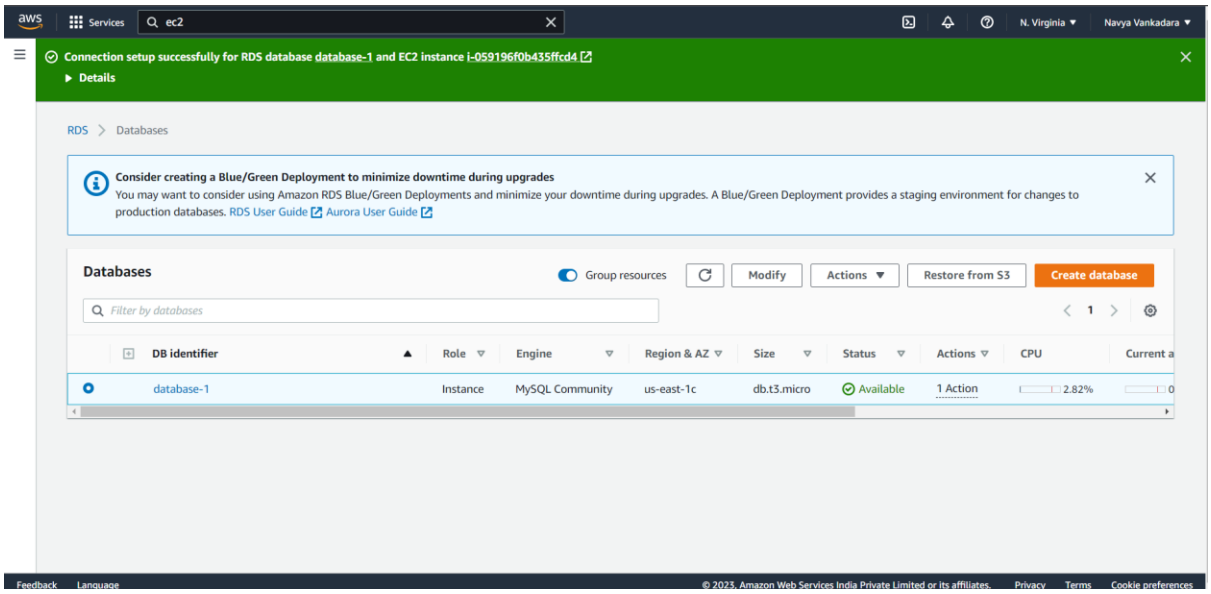
database-1
Port: 3306
i-059196f0b435ffcd4
Bold indicates an addition being made to set up a connection.
Changes to RDS database: database-1
Attribute
Current value
New value
Security group
default
default, rds-ec2-1
Changes to EC2 instance: i-059196f0b435ffcd4
Attribute
Current value
New value
Security group
launch-wizard-13
launch-wizard-13, ec2-rds-1
Cross Availability Zone (AZ) charges might apply
The RDS database database-1 (us-east-1c) and EC2 instance i-059196f0b435ffcd4 (us-east-1a) are in different AZs. Cross AZ charges might apply. Data transfer within same region
Cancel
Previous
Confirm and set up


aws
Services
ec2
N. Virginia
Navya Vankadara
Connection setup successfully for RDS database database-1 and EC2 instance i-059196f0b435ffcd4
Details
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Databases
Group resources
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Create database
Filter by databases
DB identifier
Role
Engine
Region & AZ
Size
Status
Actions
CPU
database-1
Instance
MySQL Community
us-east-1c
db.t3.micro
Available
1 Action
2.82%
Feedback
Language
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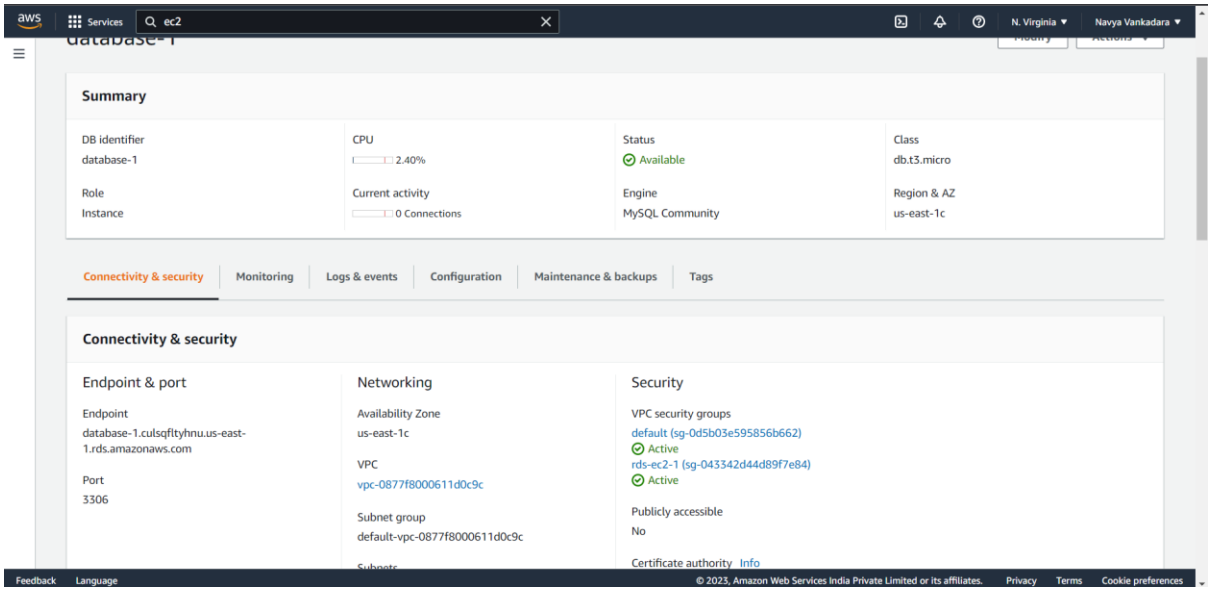
aws
Services
ec2
N. Virginia
Navya Vankadara
database-1
Summary
DB identifier
database-1
CPU
2.40%
Status
Available
Class
db.t3.micro
Role
Instance
Current activity
0 Connections
Engine
MySQL Community
Region & AZ
us-east-1c
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Connectivity & security
Endpoint & port
Endpoint
database-1.culsqfltyhnu.us-east-1.rds.amazonaws.com
Port
3306
Networking
Availability Zone
us-east-1c
VPC
vpc-0877f8000611d0c9c
Subnet group
default-vpc-0877f8000611d0c9c
Security
VPC security groups
default (sg-0d5b03e595856b662)
Active
rds-ec2-1 (sg-043342d44d89f7e84)
Active
Publicly accessible
No
Certificate authority Info
Feedback
Language
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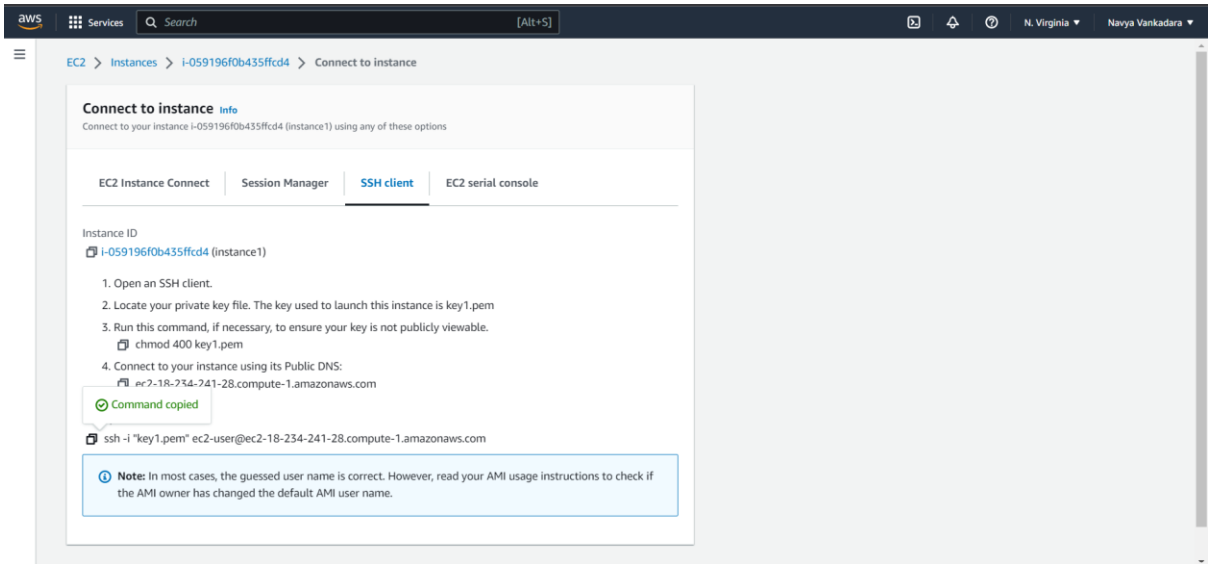
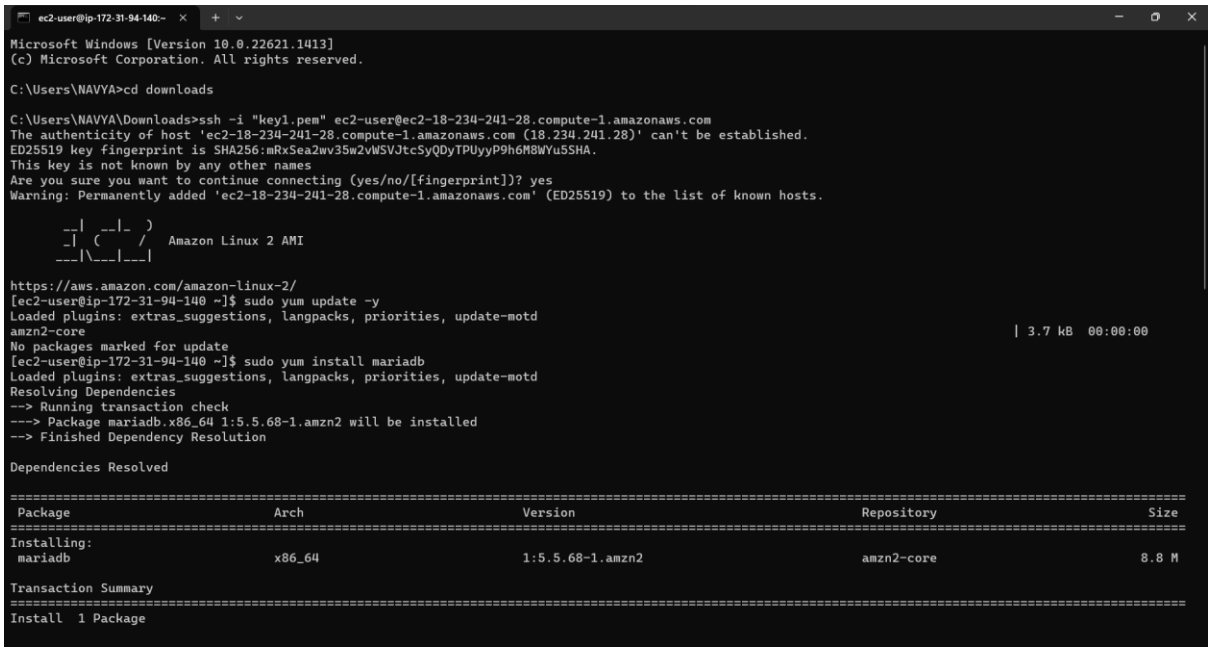

aws
Services
Search
[Alt+S]
N. Virginia
Navya Vankadara
EC2 > Instances > i-059196f0b435ffcd4 > Connect to instance
Connect to instance Info
Connect to your instance i-059196f0b435ffcd4 (instance1) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-059196f0b435ffcd4 (instance1)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is key1.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 key1.pem
4. Connect to your instance using its Public DNS:
ec2-18-234-241-28.compute-1.amazonaws.com
Command copied
ssh -i "key1.pem" ec2-user@ec2-18-234-241-28.compute-1.amazonaws.com
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.


ec2-user@ip-172-31-94-140:~
Microsoft Windows [Version 10.0.22621.1413]
(c) Microsoft Corporation. All rights reserved.
C:\Users\NAVYA>cd downloads
C:\Users\NAVYA\Downloads>ssh -i "key1.pem" ec2-user@ec2-18-234-241-28.compute-1.amazonaws.com
The authenticity of host 'ec2-18-234-241-28.compute-1.amazonaws.com (18.234.241.28)' can't be established.
ED25519 key fingerprint is SHA256:mRxSea2wv35w2vWSVJtcSyQDyTPUyyP9h6M8WYu5SHA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-234-241-28.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-94-140 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-94-140 ~]$ sudo yum install mariadb
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package mariadb.x86_64 1:5.5.68-1.amzn2 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
Package Arch Version Repository Size
Installing:
mariadb x86_64 1:5.5.68-1.amzn2 amzn2-core 8.8 M
Transaction Summary
Install 1 Package

```
================================================================================================================================================================
Install  1 Package

Total download size: 8.8 M
Installed size: 49 M
Is this ok [y/d/N]: y
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm                                                                                                  | 8.8 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:mariadb-5.5.68-1.amzn2.x86_64                                                                                                 1/1
  Verifying  : 1:mariadb-5.5.68-1.amzn2.x86_64                                                                                                 1/1

Installed:
  mariadb.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-94-140 ~]$ mysql -h database-1.culsqfltyhnu.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.28 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> SELECT CURRENT_TIMESTAMP;
+---------------------+
| CURRENT_TIMESTAMP   |
+---------------------+
| 2023-03-25 06:44:14 |
+---------------------+
1 row in set (0.00 sec)

MySQL [(none)]> CREATE DATABASE navyadb;
Query OK, 1 row affected (0.01 sec)
```

```
MySQL [navyadb]> INSERT INTO sampletable (name) VALUES('apple');
Query OK, 1 row affected (0.01 sec)

MySQL [navyadb]> INSERT INTO sampletable (name) VALUES('banana');
Query OK, 1 row affected (0.01 sec)

MySQL [navyadb]> SELECT * from navyadb;
ERROR 1146 (42S02): Table 'navyadb.navyadb' doesn't exist
MySQL [navyadb]> SELECT * from sampletable
    -> ;
+----+--------+
| id | name   |
+----+--------+
|  1 | apple  |
|  2 | banana |
+----+--------+
2 rows in set (0.00 sec)

MySQL [navyadb]>
```