Full Name: Sai Rohit Chinta

Email: sairohitchinta@gmail.com

**Project-2[Elastic Beanstalk with external RDS DB & blue green deployment]**

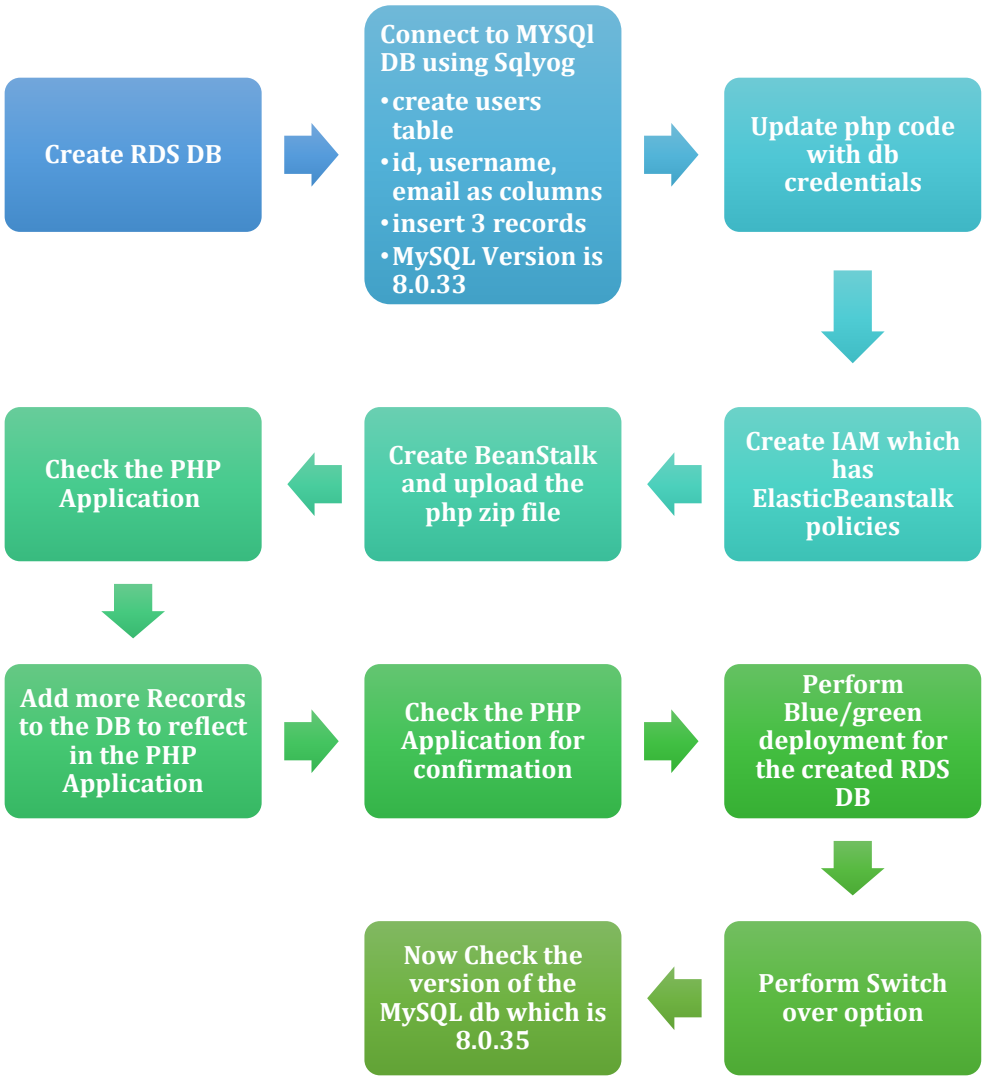
**Topics:**

In this AWS project, you have to deploy a high-availability PHP application with an external Amazon RDS database to Elastic Beanstalk. Running a DB instance external to Elastic Beanstalk decouples the database from the lifecycle of your environment. This lets you connect to the same database from multiple environments, swap one database for another, or perform a blue/green deployment without affecting your database.

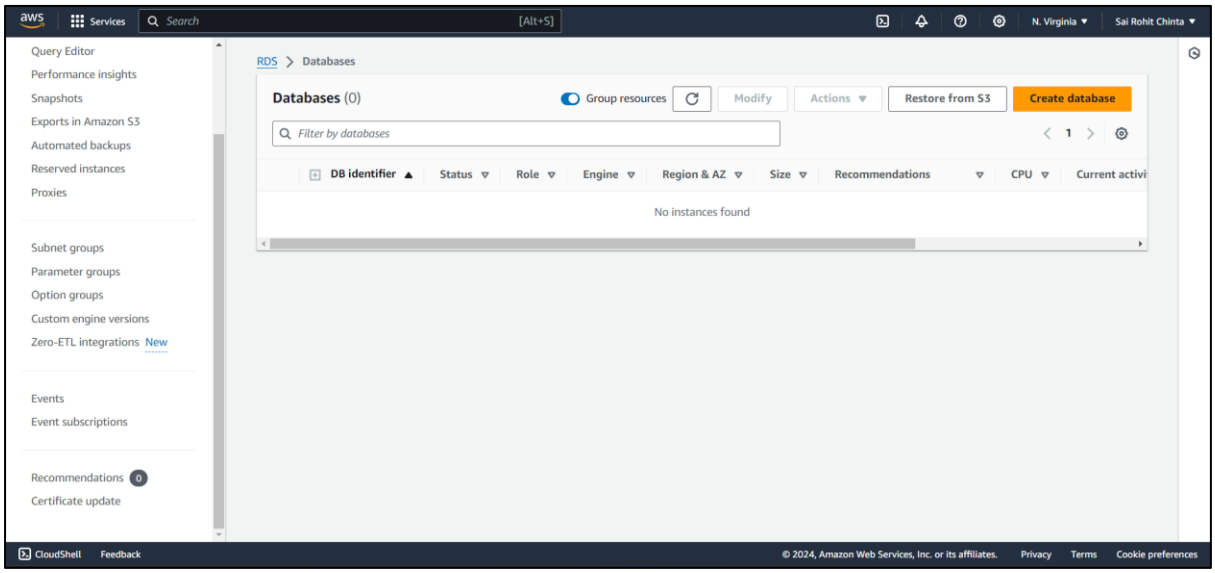
**Highlights:**

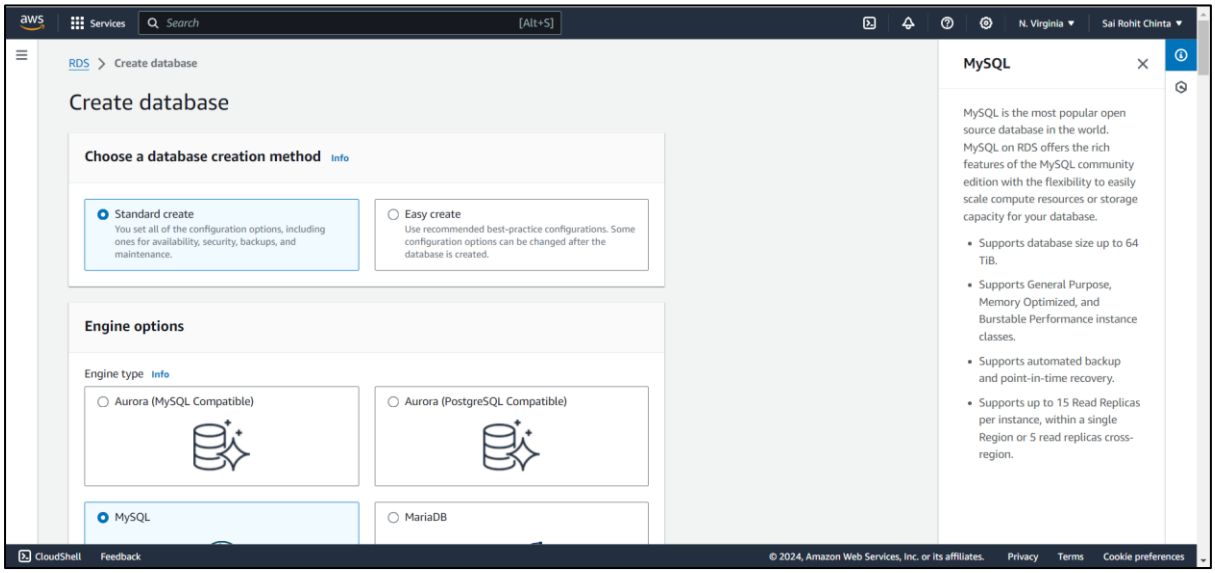
Launch a DB instance in Amazon RDS Create an Elastic Beanstalk Environment Configure Security Groups and Scaling

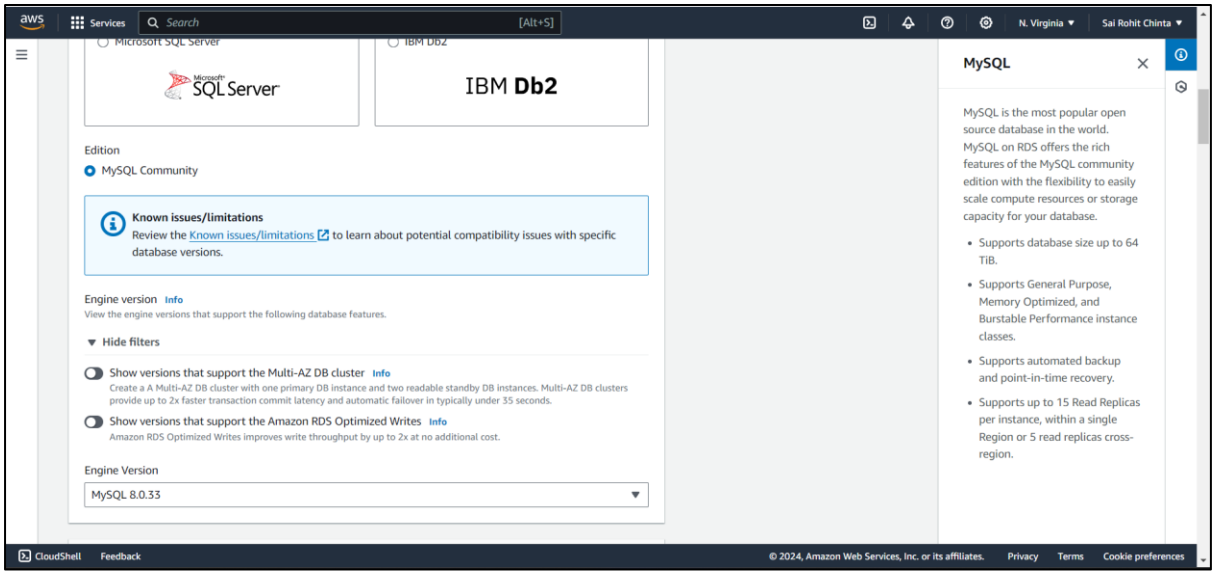
## Work Flow

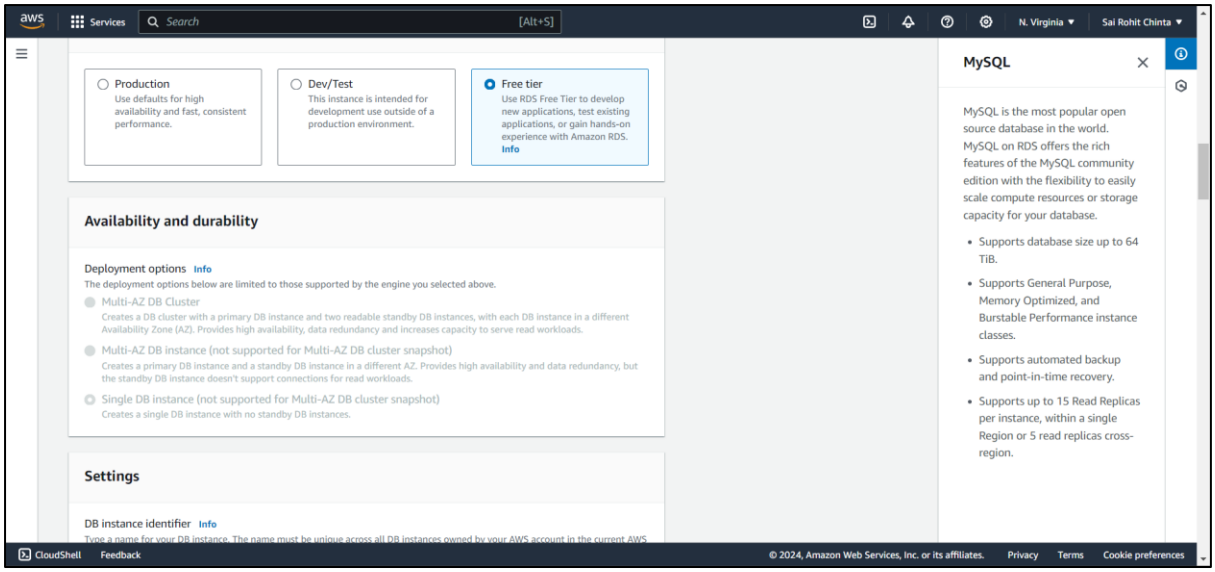


**Step-1:** Create a rds db

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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
Availability and durability
Deployment options Info
The deployment options below are limited to those supported by the engine you selected above.
Multi-AZ DB Cluster
Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.
Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.
Single DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a single DB instance with no standby DB instances.
Settings
DB instance identifier Info
MySQL
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.
Supports database size up to 64 TiB.
Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
Supports automated backup and point-in-time recovery.
Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.
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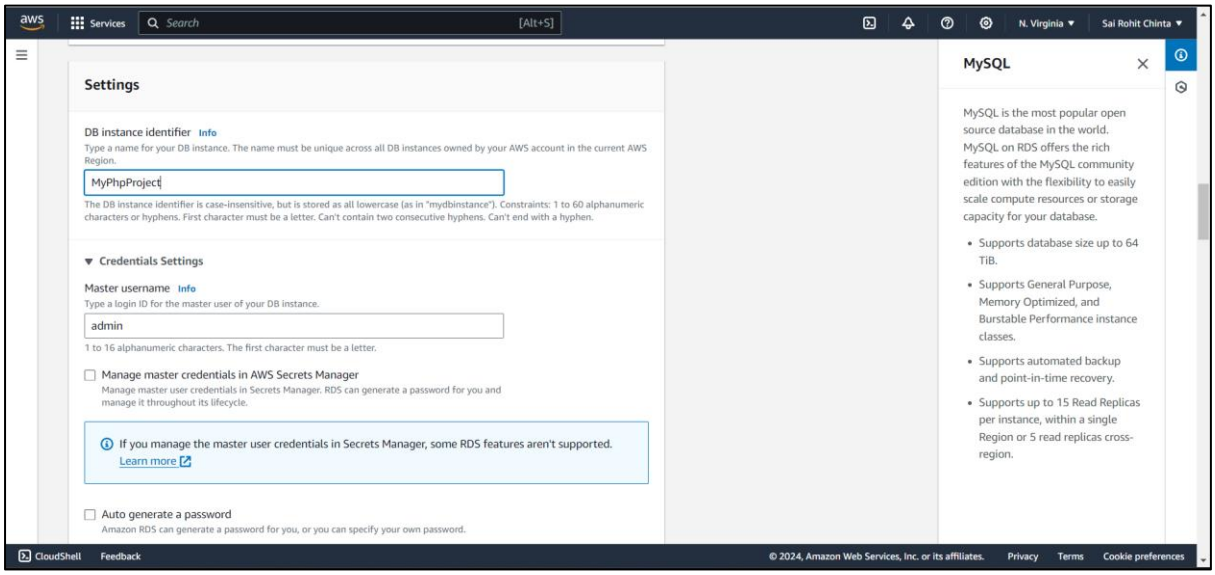
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Settings
DB instance identifier Info
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.
MyPhpProject
The DB instance identifier is case-insensitive, but is stored as 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.
Credentials Settings
Master username Info
Type a login ID for the master user of your DB instance.
admin
1 to 16 alphanumeric characters. The first character must be a letter.
Manage master credentials in AWS Secrets Manager
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.
If you manage the master user credentials in Secrets Manager, some RDS features aren't supported.
Learn more
Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.
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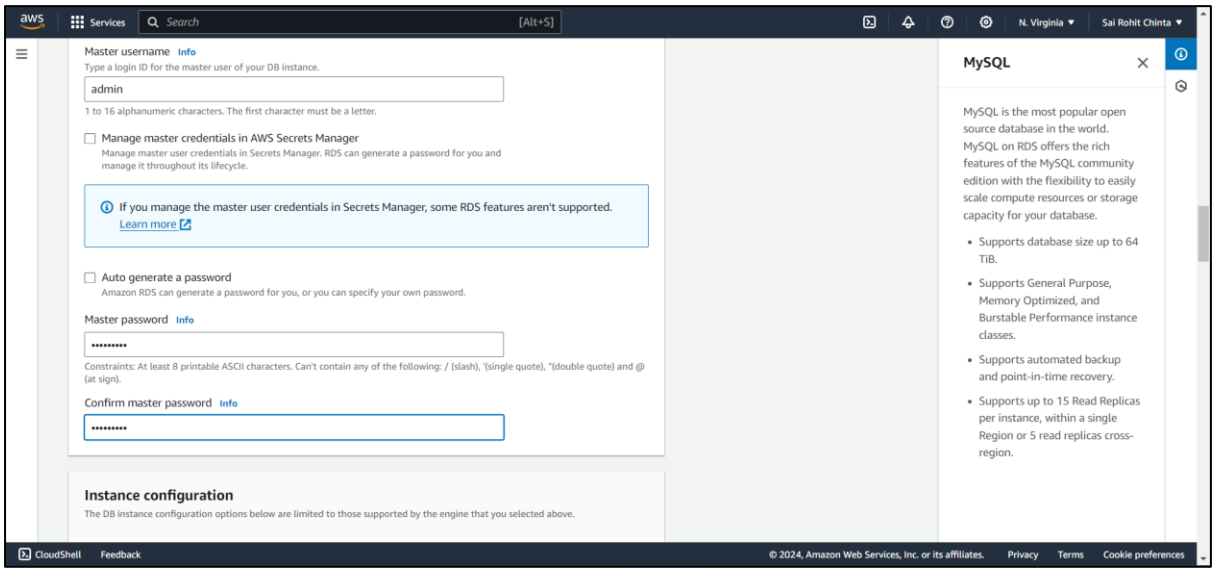
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Learn more
Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.
Master password Info
Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).
Confirm master password Info
Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.
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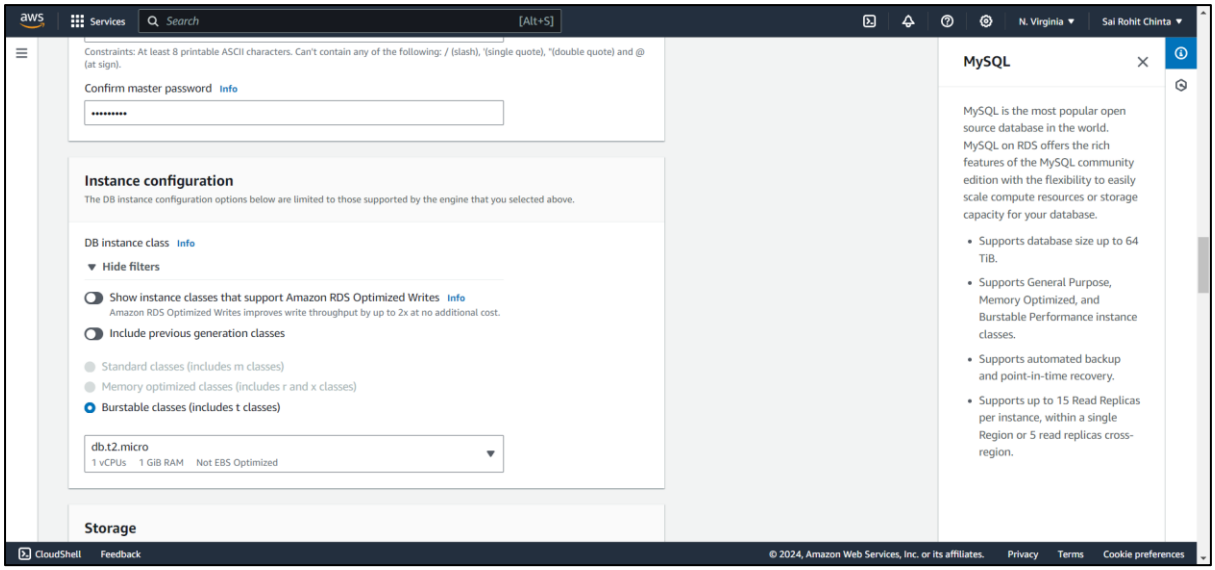
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Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).
Confirm master password Info
Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.
DB instance class Info
Hide filters
Show instance classes that support Amazon RDS Optimized Writes Info
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.
Include previous generation classes
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
Storage
MySQL
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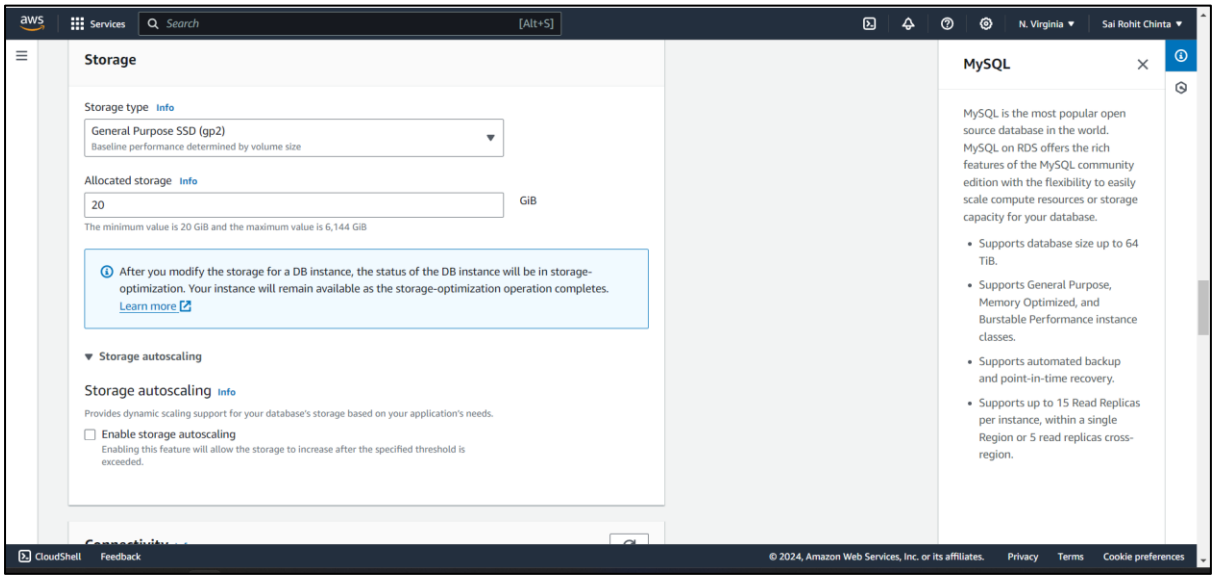
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Storage
Storage type Info
General Purpose SSD (gp2)
Baseline performance determined by volume size
Allocated storage Info
20
GiB
The minimum value is 20 GiB and the maximum value is 6,144 GiB
After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes.
Learn more
Storage autoscaling
Storage autoscaling Info
Provides dynamic scaling support for your database's storage based on your application's needs.
Enable storage autoscaling
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.
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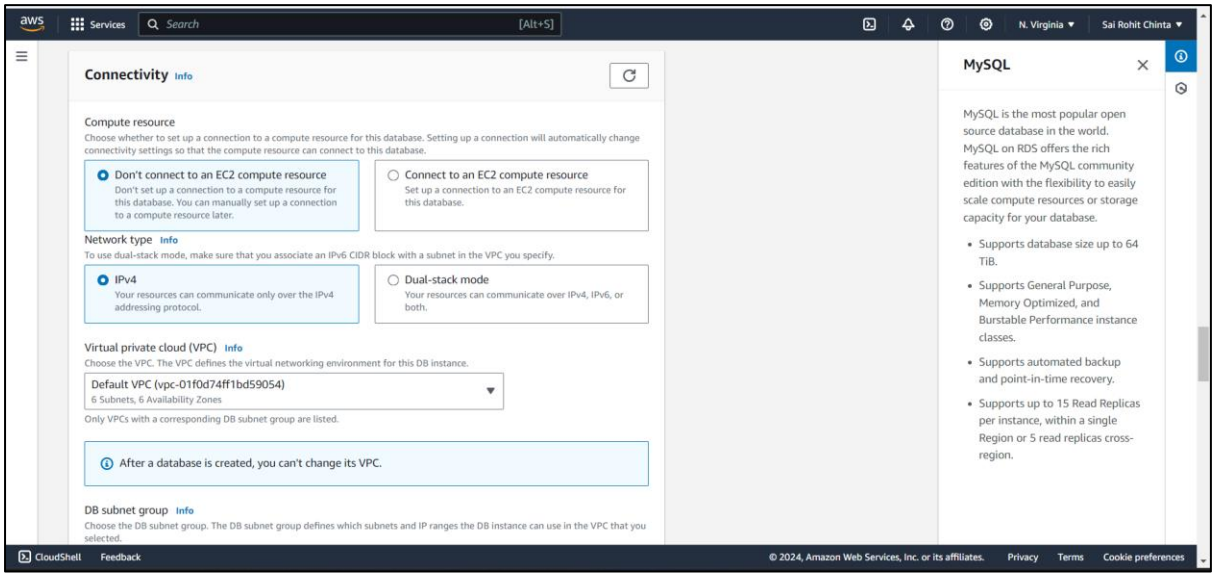
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Connectivity Info
Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.
Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.
Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.
Network type Info
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.
IPv4
Your resources can communicate only over the IPv4 addressing protocol.
Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.
Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.
Default VPC (vpc-01f0d74ff1bd59054)
6 Subnets, 6 Availability Zones
Only VPCs with a corresponding DB subnet group are listed.
After a database is created, you can't change its VPC.
DB subnet group Info
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.
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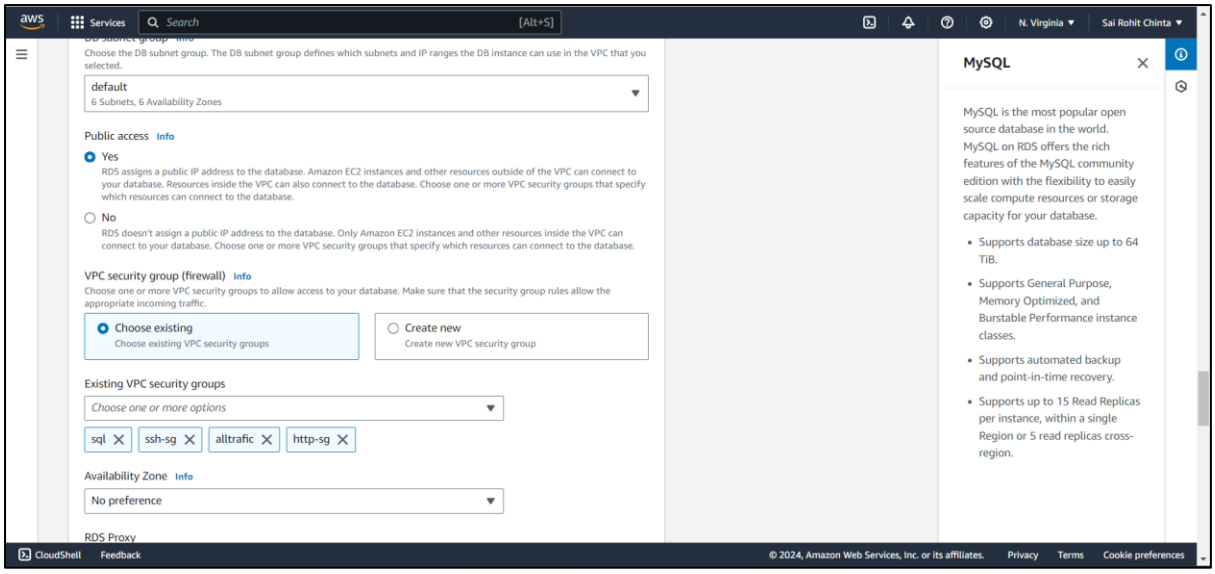
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Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.
default
6 Subnets, 6 Availability Zones
Public access Info
Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.
VPC security group (firewall) Info
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
Choose existing
Choose existing VPC security groups
Create new
Create new VPC security group
Existing VPC security groups
Choose one or more options
sql
ssh-sg
alltrafic
http-sg
Availability Zone Info
No preference
RDS Proxy
MySQL
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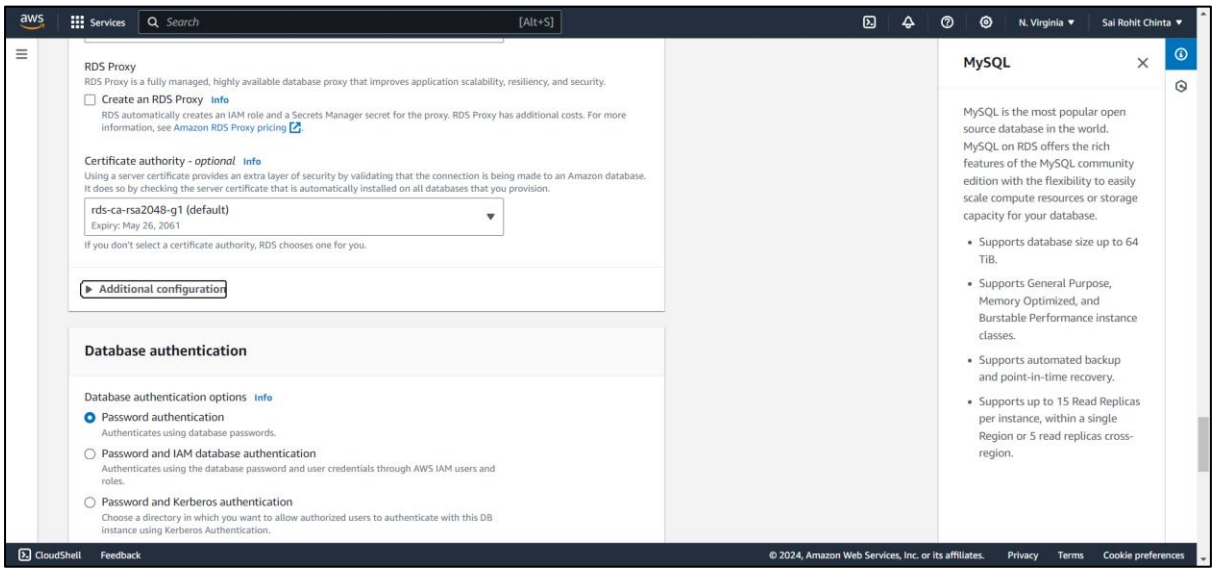
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RDS Proxy
RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.
Create an RDS Proxy Info
RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see Amazon RDS Proxy pricing.
Certificate authority - optional Info
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.
rds-ca-rsa2048-g1 (default)
Expiry: May 26, 2061
If you don't select a certificate authority, RDS chooses one for you.
Additional configuration
Database authentication
Database authentication options Info
Password authentication
Authenticates using database passwords.
Password and IAM database authentication
Authenticates using the database password and user credentials through AWS IAM users and roles.
Password and Kerberos authentication
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.
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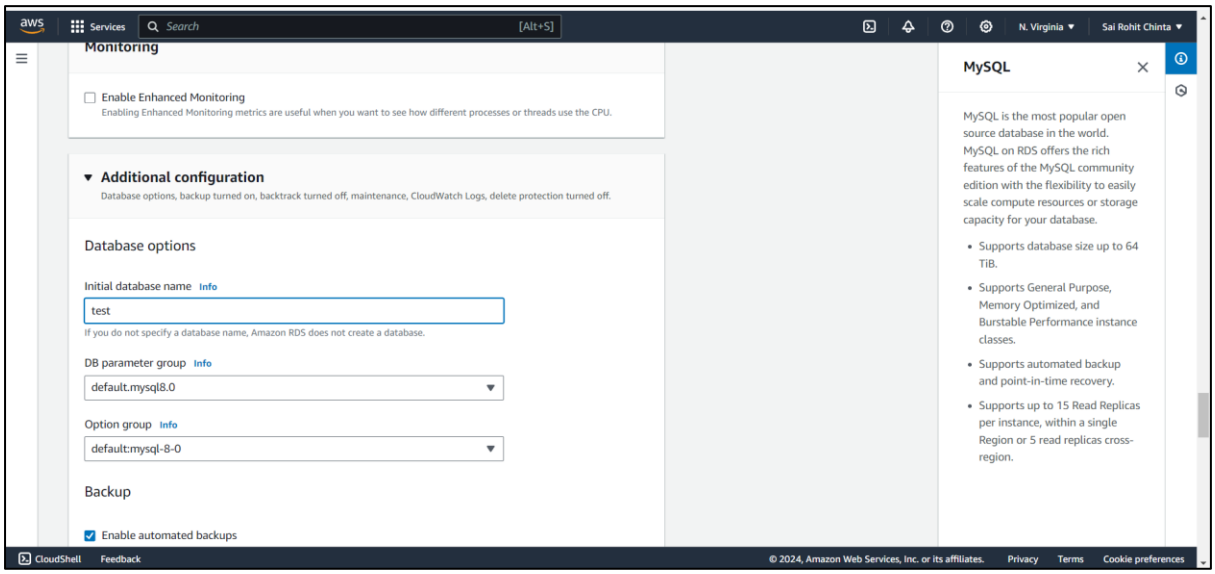
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Monitoring
Enable Enhanced Monitoring
Enabling Enhanced Monitoring metrics are useful when you want to see how different processes or threads use the CPU.
Additional configuration
Database options, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.
Database options
Initial database name Info
test
If you do not specify a database name, Amazon RDS does not create a database.
DB parameter group Info
default.mysql8.0
Option group Info
default:mysql-8-0
Backup
Enable automated backups
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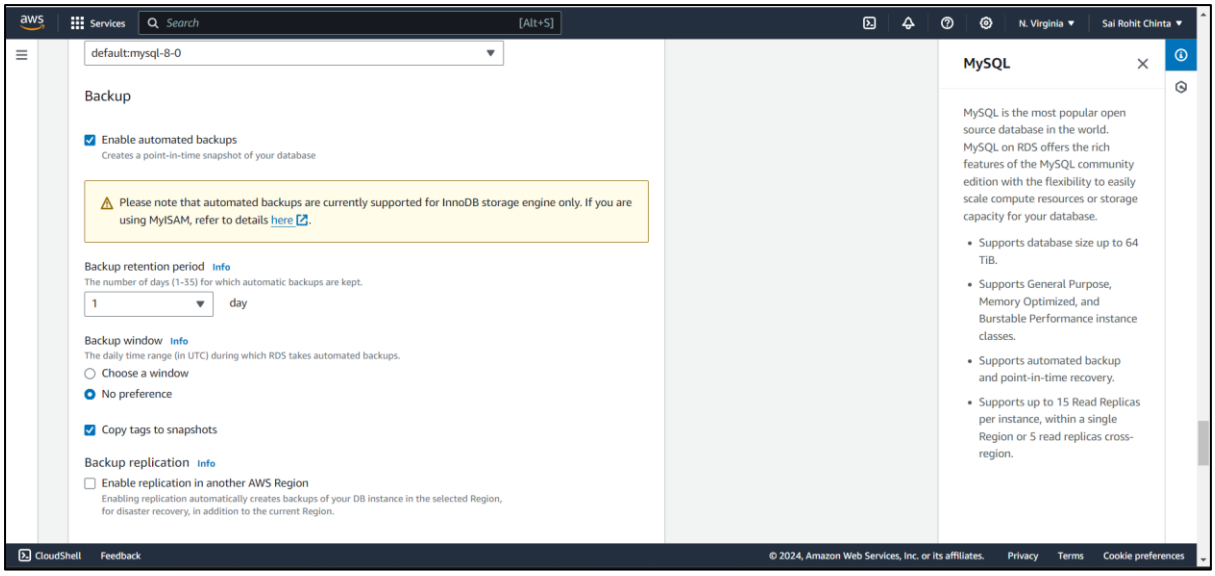
default:mysql-8-0
Backup
Enable automated backups
Creates a point-in-time snapshot of your database
Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details here.
Backup retention period Info
The number of days (1-35) for which automatic backups are kept.
1
day
Backup window Info
The daily time range (in UTC) during which RDS takes automated backups.
Choose a window
No preference
Copy tags to snapshots
Backup replication Info
Enable replication in another AWS Region
Enabling replication automatically creates backups of your DB instance in the selected Region, for disaster recovery, in addition to the current Region.
MySQL
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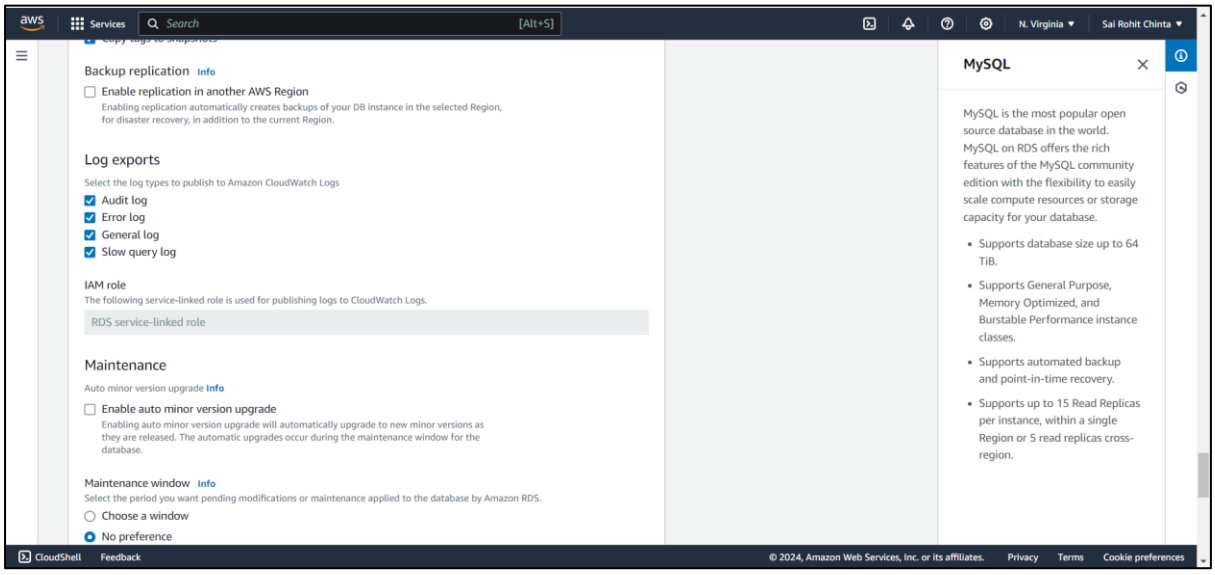
Backup replication Info
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Log exports
Select the log types to publish to Amazon CloudWatch Logs
Audit log
Error log
General log
Slow query log
IAM role
The following service-linked role is used for publishing logs to CloudWatch Logs.
RDS service-linked role
Maintenance
Auto minor version upgrade Info
Enable auto minor version upgrade
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.
Maintenance window Info
Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.
Choose a window
No preference
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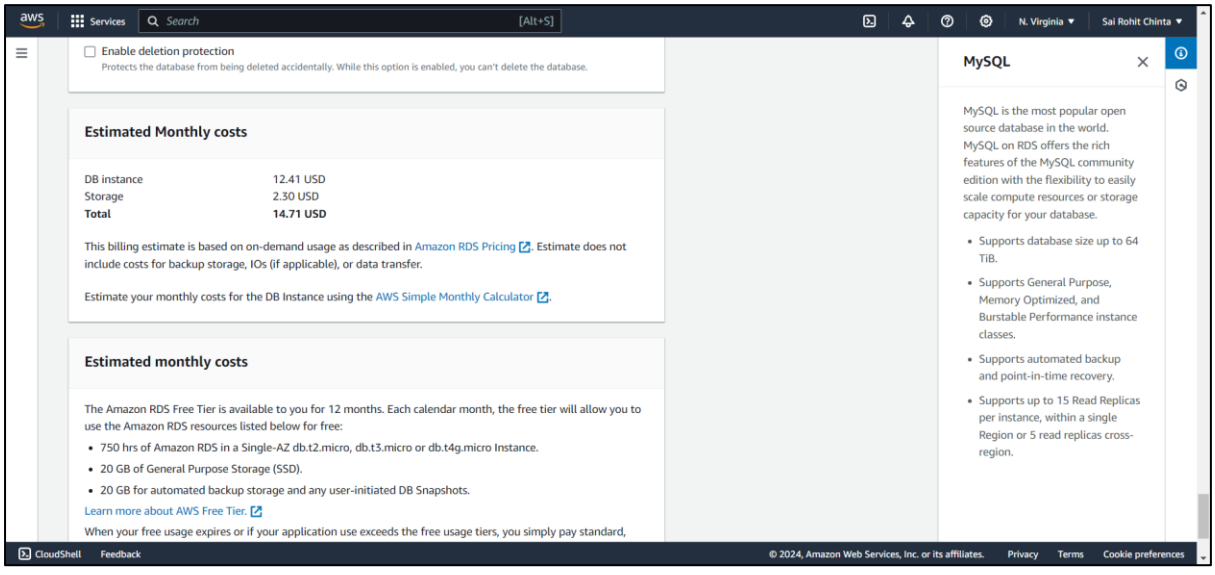
Enable deletion protection
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.
Estimated Monthly costs
DB instance 12.41 USD
Storage 2.30 USD
Total 14.71 USD
This billing estimate is based on on-demand usage as described in Amazon RDS Pricing. Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.
Estimate your monthly costs for the DB Instance using the AWS Simple Monthly Calculator.
Estimated monthly costs
The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:
750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
20 GB of General Purpose Storage (SSD).
20 GB for automated backup storage and any user-initiated DB Snapshots.
Learn more about AWS Free Tier.
When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard,
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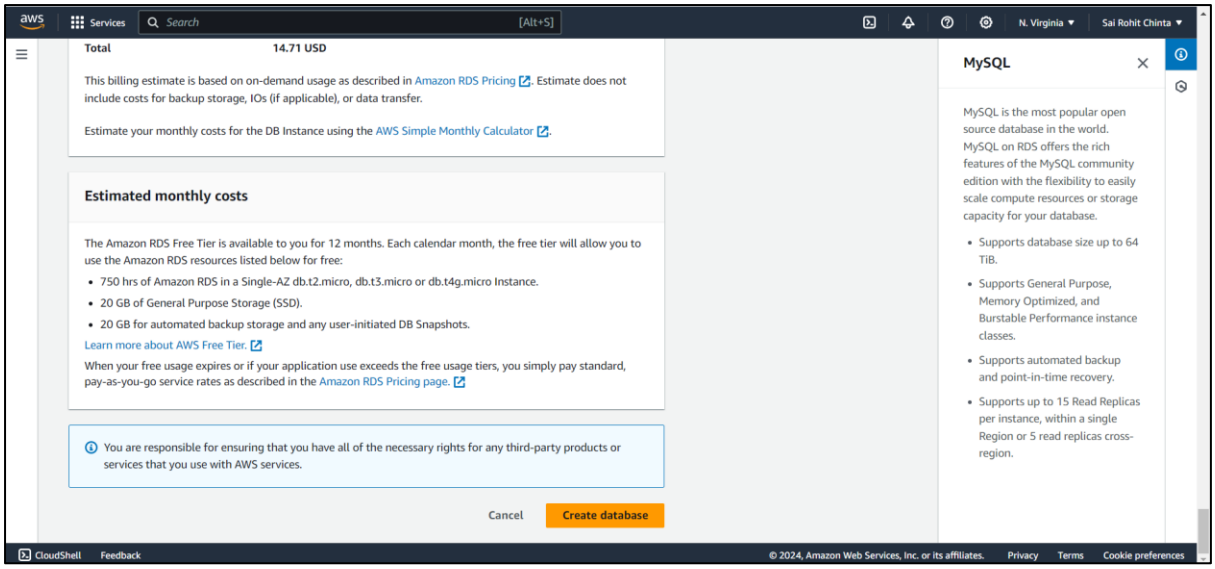
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Estimated monthly costs
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750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
20 GB of General Purpose Storage (SSD).
20 GB for automated backup storage and any user-initiated DB Snapshots.
Learn more about AWS Free Tier.
When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the Amazon RDS Pricing page.
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
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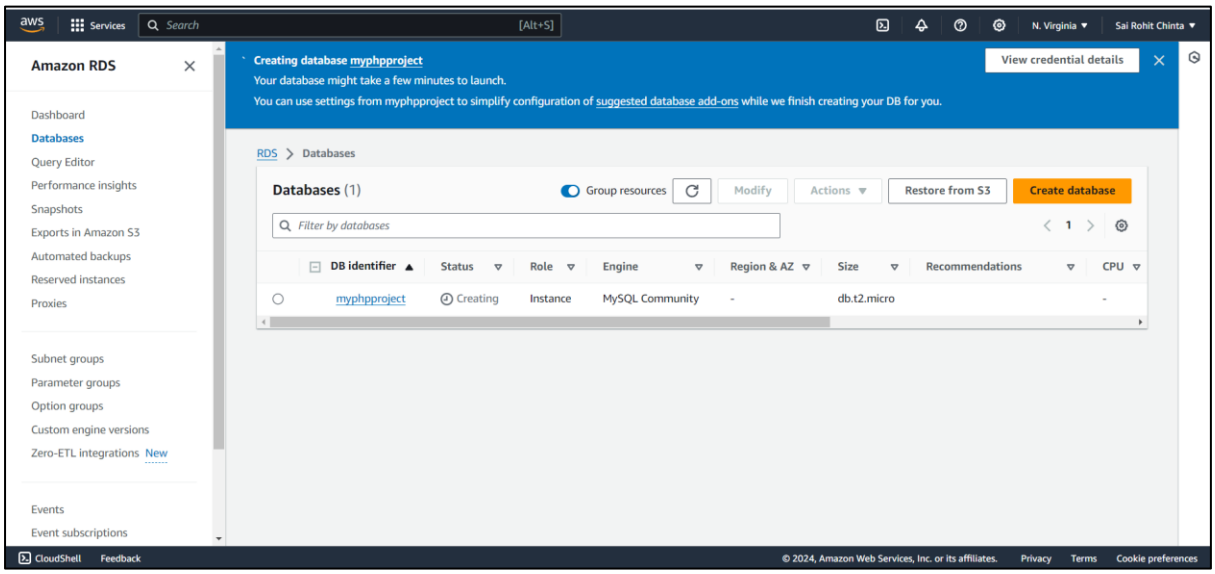
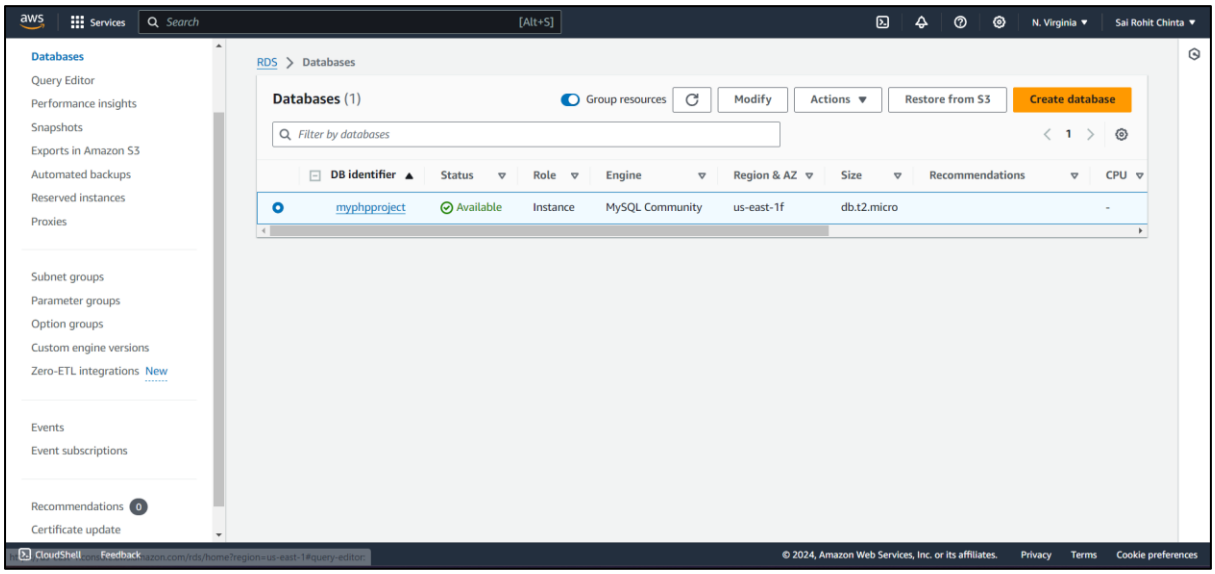
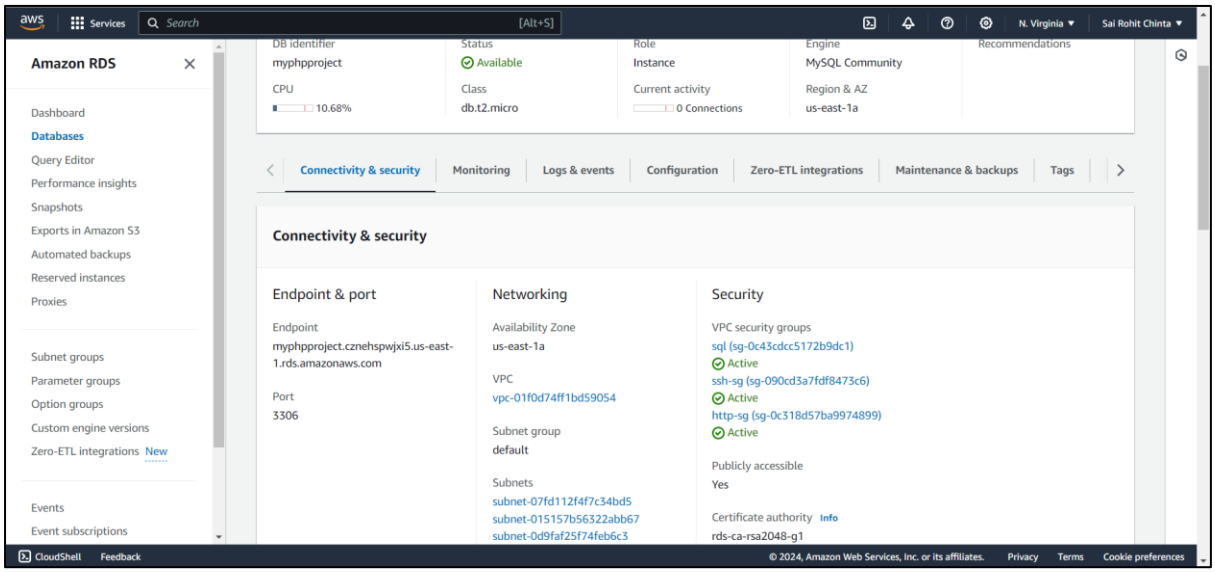
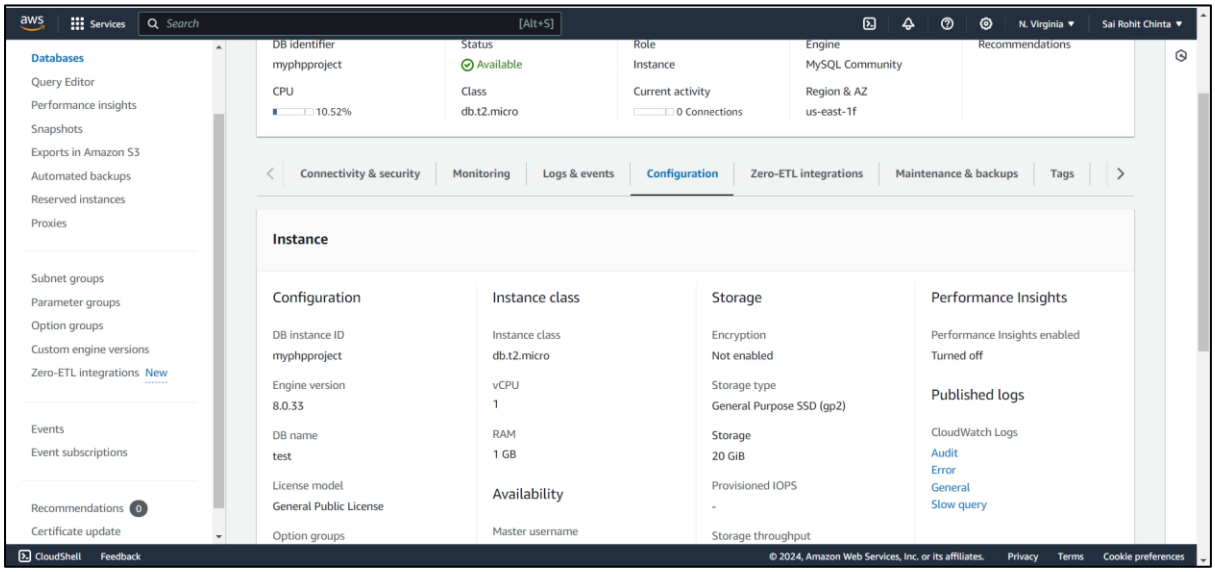

Amazon RDS
Creating database myphpproject
Your database might take a few minutes to launch.
You can use settings from myphpproject to simplify configuration of suggested database add-ons while we finish creating your DB for you.
View credential details
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
RDS > Databases
Databases (1)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
Recommendations
CPU
myphpproject
Creating
Instance
MySQL Community
-
db.t2.micro
-


Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Recommendations 0
Certificate update
RDS > Databases
Databases (1)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
Recommendations
CPU
myphpproject
Available
Instance
MySQL Community
us-east-1f
db.t2.micro
-

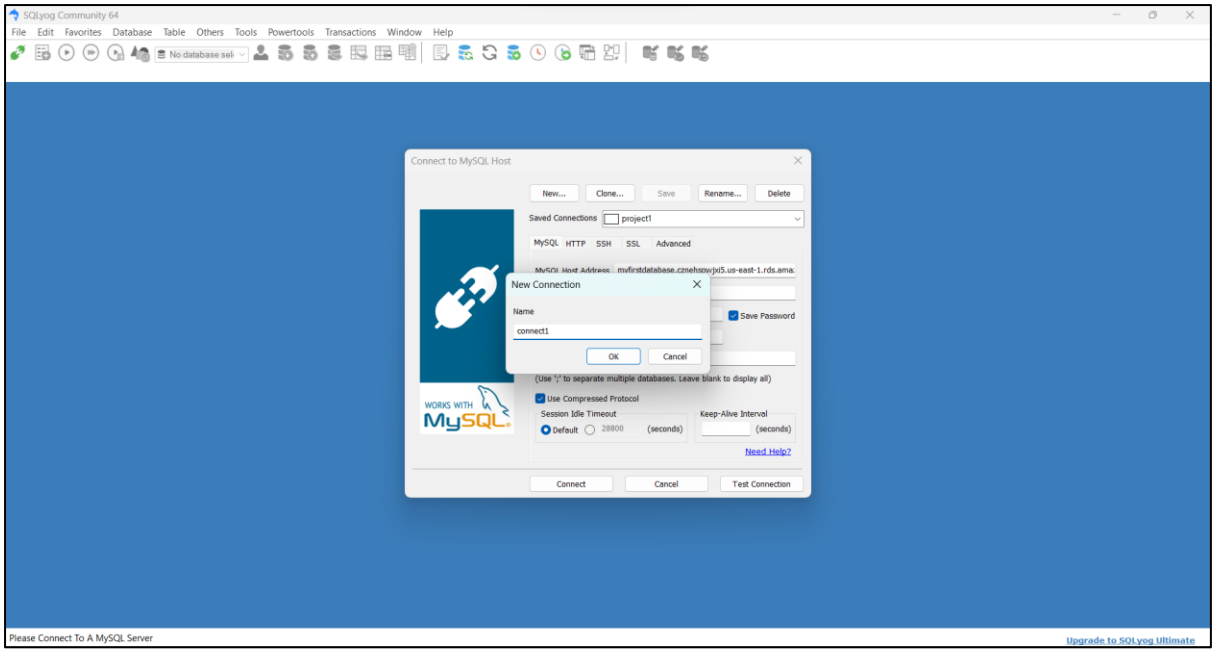
**Step-2:** Copy endpoint of the created rds db

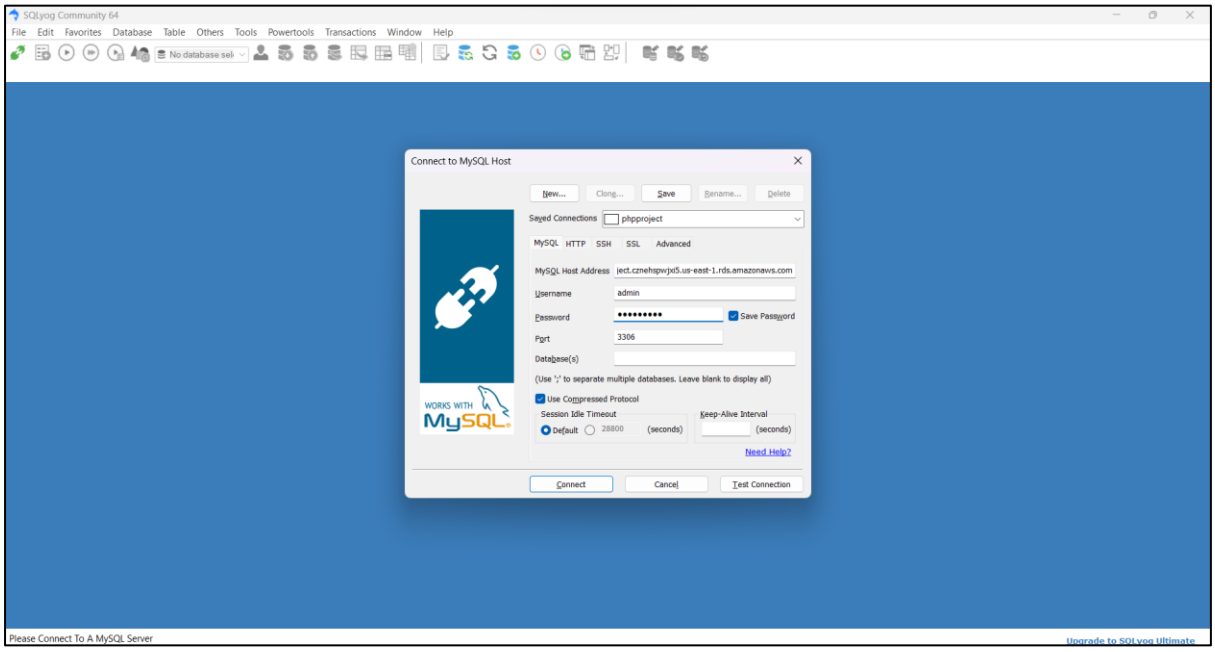


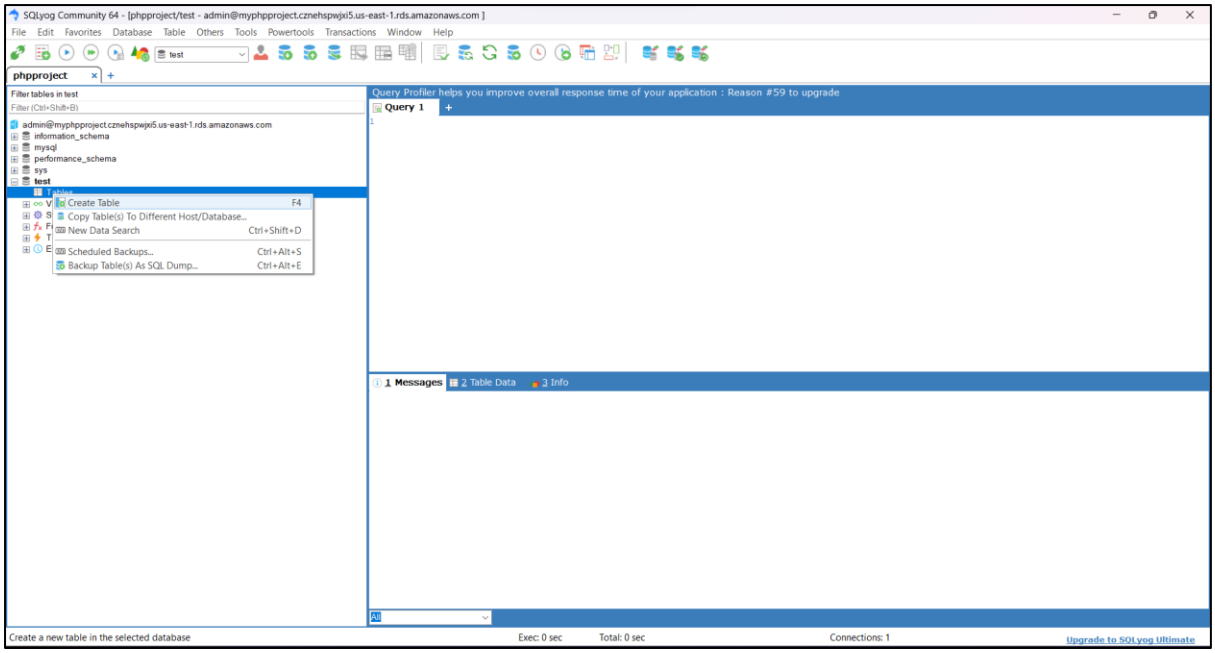



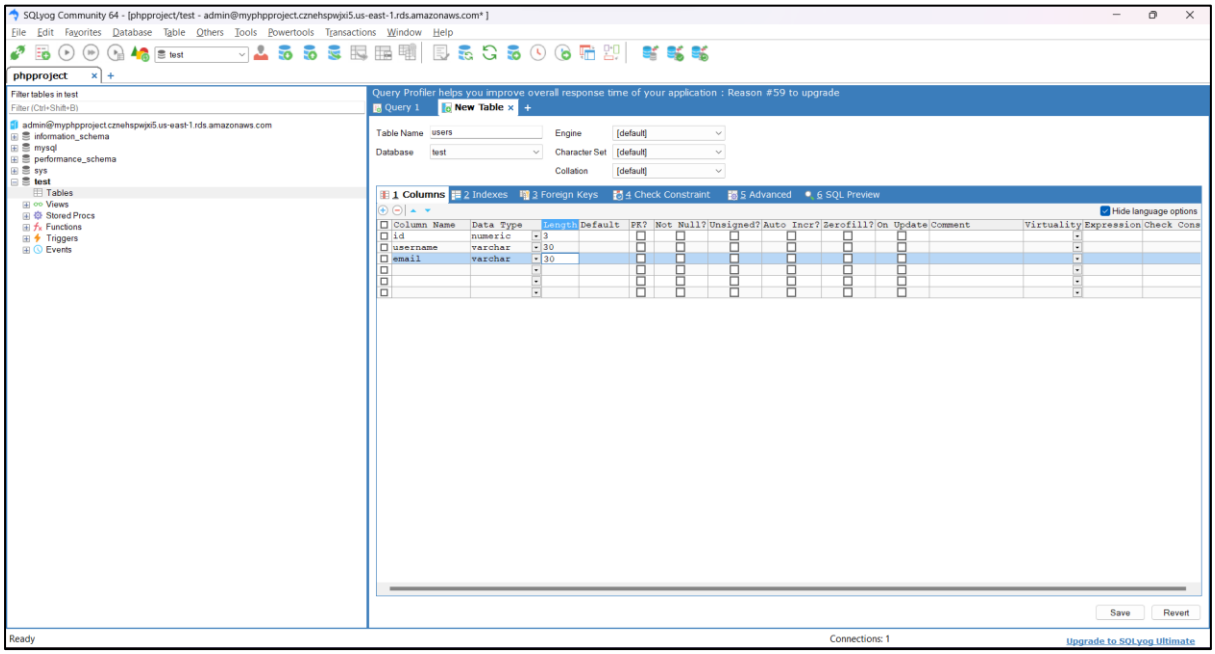

**Step-3:** Connect to mysql db with the required credentials

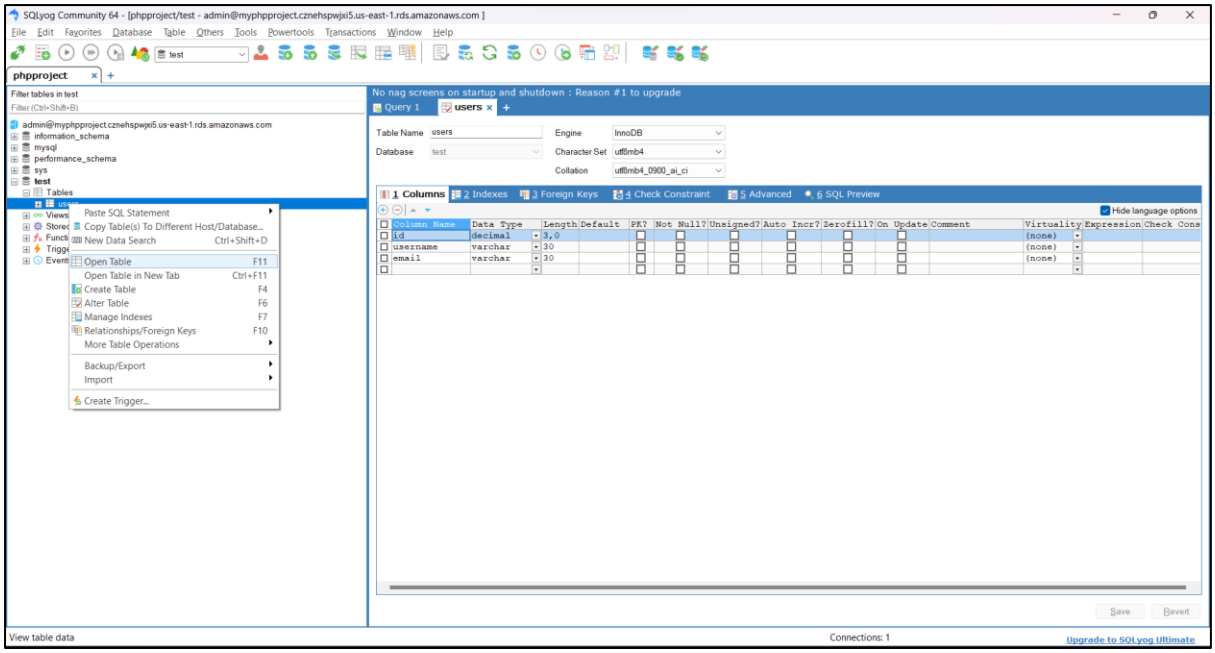
- Create a table users with id, username, email as columns
- Insert 3 records into the users table
- Check the mysql db also

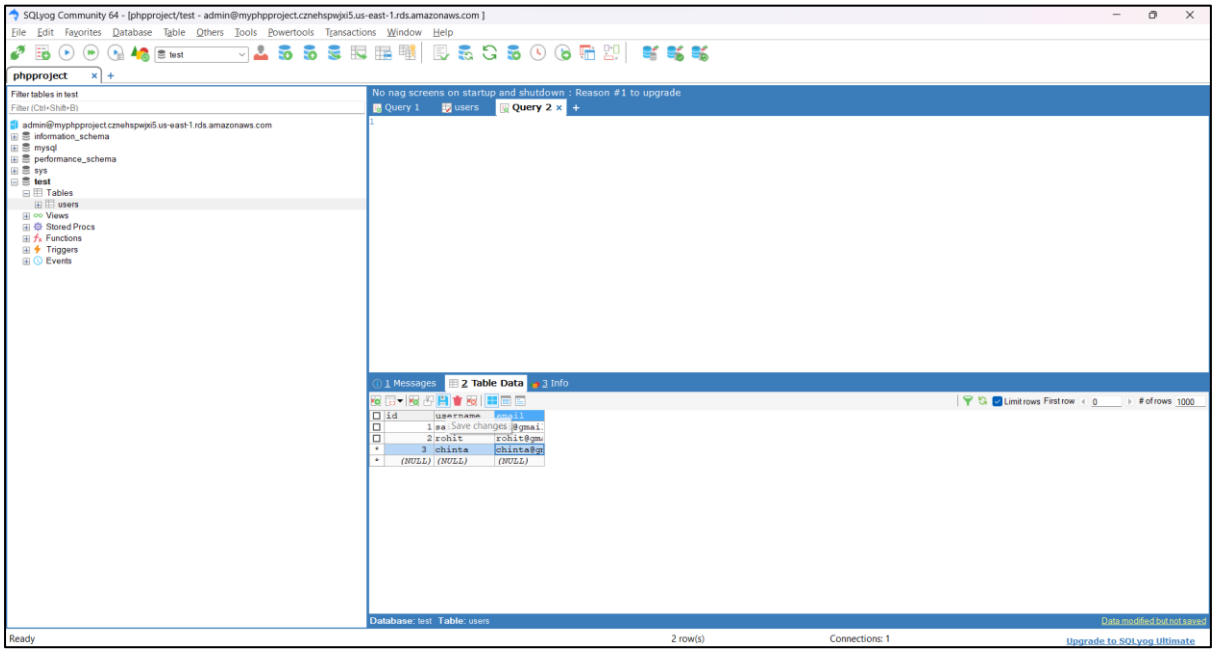

SQLyog Community 64
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
Connect to MySQL Host
New... Clone... Save Rename... Delete
Saved Connections project1
MySQL HTTP SSH SSL Advanced
New Connection
Name
connect1
OK Cancel
Save Password
(Use ';' to separate multiple databases. Leave blank to display all)
Use Compressed Protocol
Session Idle Timeout
Default 28800 (seconds)
Keep-Alive Interval
(seconds)
Need Help?
Connect Cancel Test Connection
WORKS WITH MySQL
Please Connect To A MySQL Server
Upgrade to SQLyog Ultimate

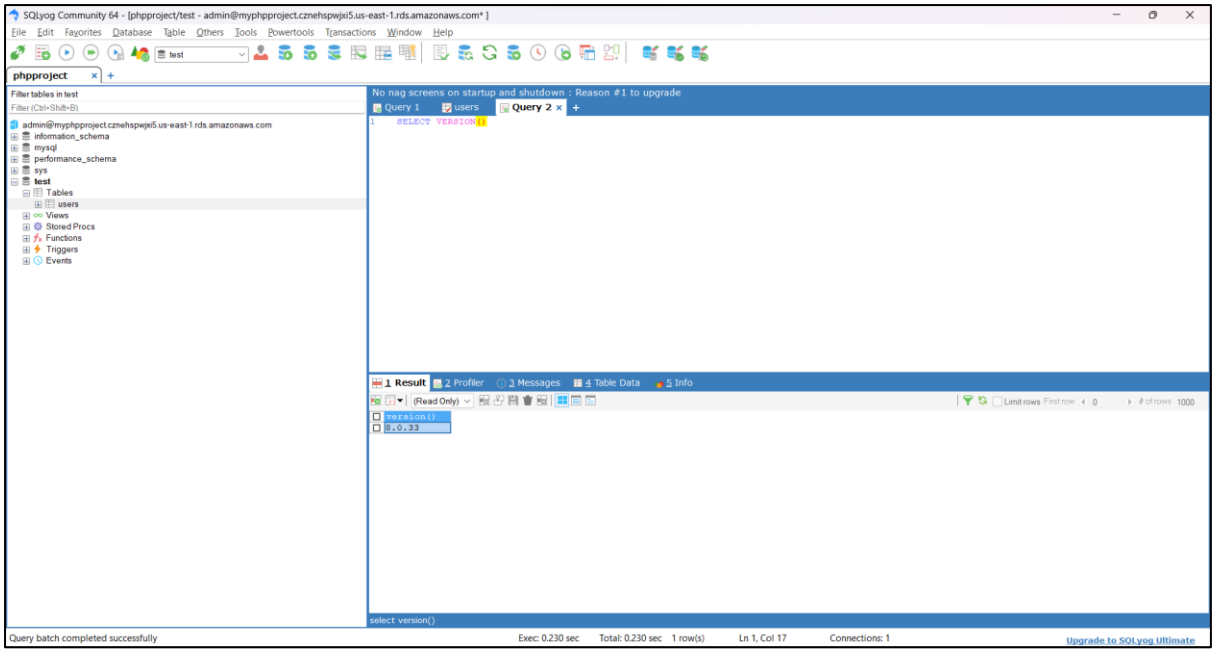

SQLyog Community 64
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
Connect to MySQL Host
New... Clone... Save Rename... Delete
Saved Connections phpproject
MySQL HTTP SSH SSL Advanced
MySQL Host Address iect.czneh spwjxi5.us-east-1.rds.amazonaws.com
Username admin
Password
Save Password
Port 3306
Database(s)
(Use ';' to separate multiple databases. Leave blank to display all)
Use Compressed Protocol
Session Idle Timeout
Default 28800 (seconds)
Keep-Alive Interval
(seconds)
Need Help?
Connect Cancel Test Connection
WORKS WITH MySQL
Please Connect To A MySQL Server
Upgrade to SQLyog Ultimate


SQLyog Community 64 - [phpproject/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
phpproject
Filter tables in test
Filter (Ctrl+Shift+B)
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
Create Table F4
Copy Table(s) To Different Host/Database...
New Data Search Ctrl+Shift+D
Scheduled Backups... Ctrl+Alt+S
Backup Table(s) As SQL Dump... Ctrl+Alt+E
Query Profiler helps you improve overall response time of your application : Reason #59 to upgrade
Query 1
1 Messages
2 Table Data
3 Info
All
Create a new table in the selected database
Exec: 0 sec
Total: 0 sec
Connections: 1
Upgrade to SQLyog Ultimate


SQLyog Community 64 - [phpproject/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com* ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
phpproject
Filter tables in test
Filter (Ctrl+Shift+B)
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
Views
Stored Procs
Functions
Triggers
Events
Query Profiler helps you improve overall response time of your application : Reason #59 to upgrade
Query 1
New Table
Table Name users
Database test
Engine [default]
Character Set [default]
Collation [default]
1 Columns
2 Indexes
3 Foreign Keys
4 Check Constraint
5 Advanced
6 SQL Preview
Hide language options
Column Name Data Type Length Default PK? Not Null? Unsigned? Auto Incr? Zerofill? On Update Comment Virtuality Expression Check Cons
id numeric 3
username varchar 30
email varchar 30
Save
Revert
Ready
Connections: 1
Upgrade to SQLyog Ultimate


SQLyog Community 64 - [phpproject/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
phpproject
Filter tables in test
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
Views
Stored Procs
Functions
Triggers
Events
Paste SQL Statement
Copy Table(s) To Different Host/Database...
New Data Search Ctrl+Shift+D
Open Table F11
Open Table in New Tab Ctrl+F11
Create Table F4
Alter Table F6
Manage Indexes F7
Relationships/Foreign Keys F10
More Table Operations
Backup/Export
Import
Create Trigger...
No nag screens on startup and shutdown : Reason #1 to upgrade
Query 1
users
Table Name users
Database test
Engine InnoDB
Character Set utf8mb4
Collation utf8mb4_0900_ai_ci
1 Columns
2 Indexes
3 Foreign Keys
4 Check Constraint
5 Advanced
6 SQL Preview
Hide language options
Column Name Data Type Length Default PK? Not Null? Unsigned? Auto Incr? Zerofill? On Update Comment Virtuality Expression Check Cons
id decimal 3,0 (none)
username varchar 30 (none)
email varchar 30 (none)
Save
Revert
View table data
Connections: 1
Upgrade to SQLyog Ultimate


SQLyog Community 64 - [phpproject/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
phpproject
Filter tables in test
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
users
Views
Stored Procs
Functions
Triggers
Events
No nag screens on startup and shutdown : Reason #1 to upgrade
Query 1
users
Query 2
1 Messages
2 Table Data
3 Info
Limit rows First row 0 # of rows 1000
id username email
1 aa Save changes @gmail.
2 rohit rohit@gm
3 chinta chinta@gm
(NULL) (NULL) (NULL)
Database: test Table: users
Data modified but not saved
Ready
2 row(s)
Connections: 1
Upgrade to SQLyog Ultimate




**Step-4:** update the php code with rds endpoint, dbname, username, password and zip it

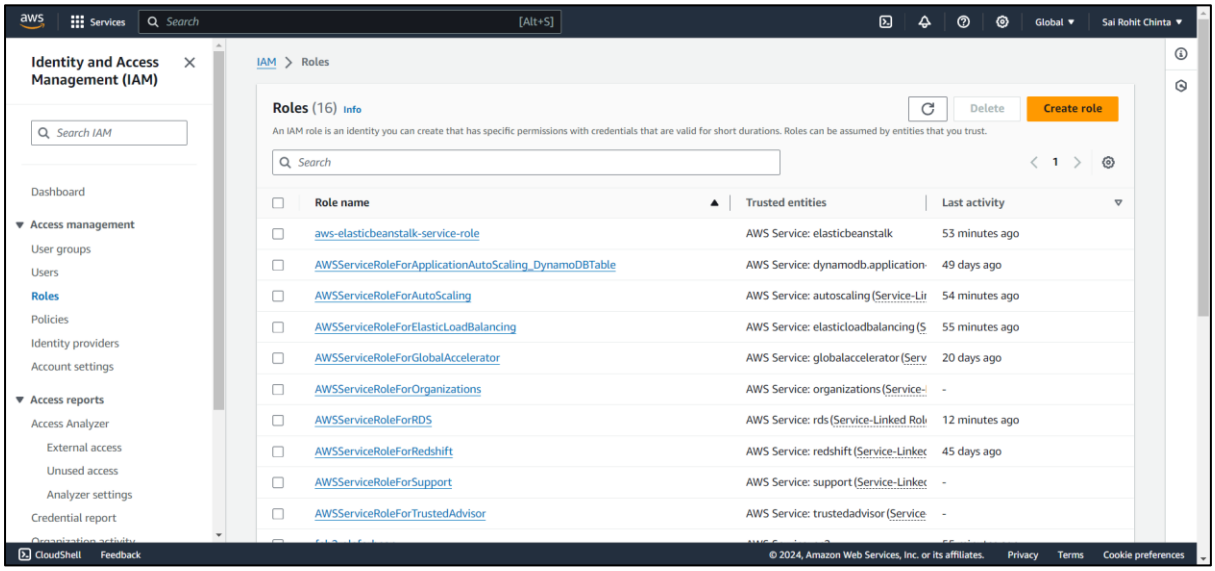
```
<?php
// Database configuration
$host = 'myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com';
$dbname = 'test';
$username = 'admin';
$password = 'admin1234';

try {
    // Establish a database connection
    $conn = new PDO("mysql:host=$host;dbname=$dbname", $username, $password);
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    // Sample query to fetch users
    $query = "SELECT * FROM users";
    $stmt = $conn->prepare($query);

    if ($stmt->execute()) {
        // Fetch all data into an array
```

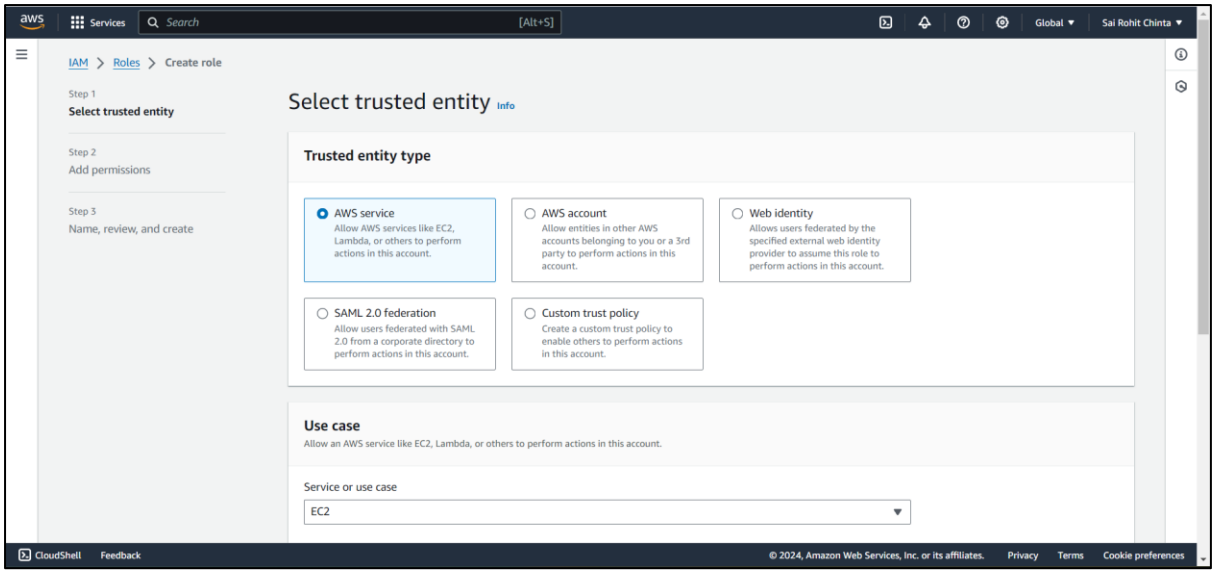
```
$users = $stmt->fetchAll(PDO::FETCH_ASSOC);

// Display fetched data in a styled table
echo "<style>
   table {
      width: 50%;
      border-collapse: collapse;
      margin: 20px;
   }
   th, td {
      padding: 10px;
      text-align: left;
      border: 1px solid #ddd;
   }
   th {
      background-color: #f2f2f2;
   }
</style>";

echo "<h2>Users:</h2>";
echo "<table>";
echo "<tr><th>ID</th><th>Username</th><th>Email</th></tr>";
foreach ($users as $user) {
   echo "<tr>";
   echo "<td>{$user['id']}</td>";
   echo "<td>{$user['username']}</td>";
   echo "<td>{$user['email']}</td>";
   echo "</tr>";
}
echo "</table>";
```

```
    } else {
        echo "Query execution failed.";
    }

    // Close the connection
    $conn = null;
} catch (PDOException $e) {
    // Handle database connection errors
    echo "Error: " . $e->getMessage();
}
?>
```

**Step-5:** Create an IAM role for the ec2 profile which has following policies

- AWSElasticBeanstalkWebTier
- AWSElasticBeanstalkWorkerTier
- AWSElasticBeanstalkMultiContainerDocker




aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Select trusted entity Info
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
EC2
CloudShell
Feedback
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Privacy
Terms
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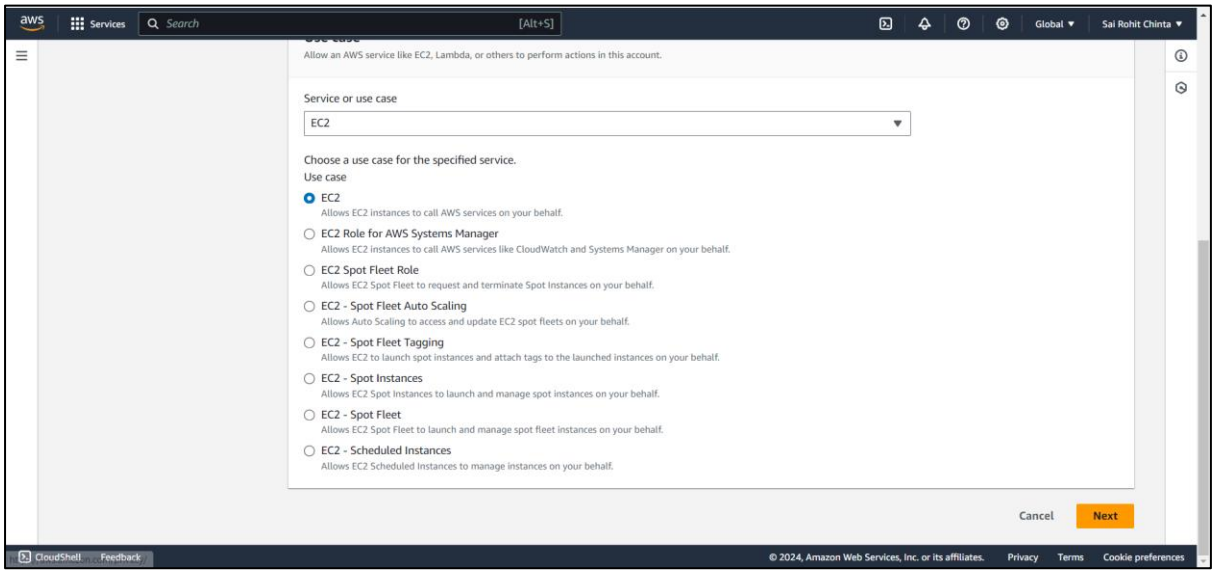
aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
EC2
Choose a use case for the specified service.
Use case
EC2
Allows EC2 instances to call AWS services on your behalf.
EC2 Role for AWS Systems Manager
Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.
EC2 Spot Fleet Role
Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.
EC2 - Spot Fleet Auto Scaling
Allows Auto Scaling to access and update EC2 spot fleets on your behalf.
EC2 - Spot Fleet Tagging
Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.
EC2 - Spot Instances
Allows EC2 Spot Instances to launch and manage spot instances on your behalf.
EC2 - Spot Fleet
Allows EC2 Spot Fleet to launch and manage spot fleet instances on your behalf.
EC2 - Scheduled Instances
Allows EC2 Scheduled Instances to manage instances on your behalf.
Cancel
Next
CloudShell
Feedback
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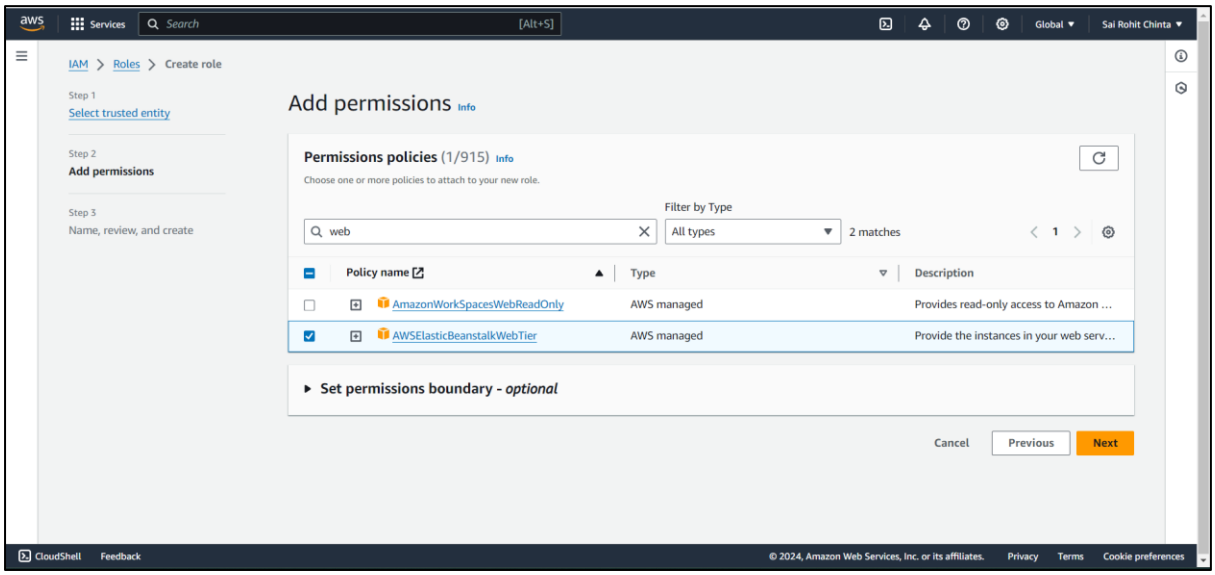
aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (1/915) Info
Choose one or more policies to attach to your new role.
Filter by Type
web
All types
2 matches
1
Policy name
Type
Description
AmazonWorkSpacesWebReadOnly
AWS managed
Provides read-only access to Amazon ...
AWSElasticBeanstalkWebTier
AWS managed
Provide the instances in your web serv...
Set permissions boundary - optional
Cancel
Previous
Next
CloudShell
Feedback
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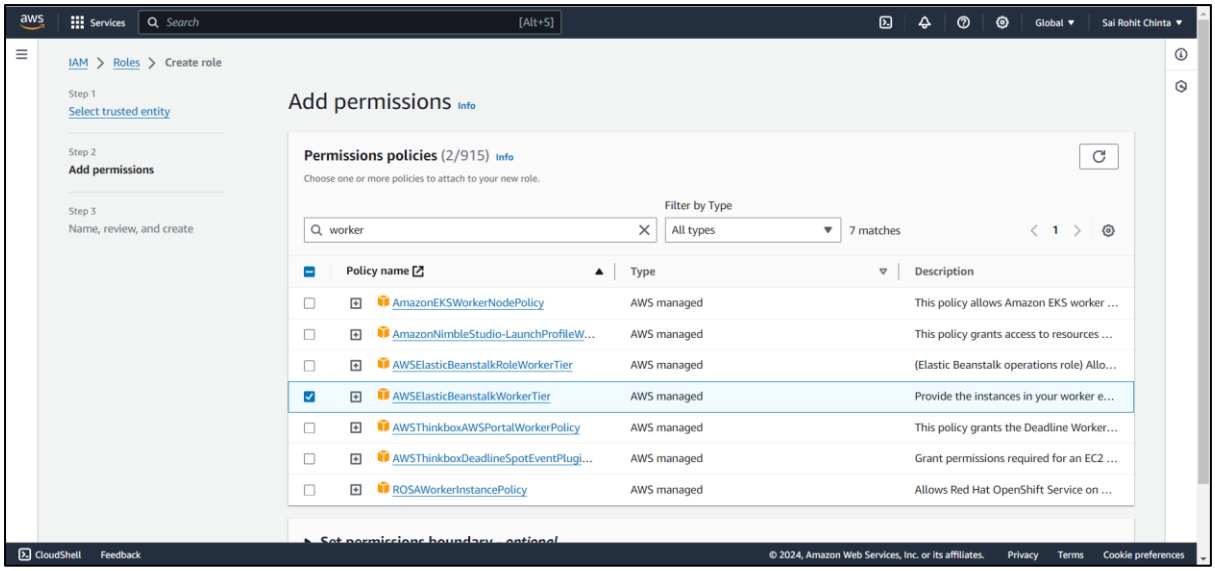
Cookie preferences


aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (2/915) Info
Choose one or more policies to attach to your new role.
Filter by Type
worker
All types
7 matches
1
Policy name
Type
Description
AmazonEKSWorkerNodePolicy
AWS managed
This policy allows Amazon EKS worker ...
AmazonNimbleStudio-LaunchProfileW...
AWS managed
This policy grants access to resources ...
AWSElasticBeanstalkRoleWorkerTier
AWS managed
(Elastic Beanstalk operations role) Allo...
AWSElasticBeanstalkWorkerTier
AWS managed
Provide the instances in your worker e...
AWSThinkboxAWSPortalWorkerPolicy
AWS managed
This policy grants the Deadline Worker...
AWSThinkboxDeadlineSpotEventPlugi...
AWS managed
Grant permissions required for an EC2 ...
ROSAWorkerInstancePolicy
AWS managed
Allows Red Hat OpenShift Service on ...
CloudShell
Feedback
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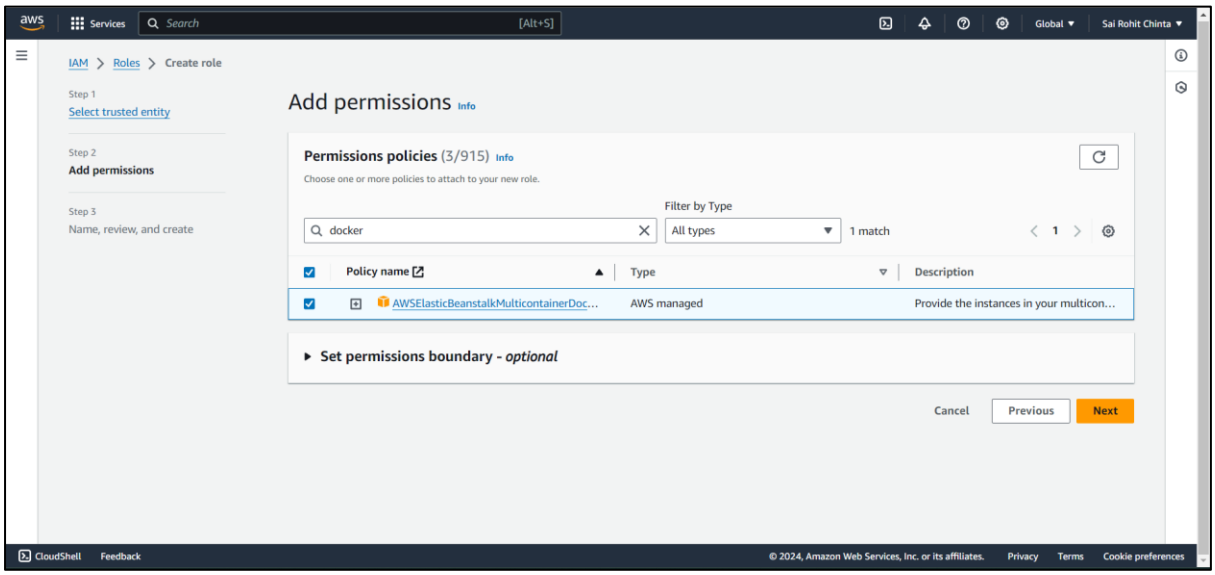
aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (3/915) Info
Choose one or more policies to attach to your new role.
Filter by Type
docker
All types
1 match
1
Policy name
Type
Description
AWSElasticBeanstalkMulticontainerDoc...
AWS managed
Provide the instances in your multicon...
Set permissions boundary - optional
Cancel
Previous
Next
CloudShell
Feedback
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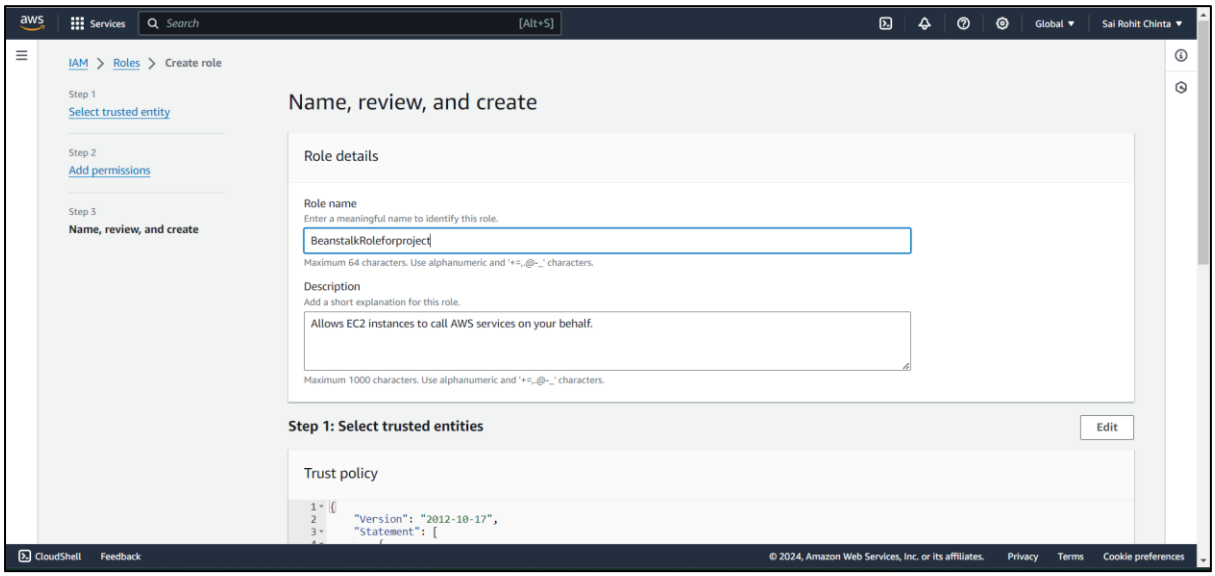
aws
Services
Search
[Alt+S]
Global
Sai Rohit Chinta
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Name, review, and create
Role details
Role name
Enter a meaningful name to identify this role.
BeanstalkRoleforproject
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows EC2 instances to call AWS services on your behalf.
Maximum 1000 characters. Use alphanumeric and '+=,.@-_' characters.
Step 1: Select trusted entities
Edit
Trust policy
{
"Version": "2012-10-17",
"Statement": [
CloudShell
Feedback
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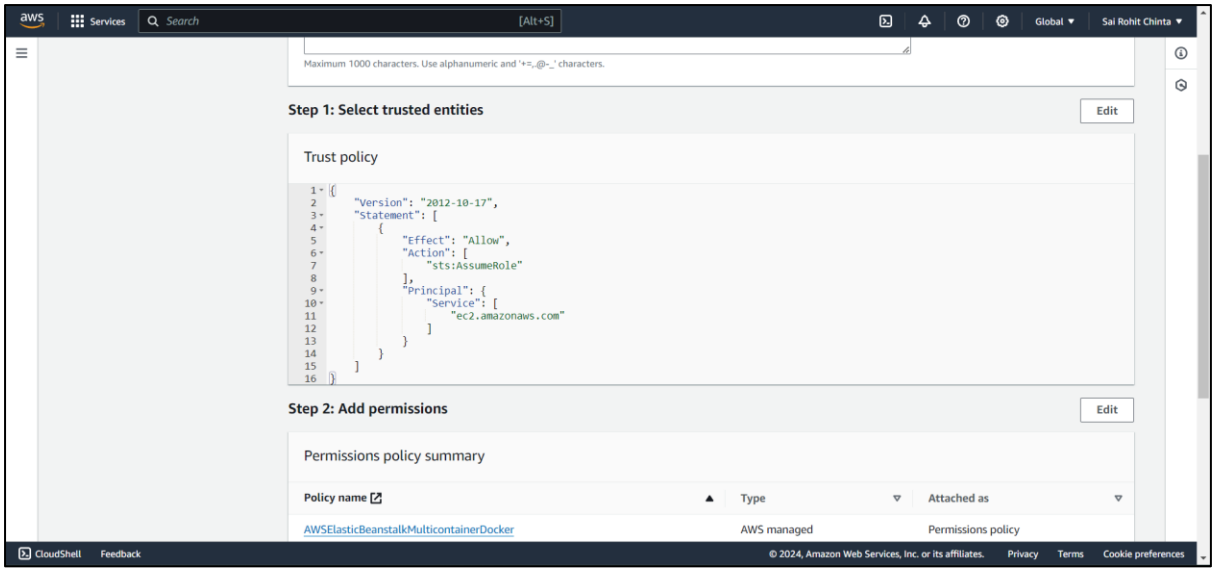
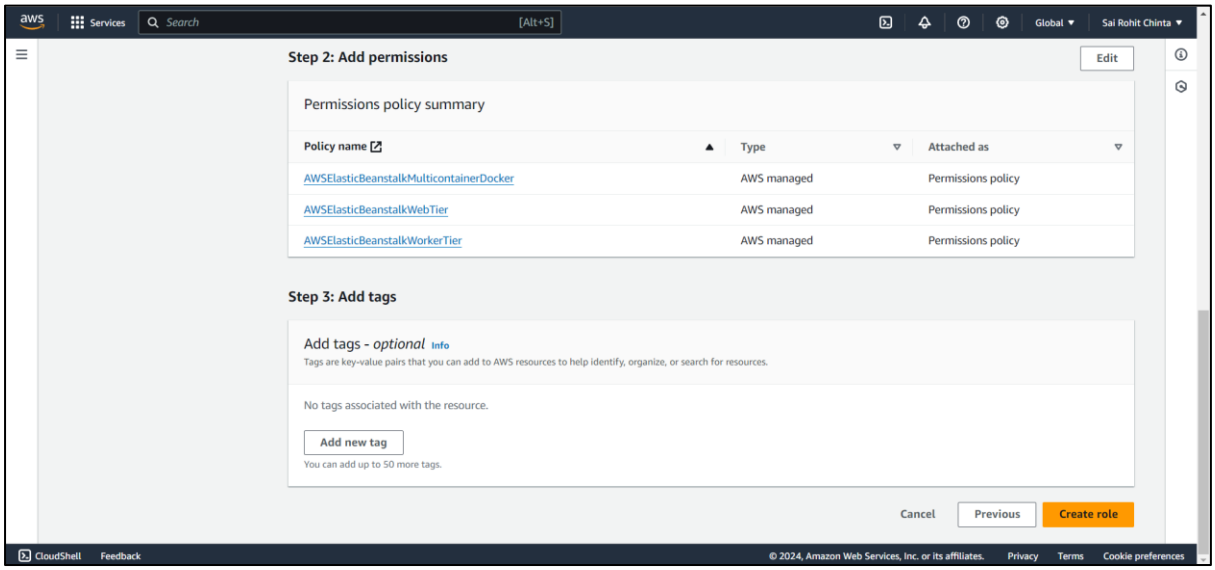
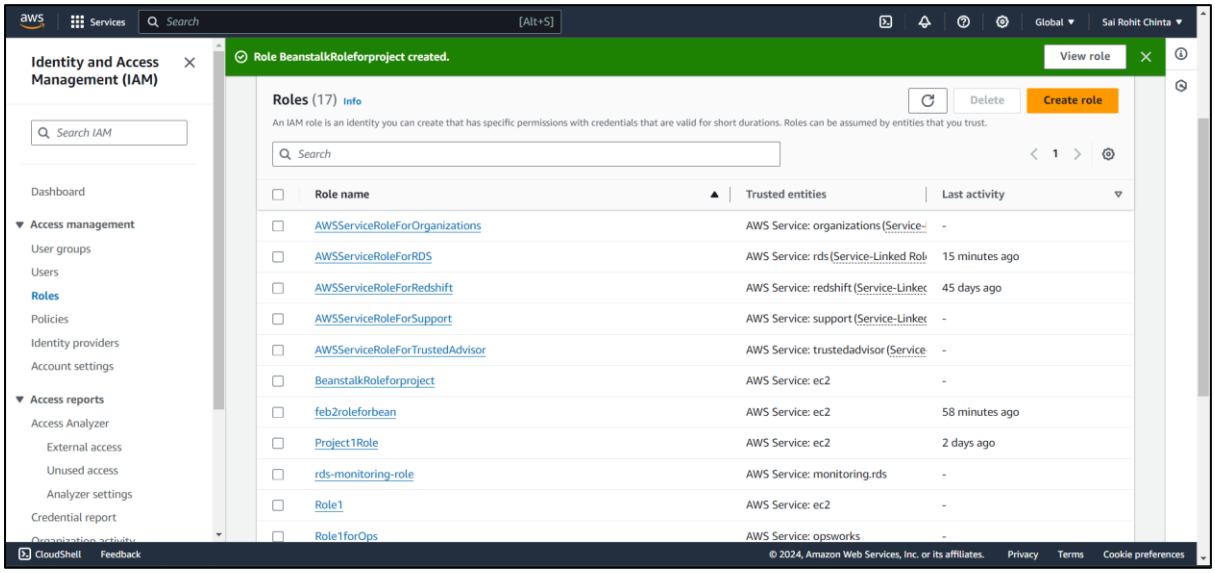
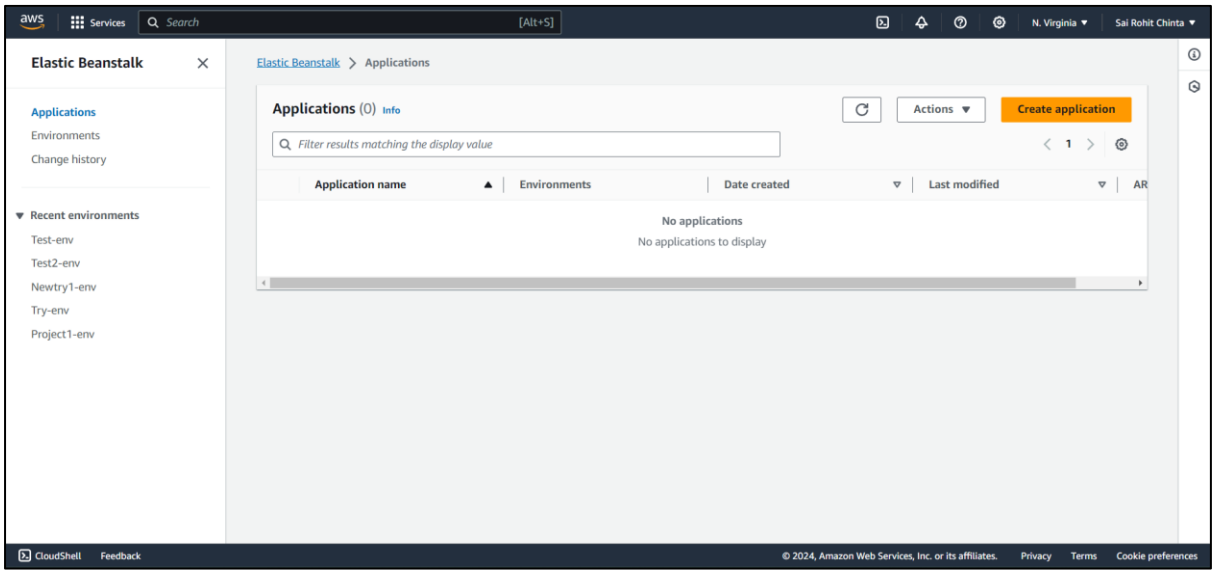
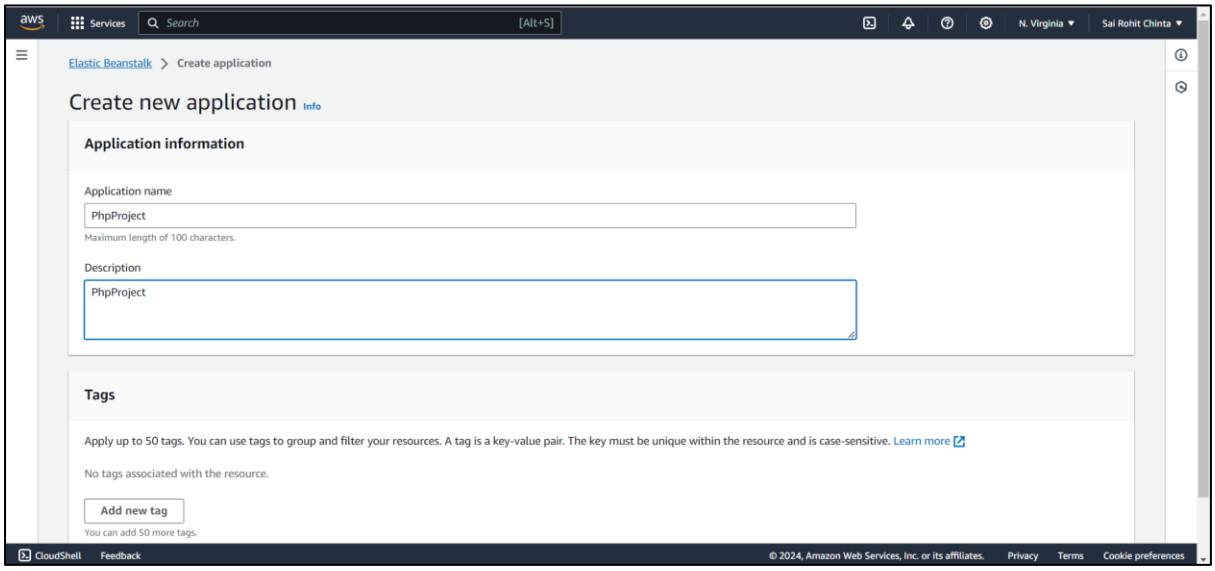

Maximum 1000 characters. Use alphanumeric and '+=,.@-_' characters.
Step 1: Select trusted entities
Edit
Trust policy
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
"sts:AssumeRole"
],
"Principal": {
"Service": [
"ec2.amazonaws.com"
]
}
}
]
}
Step 2: Add permissions
Edit
Permissions policy summary
Policy name
Type
Attached as
AWSElasticBeanstalkMulticontainerDocker
AWS managed
Permissions policy

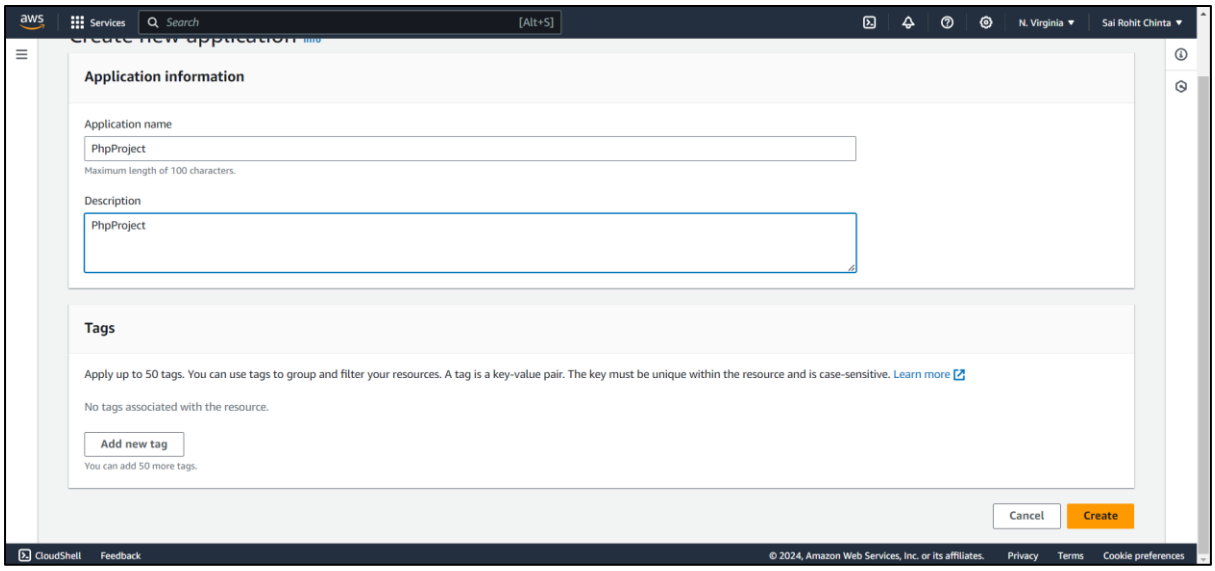

Step 2: Add permissions
Edit
Permissions policy summary
Policy name
Type
Attached as
AWSElasticBeanstalkMulticontainerDocker
AWS managed
Permissions policy
AWSElasticBeanstalkWebTier
AWS managed
Permissions policy
AWSElasticBeanstalkWorkerTier
AWS managed
Permissions policy
Step 3: Add tags
Add tags - optional Info
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
Cancel
Previous
Create role

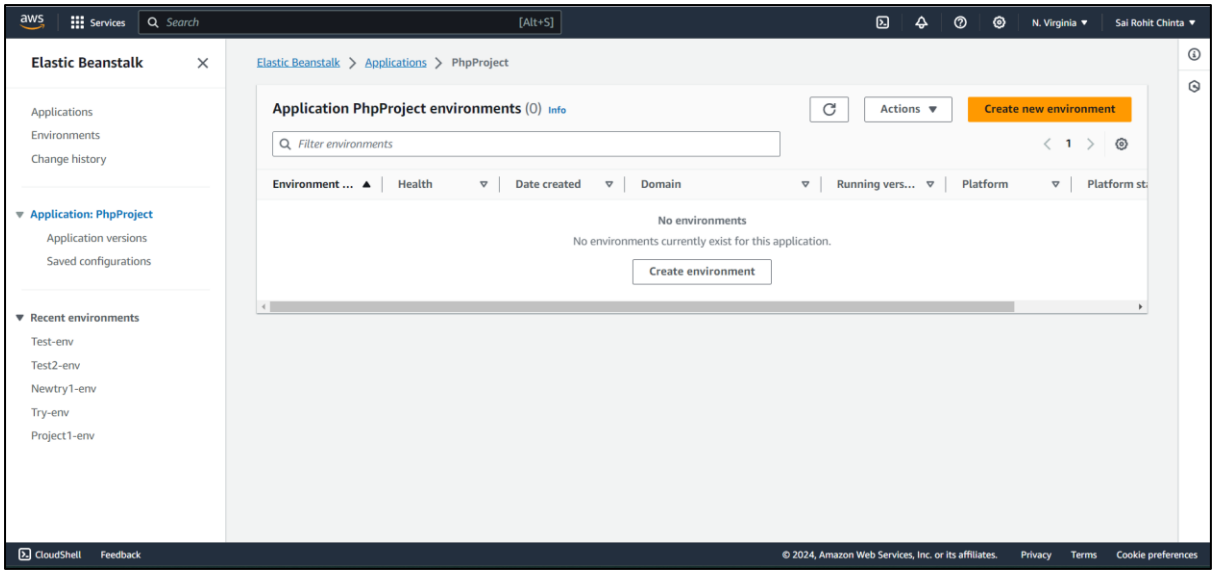

Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Role BeanstalkRoleforproject created.
View role
Roles (17) Info
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.
Delete
Create role
Search
Role name
Trusted entities
Last activity
AWSServiceRoleForOrganizations
AWS Service: organizations (Service-
-
AWSServiceRoleForRDS
AWS Service: rds (Service-Linked Rol
15 minutes ago
AWSServiceRoleForRedshift
AWS Service: redshift (Service-Linkec
45 days ago
AWSServiceRoleForSupport
AWS Service: support (Service-Linkec
-
AWSServiceRoleForTrustedAdvisor
AWS Service: trustedadvisor (Service
-
BeanstalkRoleforproject
AWS Service: ec2
-
feb2roleforbean
AWS Service: ec2
58 minutes ago
Project1Role
AWS Service: ec2
2 days ago
rds-monitoring-role
AWS Service: monitoring.rds
-
Role1
AWS Service: ec2
-
Role1forOps
AWS Service: opsworks
-

Step-6: Create an Elastic beanstalk with php environment and upload php zip file




aws
Services
Search
[Alt+S]
N. Virginia
Sai Rohit Chinta
Elastic Beanstalk
Applications
Environments
Change history
Application: PhpProject
Application versions
Saved configurations
Recent environments
Test-env
Test2-env
Newtry1-env
Try-env
Project1-env
Elastic Beanstalk > Applications > PhpProject
Application PhpProject environments (0) Info
Actions
Create new environment
Filter environments
Environment ...
Health
Date created
Domain
Running vers...
Platform
No environments
No environments currently exist for this application.
Create environment
CloudShell
Feedback
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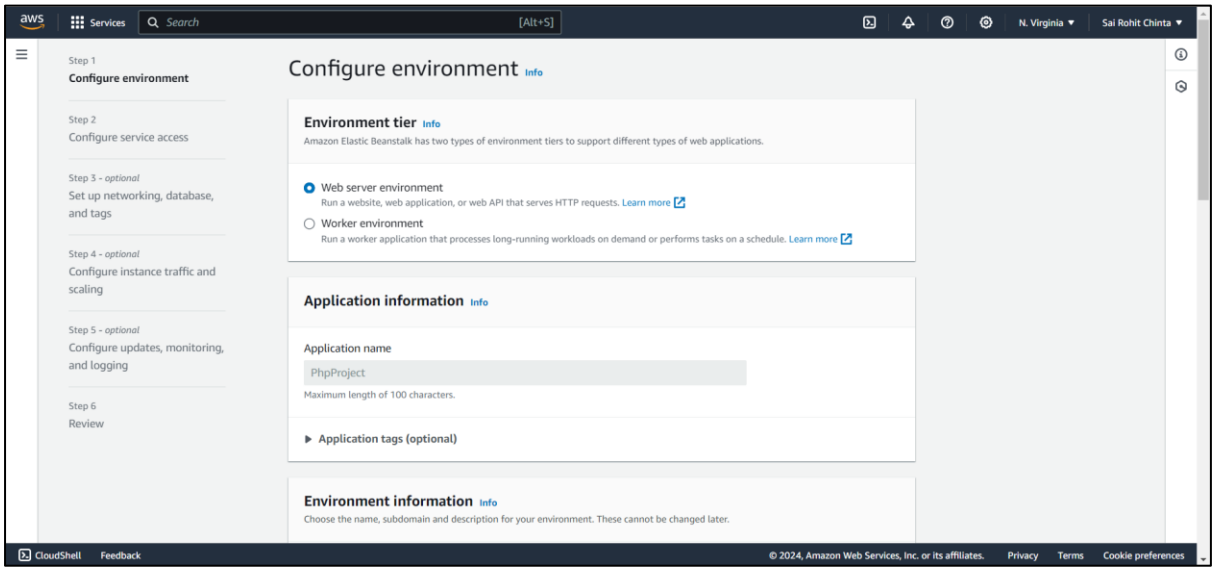
Privacy
Terms
Cookie preferences


aws
Services
Search
[Alt+S]
N. Virginia
Sai Rohit Chinta
Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Configure environment Info
Environment tier Info
Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.
Web server environment
Run a website, web application, or web API that serves HTTP requests. Learn more
Worker environment
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more
Application information Info
Application name
PhpProject
Maximum length of 100 characters.
Application tags (optional)
Environment information Info
Choose the name, subdomain and description for your environment. These cannot be changed later.
CloudShell
Feedback
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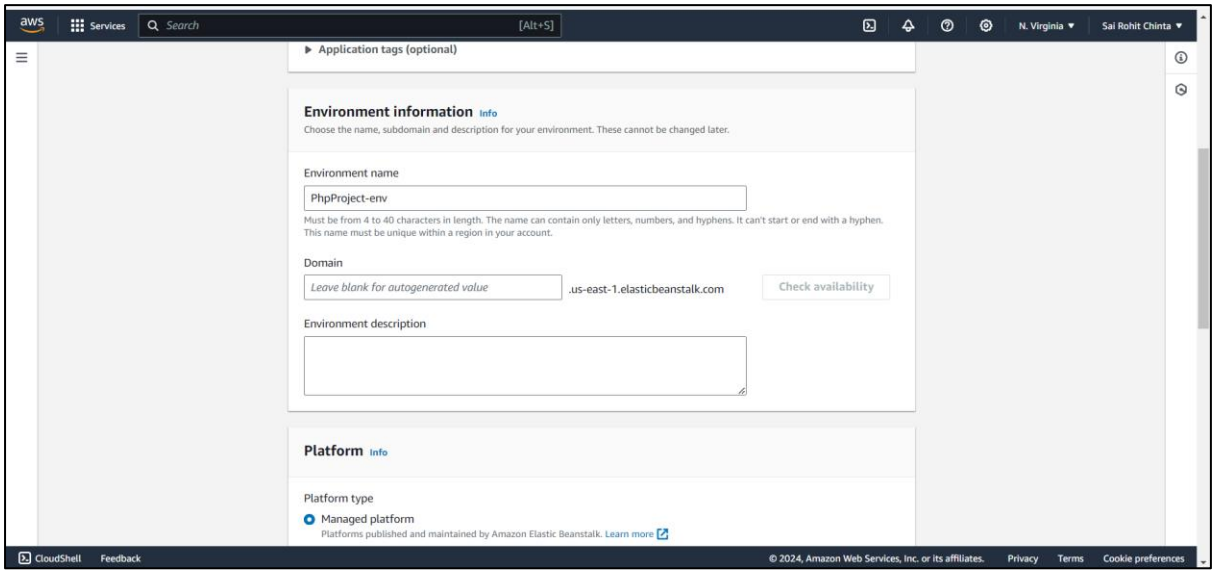
Terms
Cookie preferences


aws
Services
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N. Virginia
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Application tags (optional)
Environment information Info
Choose the name, subdomain and description for your environment. These cannot be changed later.
Environment name
PhpProject-env
Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.
Domain
Leave blank for autogenerated value
.us-east-1.elasticbeanstalk.com
Check availability
Environment description
Platform Info
Platform type
Managed platform
Platforms published and maintained by Amazon Elastic Beanstalk. Learn more
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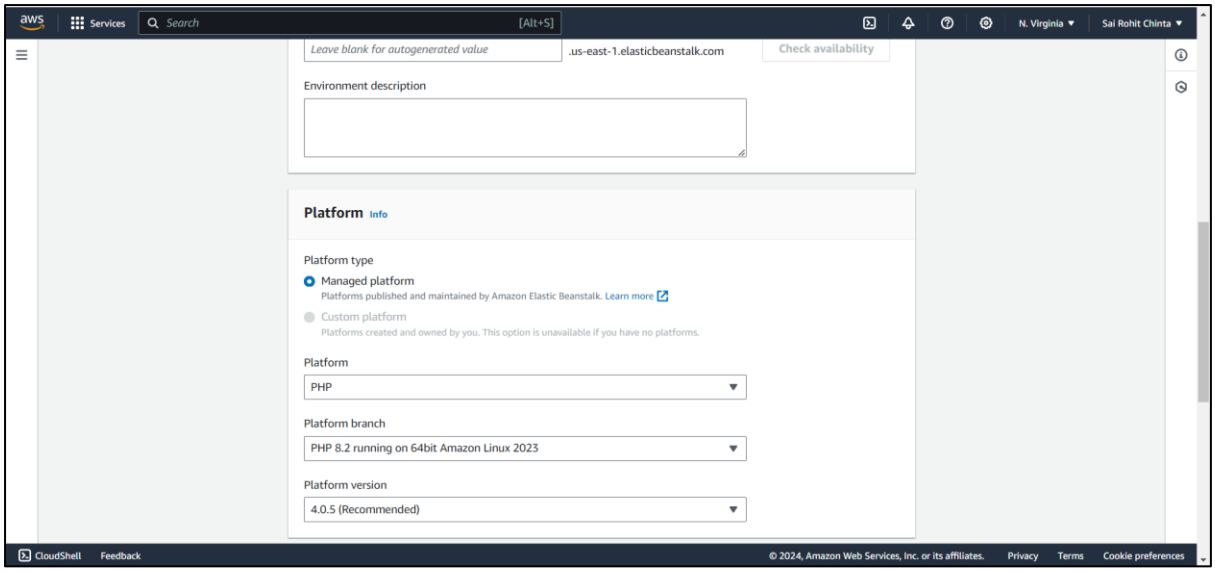
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Leave blank for autogenerated value
.us-east-1.elasticbeanstalk.com
Check availability
Environment description
Platform Info
Platform type
Managed platform
Platforms published and maintained by Amazon Elastic Beanstalk. Learn more
Custom platform
Platforms created and owned by you. This option is unavailable if you have no platforms.
Platform
PHP
Platform branch
PHP 8.2 running on 64bit Amazon Linux 2023
Platform version
4.0.5 (Recommended)
CloudShell
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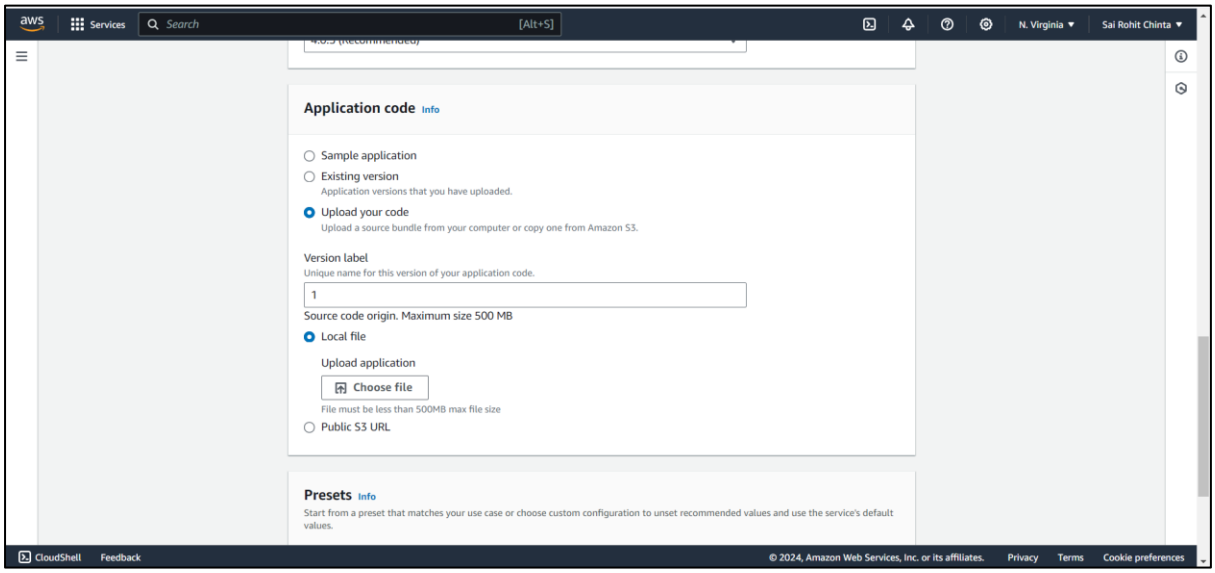
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Application code Info
Sample application
Existing version
Application versions that you have uploaded.
Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.
Version label
Unique name for this version of your application code.
1
Source code origin. Maximum size 500 MB
Local file
Upload application
Choose file
File must be less than 500MB max file size
Public S3 URL
Presets Info
Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.
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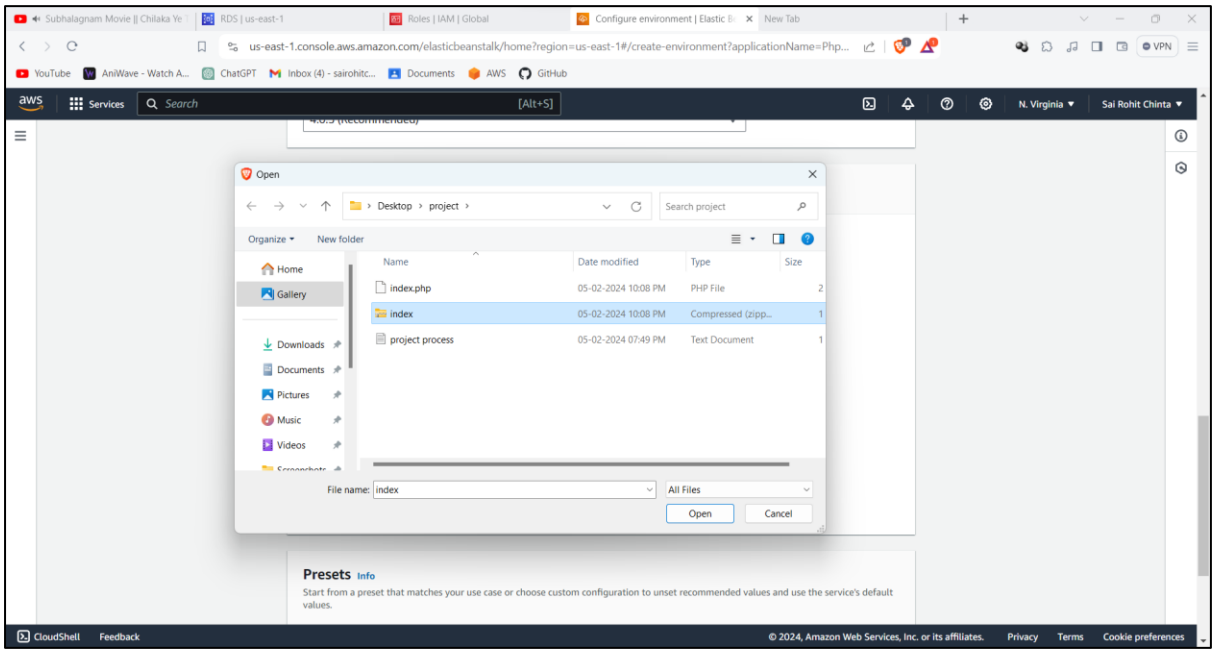
us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment?applicationName=Php...
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Open
Desktop › project ›
Search project
Organize
New folder
Home
Gallery
Downloads
Documents
Pictures
Music
Videos
Name
Date modified
Type
Size
index.php
05-02-2024 10:08 PM
PHP File
2
index
05-02-2024 10:08 PM
Compressed (zipp...
1
project process
05-02-2024 07:49 PM
Text Document
1
File name: index
All Files
Open
Cancel
Presets Info
Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.
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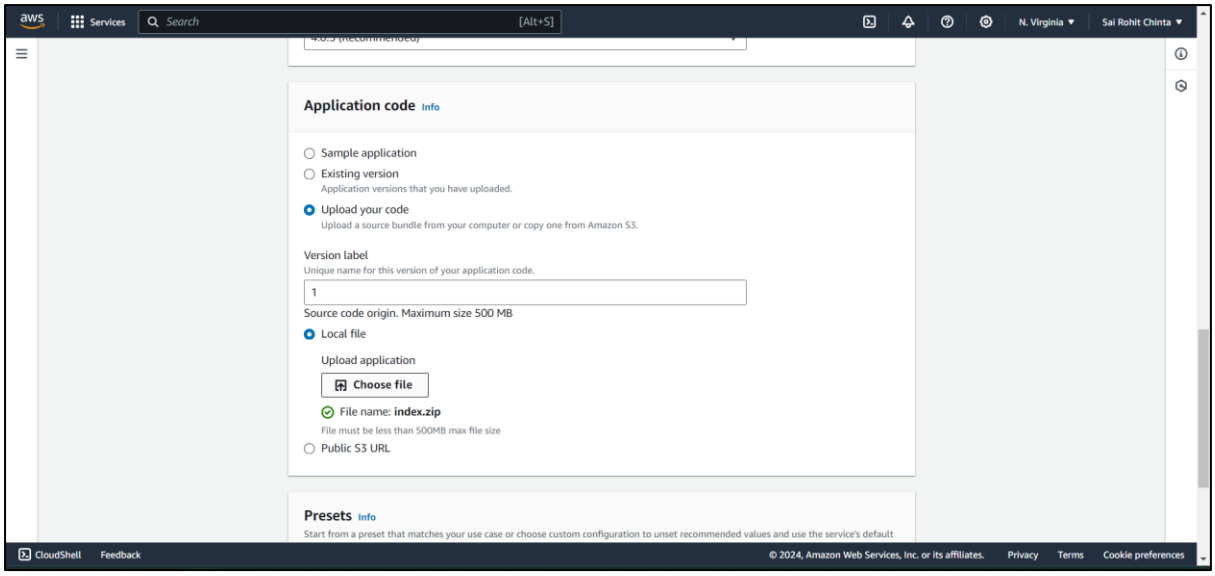
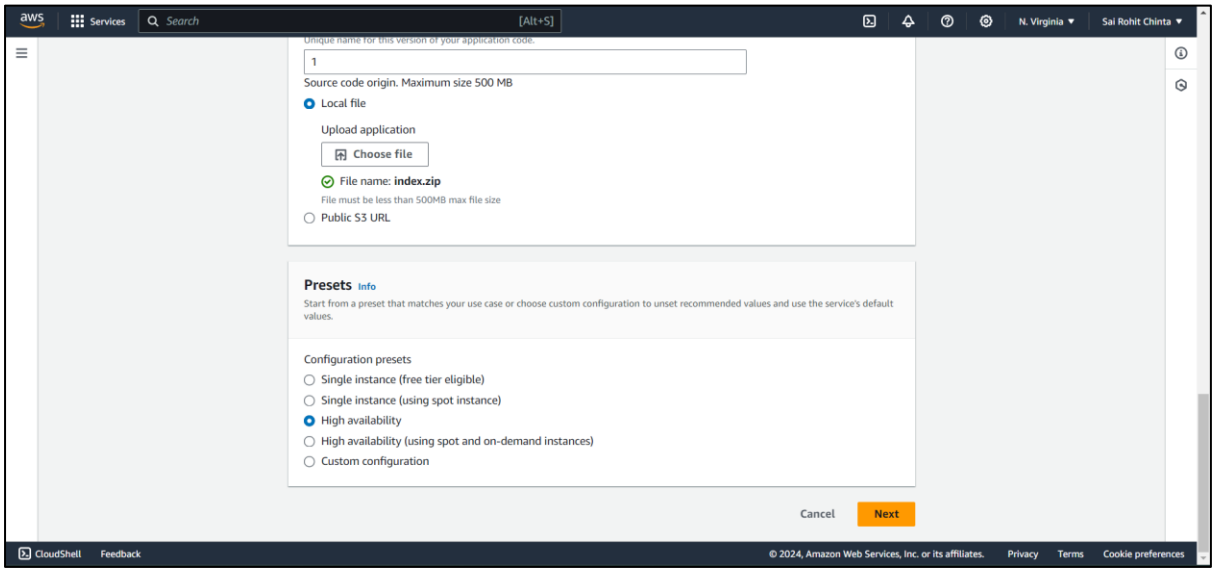
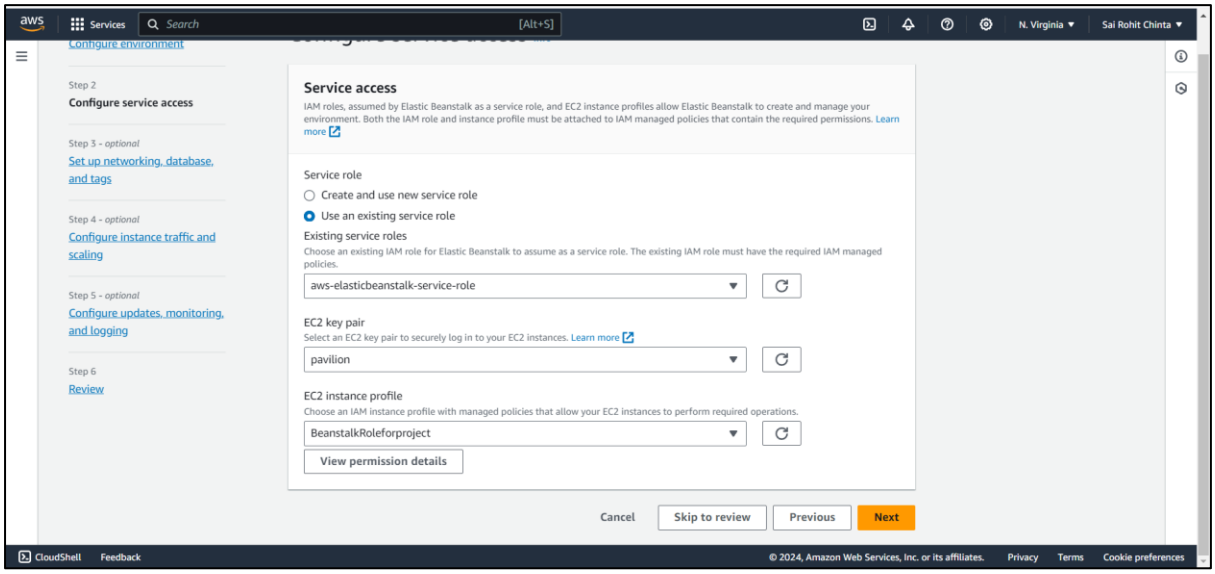
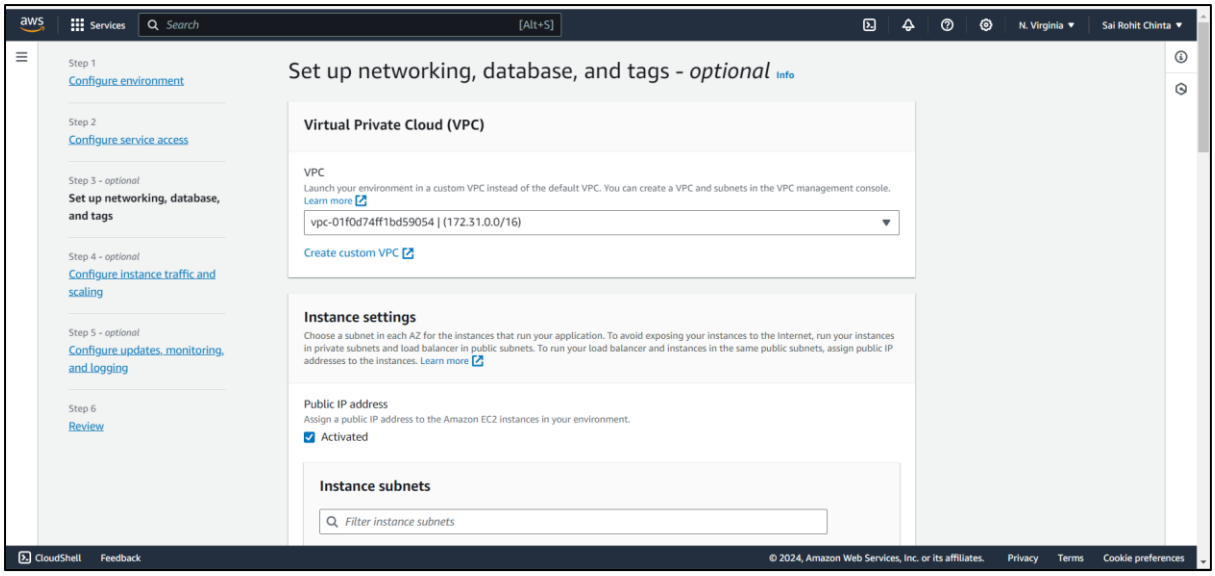

Application code Info
Sample application
Existing version
Application versions that you have uploaded.
Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.
Version label
Unique name for this version of your application code.
1
Source code origin. Maximum size 500 MB
Local file
Upload application
Choose file
File name: index.zip
File must be less than 500MB max file size
Public S3 URL
Presets Info
Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default


1
Source code origin. Maximum size 500 MB
Local file
Upload application
Choose file
File name: index.zip
File must be less than 500MB max file size
Public S3 URL
Presets Info
Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.
Configuration presets
Single instance (free tier eligible)
Single instance (using spot instance)
High availability
High availability (using spot and on-demand instances)
Custom configuration
Cancel
Next


Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Service access
IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. Learn more
Service role
Create and use new service role
Use an existing service role
Existing service roles
Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.
aws-elasticbeanstalk-service-role
EC2 key pair
Select an EC2 key pair to securely log in to your EC2 instances. Learn more
pavilion
EC2 instance profile
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.
BeanstalkRoleforproject
View permission details
Cancel
Skip to review
Previous
Next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Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Set up networking, database, and tags - optional Info
Virtual Private Cloud (VPC)
VPC
Launch your environment in a custom VPC instead of the default VPC. You can create a VPC and subnets in the VPC management console.
Learn more
vpc-01f0d74ff1bd59054 | (172.31.0.0/16)
Create custom VPC
Instance settings
Choose a subnet in each AZ for the instances that run your application. To avoid exposing your instances to the Internet, run your instances in private subnets and load balancer in public subnets. To run your load balancer and instances in the same public subnets, assign public IP addresses to the instances. Learn more
Public IP address
Assign a public IP address to the Amazon EC2 instances in your environment.
Activated
Instance subnets
Filter instance subnets
CloudShell
Feedback
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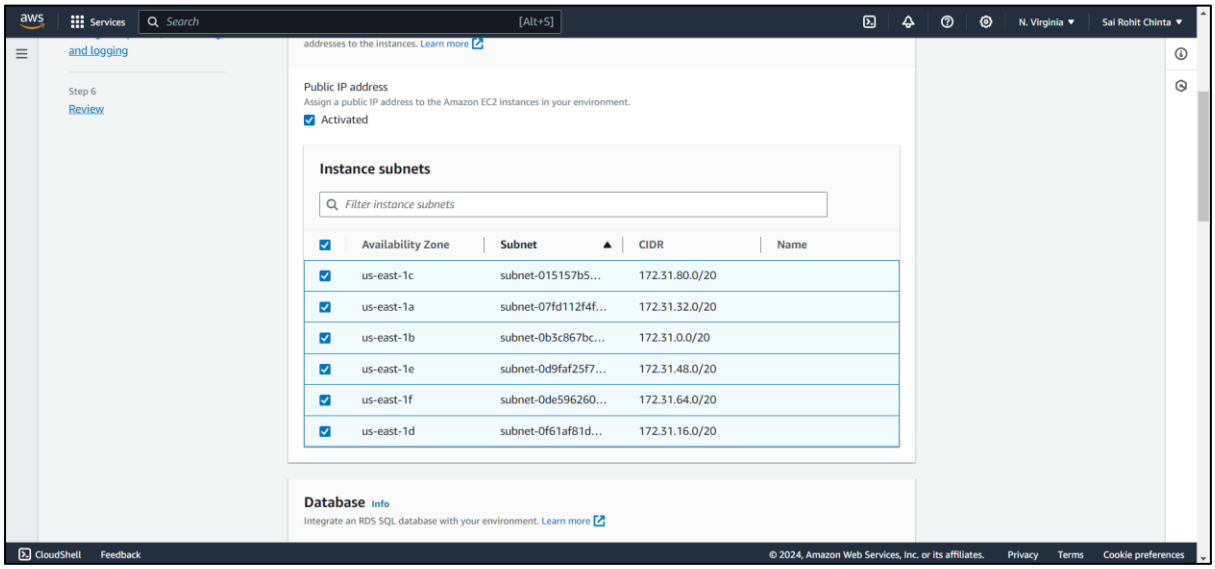
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Services
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and logging
Step 6
Review
addresses to the instances. Learn more
Public IP address
Assign a public IP address to the Amazon EC2 instances in your environment.
Activated
Instance subnets
Filter instance subnets
Availability Zone
Subnet
CIDR
Name
us-east-1c subnet-015157b5... 172.31.80.0/20
us-east-1a subnet-07fd112f4f... 172.31.32.0/20
us-east-1b subnet-0b3c867bc... 172.31.0.0/20
us-east-1e subnet-0d9faf25f7... 172.31.48.0/20
us-east-1f subnet-0de596260... 172.31.64.0/20
us-east-1d subnet-0f61af81d... 172.31.16.0/20
Database Info
Integrate an RDS SQL database with your environment. Learn more
CloudShell
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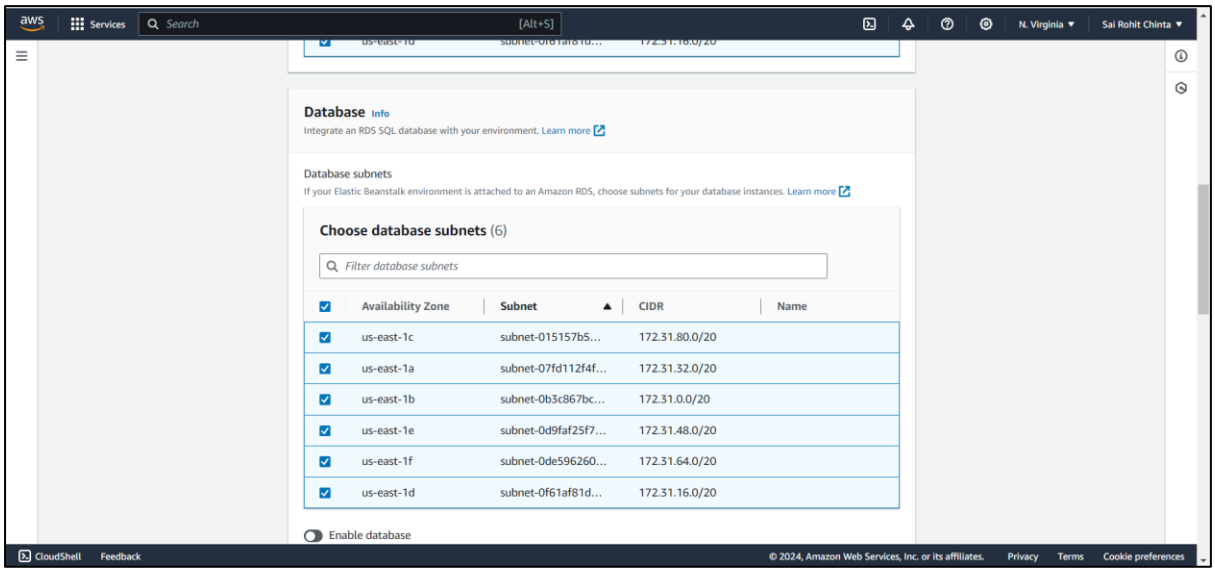
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Database Info
Integrate an RDS SQL database with your environment. Learn more
Database subnets
If your Elastic Beanstalk environment is attached to an Amazon RDS, choose subnets for your database instances. Learn more
Choose database subnets (6)
Filter database subnets
Availability Zone
Subnet
CIDR
Name
us-east-1c subnet-015157b5... 172.31.80.0/20
us-east-1a subnet-07fd112f4f... 172.31.32.0/20
us-east-1b subnet-0b3c867bc... 172.31.0.0/20
us-east-1e subnet-0d9faf25f7... 172.31.48.0/20
us-east-1f subnet-0de596260... 172.31.64.0/20
us-east-1d subnet-0f61af81d... 172.31.16.0/20
Enable database
CloudShell
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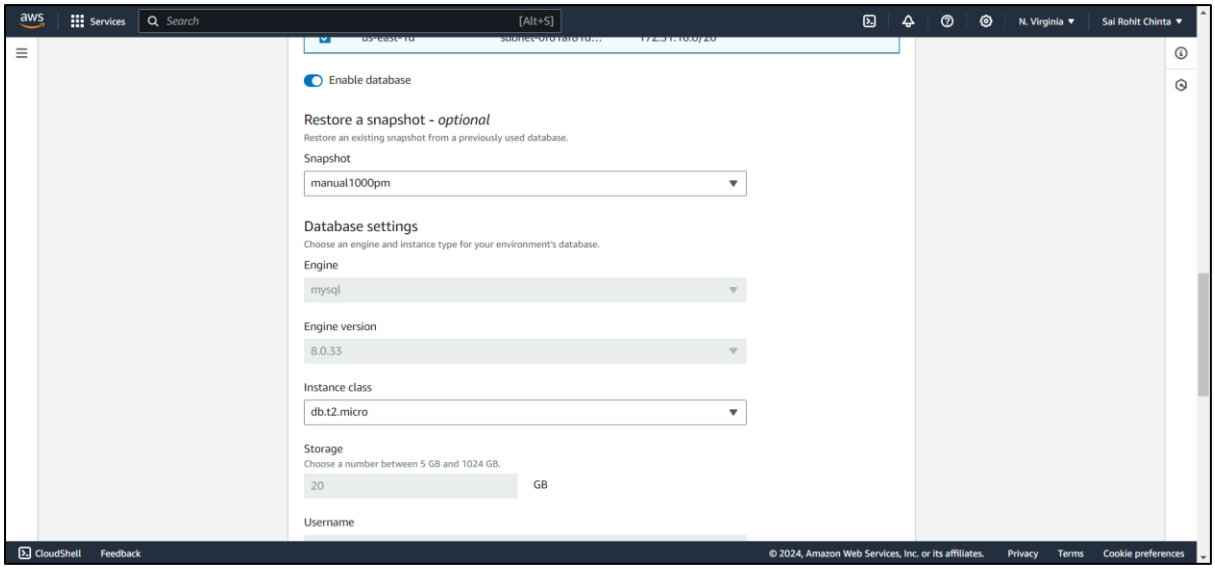
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Services
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Enable database
Restore a snapshot - optional
Restore an existing snapshot from a previously used database.
Snapshot
manual1000pm
Database settings
Choose an engine and instance type for your environment's database.
Engine
mysql
Engine version
8.0.33
Instance class
db.t2.micro
Storage
Choose a number between 5 GB and 1024 GB.
20
GB
Username
CloudShell
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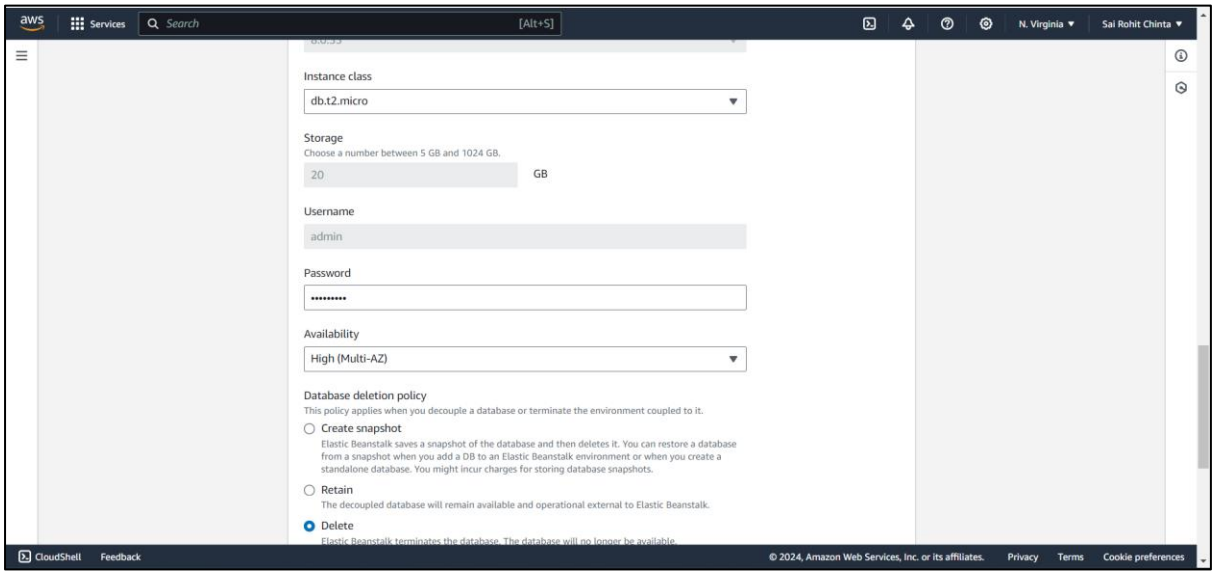
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Services
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Instance class
db.t2.micro
Storage
Choose a number between 5 GB and 1024 GB.
20
GB
Username
admin
Password
Availability
High (Multi-AZ)
Database deletion policy
This policy applies when you decouple a database or terminate the environment coupled to it.
Create snapshot
Elastic Beanstalk saves a snapshot of the database and then deletes it. You can restore a database from a snapshot when you add a DB to an Elastic Beanstalk environment or when you create a standalone database. You might incur charges for storing database snapshots.
Retain
The decoupled database will remain available and operational external to Elastic Beanstalk.
Delete
CloudShell
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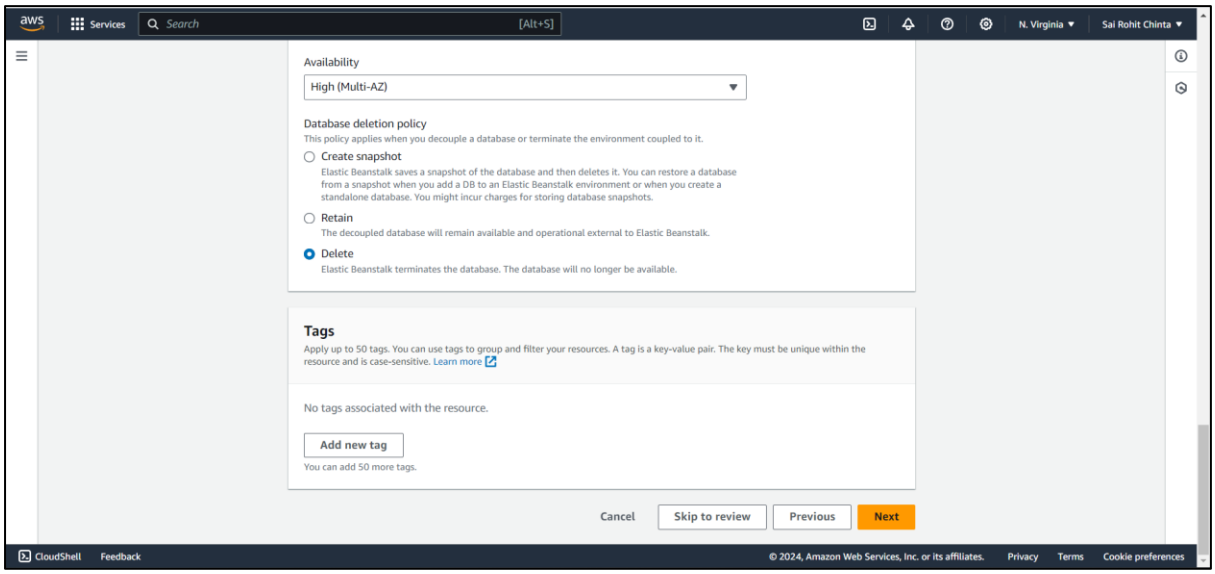
aws
Services
Search
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Availability
High (Multi-AZ)
Database deletion policy
This policy applies when you decouple a database or terminate the environment coupled to it.
Create snapshot
Elastic Beanstalk saves a snapshot of the database and then deletes it. You can restore a database from a snapshot when you add a DB to an Elastic Beanstalk environment or when you create a standalone database. You might incur charges for storing database snapshots.
Retain
The decoupled database will remain available and operational external to Elastic Beanstalk.
Delete
Elastic Beanstalk terminates the database. The database will no longer be available.
Tags
Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. Learn more
No tags associated with the resource.
Add new tag
You can add 50 more tags.
Cancel
Skip to review
Previous
Next
CloudShell
Feedback
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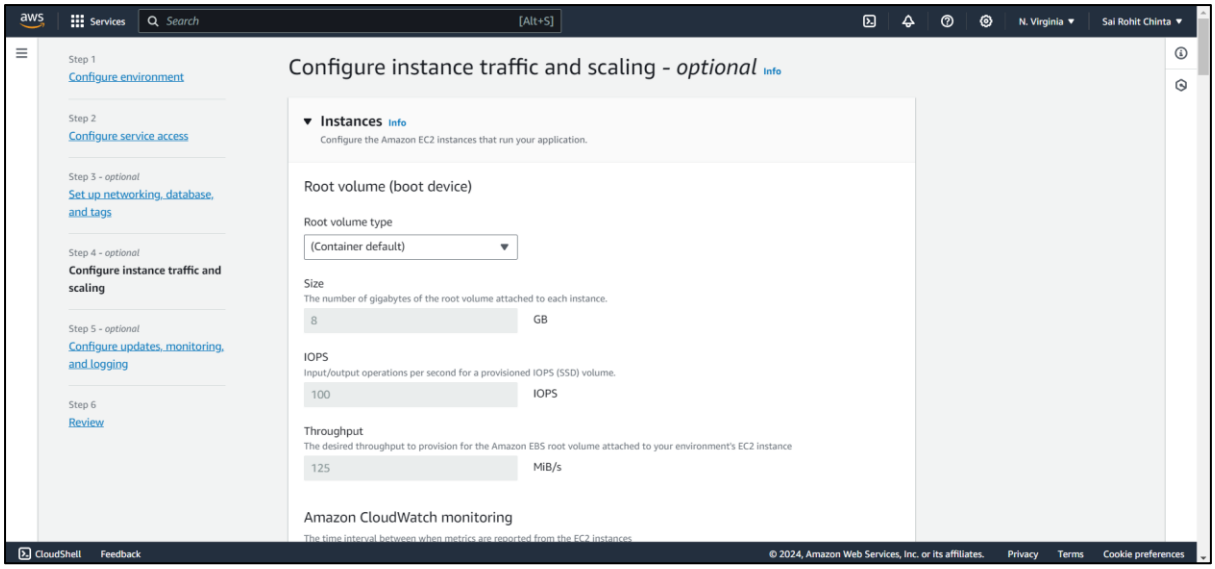
aws
Services
Search
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Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Configure instance traffic and scaling - optional Info
Instances Info
Configure the Amazon EC2 instances that run your application.
Root volume (boot device)
Root volume type
(Container default)
Size
The number of gigabytes of the root volume attached to each instance.
8
GB
IOPS
Input/output operations per second for a provisioned IOPS (SSD) volume.
100
IOPS
Throughput
The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance
125
MiB/s
Amazon CloudWatch monitoring
The time interval between when metrics are reported from the EC2 instances
CloudShell
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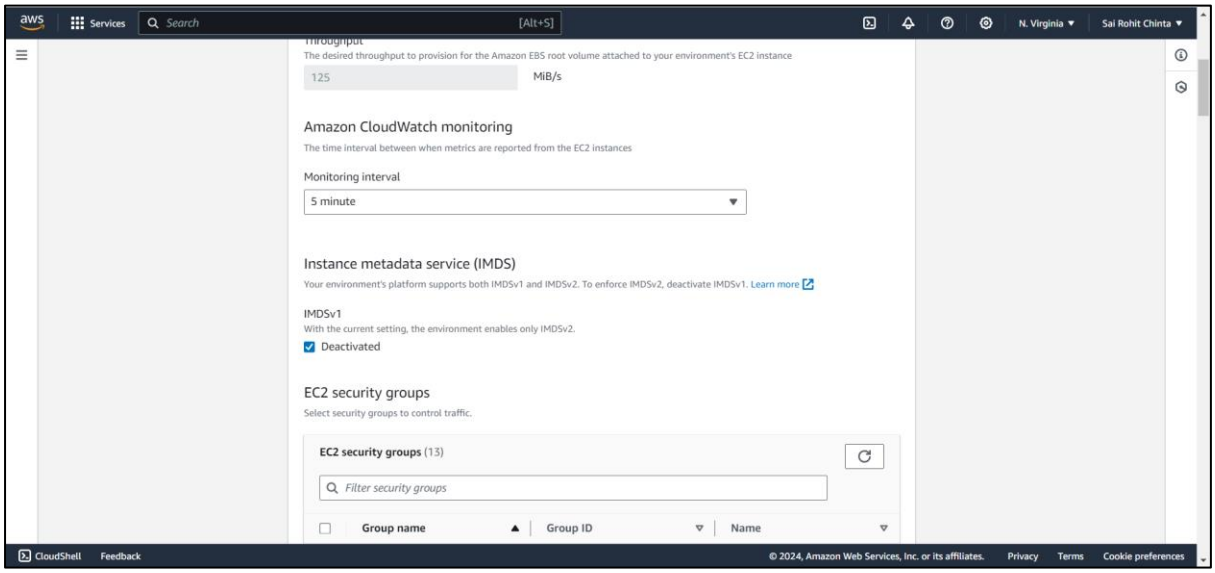
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Throughput
The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance
125
MiB/s
Amazon CloudWatch monitoring
The time interval between when metrics are reported from the EC2 instances
Monitoring interval
5 minute
Instance metadata service (IMDS)
Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. Learn more
IMDSv1
With the current setting, the environment enables only IMDSv2.
Deactivated
EC2 security groups
Select security groups to control traffic.
EC2 security groups (13)
Filter security groups
Group name
Group ID
Name
CloudShell
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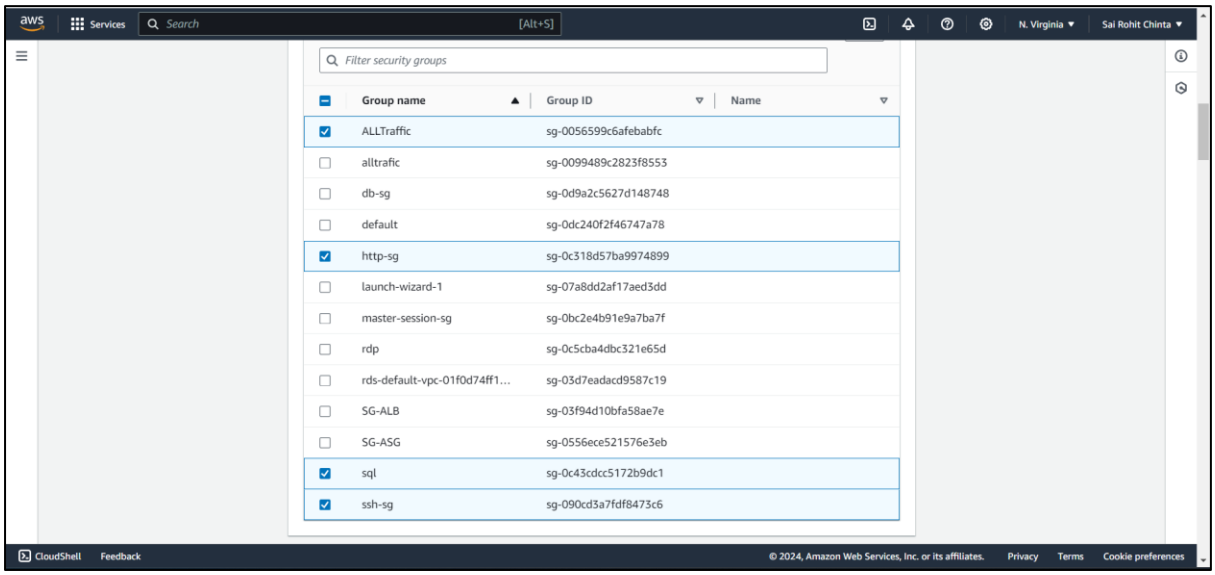
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Filter security groups
Group name
Group ID
Name
ALLTraffic
sg-0056599c6afebabfc
alltrafic
sg-0099489c2823f8553
db-sg
sg-0d9a2c5627d148748
default
sg-0dc240f2f46747a78
http-sg
sg-0c318d57ba9974899
launch-wizard-1
sg-07a8dd2af17aed3dd
master-session-sg
sg-0bc2e4b91e9a7ba7f
rdp
sg-0c5cba4dbc321e65d
rds-default-vpc-01f0d74ff1...
sg-03d7eadacd9587c19
SG-ALB
sg-03f94d10bfa58ae7e
SG-ASG
sg-0556ece521576e3eb
sql
sg-0c43cdcc5172b9dc1
ssh-sg
sg-090cd3a7fdf8473c6
CloudShell
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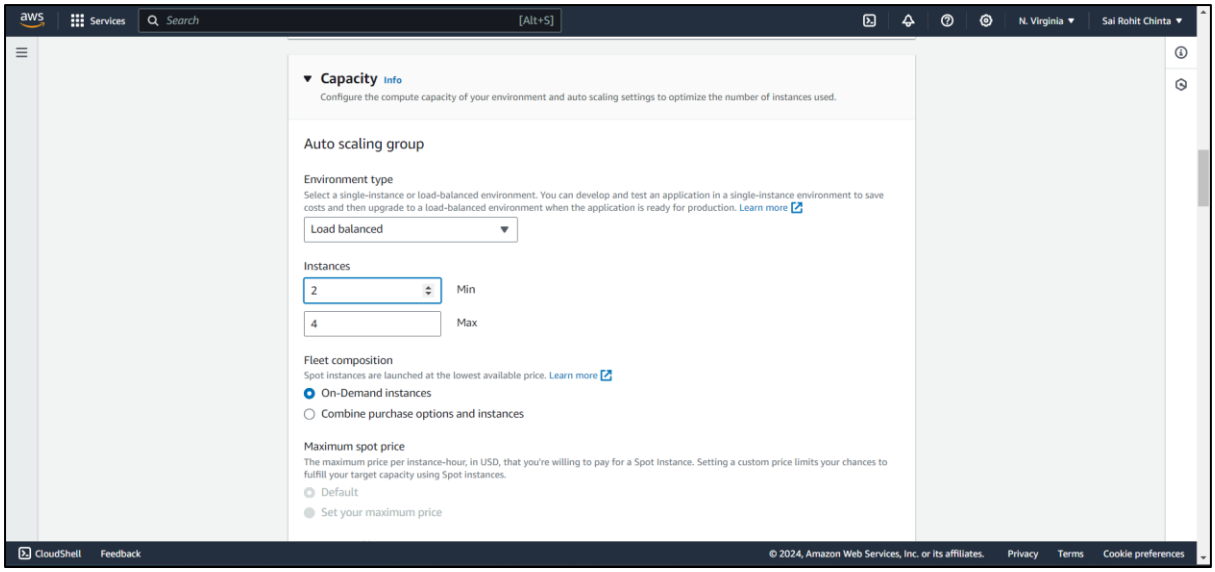
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Capacity Info
Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.
Auto scaling group
Environment type
Select a single-instance or load-balanced environment. You can develop and test an application in a single-instance environment to save costs and then upgrade to a load-balanced environment when the application is ready for production. Learn more
Load balanced
Instances
2
Min
4
Max
Fleet composition
Spot instances are launched at the lowest available price. Learn more
On-Demand instances
Combine purchase options and instances
Maximum spot price
The maximum price per instance-hour, in USD, that you're willing to pay for a Spot Instance. Setting a custom price limits your chances to fulfill your target capacity using Spot instances.
Default
Set your maximum price
CloudShell
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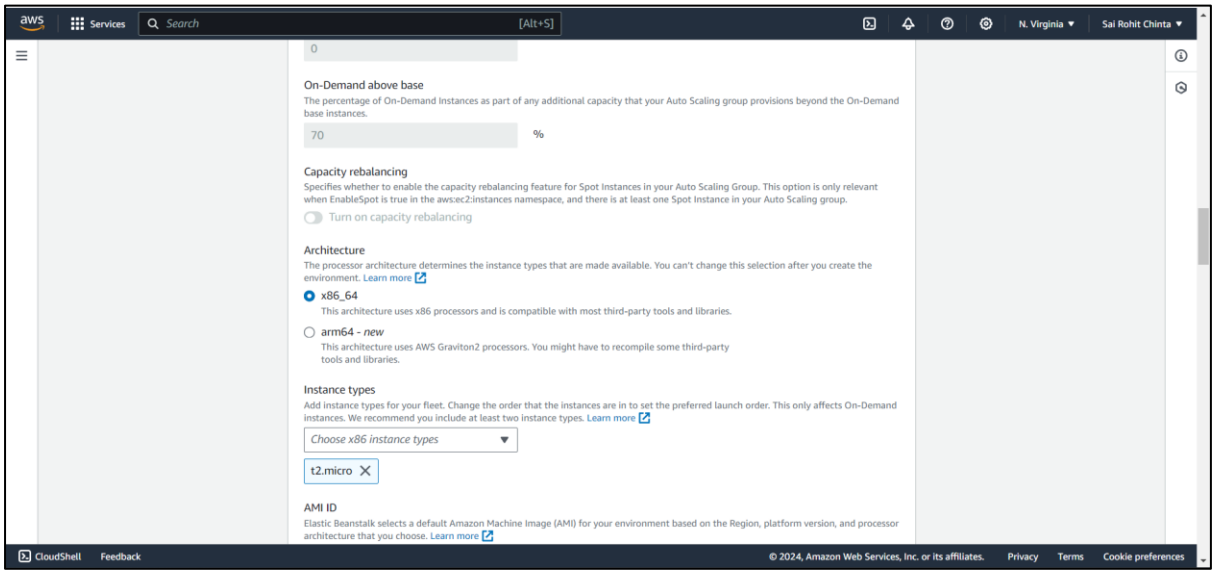
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0
On-Demand above base
The percentage of On-Demand Instances as part of any additional capacity that your Auto Scaling group provisions beyond the On-Demand base instances.
70
%
Capacity rebalancing
Specifies whether to enable the capacity rebalancing feature for Spot Instances in your Auto Scaling Group. This option is only relevant when EnableSpot is true in the aws:ec2:instances namespace, and there is at least one Spot Instance in your Auto Scaling group.
Turn on capacity rebalancing
Architecture
The processor architecture determines the instance types that are made available. You can't change this selection after you create the environment. Learn more
x86_64
This architecture uses x86 processors and is compatible with most third-party tools and libraries.
arm64 - new
This architecture uses AWS Graviton2 processors. You might have to recompile some third-party tools and libraries.
Instance types
Add instance types for your fleet. Change the order that the instances are in to set the preferred launch order. This only affects On-Demand instances. We recommend you include at least two instance types. Learn more
Choose x86 instance types
t2.micro
AMI ID
Elastic Beanstalk selects a default Amazon Machine Image (AMI) for your environment based on the Region, platform version, and processor architecture that you choose. Learn more
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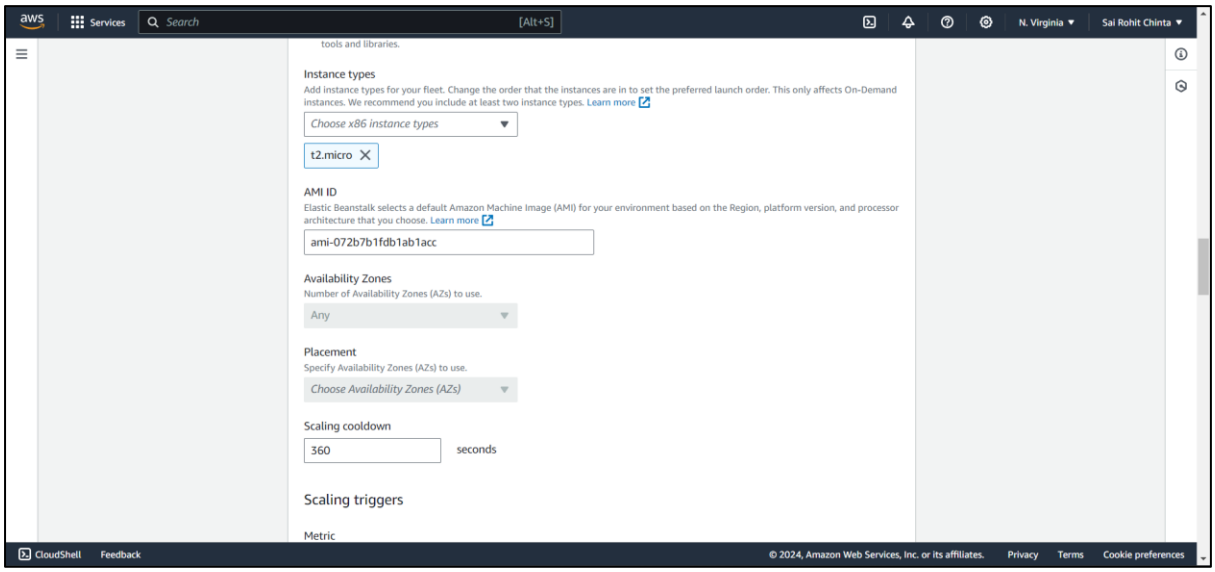
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tools and libraries.
Instance types
Add instance types for your fleet. Change the order that the instances are in to set the preferred launch order. This only affects On-Demand instances. We recommend you include at least two instance types. Learn more
Choose x86 instance types
t2.micro
AMI ID
Elastic Beanstalk selects a default Amazon Machine Image (AMI) for your environment based on the Region, platform version, and processor architecture that you choose. Learn more
ami-072b7b1fdb1ab1acc
Availability Zones
Number of Availability Zones (AZs) to use.
Any
Placement
Specify Availability Zones (AZs) to use.
Choose Availability Zones (AZs)
Scaling cooldown
360
seconds
Scaling triggers
Metric
CloudShell
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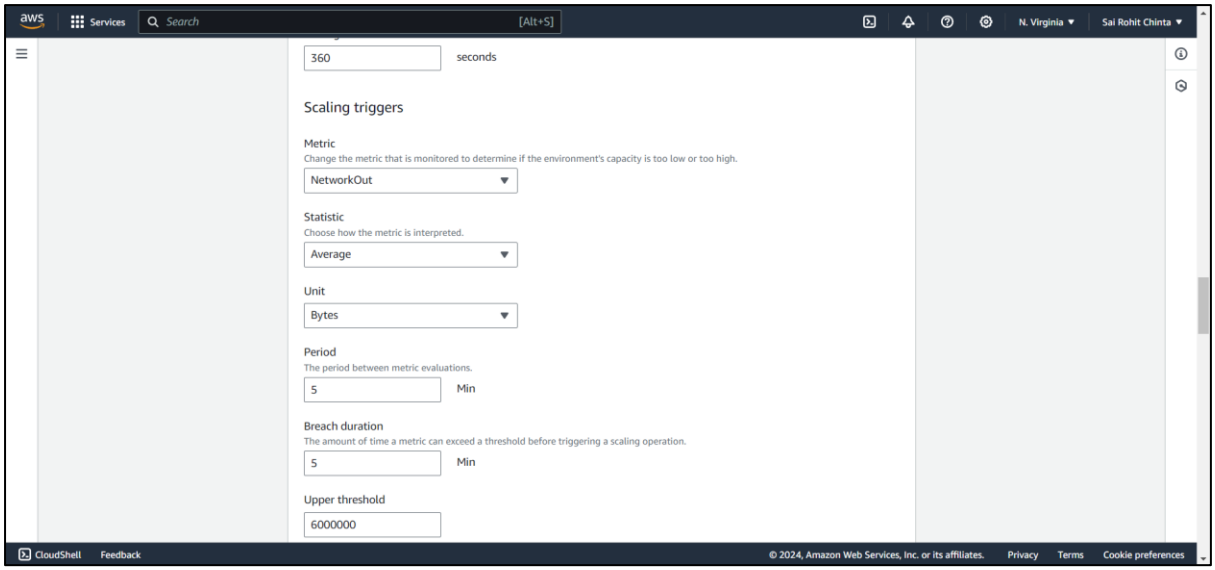
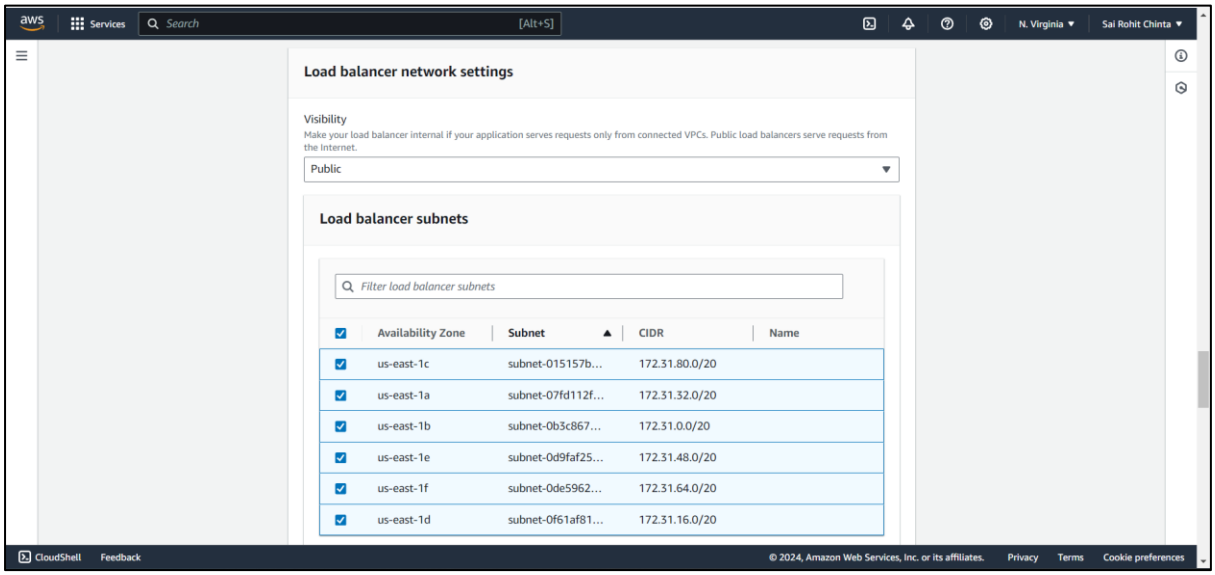
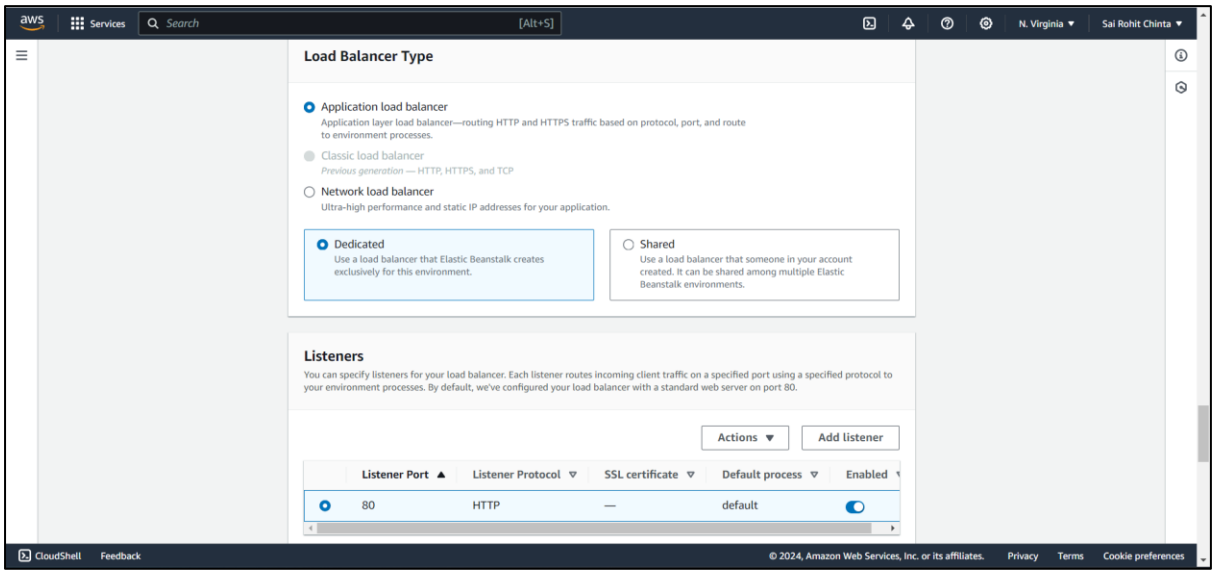
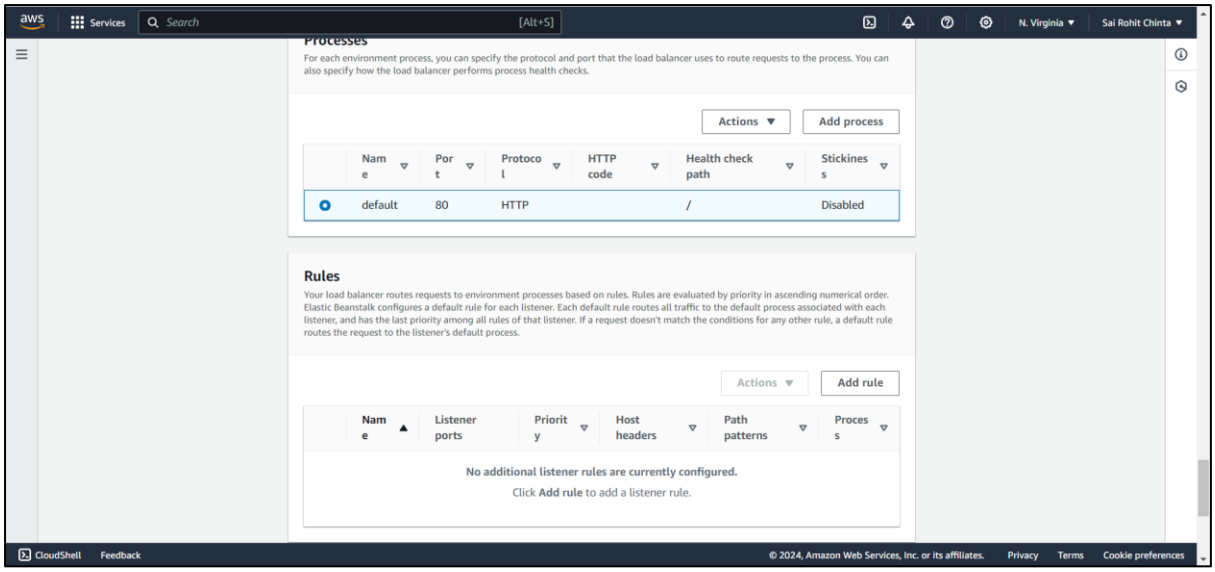

360
seconds
Scaling triggers
Metric
Change the metric that is monitored to determine if the environment's capacity is too low or too high.
NetworkOut
Statistic
Choose how the metric is interpreted.
Average
Unit
Bytes
Period
The period between metric evaluations.
5
Min
Breach duration
The amount of time a metric can exceed a threshold before triggering a scaling operation.
5
Min
Upper threshold
6000000


Load balancer network settings
Visibility
Make your load balancer internal if your application serves requests only from connected VPCs. Public load balancers serve requests from the Internet.
Public
Load balancer subnets
Filter load balancer subnets
Availability Zone
Subnet
CIDR
Name
us-east-1c
subnet-015157b...
172.31.80.0/20
us-east-1a
subnet-07fd112f...
172.31.32.0/20
us-east-1b
subnet-0b3c867...
172.31.0.0/20
us-east-1e
subnet-0d9faf25...
172.31.48.0/20
us-east-1f
subnet-0de5962...
172.31.64.0/20
us-east-1d
subnet-0f61af81...
172.31.16.0/20


Load Balancer Type
Application load balancer
Application layer load balancer—routing HTTP and HTTPS traffic based on protocol, port, and route to environment processes.
Classic load balancer
Previous generation — HTTP, HTTPS, and TCP
Network load balancer
Ultra-high performance and static IP addresses for your application.
Dedicated
Use a load balancer that Elastic Beanstalk creates exclusively for this environment.
Shared
Use a load balancer that someone in your account created. It can be shared among multiple Elastic Beanstalk environments.
Listeners
You can specify listeners for your load balancer. Each listener routes incoming client traffic on a specified port using a specified protocol to your environment processes. By default, we've configured your load balancer with a standard web server on port 80.
Actions
Add listener
Listener Port
Listener Protocol
SSL certificate
Default process
Enabled
80
HTTP
—
default


Services
Search
[Alt+S]
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Processes
For each environment process, you can specify the protocol and port that the load balancer uses to route requests to the process. You can also specify how the load balancer performs process health checks.
Actions
Add process
Name
Port
Protocol
HTTP code
Health check path
Stickiness
default
80
HTTP
/
Disabled
Rules
Your load balancer routes requests to environment processes based on rules. Rules are evaluated by priority in ascending numerical order. Elastic Beanstalk configures a default rule for each listener. Each default rule routes all traffic to the default process associated with each listener, and has the last priority among all rules of that listener. If a request doesn't match the conditions for any other rule, a default rule routes the request to the listener's default process.
Actions
Add rule
Name
Listener ports
Priority
Host headers
Path patterns
Process
No additional listener rules are currently configured.
Click Add rule to add a listener rule.
CloudShell
Feedback
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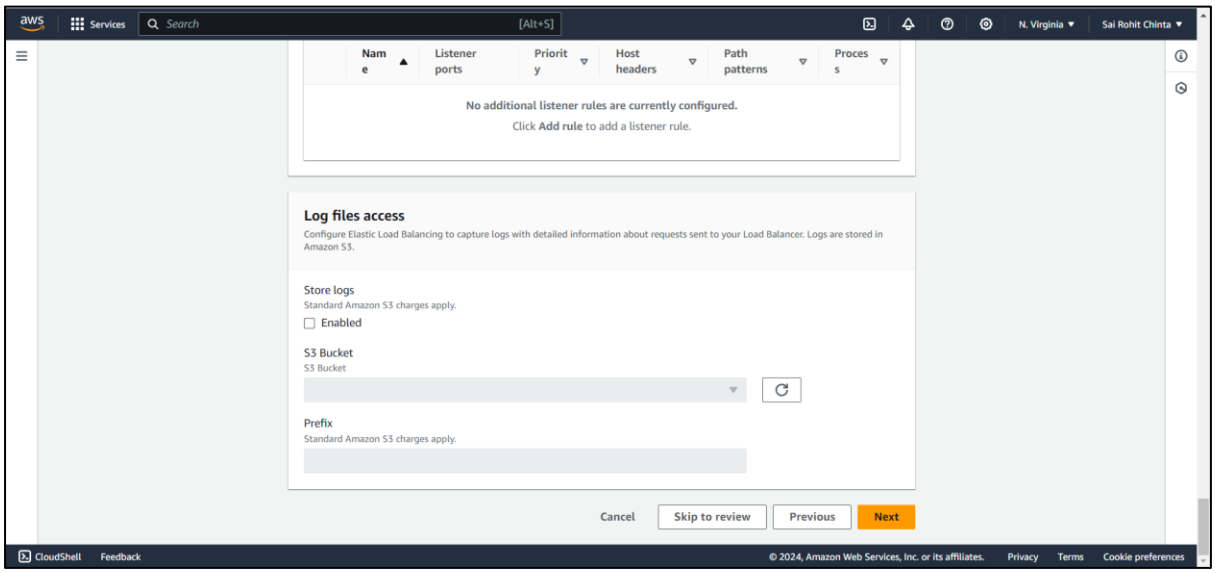
Cookie preferences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Name
Listener ports
Priority
Host headers
Path patterns
Process
No additional listener rules are currently configured.
Click Add rule to add a listener rule.
Log files access
Configure Elastic Load Balancing to capture logs with detailed information about requests sent to your Load Balancer. Logs are stored in Amazon S3.
Store logs
Standard Amazon S3 charges apply.
Enabled
S3 Bucket
S3 Bucket
Prefix
Standard Amazon S3 charges apply.
Cancel
Skip to review
Previous
Next
CloudShell
Feedback
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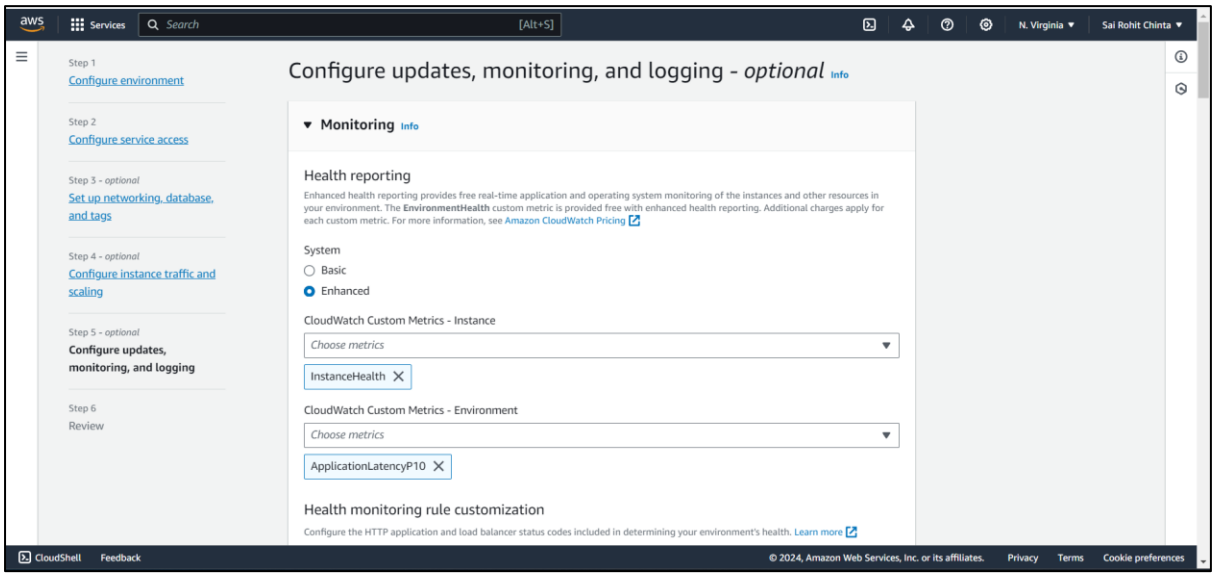
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Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Configure updates, monitoring, and logging - optional
Info
Monitoring
Info
Health reporting
Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The EnvironmentHealth custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see Amazon CloudWatch Pricing
System
Basic
Enhanced
CloudWatch Custom Metrics - Instance
Choose metrics
InstanceHealth
CloudWatch Custom Metrics - Environment
Choose metrics
ApplicationLatencyP10
Health monitoring rule customization
Configure the HTTP application and load balancer status codes included in determining your environment's health. Learn more
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Feedback
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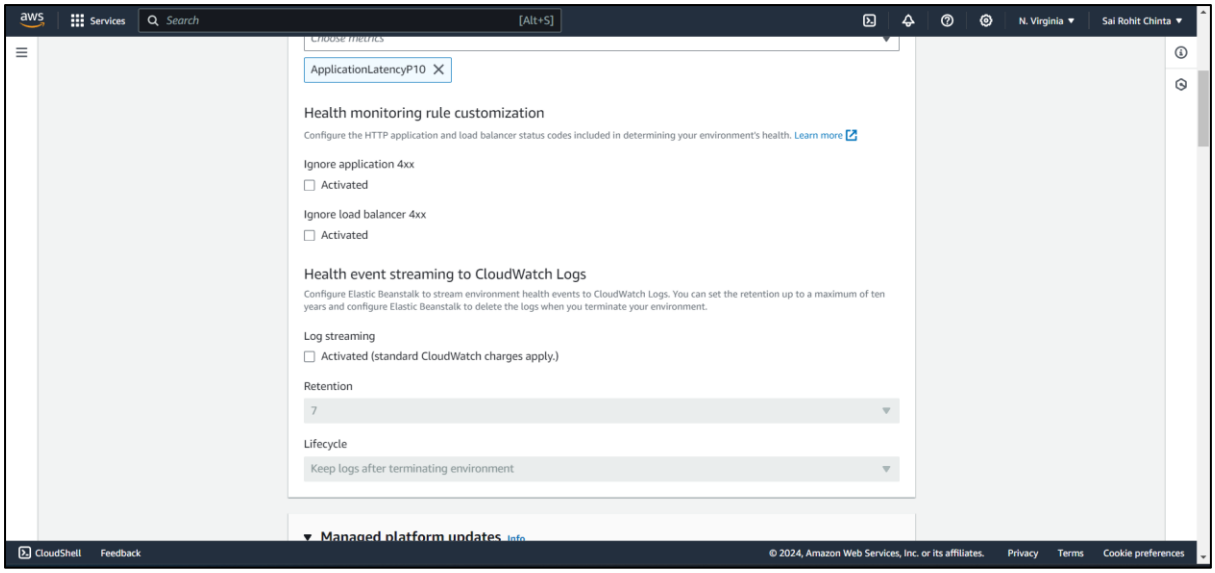
aws
Services
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ApplicationLatencyP10
Health monitoring rule customization
Configure the HTTP application and load balancer status codes included in determining your environment's health. Learn more
Ignore application 4xx
Activated
Ignore load balancer 4xx
Activated
Health event streaming to CloudWatch Logs
Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment.
Log streaming
Activated (standard CloudWatch charges apply.)
Retention
7
Lifecycle
Keep logs after terminating environment
Managed platform updates Info
CloudShell
Feedback
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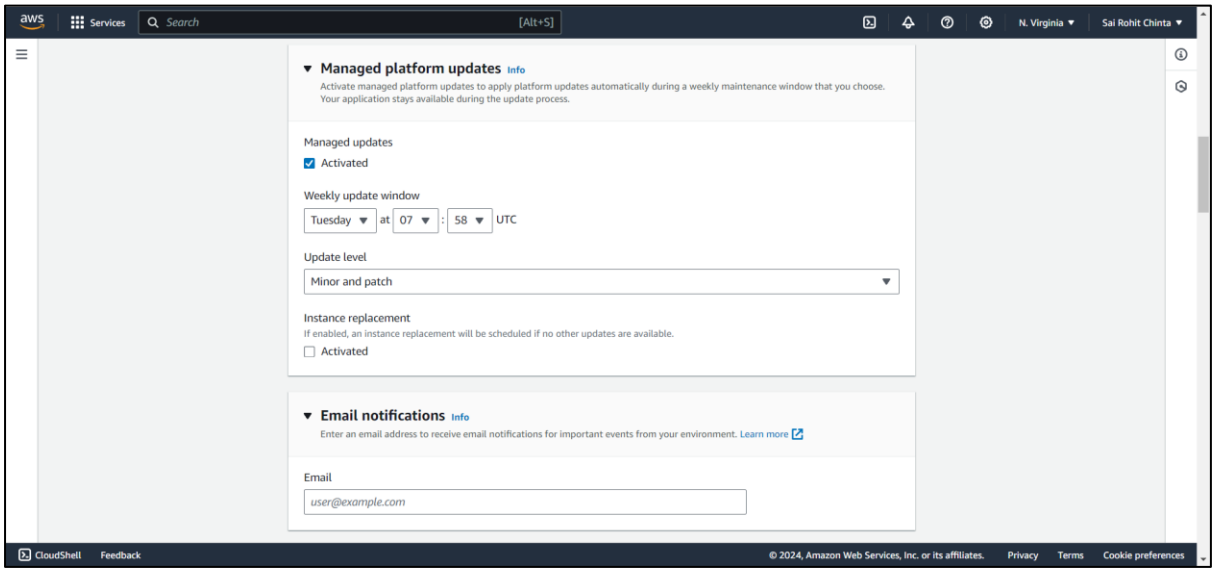
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Services
Search
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Managed platform updates Info
Activate managed platform updates to apply platform updates automatically during a weekly maintenance window that you choose. Your application stays available during the update process.
Managed updates
Activated
Weekly update window
Tuesday
at
07
:
58
UTC
Update level
Minor and patch
Instance replacement
If enabled, an instance replacement will be scheduled if no other updates are available.
Activated
Email notifications Info
Enter an email address to receive email notifications for important events from your environment. Learn more
Email
user@example.com
CloudShell
Feedback
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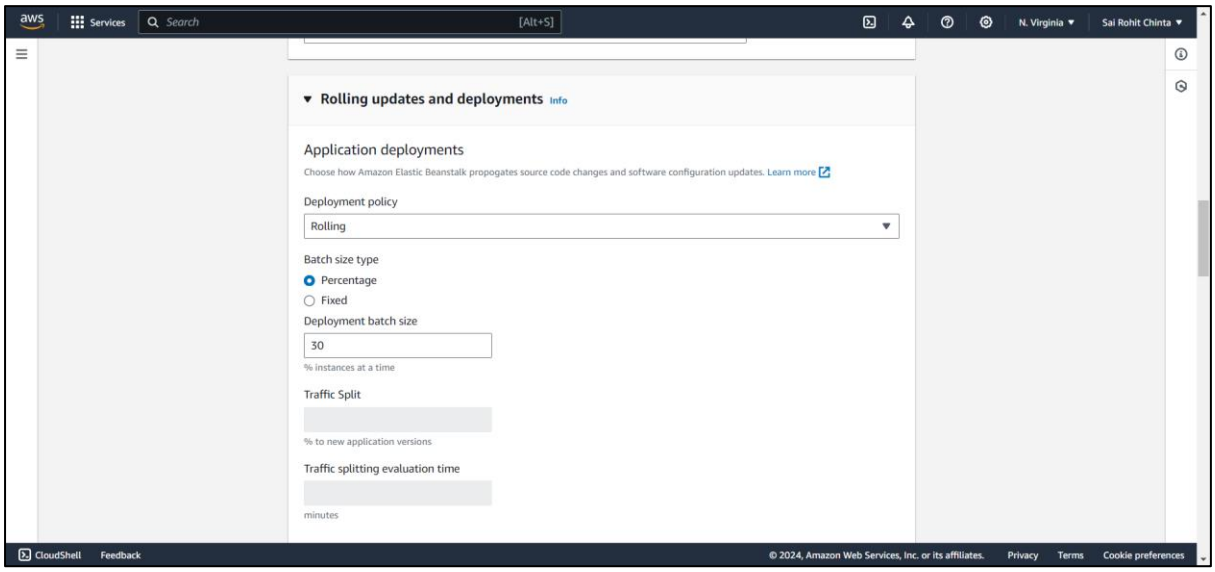
Privacy
Terms
Cookie preferences


aws
Services
Search
[Alt+S]
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Rolling updates and deployments Info
Application deployments
Choose how Amazon Elastic Beanstalk propogates source code changes and software configuration updates. Learn more
Deployment policy
Rolling
Batch size type
Percentage
Fixed
Deployment batch size
30
% instances at a time
Traffic Split
% to new application versions
Traffic splitting evaluation time
minutes
CloudShell
Feedback
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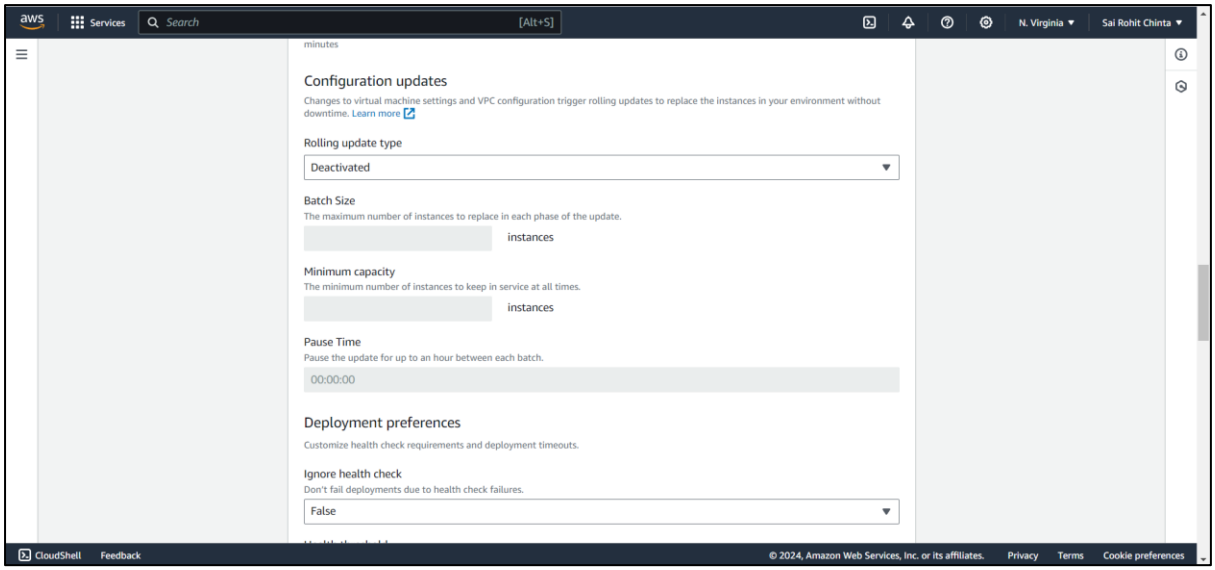
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minutes
Configuration updates
Changes to virtual machine settings and VPC configuration trigger rolling updates to replace the instances in your environment without downtime. Learn more
Rolling update type
Deactivated
Batch Size
The maximum number of instances to replace in each phase of the update.
instances
Minimum capacity
The minimum number of instances to keep in service at all times.
instances
Pause Time
Pause the update for up to an hour between each batch.
00:00:00
Deployment preferences
Customize health check requirements and deployment timeouts.
Ignore health check
Don't fail deployments due to health check failures.
False
CloudShell
Feedback
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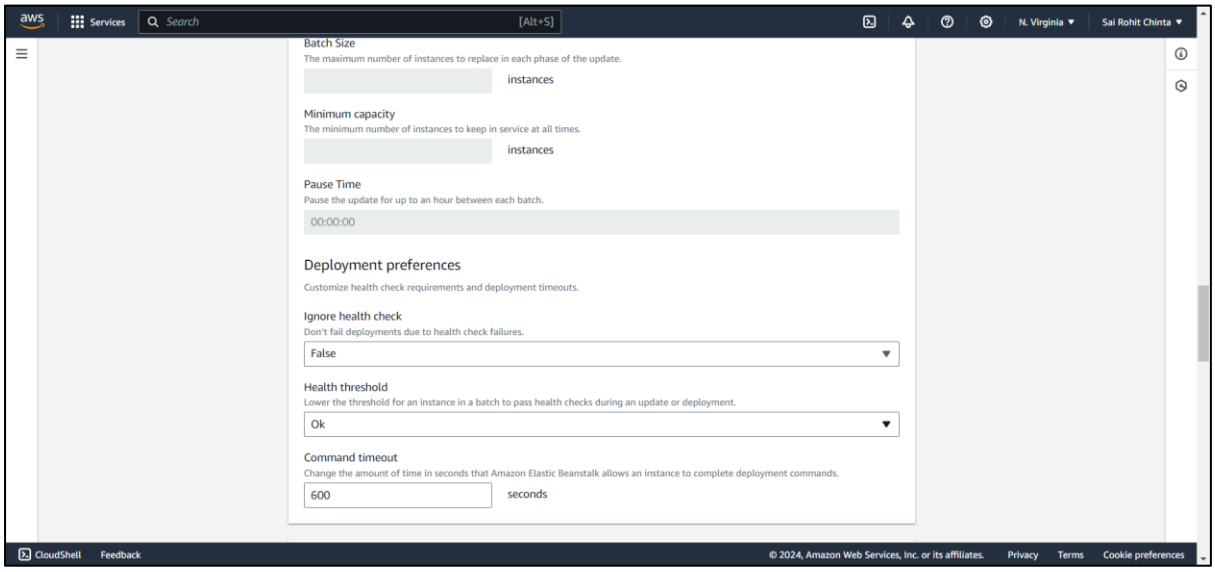
Cookie preferences


aws
Services
Search
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Batch Size
The maximum number of instances to replace in each phase of the update.
instances
Minimum capacity
The minimum number of instances to keep in service at all times.
instances
Pause Time
Pause the update for up to an hour between each batch.
00:00:00
Deployment preferences
Customize health check requirements and deployment timeouts.
Ignore health check
Don't fail deployments due to health check failures.
False
Health threshold
Lower the threshold for an instance in a batch to pass health checks during an update or deployment.
Ok
Command timeout
Change the amount of time in seconds that Amazon Elastic Beanstalk allows an instance to complete deployment commands.
600
seconds
CloudShell
Feedback
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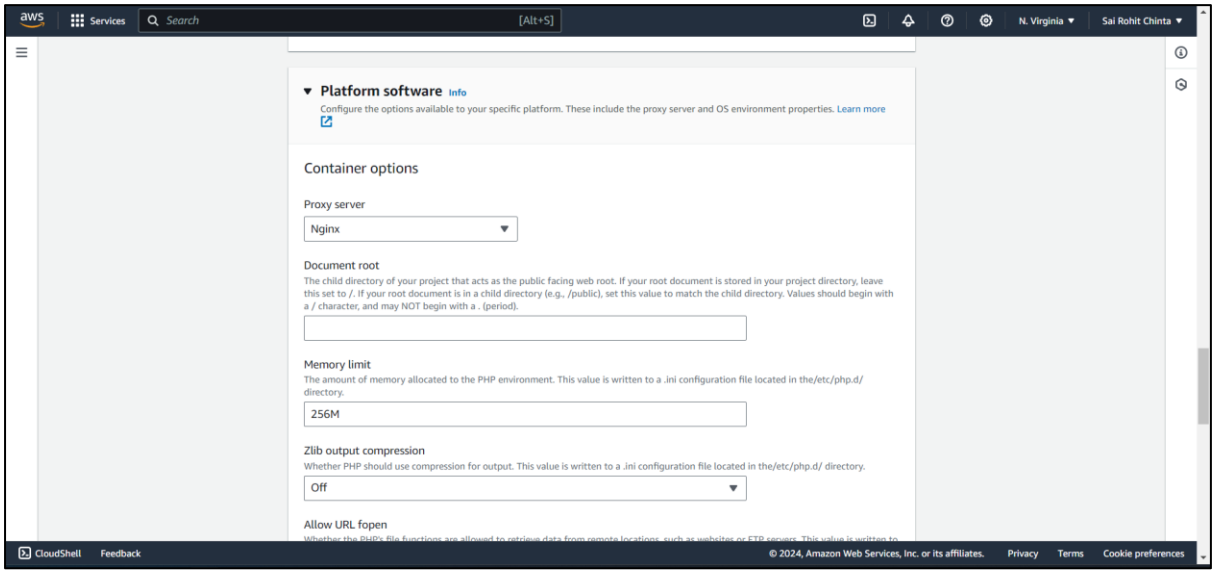
Cookie preferences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Platform software Info
Configure the options available to your specific platform. These include the proxy server and OS environment properties. Learn more
Container options
Proxy server
Nginx
Document root
The child directory of your project that acts as the public facing web root. If your root document is stored in your project directory, leave this set to /. If your root document is in a child directory (e.g., /public), set this value to match the child directory. Values should begin with a / character, and may NOT begin with a . (period).
Memory limit
The amount of memory allocated to the PHP environment. This value is written to a .ini configuration file located in the/etc/php.d/ directory.
256M
Zlib output compression
Whether PHP should use compression for output. This value is written to a .ini configuration file located in the/etc/php.d/ directory.
Off
Allow URL fopen
CloudShell
Feedback
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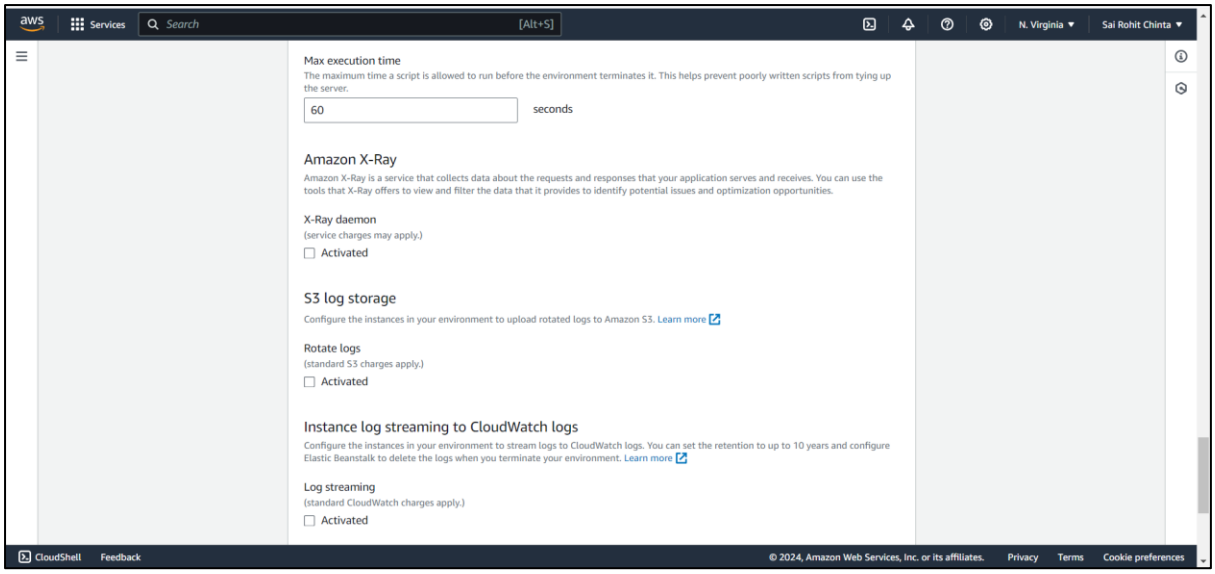
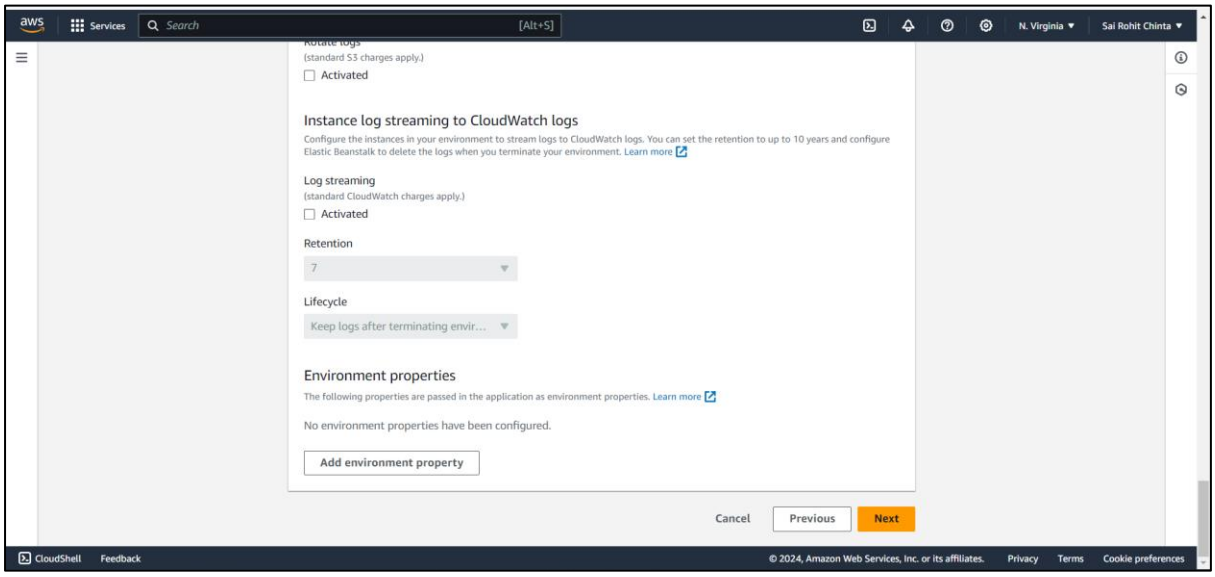
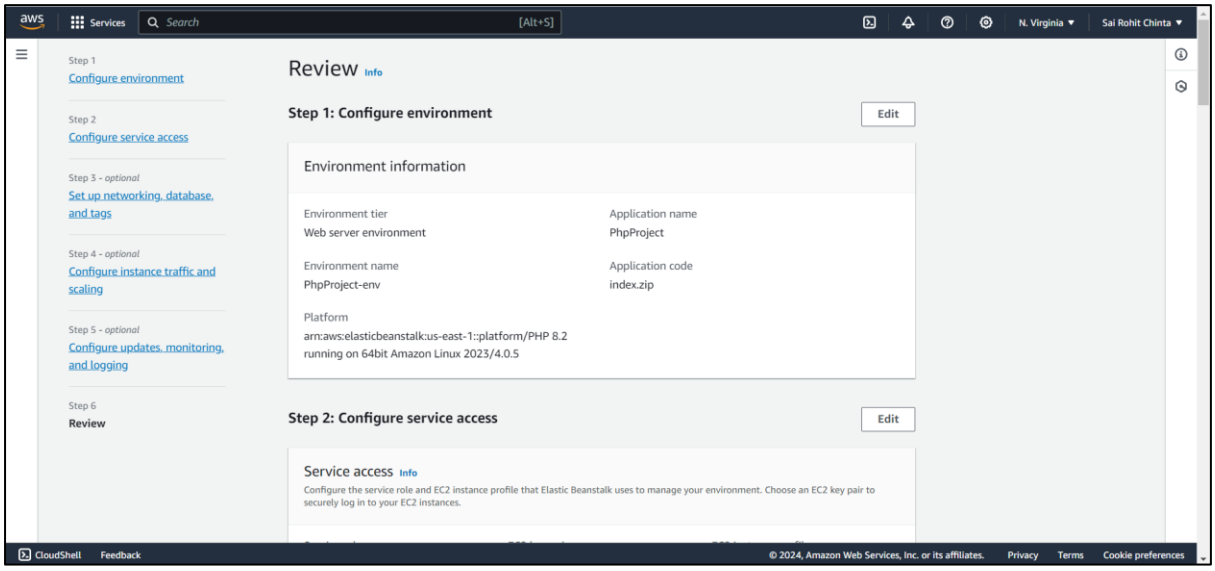
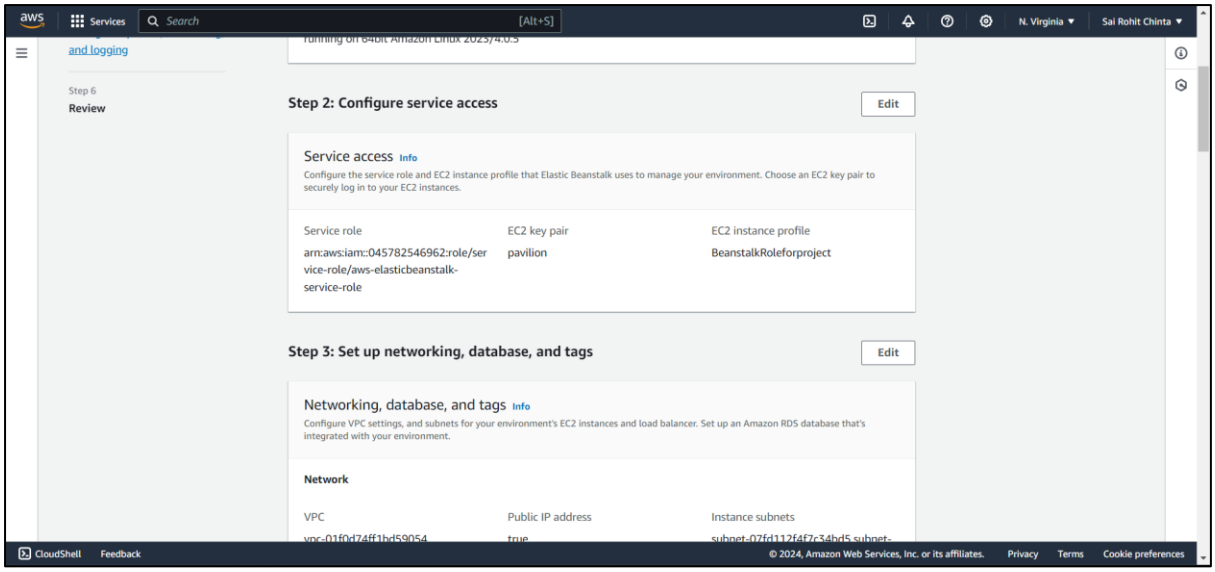

Max execution time
The maximum time a script is allowed to run before the environment terminates it. This helps prevent poorly written scripts from tying up the server.
60
seconds
Amazon X-Ray
Amazon X-Ray is a service that collects data about the requests and responses that your application serves and receives. You can use the tools that X-Ray offers to view and filter the data that it provides to identify potential issues and optimization opportunities.
X-Ray daemon
(service charges may apply.)
Activated
S3 log storage
Configure the instances in your environment to upload rotated logs to Amazon S3. Learn more
Rotate logs
(standard S3 charges apply.)
Activated
Instance log streaming to CloudWatch logs
Configure the instances in your environment to stream logs to CloudWatch logs. You can set the retention to up to 10 years and configure Elastic Beanstalk to delete the logs when you terminate your environment. Learn more
Log streaming
(standard CloudWatch charges apply.)
Activated


(standard S3 charges apply.)
Activated
Instance log streaming to CloudWatch logs
Configure the instances in your environment to stream logs to CloudWatch logs. You can set the retention to up to 10 years and configure Elastic Beanstalk to delete the logs when you terminate your environment. Learn more
Log streaming
(standard CloudWatch charges apply.)
Activated
Retention
7
Lifecycle
Keep logs after terminating envir...
Environment properties
The following properties are passed in the application as environment properties. Learn more
No environment properties have been configured.
Add environment property
Cancel
Previous
Next


Step 1
Configure environment
Step 2
Configure service access
Step 3 - optional
Set up networking, database, and tags
Step 4 - optional
Configure instance traffic and scaling
Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Review Info
Step 1: Configure environment
Edit
Environment information
Environment tier
Web server environment
Application name
PhpProject
Environment name
PhpProject-env
Application code
index.zip
Platform
arn:aws:elasticbeanstalk:us-east-1::platform/PHP 8.2 running on 64bit Amazon Linux 2023/4.0.5
Step 2: Configure service access
Edit
Service access Info
Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.


aws
Services
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and logging
Step 6
Review
Step 2: Configure service access
Edit
Service access Info
Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.
Service role
arn:aws:iam::045782546962:role/service-role/aws-elasticbeanstalk-service-role
EC2 key pair
pavilion
EC2 instance profile
BeanstalkRoleforproject
Step 3: Set up networking, database, and tags
Edit
Networking, database, and tags Info
Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.
Network
VPC
Public IP address
Instance subnets
CloudShell
Feedback
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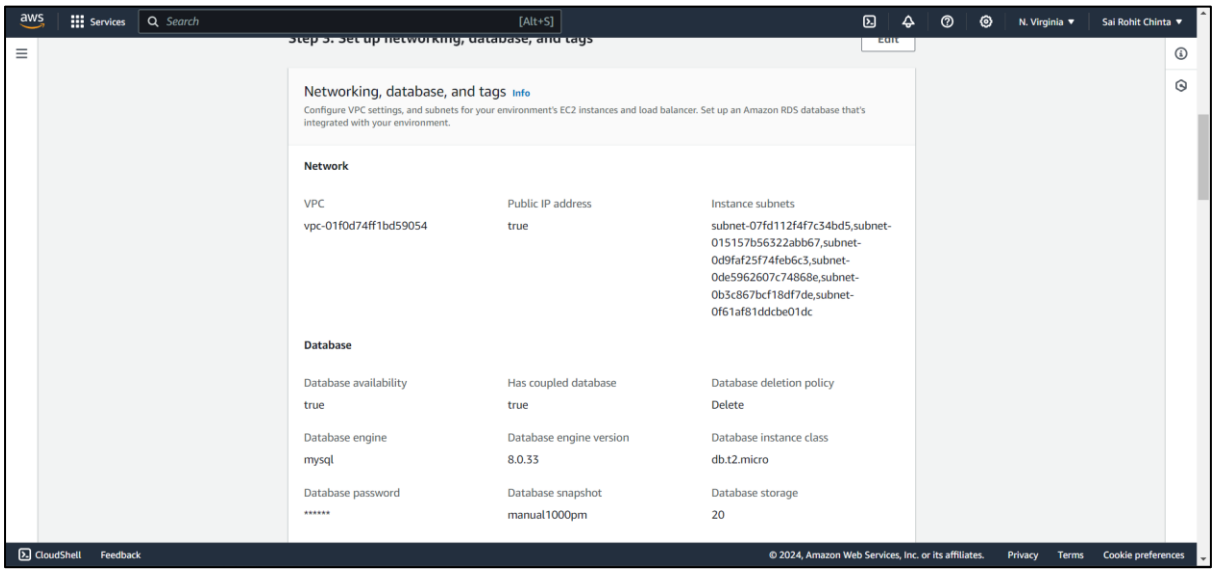
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Services
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Networking, database, and tags Info
Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.
Network
VPC
vpc-01f0d74ff1bd59054
Public IP address
true
Instance subnets
subnet-07fd112f4f7c34bd5,subnet-015157b56322abb67,subnet-0d9faf25f74feb6c3,subnet-0de5962607c74868e,subnet-0b3c867bcf18df7de,subnet-0f61af81ddcbe01dc
Database
Database availability
true
Has coupled database
true
Database deletion policy
Delete
Database engine
mysql
Database engine version
8.0.33
Database instance class
db.t2.micro
Database password
******
Database snapshot
manual1000pm
Database storage
20
CloudShell
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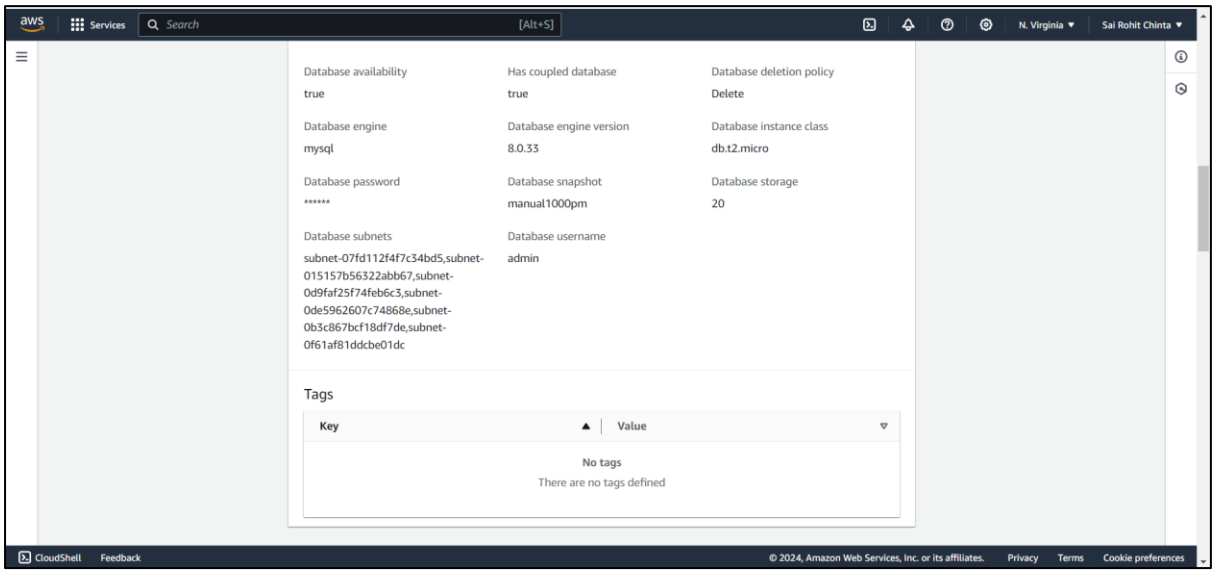
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Database availability
true
Has coupled database
true
Database deletion policy
Delete
Database engine
mysql
Database engine version
8.0.33
Database instance class
db.t2.micro
Database password
******
Database snapshot
manual1000pm
Database storage
20
Database subnets
subnet-07fd112f4f7c34bd5,subnet-015157b56322abb67,subnet-0d9faf25f74feb6c3,subnet-0de5962607c74868e,subnet-0b3c867bcf18df7de,subnet-0f61af81ddcbe01dc
Database username
admin
Tags
Key
Value
No tags
There are no tags defined
CloudShell
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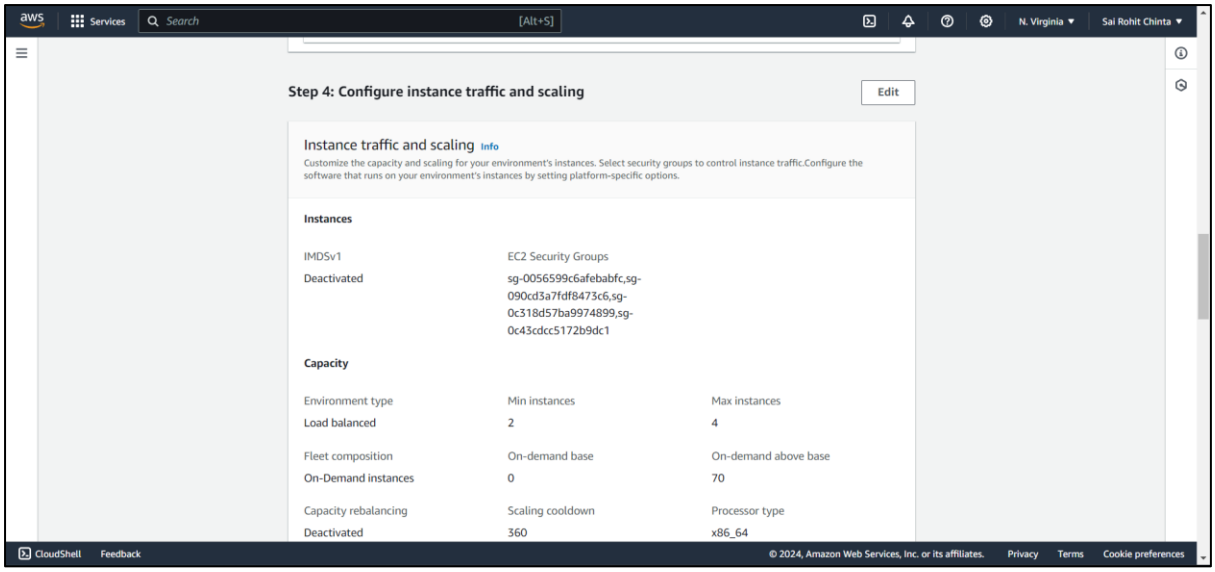
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Services
Search
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Step 4: Configure instance traffic and scaling
Edit
Instance traffic and scaling Info
Customize the capacity and scaling for your environment's instances. Select security groups to control instance traffic.Configure the software that runs on your environment's instances by setting platform-specific options.
Instances
IMDSv1
Deactivated
EC2 Security Groups
sg-0056599c6afebabfc,sg-090cd3a7fdf8473c6,sg-0c318d57ba9974899,sg-0c43cdcc5172b9dc1
Capacity
Environment type
Load balanced
Min instances
2
Max instances
4
Fleet composition
On-Demand instances
On-demand base
0
On-demand above base
70
Capacity rebalancing
Deactivated
Scaling cooldown
360
Processor type
x86_64
CloudShell
Feedback
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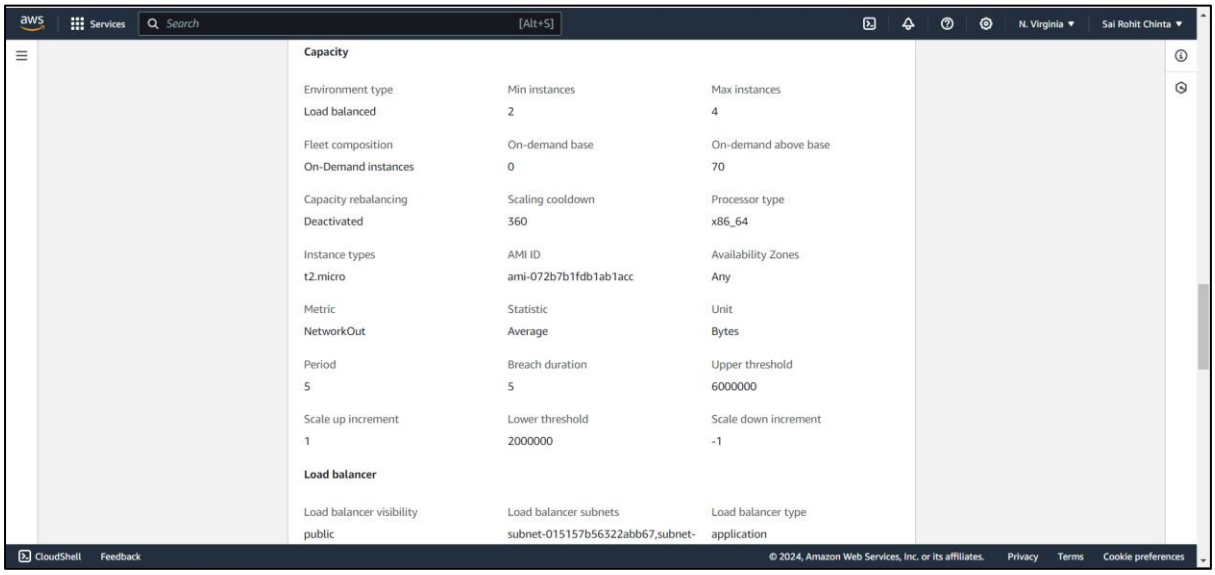
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Services
Search
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Capacity
Environment type
Load balanced
Min instances
2
Max instances
4
Fleet composition
On-Demand instances
On-demand base
0
On-demand above base
70
Capacity rebalancing
Deactivated
Scaling cooldown
360
Processor type
x86_64
Instance types
t2.micro
AMI ID
ami-072b7b1fdb1ab1acc
Availability Zones
Any
Metric
NetworkOut
Statistic
Average
Unit
Bytes
Period
5
Breach duration
5
Upper threshold
6000000
Scale up increment
1
Lower threshold
2000000
Scale down increment
-1
Load balancer
Load balancer visibility
public
Load balancer subnets
subnet-015157b56322abb67,subnet-
Load balancer type
application
CloudShell
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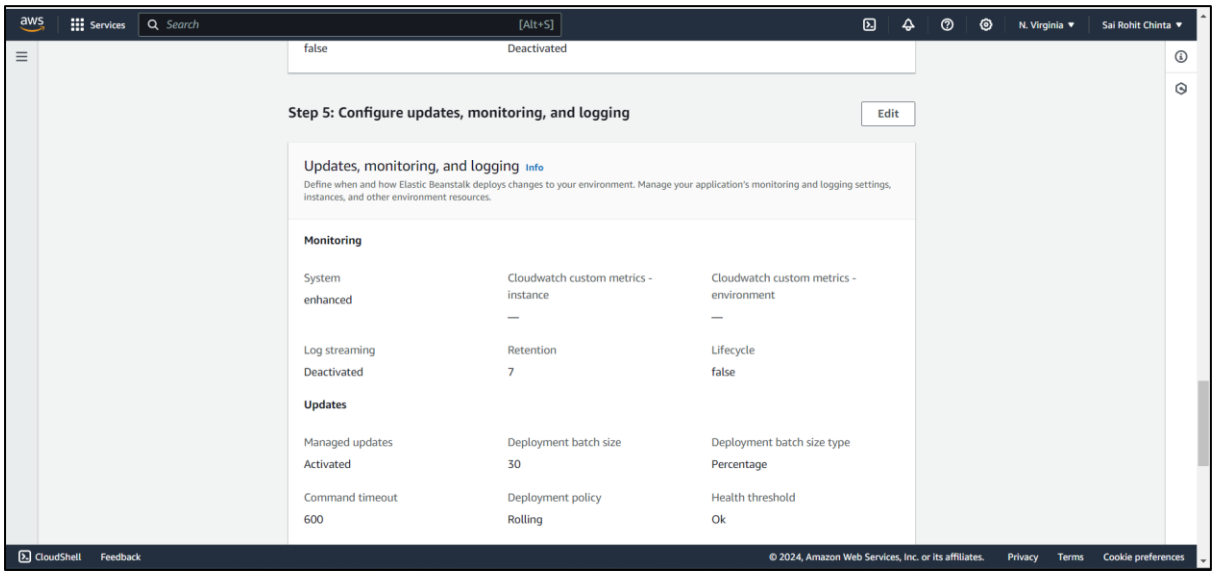
aws
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false
Deactivated
Step 5: Configure updates, monitoring, and logging
Edit
Updates, monitoring, and logging Info
Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.
Monitoring
System
enhanced
Cloudwatch custom metrics - instance
—
Cloudwatch custom metrics - environment
—
Log streaming
Deactivated
Retention
7
Lifecycle
false
Updates
Managed updates
Activated
Deployment batch size
30
Deployment batch size type
Percentage
Command timeout
600
Deployment policy
Rolling
Health threshold
Ok
CloudShell
Feedback
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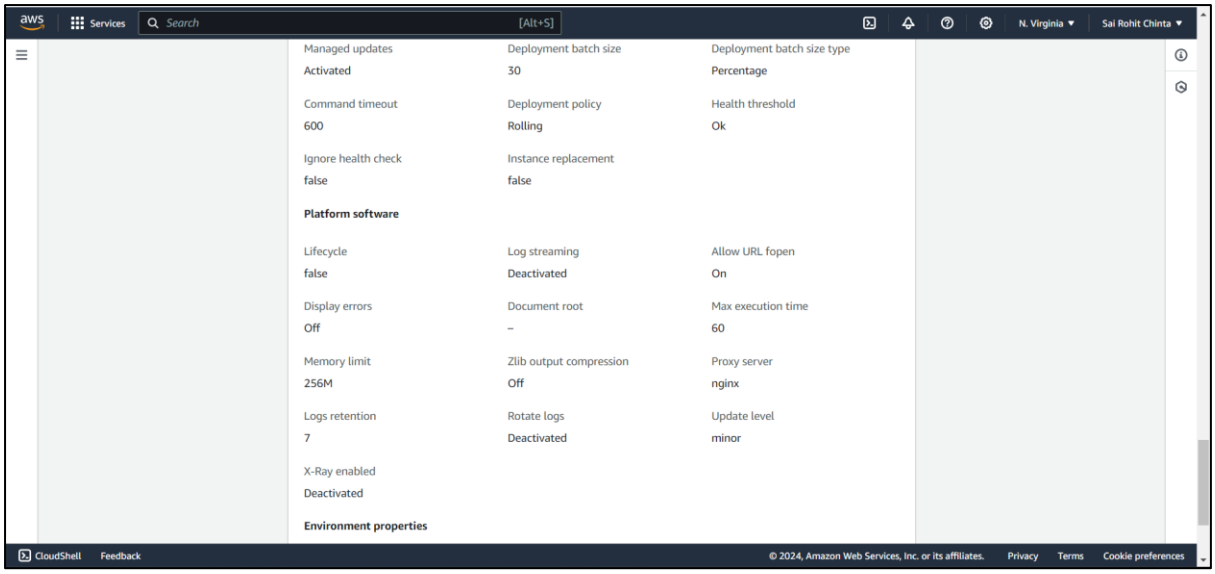
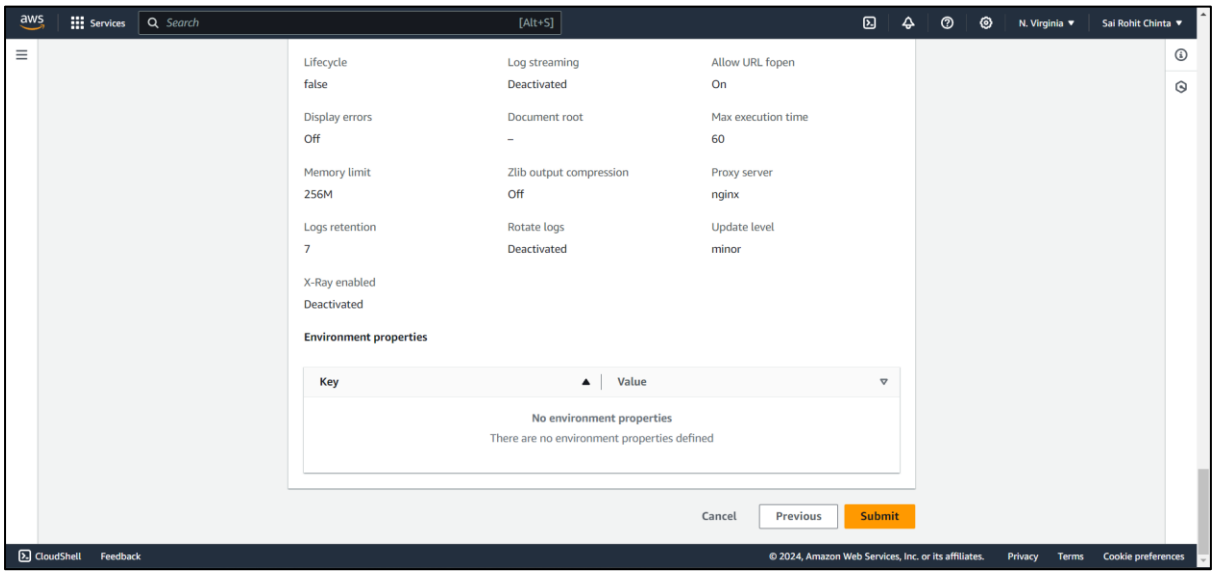
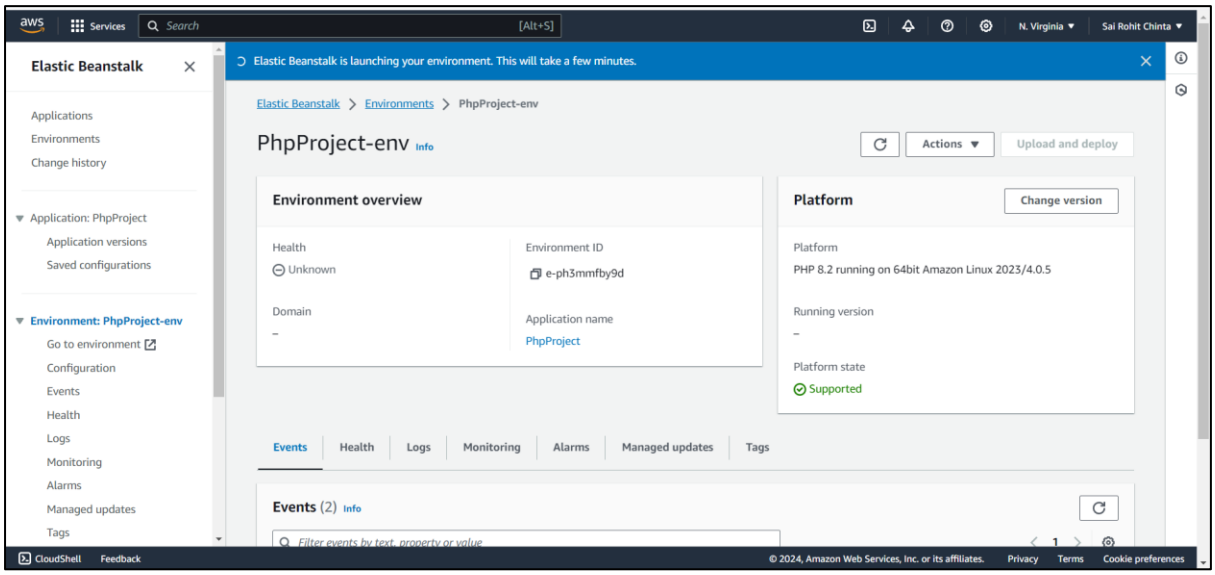
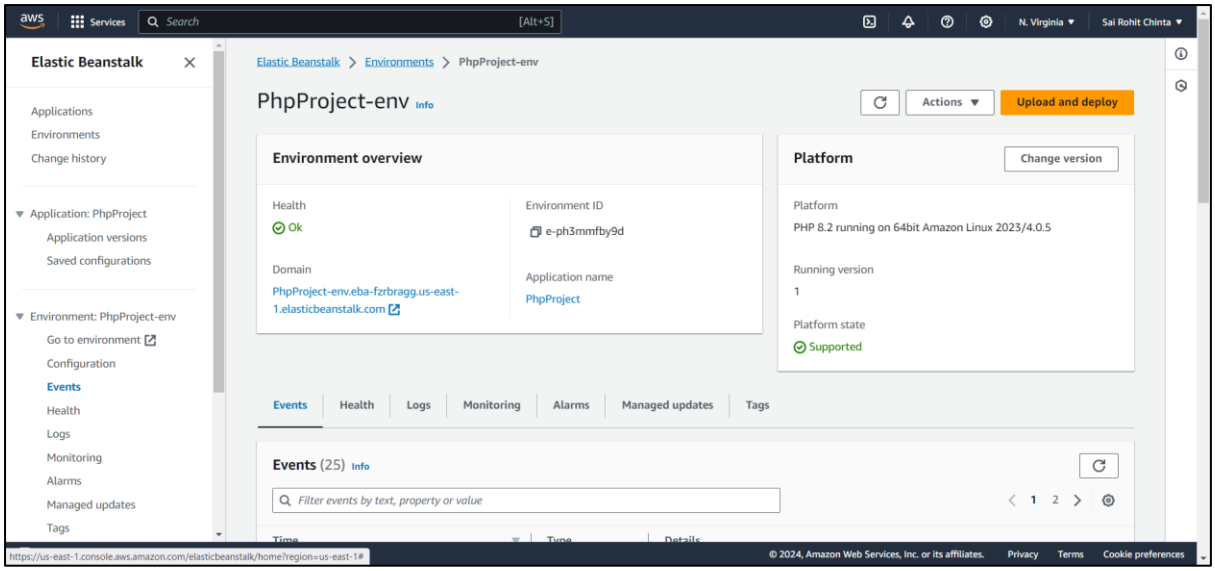
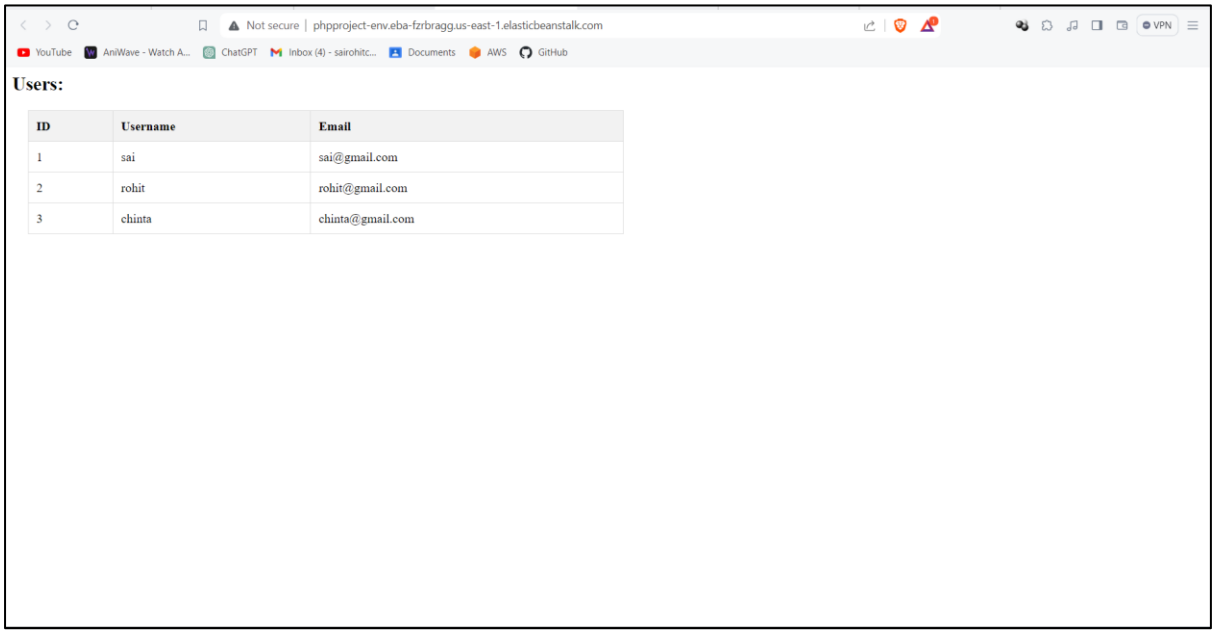

Managed updates
Activated
Deployment batch size
30
Deployment batch size type
Percentage
Command timeout
600
Deployment policy
Rolling
Health threshold
Ok
Ignore health check
false
Instance replacement
false
Platform software
Lifecycle
false
Log streaming
Deactivated
Allow URL fopen
On
Display errors
Off
Document root
–
Max execution time
60
Memory limit
256M
Zlib output compression
Off
Proxy server
nginx
Logs retention
7
Rotate logs
Deactivated
Update level
minor
X-Ray enabled
Deactivated
Environment properties


Lifecycle
false
Log streaming
Deactivated
Allow URL fopen
On
Display errors
Off
Document root
–
Max execution time
60
Memory limit
256M
Zlib output compression
Off
Proxy server
nginx
Logs retention
7
Rotate logs
Deactivated
Update level
minor
X-Ray enabled
Deactivated
Environment properties
Key
Value
No environment properties
There are no environment properties defined
Cancel
Previous
Submit


Elastic Beanstalk
Elastic Beanstalk is launching your environment. This will take a few minutes.
Applications
Environments
Change history
Application: PhpProject
Application versions
Saved configurations
Environment: PhpProject-env
Go to environment
Configuration
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Elastic Beanstalk > Environments > PhpProject-env
PhpProject-env Info
Actions
Upload and deploy
Environment overview
Health
Unknown
Environment ID
e-ph3mmfby9d
Domain
–
Application name
PhpProject
Platform
Change version
Platform
PHP 8.2 running on 64bit Amazon Linux 2023/4.0.5
Running version
–
Platform state
Supported
Events
Health
Logs
Monitoring
Alarms
Managed updates
Tags
Events (2) Info

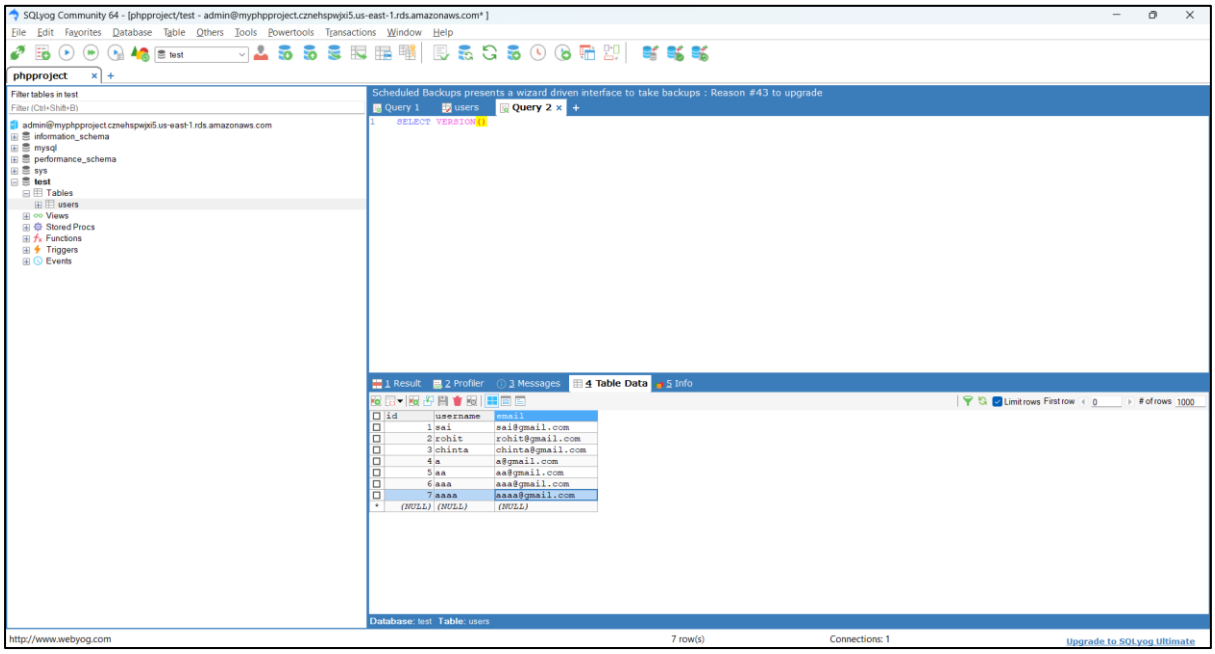


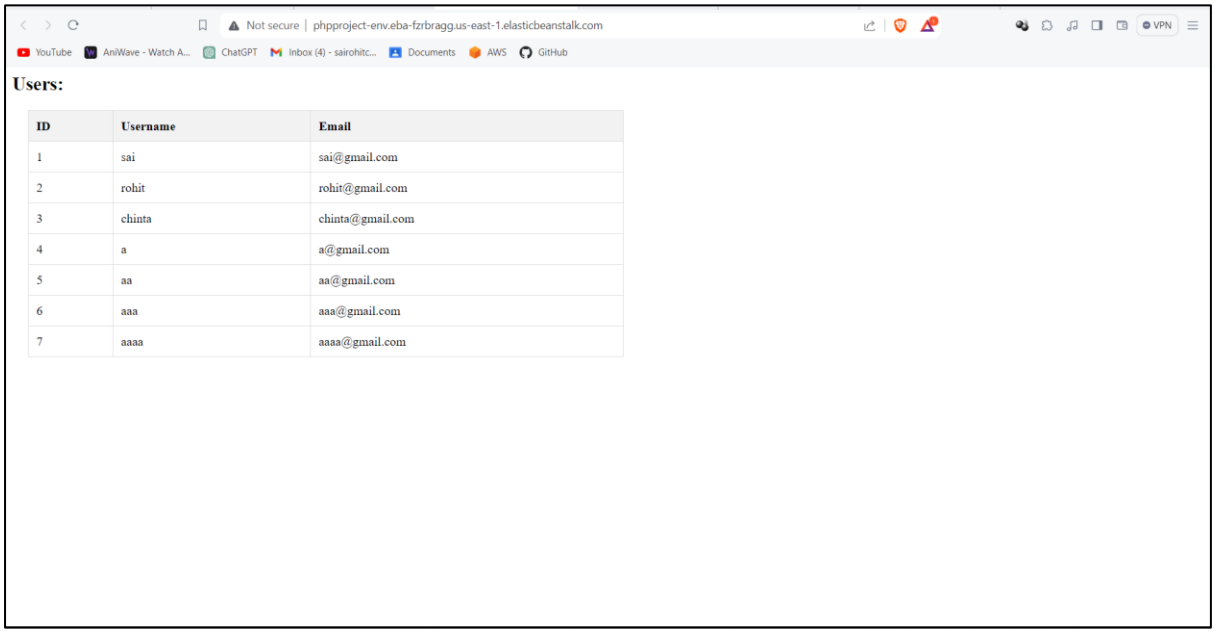

**Step-7:** Copy the domain name and paste it another tab

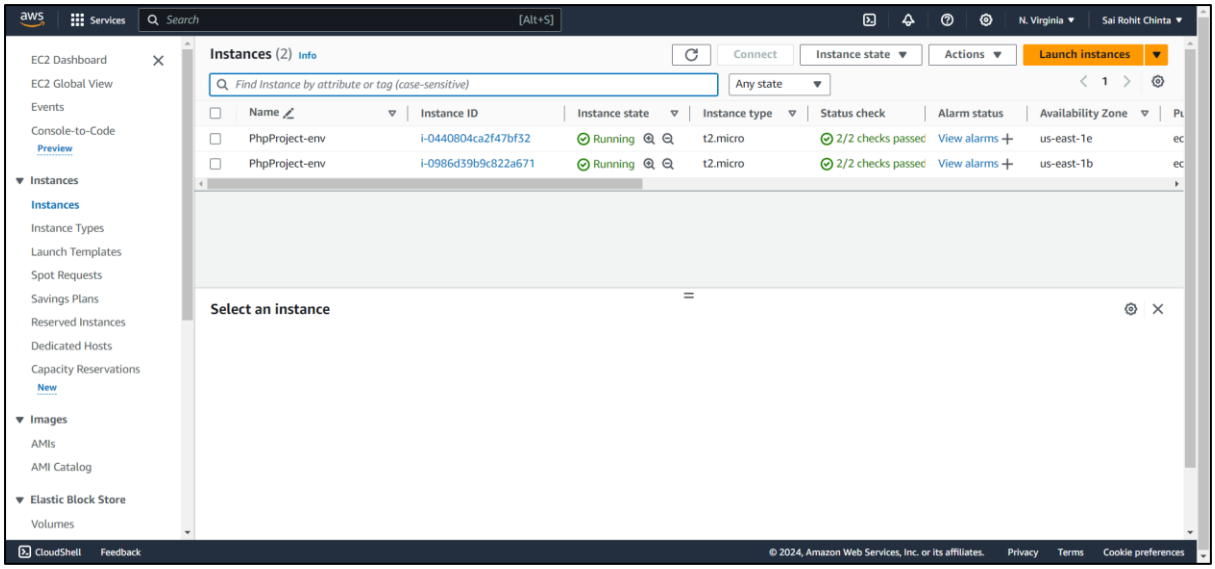


**Step-8:** For testing the code perform the following instructions

- Insert 4 more records into the db table
- Refresh the php application to view the updated data

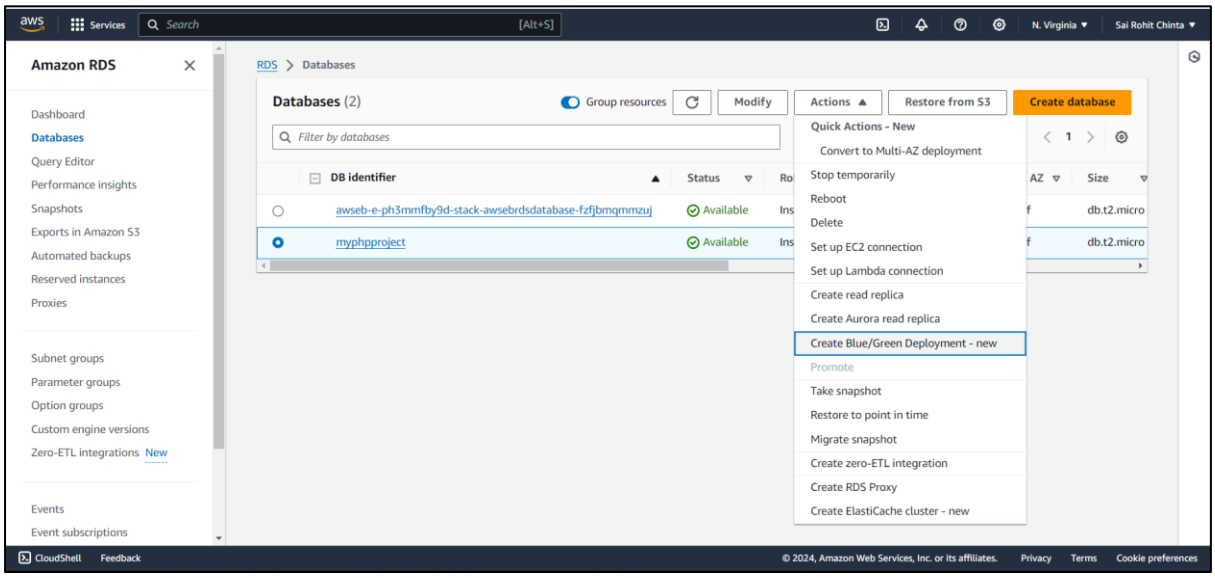


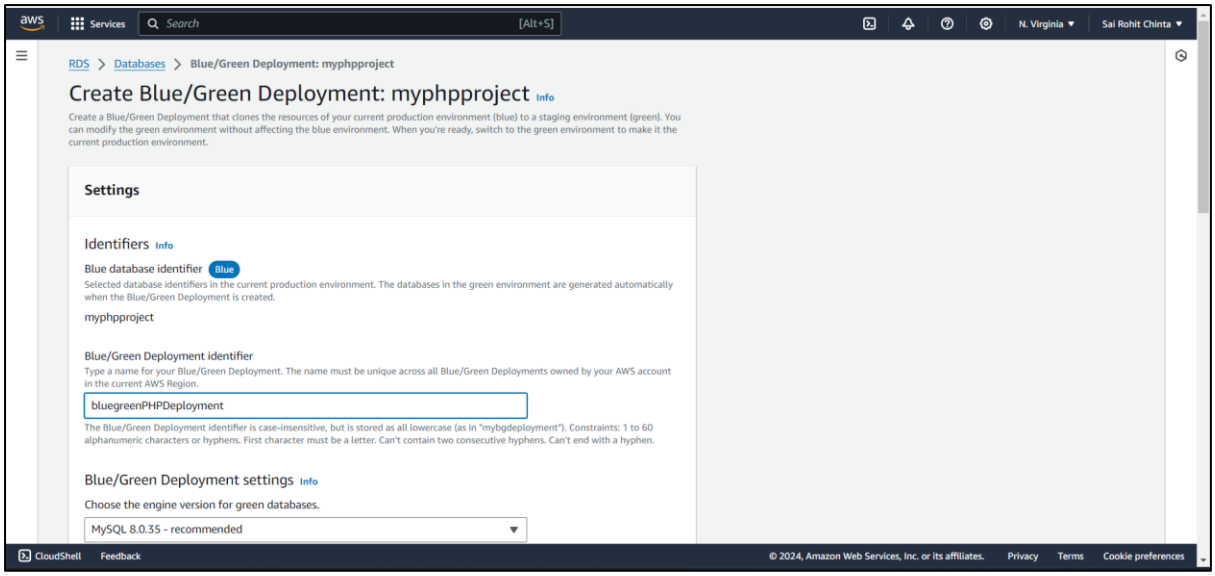






**Step-9:** Create the rds db and perform blue/green deployment

- Blue deployment has mysql version 8.0.33
- Green deployment has mysql version 8.0.35




aws
Services
Search
[Alt+S]
N. Virginia
Sai Rohit Chinta
RDS > Databases > Blue/Green Deployment: myphpproject
Create Blue/Green Deployment: myphpproject Info
Create a Blue/Green Deployment that clones the resources of your current production environment (blue) to a staging environment (green). You can modify the green environment without affecting the blue environment. When you're ready, switch to the green environment to make it the current production environment.
Settings
Identifiers Info
Blue database identifier Blue
Selected database identifiers in the current production environment. The databases in the green environment are generated automatically when the Blue/Green Deployment is created.
myphpproject
Blue/Green Deployment identifier
Type a name for your Blue/Green Deployment. The name must be unique across all Blue/Green Deployments owned by your AWS account in the current AWS Region.
bluegreenPHPDeployment
The Blue/Green Deployment identifier is case-insensitive, but is stored as all lowercase (as in "mybgdeployment"). 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.
Blue/Green Deployment settings Info
Choose the engine version for green databases.
MySQL 8.0.35 - recommended
CloudShell
Feedback
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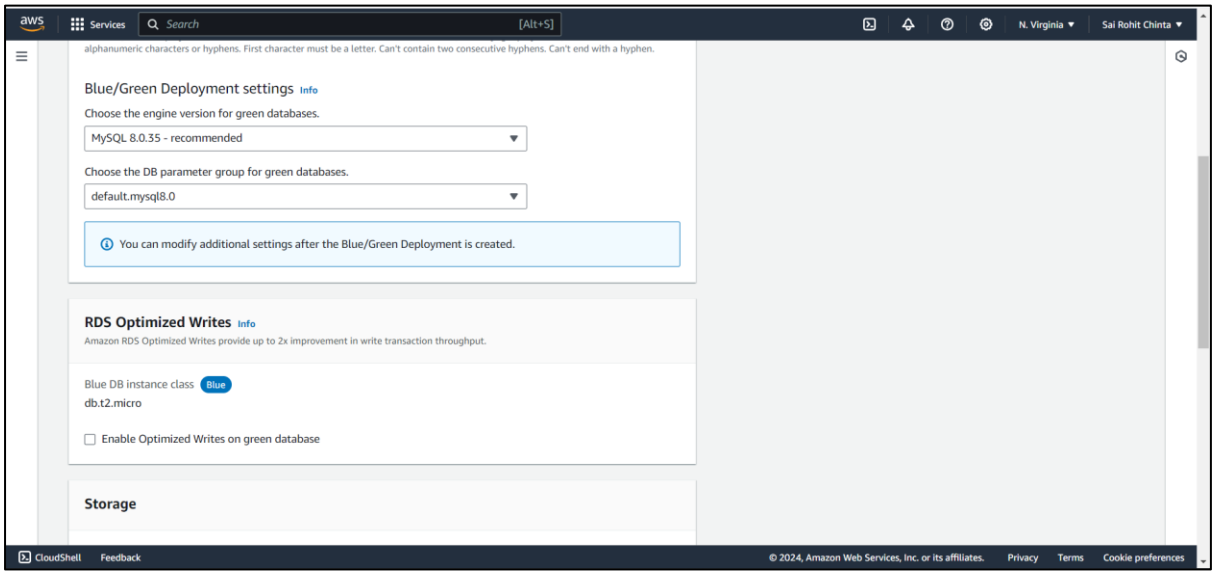
Privacy
Terms
Cookie preferences


aws
Services
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Sai Rohit Chinta
alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
Blue/Green Deployment settings Info
Choose the engine version for green databases.
MySQL 8.0.35 - recommended
Choose the DB parameter group for green databases.
default.mysql8.0
You can modify additional settings after the Blue/Green Deployment is created.
RDS Optimized Writes Info
Amazon RDS Optimized Writes provide up to 2x improvement in write transaction throughput.
Blue DB instance class Blue
db.t2.micro
Enable Optimized Writes on green database
Storage
CloudShell
Feedback
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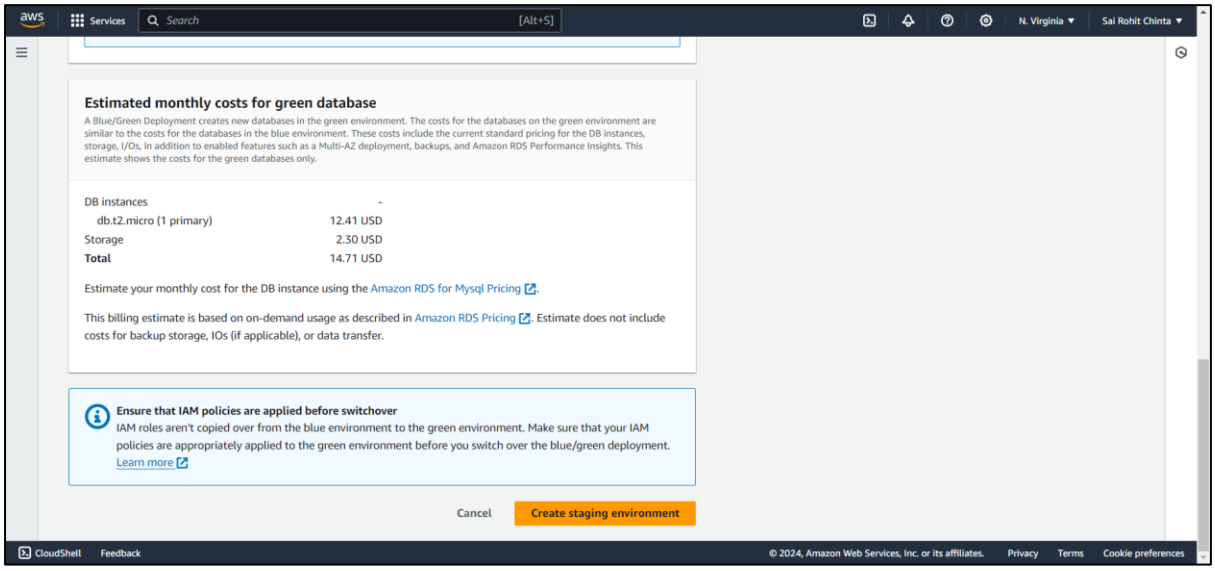
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Estimated monthly costs for green database
A Blue/Green Deployment creates new databases in the green environment. The costs for the databases on the green environment are similar to the costs for the databases in the blue environment. These costs include the current standard pricing for the DB instances, storage, I/Os, in addition to enabled features such as a Multi-AZ deployment, backups, and Amazon RDS Performance Insights. This estimate shows the costs for the green databases only.
DB instances -
db.t2.micro (1 primary) 12.41 USD
Storage 2.30 USD
Total 14.71 USD
Estimate your monthly cost for the DB instance using the Amazon RDS for Mysql Pricing.
This billing estimate is based on on-demand usage as described in Amazon RDS Pricing. Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.
Ensure that IAM policies are applied before switchover
IAM roles aren't copied over from the blue environment to the green environment. Make sure that your IAM policies are appropriately applied to the green environment before you switch over the blue/green deployment.
Learn more
Cancel
Create staging environment
CloudShell
Feedback
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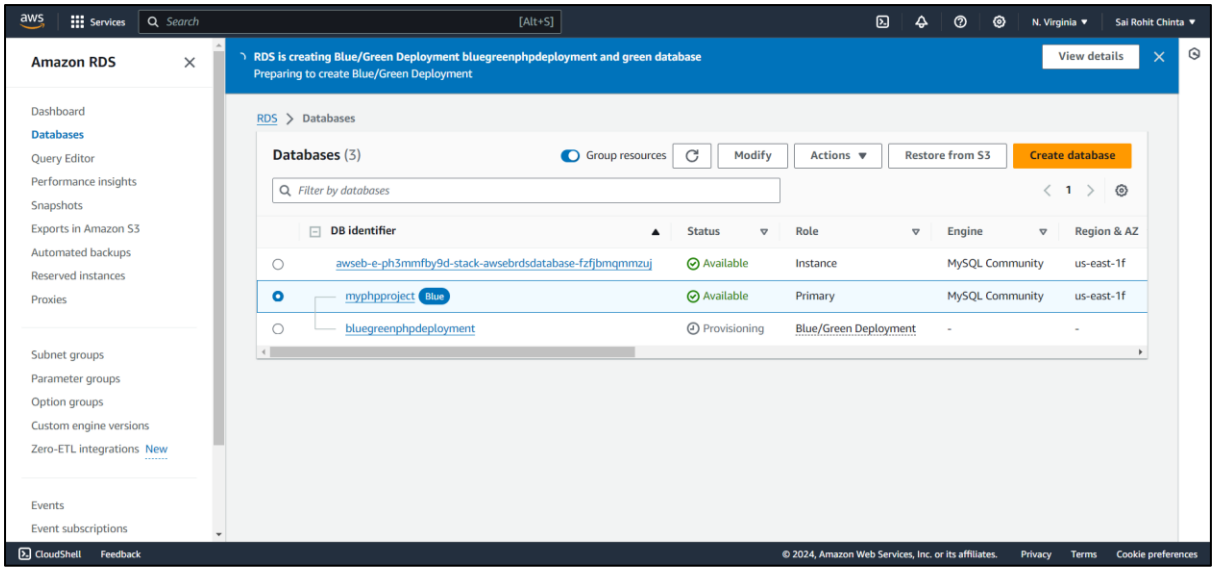
aws
Services
Search
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Amazon RDS
RDS is creating Blue/Green Deployment bluegreenphpdeployment and green database
Preparing to create Blue/Green Deployment
View details
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
RDS > Databases
Databases (3)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
1
DB identifier
Status
Role
Engine
Region & AZ
awseb-e-ph3mmfby9d-stack-awsebrdsdatabase-fzfjbmqmmzuj
Available
Instance
MySQL Community
us-east-1f
myphpproject
Blue
Available
Primary
MySQL Community
us-east-1f
bluegreenphpdeployment
Provisioning
Blue/Green Deployment
-
-
CloudShell
Feedback
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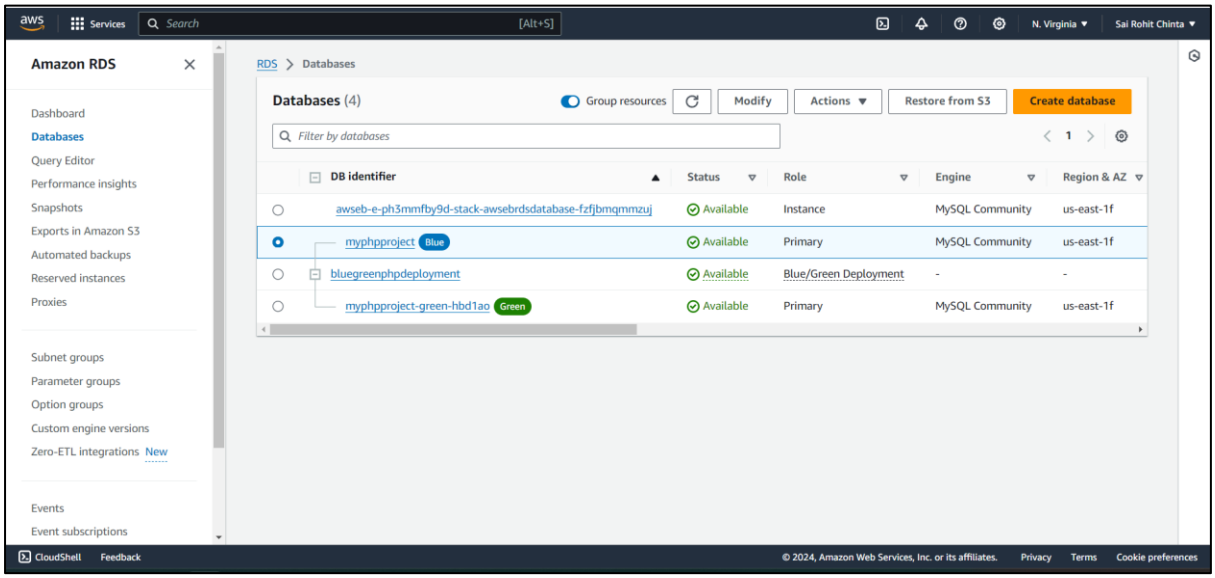
aws
Services
Search
[Alt+S]
N. Virginia
Sai Rohit Chinta
Amazon RDS
Dashboard
Databases
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Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
RDS > Databases
Databases (4)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
1
DB identifier
Status
Role
Engine
Region & AZ
awseb-e-ph3mmfby9d-stack-awsebrdsdatabase-fzfjbmqmmzuj
Available
Instance
MySQL Community
us-east-1f
myphpproject
Blue
Available
Primary
MySQL Community
us-east-1f
bluegreenphpdeployment
Available
Blue/Green Deployment
-
-
myphpproject-green-hbd1ao
Green
Available
Primary
MySQL Community
us-east-1f
CloudShell
Feedback
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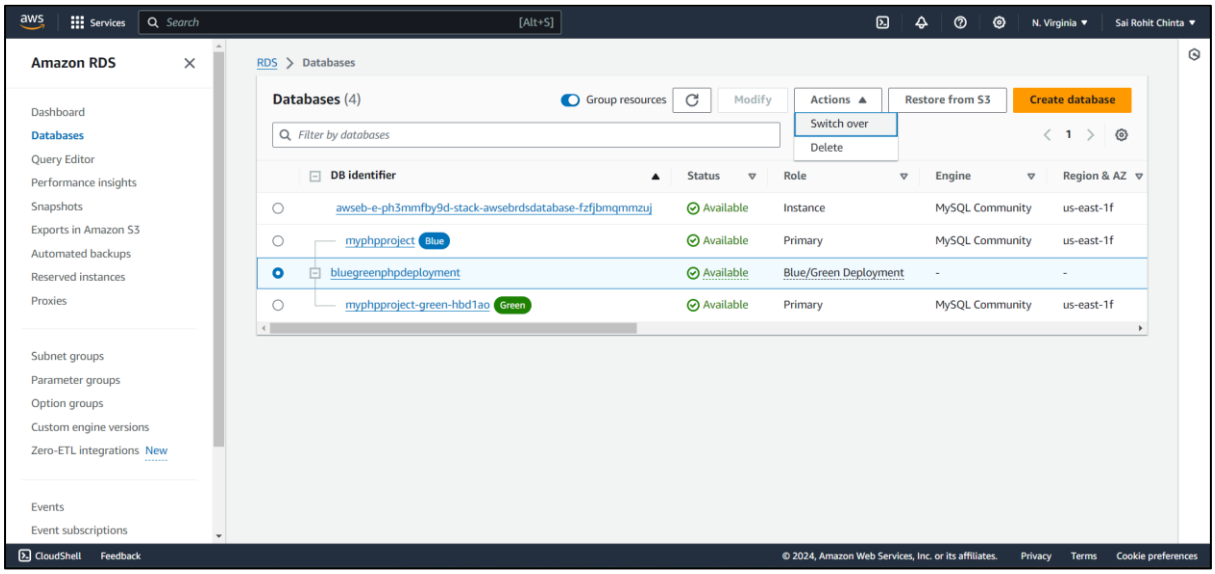
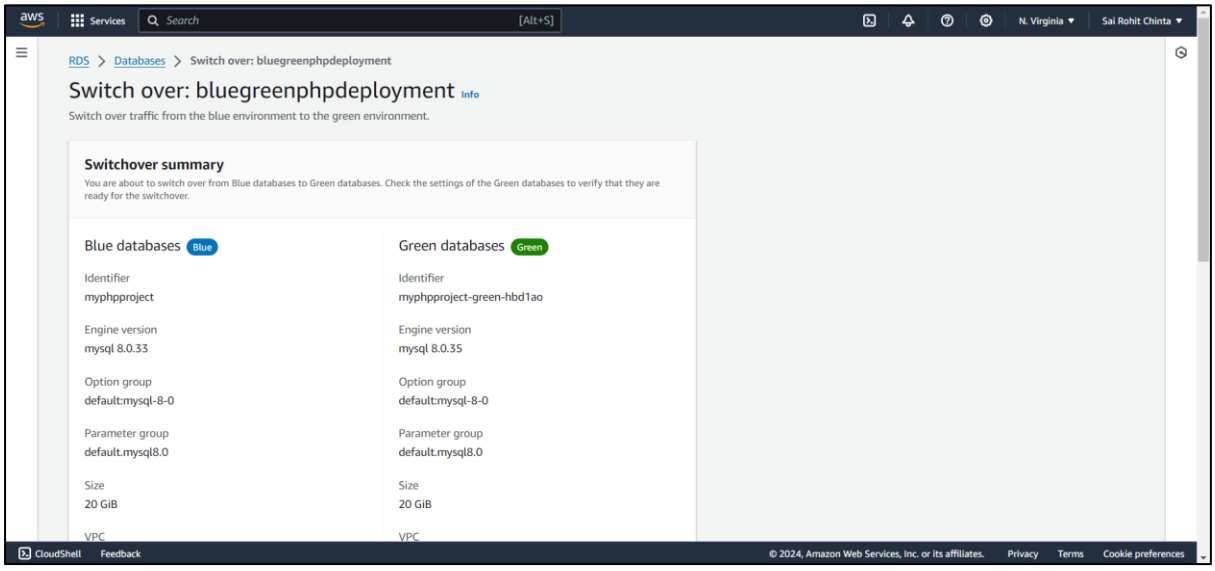
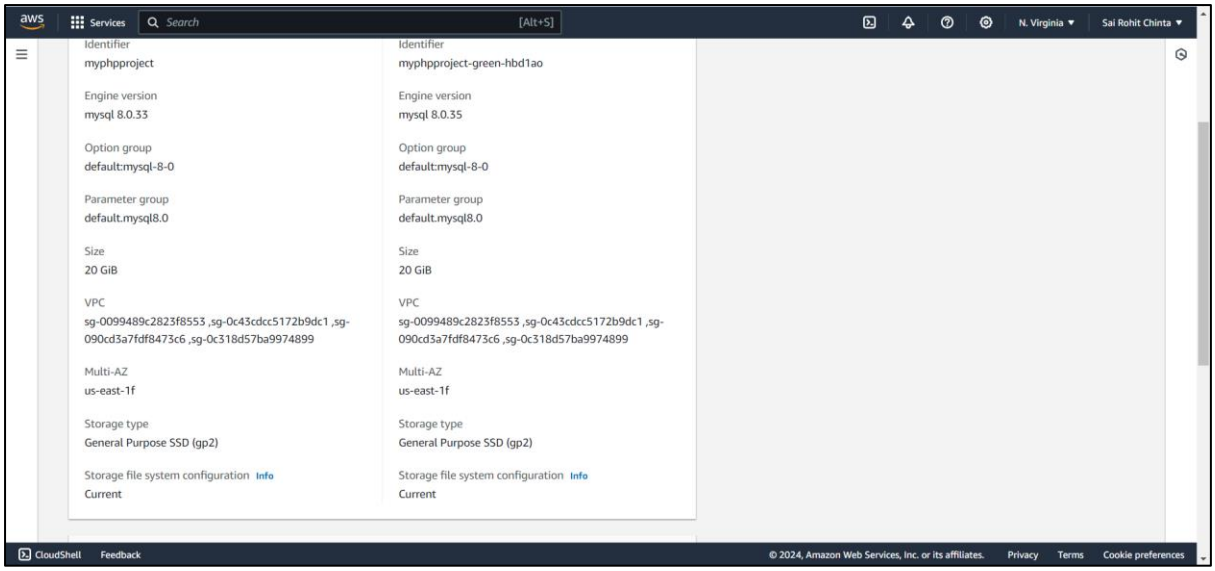
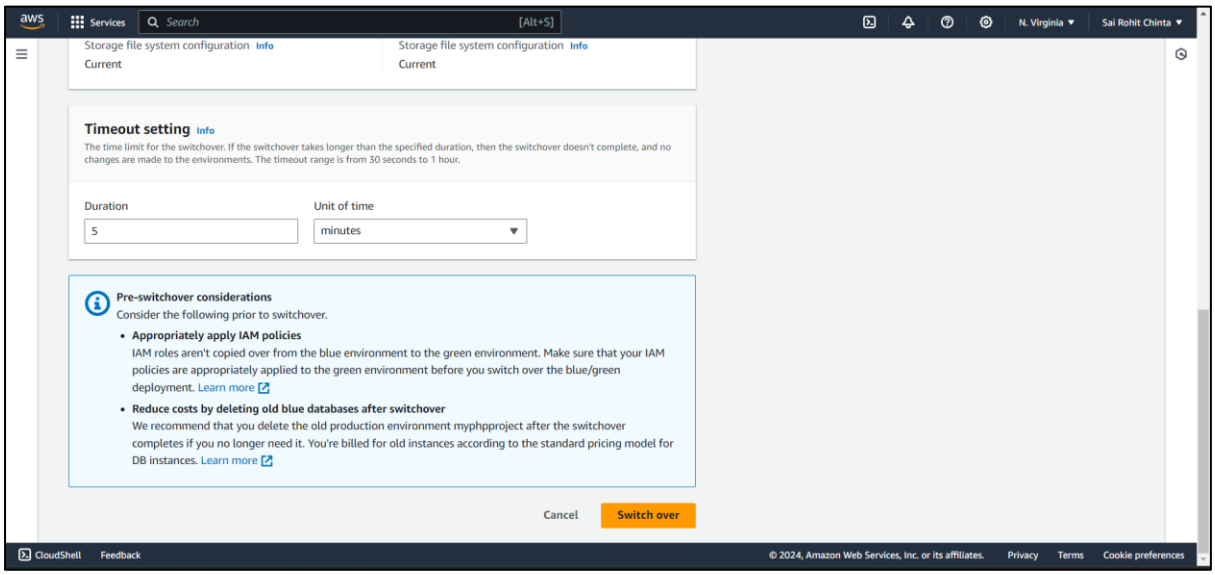
**Step-10:** Now perform switch over option so that

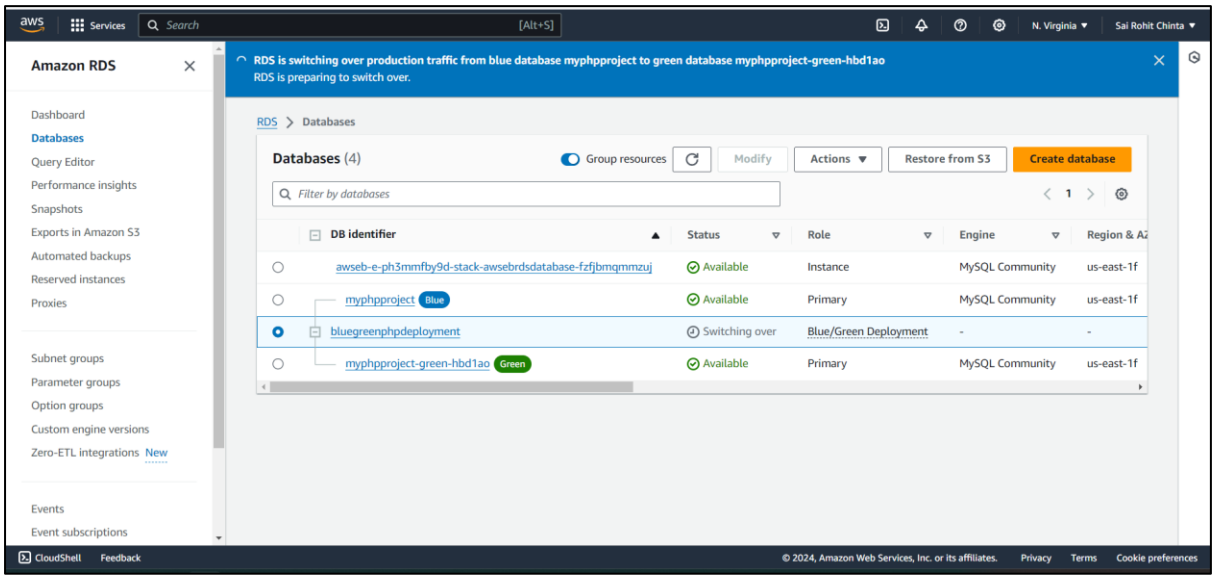
- Blue deployment has mysql version 8.0.35
- Green deployment has mysql version 8.0.35

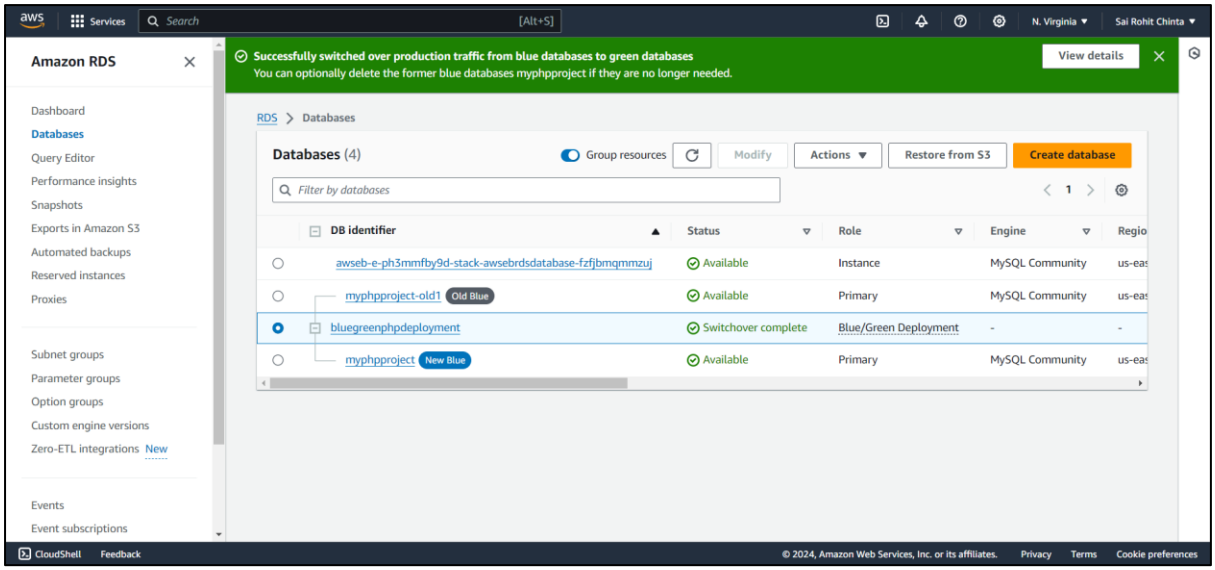



Identifier
myphpproject
Engine version
mysql 8.0.33
Option group
default:mysql-8-0
Parameter group
default.mysql8.0
Size
20 GiB
VPC
sg-0099489c2823f8553 ,sg-0c43cdcc5172b9dc1 ,sg-090cd3a7fdf8473c6 ,sg-0c318d57ba9974899
Multi-AZ
us-east-1f
Storage type
General Purpose SSD (gp2)
Storage file system configuration Info
Current
Identifier
myphpproject-green-hbd1ao
Engine version
mysql 8.0.35
Option group
default:mysql-8-0
Parameter group
default.mysql8.0
Size
20 GiB
VPC
sg-0099489c2823f8553 ,sg-0c43cdcc5172b9dc1 ,sg-090cd3a7fdf8473c6 ,sg-0c318d57ba9974899
Multi-AZ
us-east-1f
Storage type
General Purpose SSD (gp2)
Storage file system configuration Info
Current

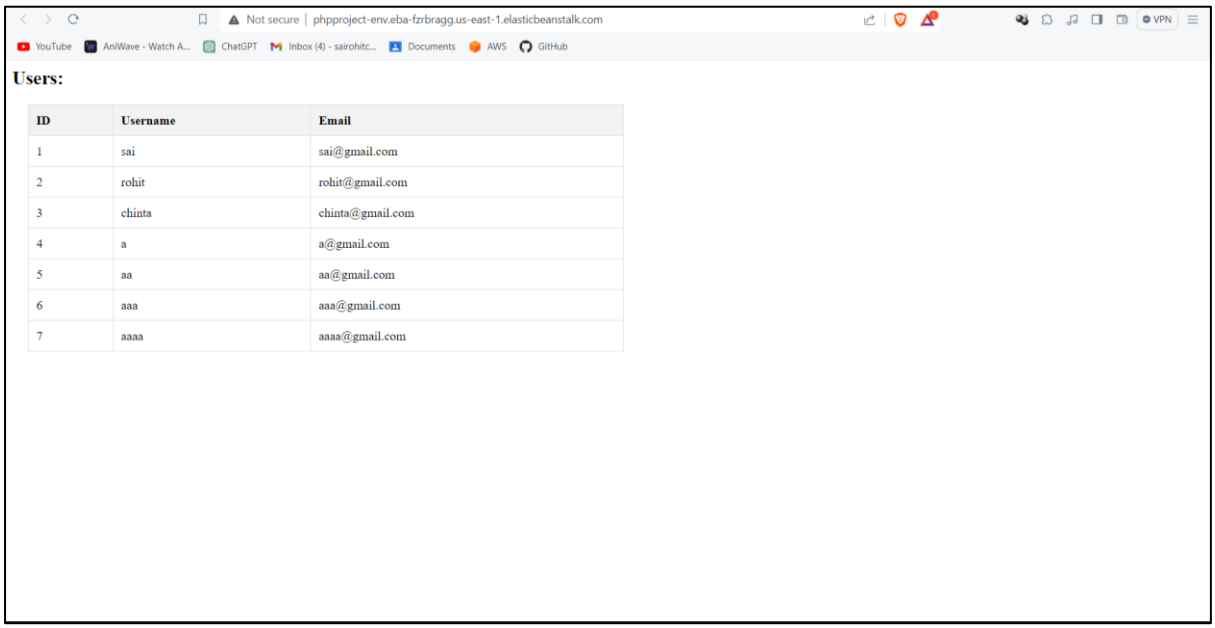

Timeout setting Info
The time limit for the switchover. If the switchover takes longer than the specified duration, then the switchover doesn't complete, and no changes are made to the environments. The timeout range is from 30 seconds to 1 hour.
Duration
5
Unit of time
minutes
Pre-switchover considerations
Consider the following prior to switchover.
Appropriately apply IAM policies
IAM roles aren't copied over from the blue environment to the green environment. Make sure that your IAM policies are appropriately applied to the green environment before you switch over the blue/green deployment. Learn more
Reduce costs by deleting old blue databases after switchover
We recommend that you delete the old production environment myphpproject after the switchover completes if you no longer need it. You're billed for old instances according to the standard pricing model for DB instances. Learn more
Cancel
Switch over

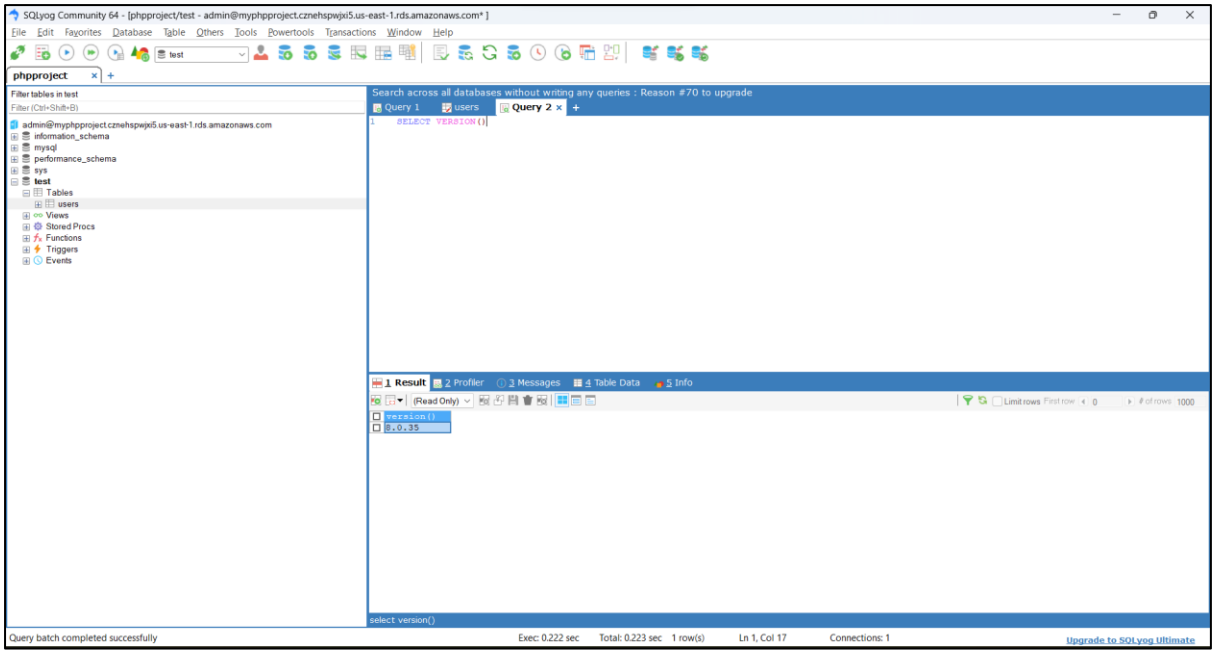

Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
RDS is switching over production traffic from blue database myphpproject to green database myphpproject-green-hbd1ao
RDS is preparing to switch over.
RDS > Databases
Databases (4)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
awseb-e-ph3mmfby9d-stack-awsebrdsdatabase-fzfjbmqmmzuj
Available
Instance
MySQL Community
us-east-1f
myphpproject Blue
Available
Primary
MySQL Community
us-east-1f
bluegreenphpdeployment
Switching over
Blue/Green Deployment
-
-
myphpproject-green-hbd1ao Green
Available
Primary
MySQL Community
us-east-1f

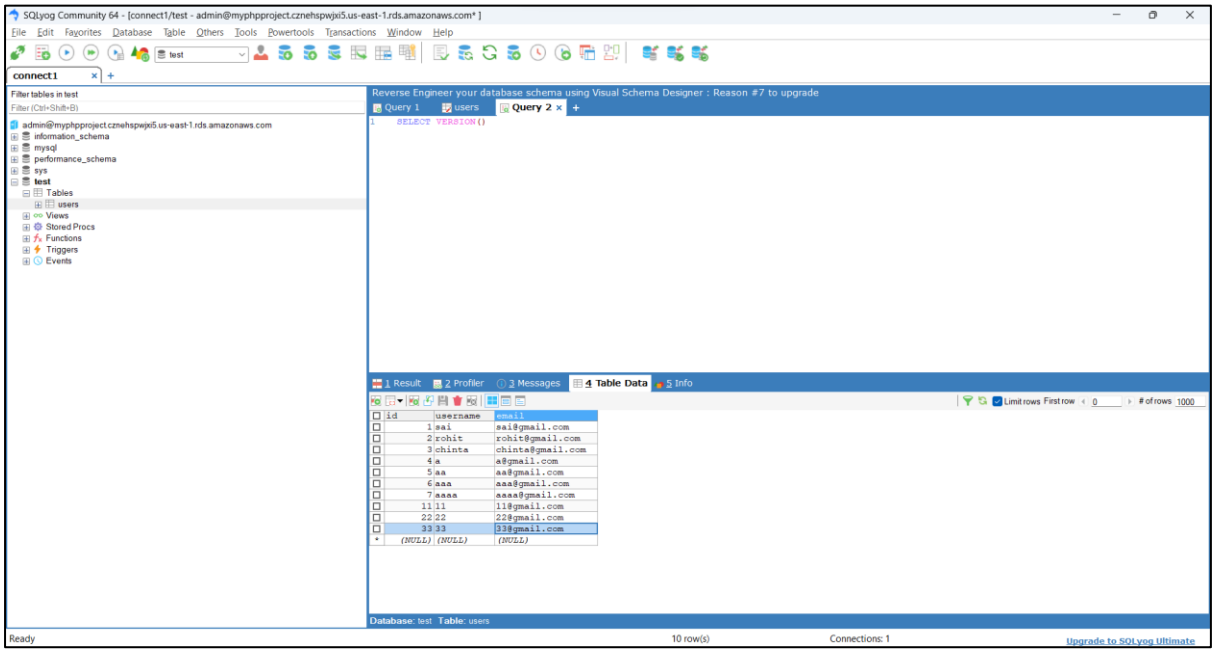


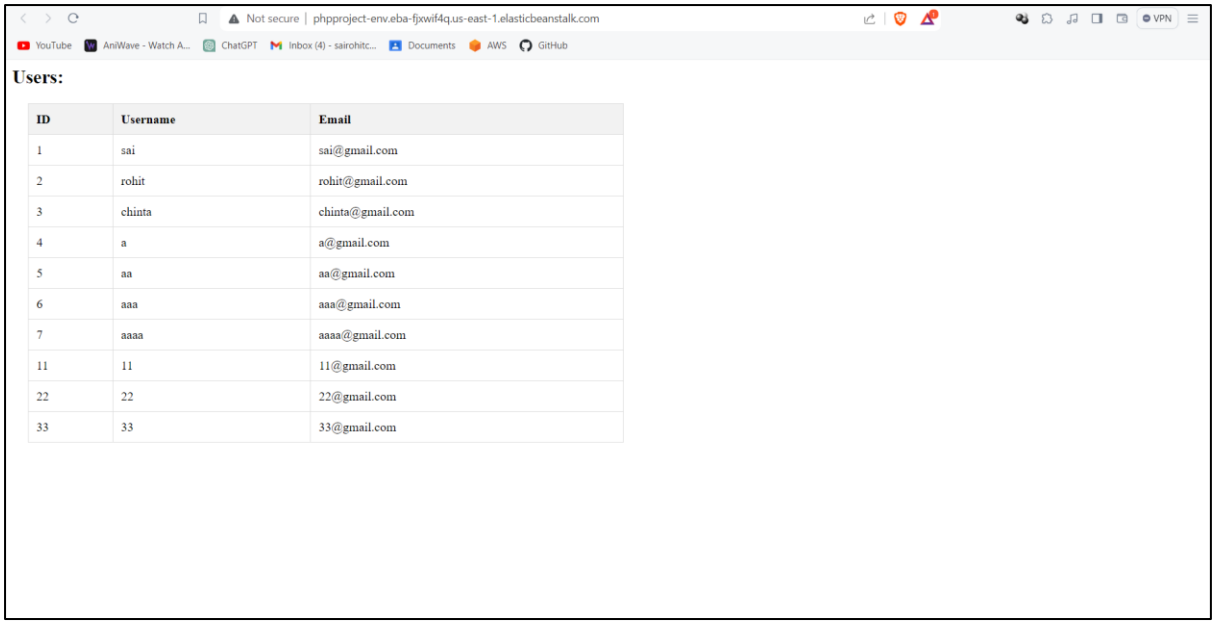

**Step-11:** After the switch over is completed, perform the following operations

- Open the php application to view the data which has 7 records
- Update the db table with 3 more records
- Check the version of mysql db also
- Now again the php application to view the data which has 10 records




SQLyog Community 64 - [phpproject/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com* ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
phpproject
Filter tables in test
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
users
Views
Stored Procs
Functions
Triggers
Events
Search across all databases without writing any queries : Reason #70 to upgrade
Query 1
users
Query 2
SELECT VERSION()
1 Result
2 Profiler
3 Messages
4 Table Data
5 Info
version()
8.0.35
select version()
Query batch completed successfully
Exec: 0.222 sec
Total: 0.223 sec
1 row(s)
Ln 1, Col 17
Connections: 1
Upgrade to SQLyog Ultimate


SQLyog Community 64 - [connect1/test - admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com* ]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
connect1
Filter tables in test
admin@myphpproject.cznehspwjxi5.us-east-1.rds.amazonaws.com
information_schema
mysql
performance_schema
sys
test
Tables
users
Views
Stored Procs
Functions
Triggers
Events
Reverse Engineer your database schema using Visual Schema Designer : Reason #7 to upgrade
Query 1
users
Query 2
SELECT VERSION()
1 Result
2 Profiler
3 Messages
4 Table Data
5 Info
id username email
1 sai sai@gmail.com
2 rohit rohit@gmail.com
3 chinta chinta@gmail.com
4 a a@gmail.com
5 aa aa@gmail.com
6 aaa aaa@gmail.com
7 aaaa aaaa@gmail.com
11 11 11@gmail.com
22 22 22@gmail.com
33 33 33@gmail.com
(NULL) (NULL) (NULL)
Database: test Table: users
Ready
10 row(s)
Connections: 1
Upgrade to SQLyog Ultimate




## Users:

| ID | Username | Email |
|---|---|---|
| 1 | sai | sai@gmail.com |
| 2 | rohit | rohit@gmail.com |
| 3 | chinta | chinta@gmail.com |
| 4 | a | a@gmail.com |
| 5 | aa | aa@gmail.com |
| 6 | aaa | aaa@gmail.com |
| 7 | aaaa | aaaa@gmail.com |
| 11 | 11 | 11@gmail.com |
| 22 | 22 | 22@gmail.com |
| 33 | 33 | 33@gmail.com |