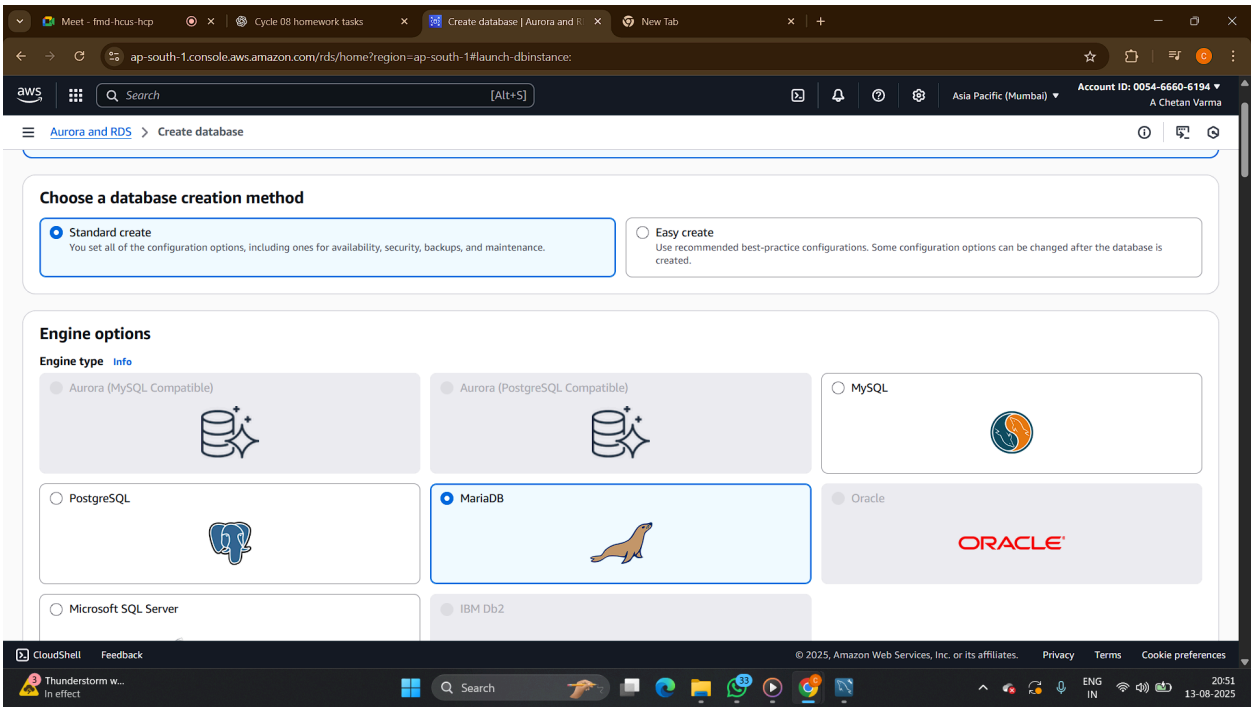
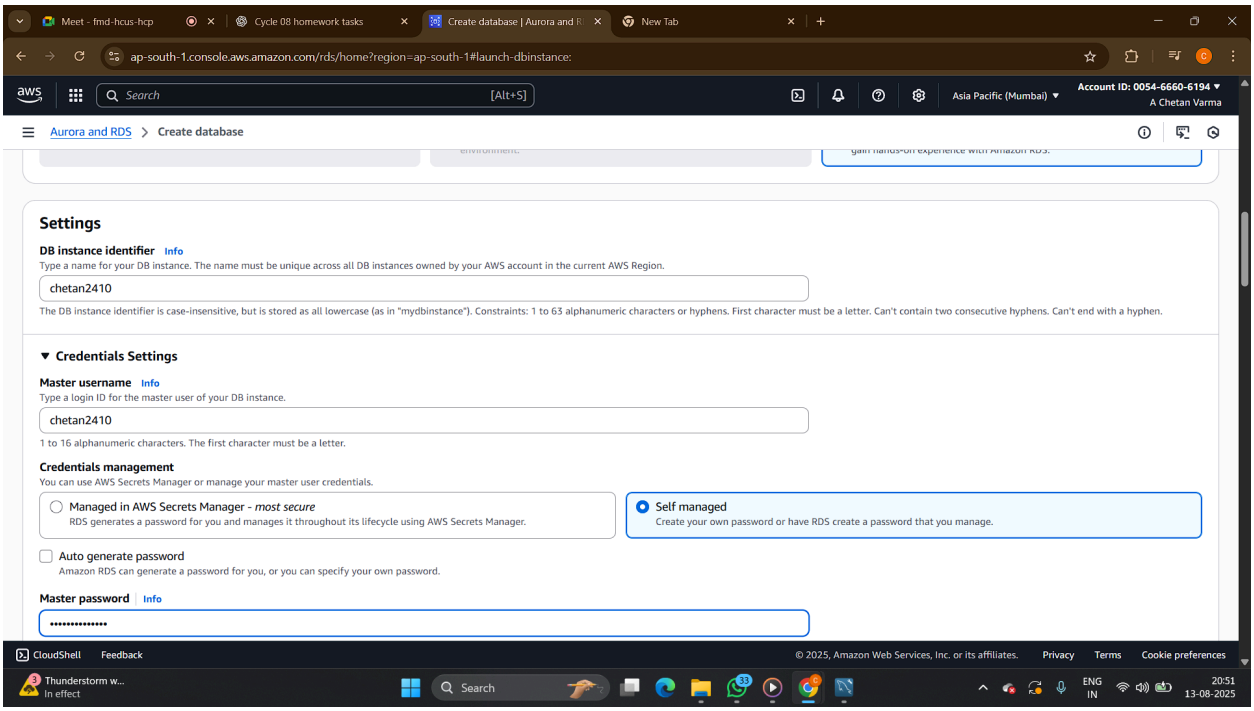
Cycle 08 AWS Homework

1. How to Deploy Databases on AWS RDS

- First, choose the database engine you want: for example, PostgreSQL or MariaDB.
- Use the AWS Console to launch a new RDS instance.
- Configure networking so your computer can connect to the database. This might involve setting up a "security group" to allow network access from your IP address.
- AWS will provide a unique "endpoint" (a URL). In your database client (like PGAdmin for PostgreSQL or MySQL Workbench for MariaDB), use this endpoint along with your database username and password to connect.
- Once connected, test basic queries like creating a table, inserting a record, and selecting data. This proves your setup works.




Meet - fmd-hcus-hcp
Cycle 08 homework tasks
Create database | Aurora and R
New Tab
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
A Chetan Varma
Aurora and RDS > Create database
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.
chetan2410
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 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.
chetan2410
1 to 16 alphanumeric characters. The first character must be a letter.
Credentials management
You can use AWS Secrets Manager or manage your master user credentials.
Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
Self managed
Create your own password or have RDS create a password that you manage.
Auto generate password
Amazon RDS can generate a password for you, or you can specify your own password.
Master password Info
CloudShell
Feedback
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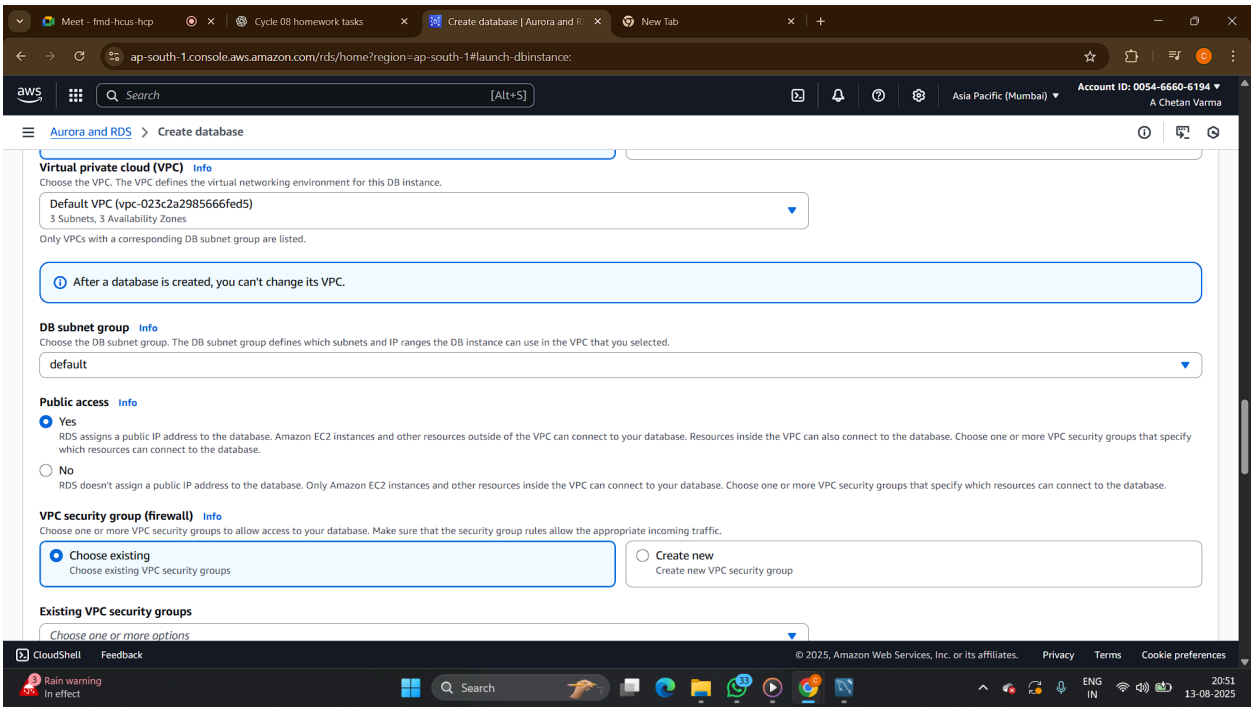
Terms
Cookie preferences
Thunderstorm w...
In effect
Search
ENG
IN
20:51
13-08-2025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Cycle 08 homework tasks
Create database | Aurora and R
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ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
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Aurora and RDS > Create database
Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.
Default VPC (vpc-023c2a2985666fed5)
3 Subnets, 3 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.
default
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
CloudShell
Feedback
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Rain warning
In effect
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ENG
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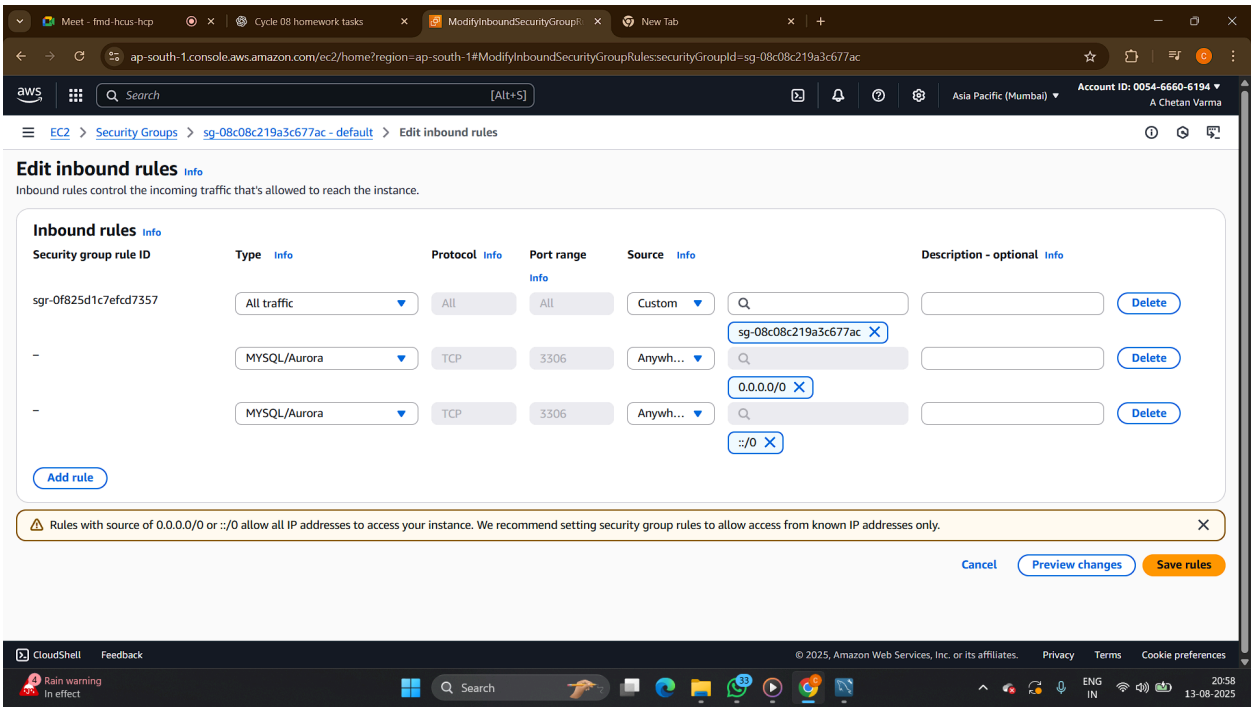
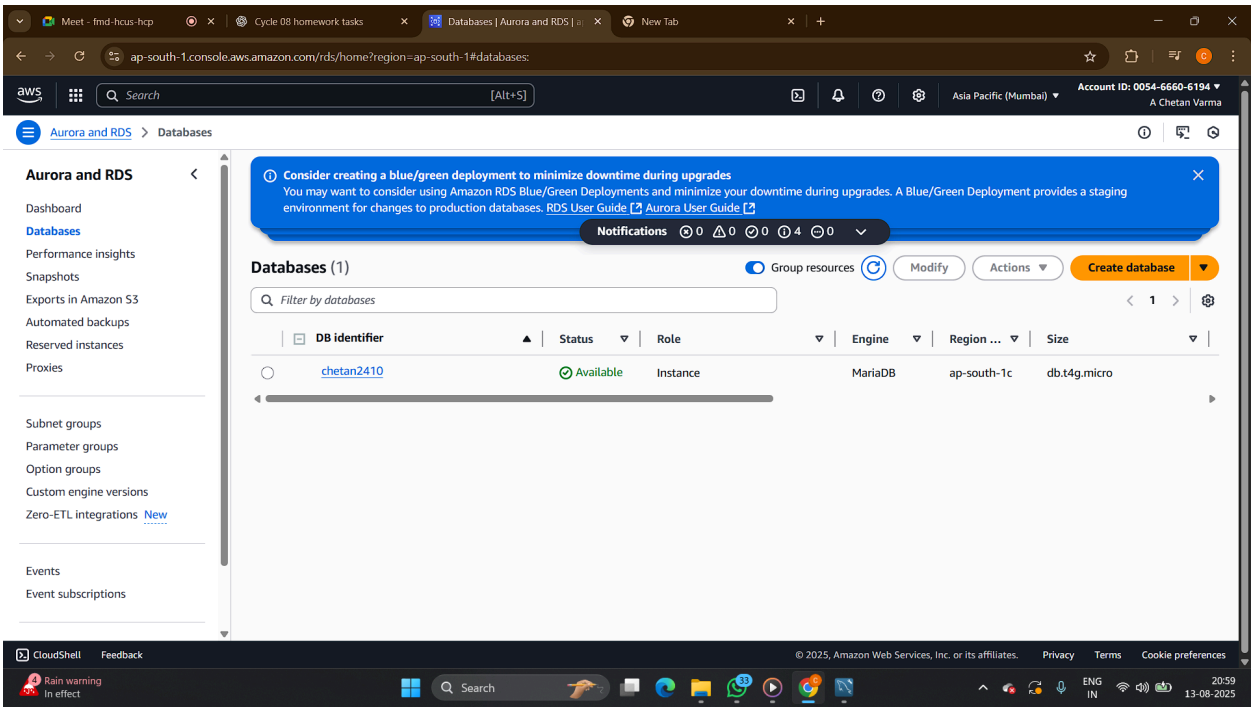
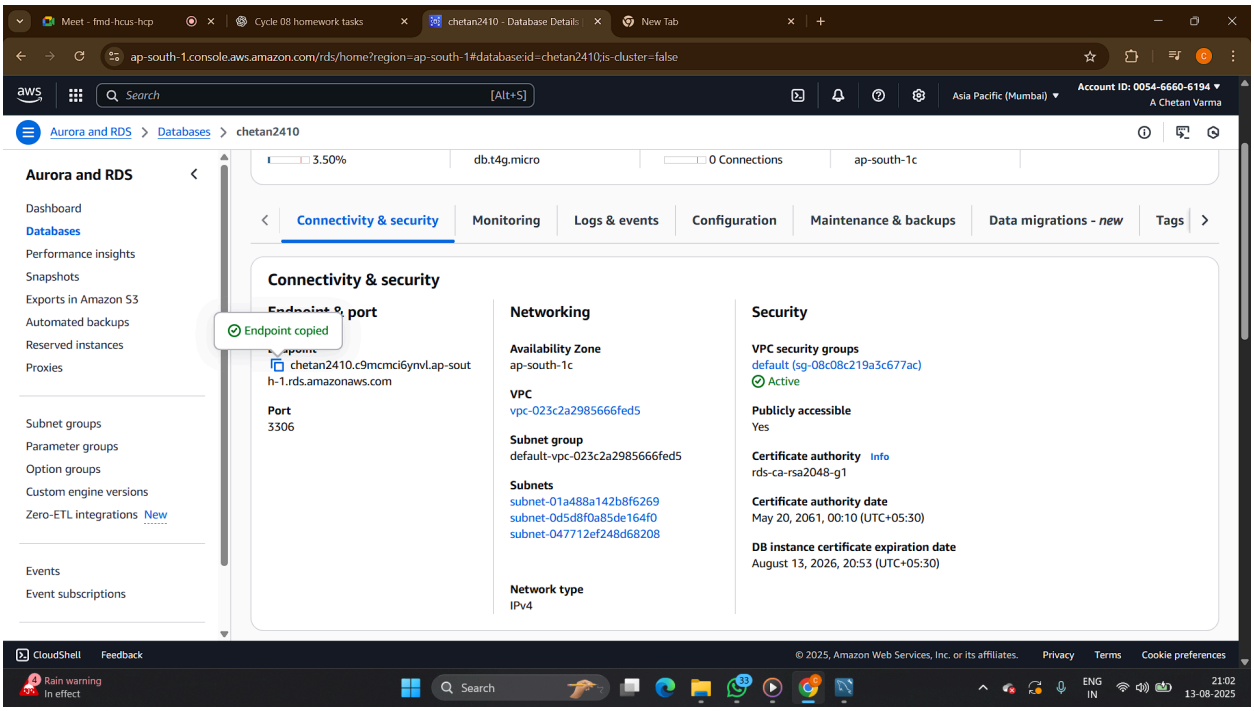

Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0f825d1c7efcd7357
All traffic
Custom
sg-08c08c219a3c677ac
MYSQL/Aurora
TCP
3306
Anywh...
0.0.0.0/0
MYSQL/Aurora
TCP
3306
Anywh...
::/0
Delete
Add rule
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Cancel
Preview changes
Save rules


Aurora and RDS
Dashboard
Databases
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
Consider creating a blue/green deployment to minimize downtime during upgrades
Databases (1)
Group resources
Modify
Actions
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region ...
Size
chetan2410
Available
Instance
MariaDB
ap-south-1c
db.t4g.micro


Meet - fmd-hcus-hcp
Cycle 08 homework tasks
chetan2410 - Database Details
New Tab
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#database:id=chetan2410;is-cluster=false
Search
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Aurora and RDS > Databases > chetan2410
Aurora and RDS
Dashboard
Databases
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
3.50%
db.t4g.micro
0 Connections
ap-south-1c
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Data migrations - new
Tags
Connectivity & security
Endpoint copied
chetan2410.c9mcmci6ynvl.ap-south-1.rds.amazonaws.com
Port
3306
Networking
Availability Zone
ap-south-1c
VPC
vpc-023c2a2985666fed5
Subnet group
default-vpc-023c2a2985666fed5
Subnets
subnet-01a488a142b8f6269
subnet-0d5d8f0a85de164f0
subnet-047712ef248d68208
Network type
IPv4
Security
VPC security groups
default (sg-08c08c219a3c677ac)
Active
Publicly accessible
Yes
Certificate authority Info
rds-ca-rsa2048-g1
Certificate authority date
May 20, 2061, 00:10 (UTC+05:30)
DB instance certificate expiration date
August 13, 2026, 20:53 (UTC+05:30)
CloudShell
Feedback
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Rain warning
In effect
Search
ENG
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21:02
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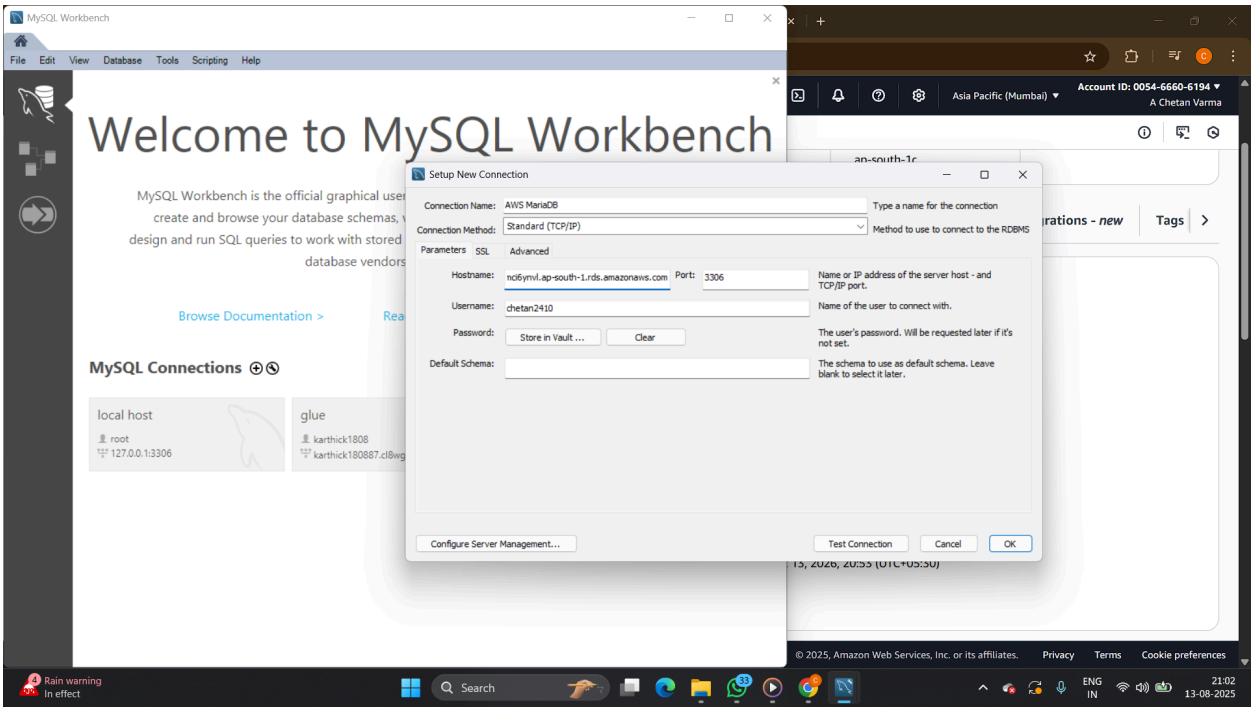
MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical user
create and browse your database schemas,
design and run SQL queries to work with stored
database vendors
Browse Documentation >
MySQL Connections
local host
root
127.0.0.1:3306
glue
karthick1808
Setup New Connection
Connection Name: AWS MariaDB
Type a name for the connection
Connection Method: Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters SSL Advanced
Hostname: nci6ynvl.ap-south-1.rds.amazonaws.com Port: 3306
Name or IP address of the server host - and TCP/IP port.
Username: chetan2410
Name of the user to connect with.
Password: Store in Vault ... Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
Configure Server Management...
Test Connection
Cancel
OK
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
A Chetan Varma
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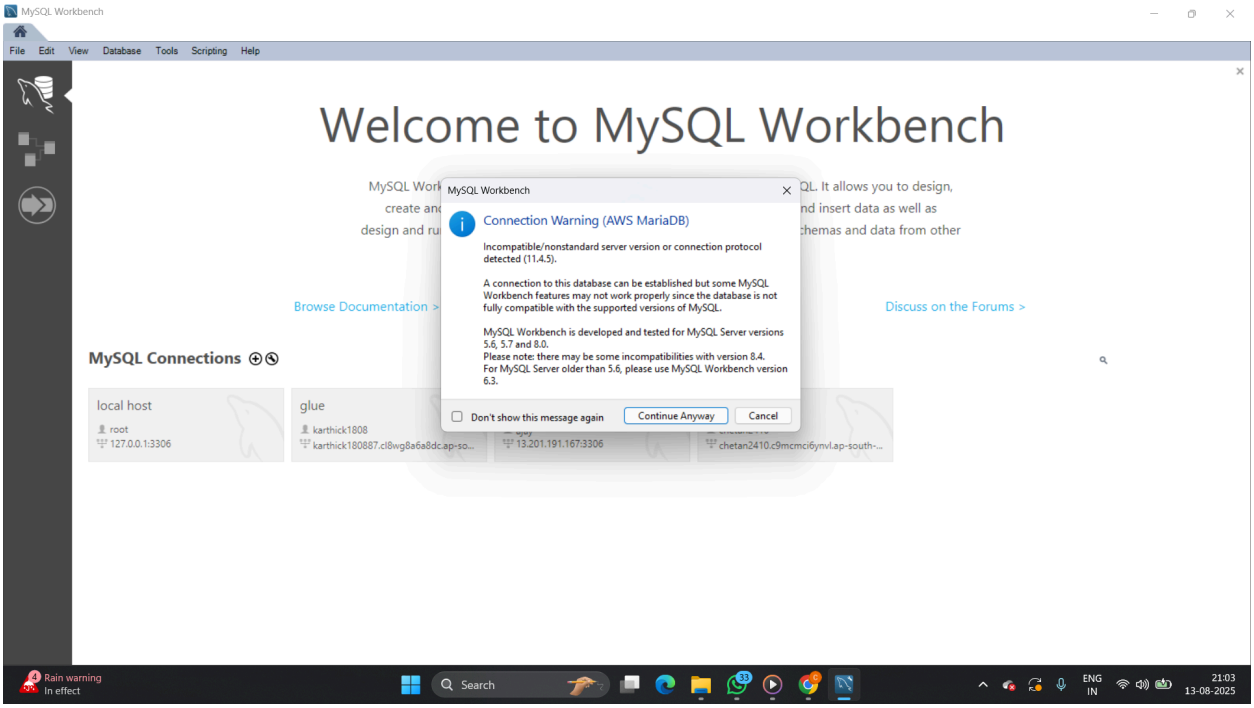
MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Connections
local host
root
127.0.0.1:3306
glue
karthick1808
MySQL Workbench
Connection Warning (AWS MariaDB)
Incompatible/nonstandard server version or connection protocol detected (11.4.5).
A connection to this database can be established but some MySQL Workbench features may not work properly since the database is not fully compatible with the supported versions of MySQL.
MySQL Workbench is developed and tested for MySQL Server versions 5.6, 5.7 and 8.0.
Please note: there may be some incompatibilities with version 8.4.
For MySQL Server older than 5.6, please use MySQL Workbench version 6.3.
Don't show this message again
Continue Anyway
Cancel
Rain warning
In effect
Search
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21:03
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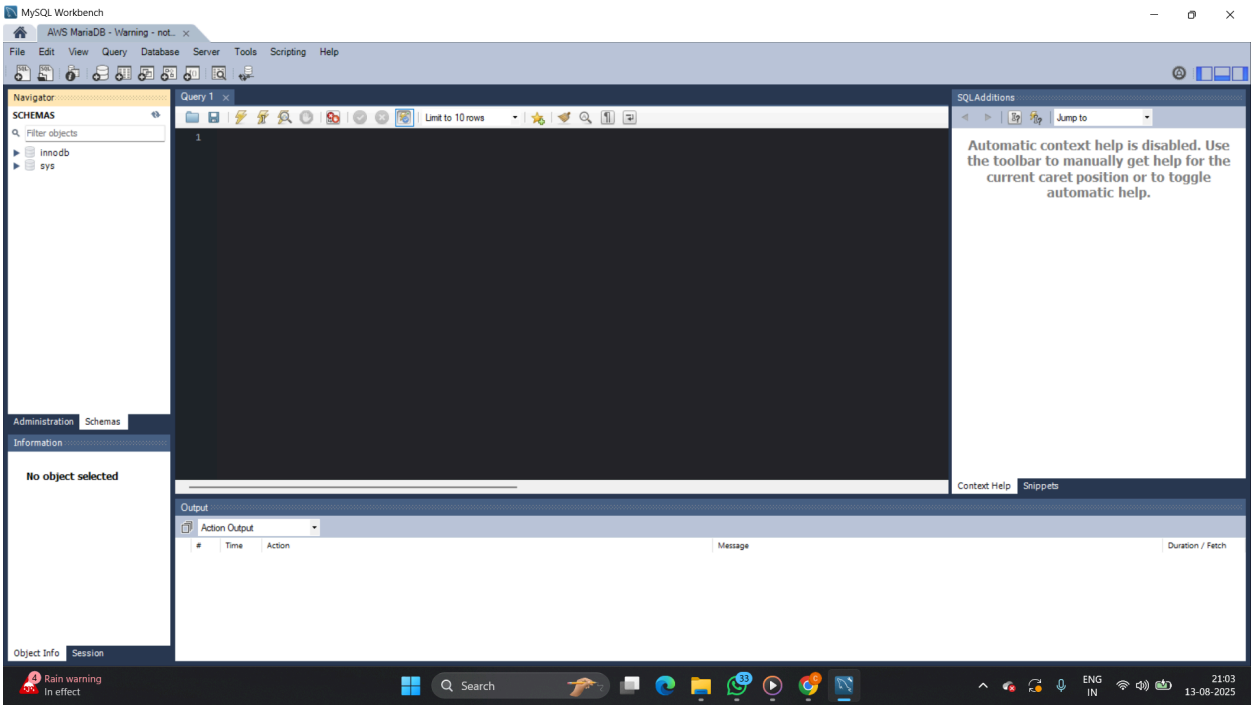
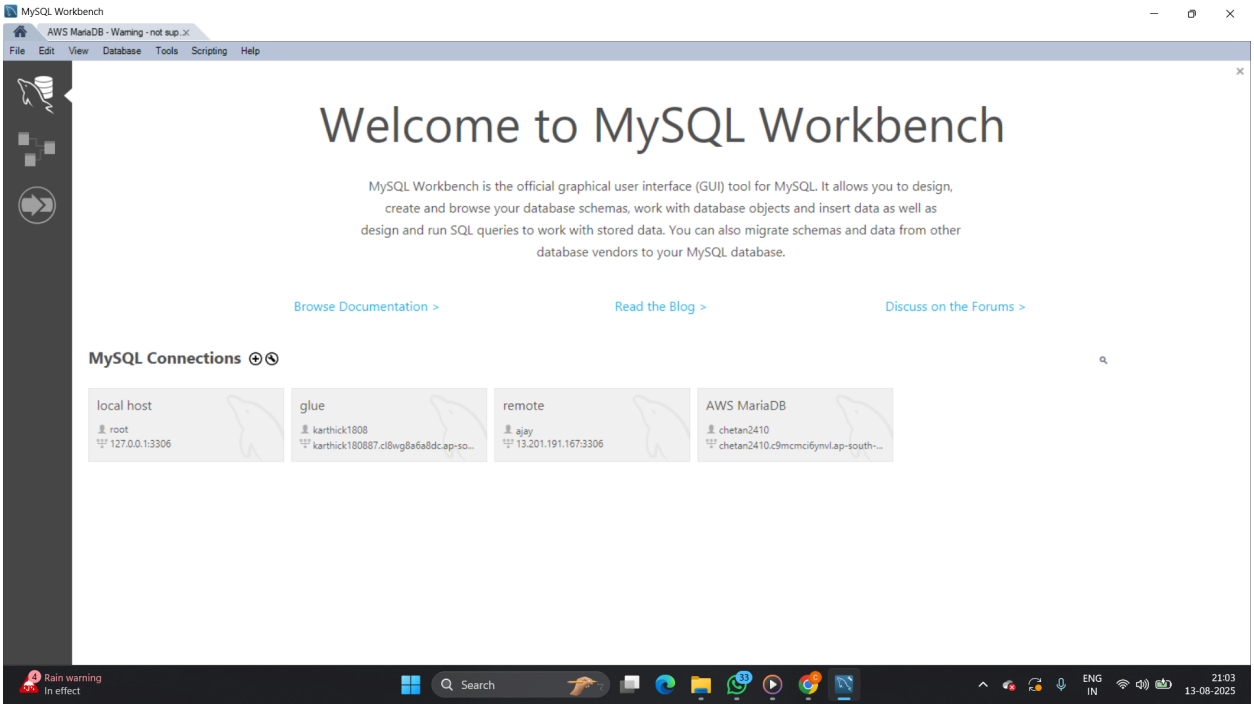
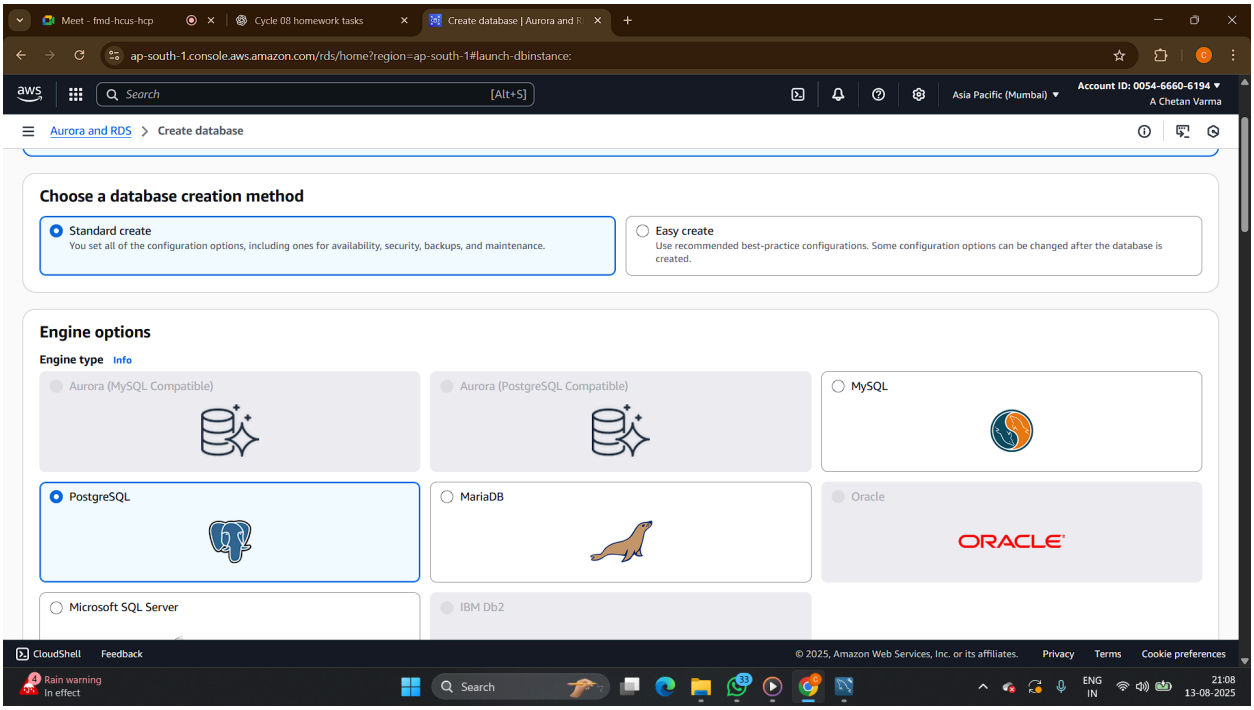

MySQL Workbench
AWS MariaDB - Warning - not...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
innodb
sys
Administration
Schemas
Information
No object selected
Object Info
Session
Query 1
Limit to 10 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help
Snippets
Output
Action Output
Time
Action
Message
Duration / Fetch
Rain warning
In effect
Search
ENG
IN
21:03
13-08-2025


MySQL Workbench
AWS MariaDB - Warning - not sup...
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.
Browse Documentation >
Read the Blog >
Discuss on the Forums >
MySQL Connections
local host
root
127.0.0.1:3306
glue
karthick1808
karthick180887.cl8wg8a6a8dc.ap-so...
remote
ajay
13.201.191.167:3306
AWS MariaDB
chetan2410
chetan2410.c9mcmci6ynvl.ap-south-...
Rain warning
In effect
Search
ENG
IN
21:03
13-08-2025


Meet - fmd-hcus-hcp
Cycle 08 homework tasks
Create database | Aurora and R...
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search
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Account ID: 0054-6660-6194
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Aurora and RDS > Create database
Choose a database creation method
Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.
Engine options
Engine type Info
Aurora (MySQL Compatible)
Aurora (PostgreSQL Compatible)
MySQL
PostgreSQL
MariaDB
Oracle
ORACLE
Microsoft SQL Server
IBM Db2
CloudShell
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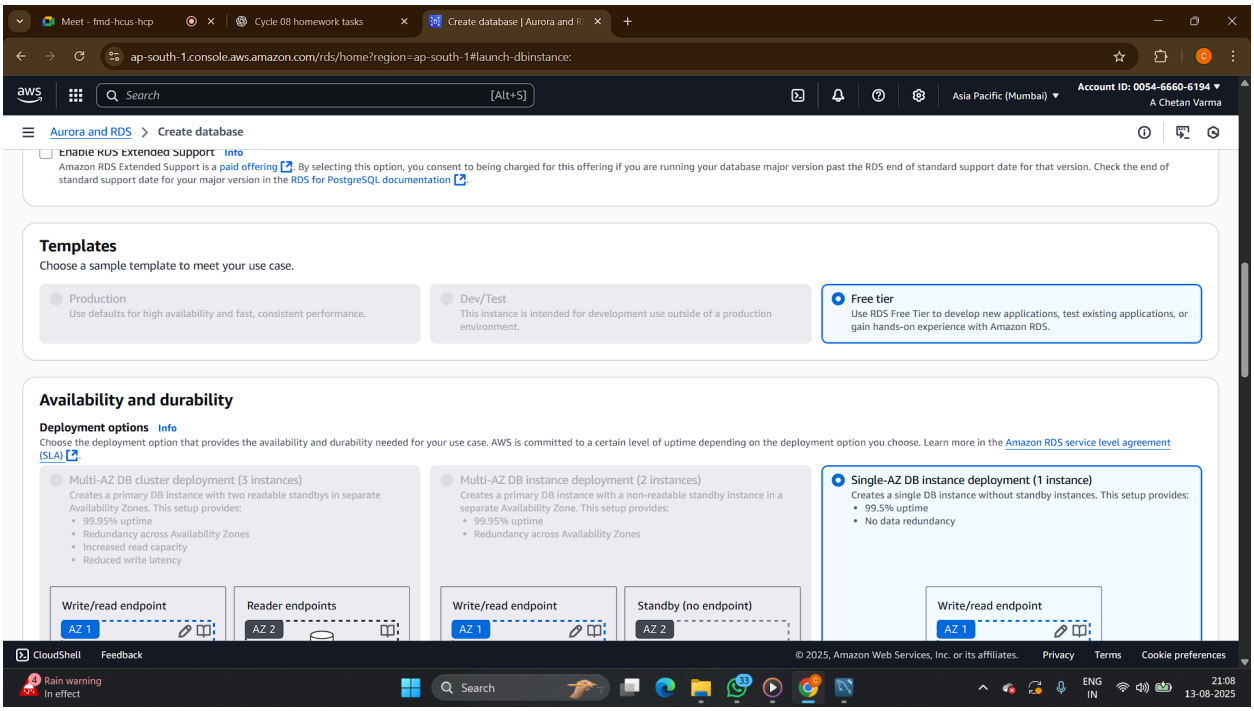
Meet - fmd-hcus-hcp
Cycle 08 homework tasks
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
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Aurora and RDS > Create database
Enable RDS Extended Support Info
Amazon RDS Extended Support is a paid offering. By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the RDS for PostgreSQL documentation.
Templates
Choose a sample template to meet your use case.
Production
Use defaults for high availability and fast, consistent performance.
Dev/Test
This instance is intended for development use outside of a production environment.
Free tier
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
Availability and durability
Deployment options Info
Choose the deployment option that provides the availability and durability needed for your use case. AWS is committed to a certain level of uptime depending on the deployment option you choose. Learn more in the Amazon RDS service level agreement (SLA).
Multi-AZ DB cluster deployment (3 instances)
Creates a primary DB instance with two readable standbys in separate Availability Zones. This setup provides:
99.95% uptime
Redundancy across Availability Zones
Increased read capacity
Reduced write latency
Write/read endpoint
AZ 1
Reader endpoints
AZ 2
Multi-AZ DB instance deployment (2 instances)
Creates a primary DB instance with a non-readable standby instance in a separate Availability Zone. This setup provides:
99.95% uptime
Redundancy across Availability Zones
Write/read endpoint
AZ 1
Standby (no endpoint)
AZ 2
Single-AZ DB instance deployment (1 instance)
Creates a single DB instance without standby instances. This setup provides:
99.5% uptime
No data redundancy
Write/read endpoint
AZ 1
CloudShell
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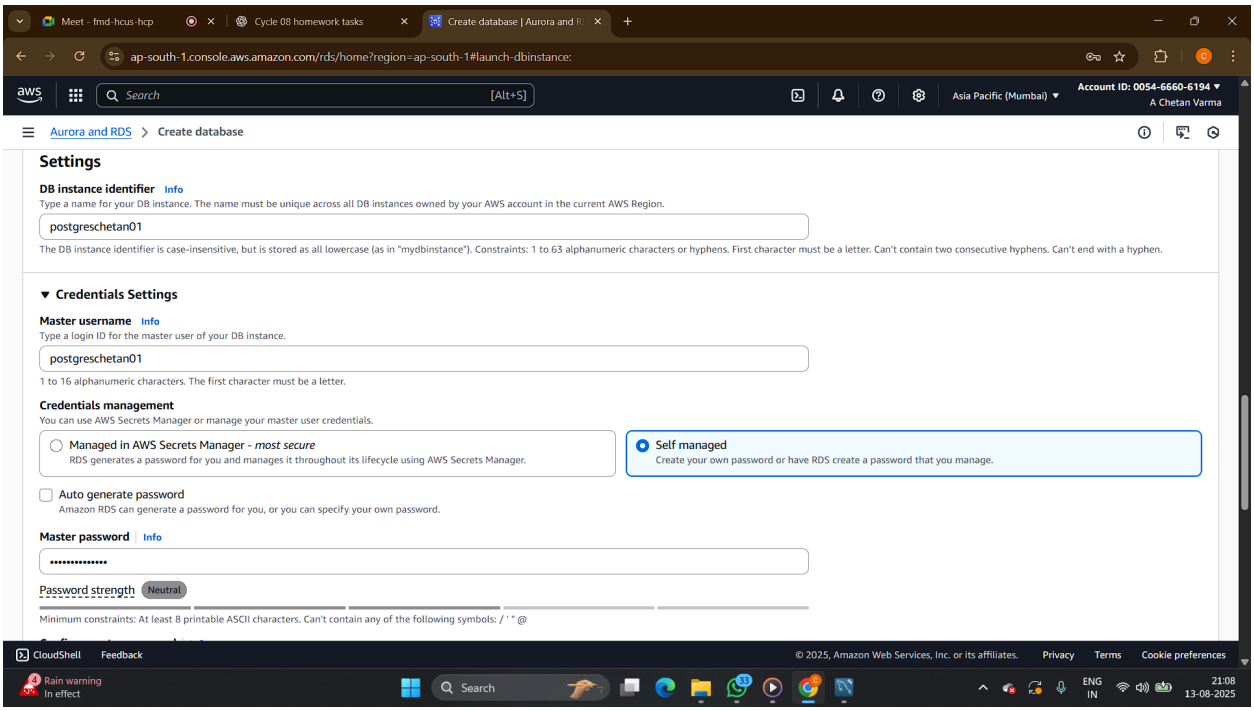
Meet - fmd-hcus-hcp
Cycle 08 homework tasks
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
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Aurora and RDS > Create database
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.
postgreschetan01
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 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.
postgreschetan01
1 to 16 alphanumeric characters. The first character must be a letter.
Credentials management
You can use AWS Secrets Manager or manage your master user credentials.
Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
Self managed
Create your own password or have RDS create a password that you manage.
Auto generate password
Amazon RDS can generate a password for you, or you can specify your own password.
Master password Info
Password strength
Neutral
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @
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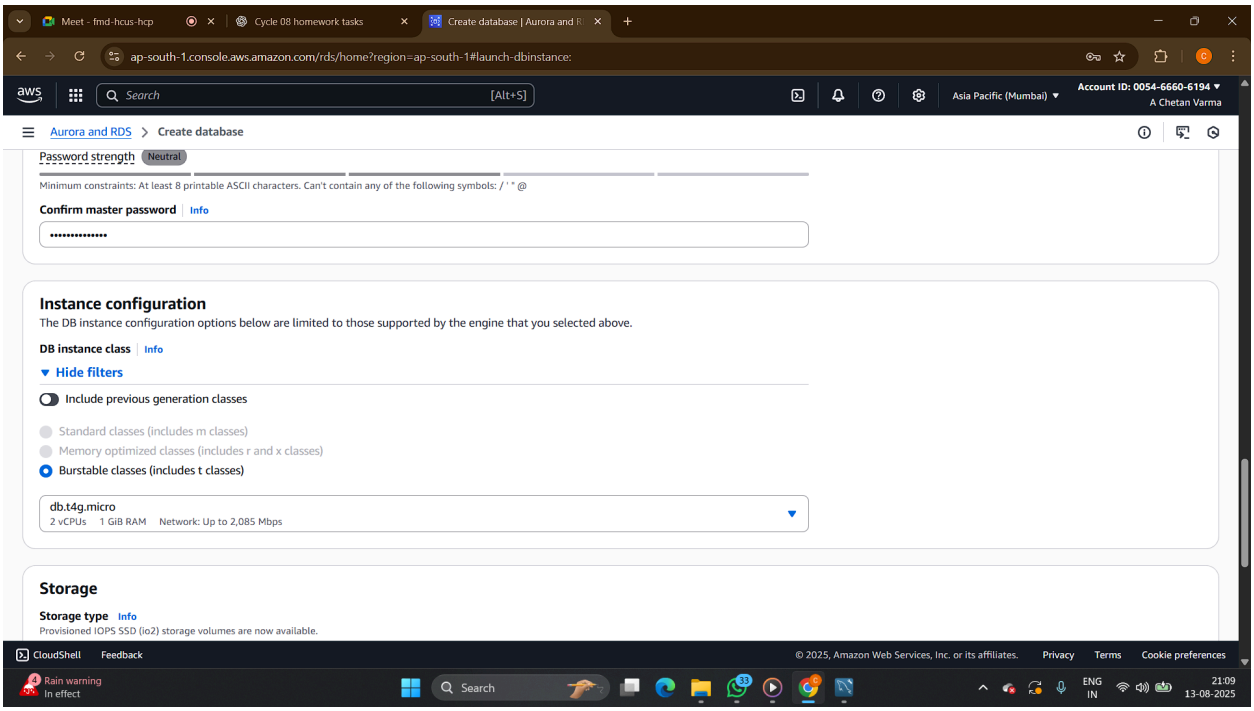
Meet - fmd-hcus-hcp
Cycle 08 homework tasks
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
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Aurora and RDS > Create database
Password strength Neutral
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @
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
Include previous generation classes
Standard classes (includes m classes)
Memory optimized classes (includes r and x classes)
Burstable classes (includes t classes)
db.t4g.micro
2 vCPUs 1 GiB RAM Network: Up to 2,085 Mbps
Storage
Storage type Info
Provisioned IOPS SSD (io2) storage volumes are now available.
CloudShell Feedback
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21:09
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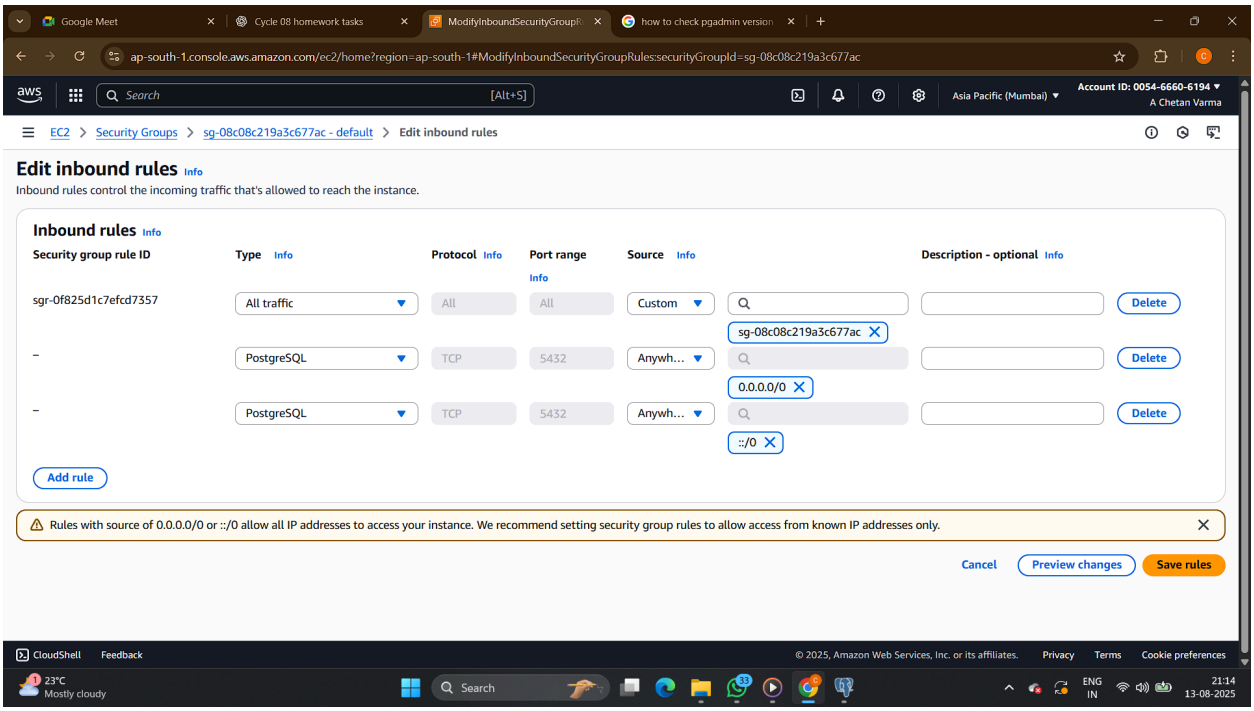
Google Meet
Cycle 08 homework tasks
ModifyInboundSecurityGroupR
how to check pgadmin version
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-08c08c219a3c677ac
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 0054-6660-6194
A Chetan Varma
EC2 > Security Groups > sg-08c08c219a3c677ac - default > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0f825d1c7efcd7357
All traffic
All
All
Custom
sg-08c08c219a3c677ac
Delete
PostgreSQL
TCP
5432
Anywh...
0.0.0.0/0
Delete
PostgreSQL
TCP
5432
Anywh...
::/0
Delete
Add rule
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Cancel
Preview changes
Save rules
CloudShell Feedback
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23°C
Mostly cloudy
Search
ENG
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21:14
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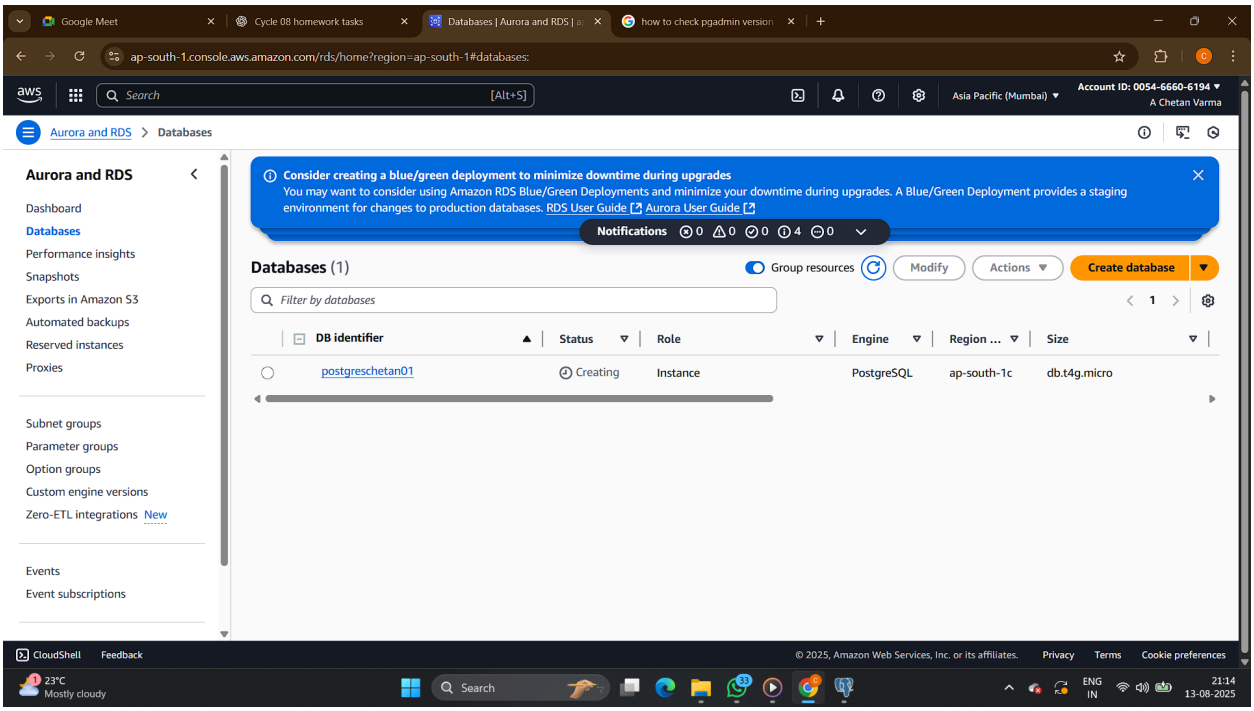
Google Meet
Cycle 08 homework tasks
Databases | Aurora and RDS
how to check pgadmin version
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:
Search [Alt+S]
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Aurora and RDS > Databases
Aurora and RDS
Dashboard
Databases
Performance insights
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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
Consider creating a blue/green deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Notifications
Databases (1)
Group resources
Modify
Actions
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region ...
Size
postgreschetan01
Creating
Instance
PostgreSQL
ap-south-1c
db.t4g.micro
CloudShell
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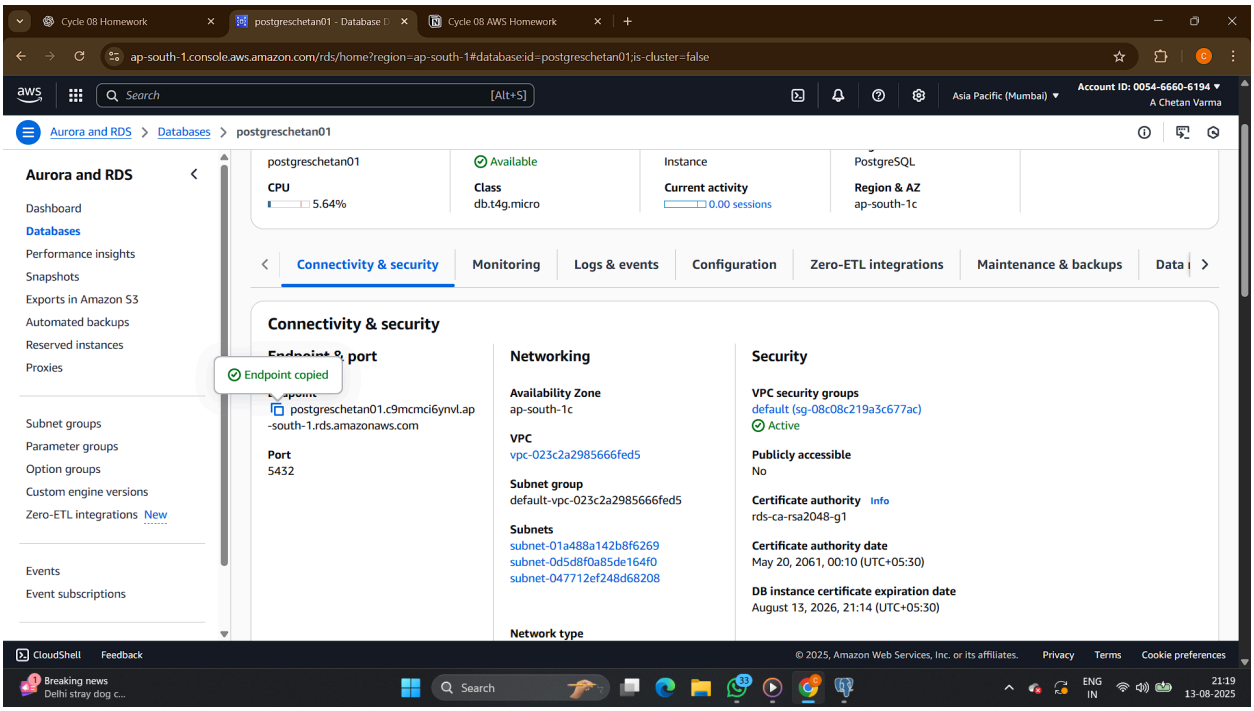
Cycle 08 Homework
postgreschetan01 - Database
Cycle 08 AWS Homework
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#database:id=postgreschetan01;is-cluster=false
Search [Alt+S]
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Account ID: 0054-6660-6194
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Aurora and RDS > Databases > postgreschetan01
Aurora and RDS
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Databases
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
postgreschetan01
Available
Instance
PostgreSQL
CPU
5.64%
Class
db.t4g.micro
Current activity
0.00 sessions
Region & AZ
ap-south-1c
Connectivity & security
Monitoring
Logs & events
Configuration
Zero-ETL integrations
Maintenance & backups
Data
Connectivity & security
Endpoint copied
postgreschetan01.c9mcmci6ynvl.ap-south-1.rds.amazonaws.com
Port
5432
Networking
Availability Zone
ap-south-1c
VPC
vpc-023c2a2985666fed5
Subnet group
default-vpc-023c2a2985666fed5
Subnets
subnet-01a488a142b8f6269
subnet-0d5d8f0a85de164f0
subnet-047712ef248d68208
Network type
Security
VPC security groups
default (sg-08c08c219a3c677ac)
Active
Publicly accessible
No
Certificate authority Info
rds-ca-rsa2048-g1
Certificate authority date
May 20, 2061, 00:10 (UTC+05:30)
DB instance certificate expiration date
August 13, 2026, 21:14 (UTC+05:30)
CloudShell
Feedback
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Privacy
Terms
Cookie preferences
Breaking news
Delhi stray dog c...
Search
ENG
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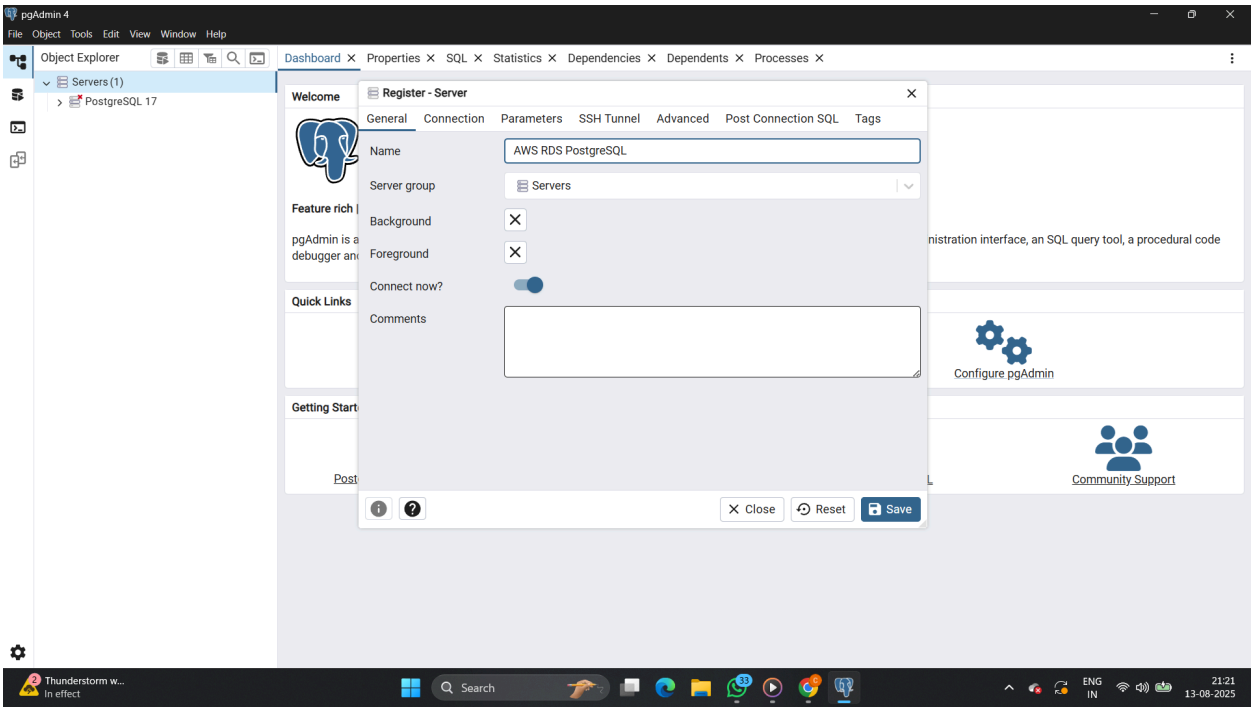
21:19
13-08-2025


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Servers (1)
PostgreSQL 17
Dashboard
Properties
SQL
Statistics
Dependencies
Dependents
Processes
Welcome
Register - Server
General
Connection
Parameters
SSH Tunnel
Advanced
Post Connection SQL
Tags
Name
AWS RDS PostgreSQL
Server group
Servers
Background
Foreground
Connect now?
Comments
Feature rich
Quick Links
Configure pgAdmin
Getting Start
Community Support
Close
Reset
Save
Thunderstorm w...
In effect
Search
ENG
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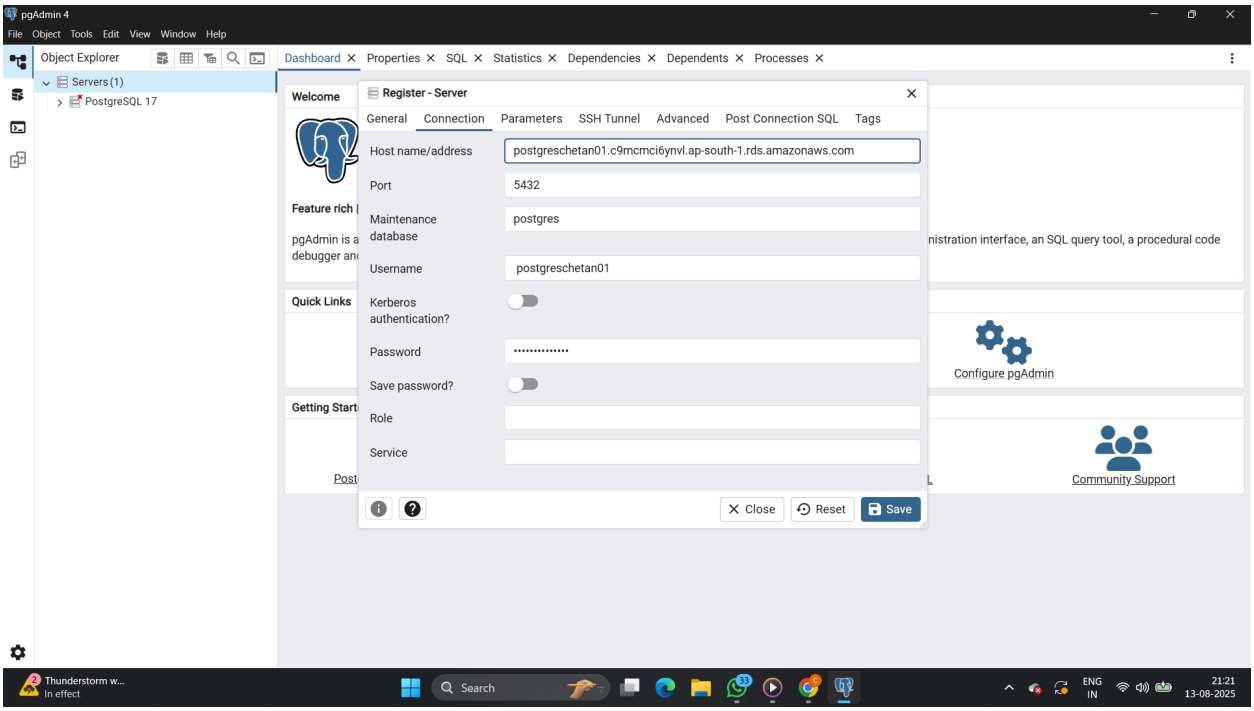
21:21
13-08-2025


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Servers (1)
PostgreSQL 17
Dashboard
Properties
SQL
Statistics
Dependencies
Dependents
Processes
Welcome
Register - Server
General
Connection
Parameters
SSH Tunnel
Advanced
Post Connection SQL
Tags
Host name/address
postgreschetan01.c9mcmci6ynvl.ap-south-1.rds.amazonaws.com
Port
5432
Maintenance database
postgres
Username
postgreschetan01
Kerberos authentication?
Password
Save password?
Role
Service
Feature rich
Quick Links
Configure pgAdmin
Getting Start
Community Support
Close
Reset
Save
Thunderstorm w...
In effect
Search
ENG
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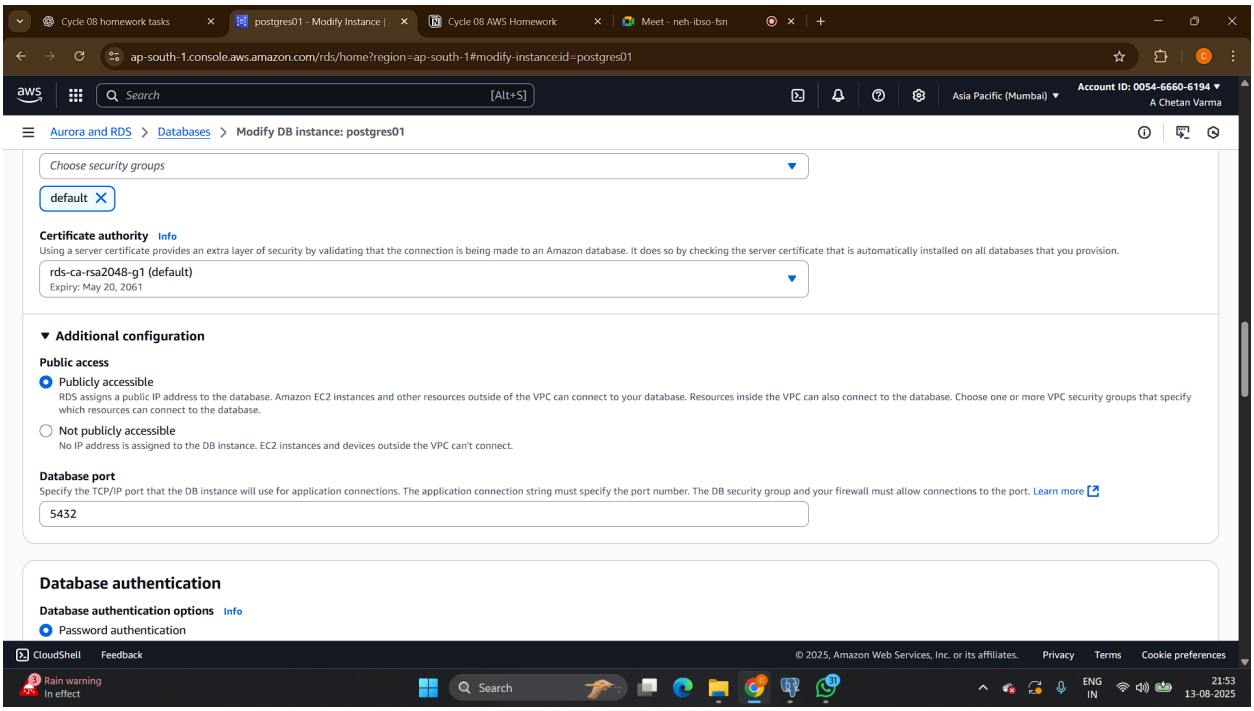
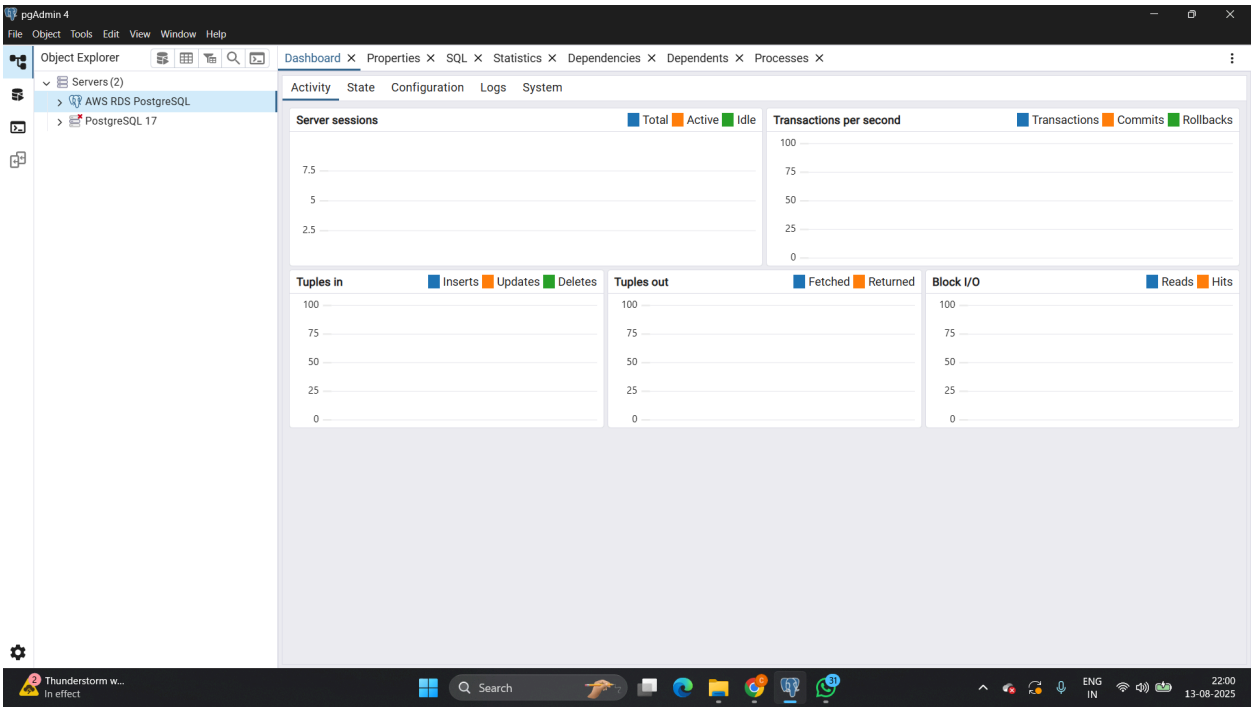
21:21
13-08-2025





2. Aurora Database Testing

- Amazon Aurora is another database option that offers high performance and scalability.

- You can choose Aurora that is MySQL-compatible and set it to testing mode (not free tier, so delete when done to save money).
- With Aurora Serverless, you don’t set a fixed size—it automatically scales up when busy and pauses when idle. You set minimum and maximum capacity.
- Aurora offers two types of endpoints: writer and reader. Writer allows you to make changes (INSERT, UPDATE), while reader is just for getting data (SELECT).
    - Test by running a write operation on the writer endpoint (should work).
    - Attempt a write on the reader endpoint (should fail) and read queries on it (should work).

---

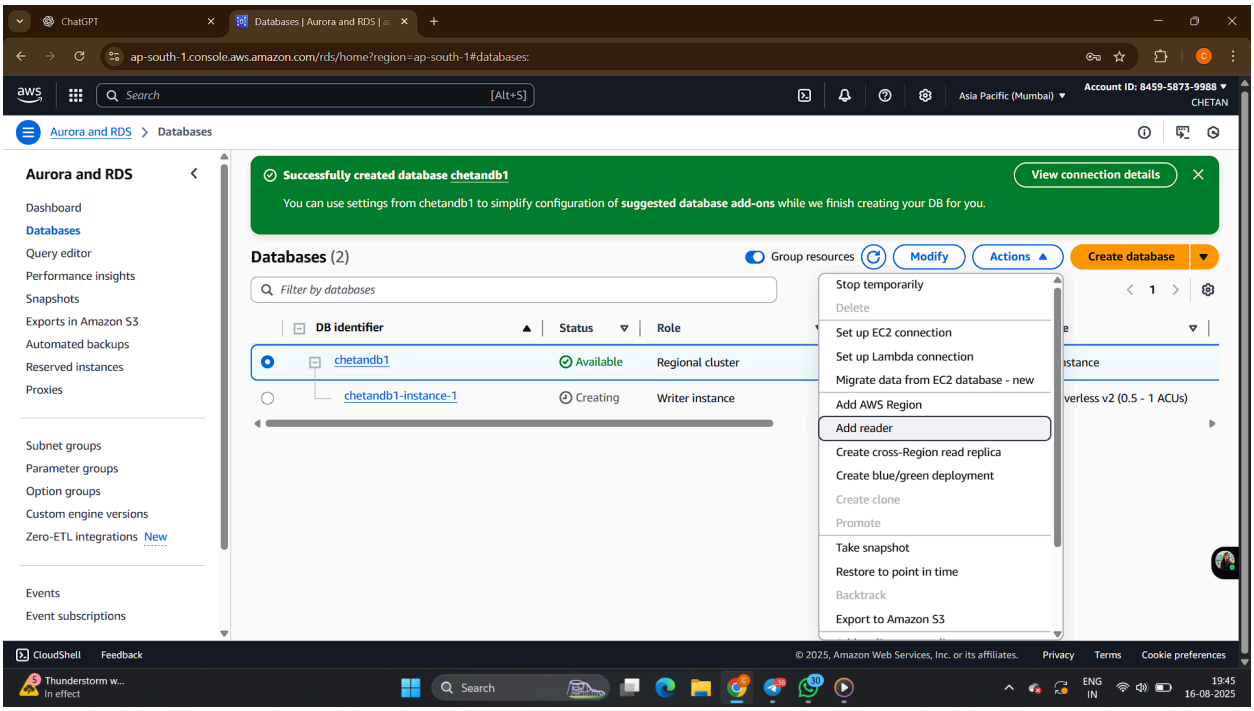
3. Performance Benchmarking

- AWS databases use different types of storage:
    - Magnetic HDDs: slow performance, not recommended for most workloads.
    - General Purpose SSDs: balanced performance and price.
    - Provisioned IOPS SSDs: fastest, designed for high-performance needs.
- To compare, deploy test databases with each storage type, run similar queries, and measure how long they take. You will find magnetic is slowest, SSD is in the middle, and provisioned IOPS is the fastest.

---

4. Advanced Aurora Features

- Multi-AZ clusters automatically switch to a standby copy if something fails, keeping your database online with minimal interruption.
- You can scale reads by adding more reader replicas to distribute query loads.


ChatGPT
Databases | Aurora and RDS
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Databases
Aurora and 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
Successfully created database chetandb1
View connection details
You can use settings from chetandb1 to simplify configuration of suggested database add-ons while we finish creating your DB for you.
Databases (2)
Group resources
Modify
Actions
Create database
Filter by databases
DB identifier
Status
Role
chetandb1
Available
Regional cluster
chetandb1-instance-1
Creating
Writer instance
Stop temporarily
Delete
Set up EC2 connection
Set up Lambda connection
Migrate data from EC2 database - new
Add AWS Region
Add reader
Create cross-Region read replica
Create blue/green deployment
Create clone
Promote
Take snapshot
Restore to point in time
Backtrack
Export to Amazon S3
CloudShell
Feedback
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Privacy
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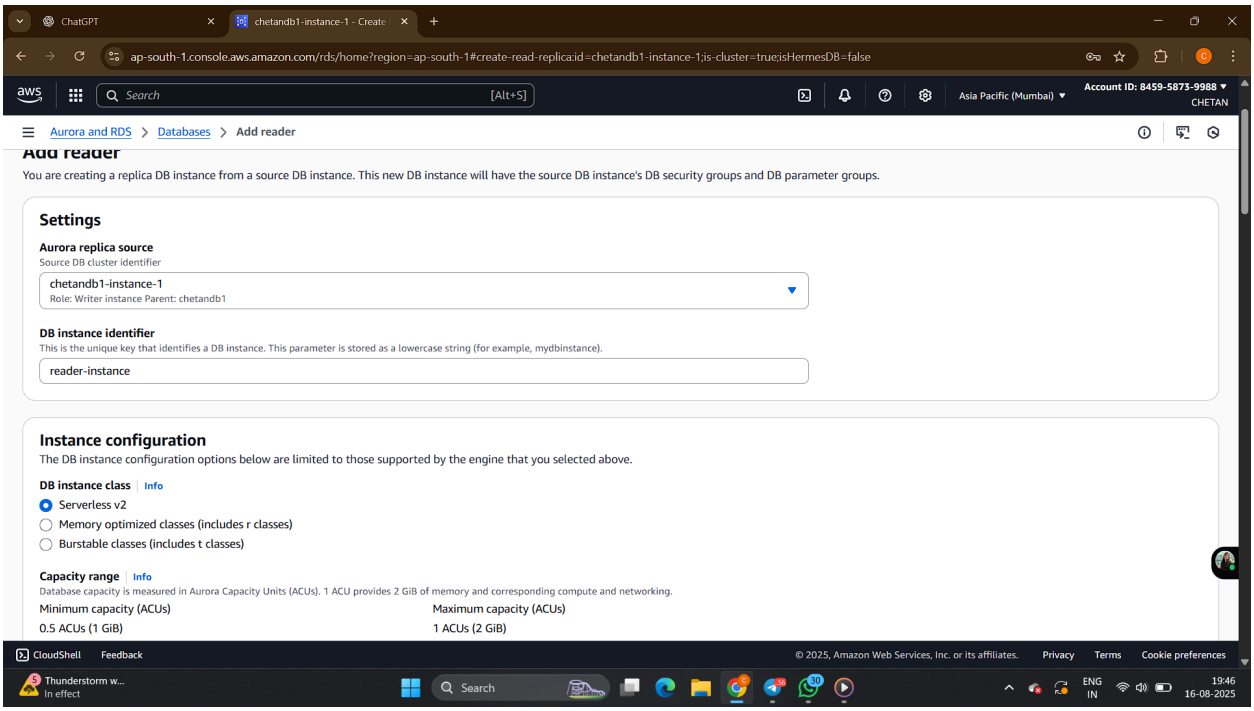
16-08-2025


ChatGPT
chetandb1-instance-1 - Create
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#create-read-replica:id=chetandb1-instance-1;is-cluster=true;isHermesDB=false
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Databases > Add reader
Add reader
You are creating a replica DB instance from a source DB instance. This new DB instance will have the source DB instance's DB security groups and DB parameter groups.
Settings
Aurora replica source
Source DB cluster identifier
chetandb1-instance-1
Role: Writer instance Parent: chetandb1
DB instance identifier
This is the unique key that identifies a DB instance. This parameter is stored as a lowercase string (for example, mydbinstance).
reader-instance
Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.
DB instance class Info
Serverless v2
Memory optimized classes (includes r classes)
Burstable classes (includes t classes)
Capacity range Info
Database capacity is measured in Aurora Capacity Units (ACUs). 1 ACU provides 2 GiB of memory and corresponding compute and networking.
Minimum capacity (ACUs)
0.5 ACUs (1 GiB)
Maximum capacity (ACUs)
1 ACUs (2 GiB)
CloudShell
Feedback
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Cookie preferences
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In effect
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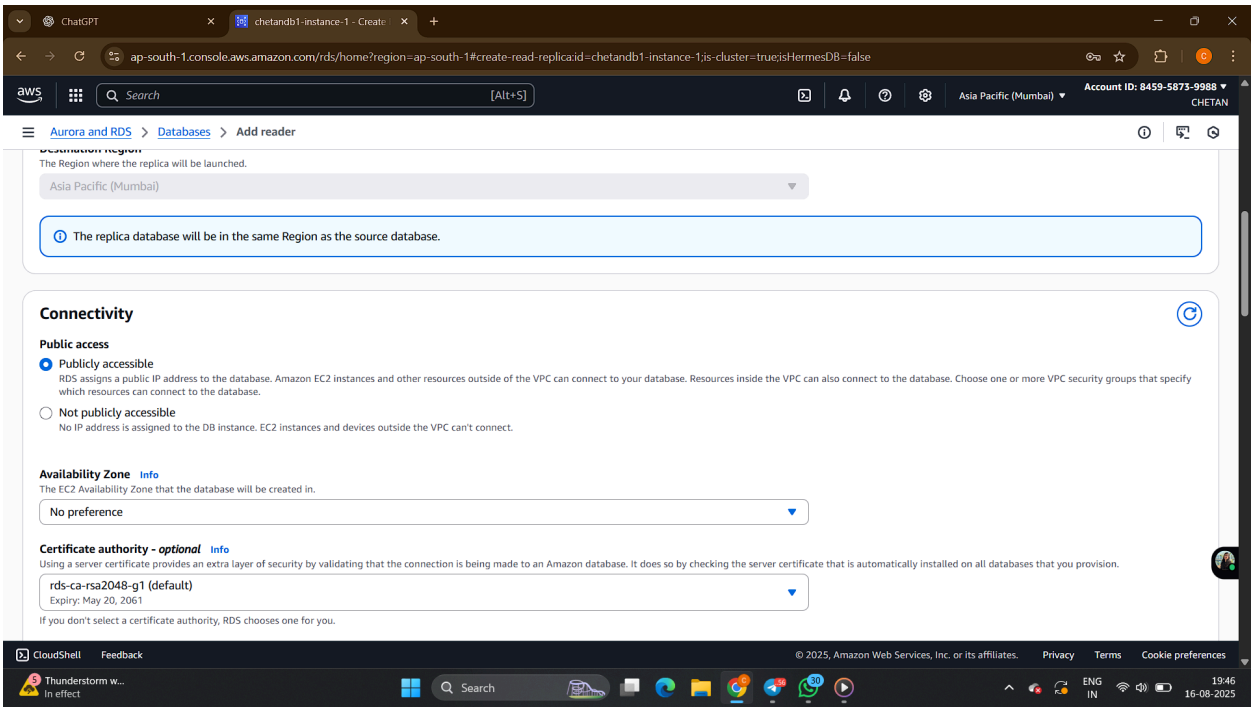
19:46
16-08-2025


ChatGPT
chetandb1-instance-1 - Create
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#create-read-replica:id=chetandb1-instance-1;is-cluster=true;isHermesDB=false
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Databases > Add reader
The Region where the replica will be launched.
Asia Pacific (Mumbai)
The replica database will be in the same Region as the source database.
Connectivity
Public access
Publicly accessible
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.
Not publicly accessible
No IP address is assigned to the DB instance. EC2 instances and devices outside the VPC can't connect.
Availability Zone Info
The EC2 Availability Zone that the database will be created in.
No preference
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 20, 2061
If you don't select a certificate authority, RDS chooses one for you.
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Terms
Cookie preferences
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In effect
Search
ENG
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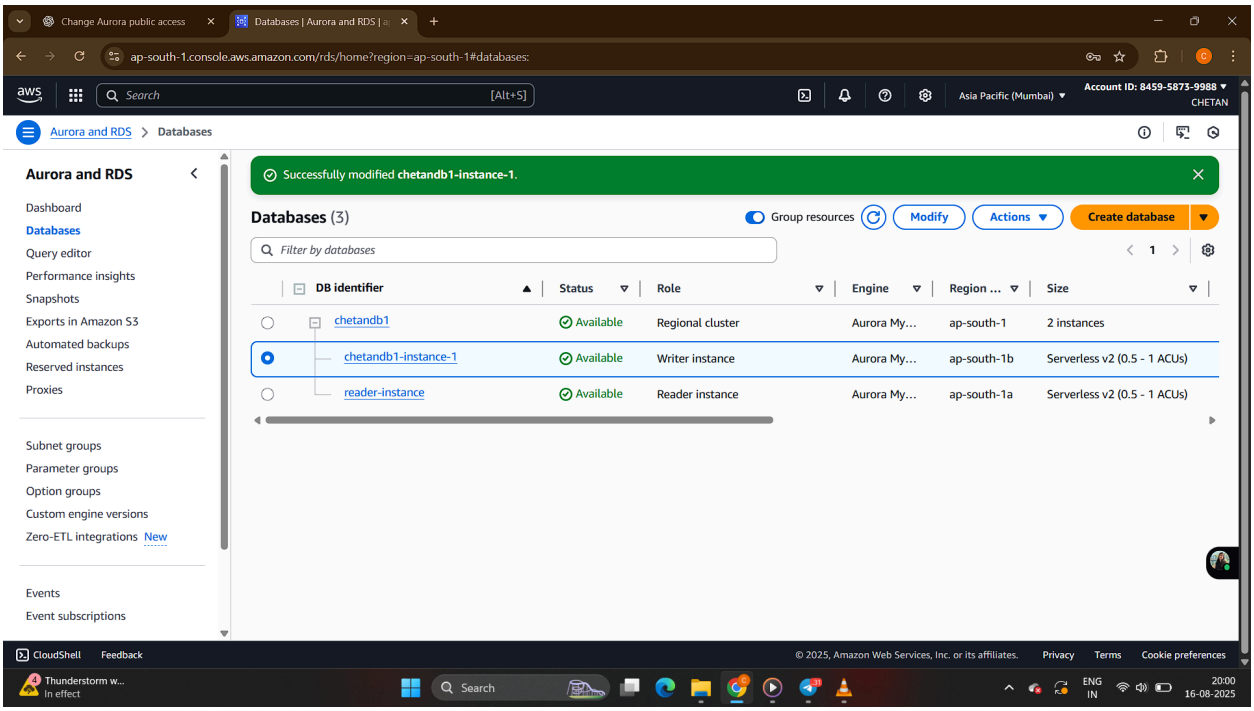
19:46
16-08-2025


Change Aurora public access
Databases | Aurora and RDS
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Databases
Aurora and 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
Successfully modified chetandb1-instance-1.
Databases (3)
Group resources
Modify
Actions
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region ...
Size
chetandb1
Available
Regional cluster
Aurora My...
ap-south-1
2 instances
chetandb1-instance-1
Available
Writer instance
Aurora My...
ap-south-1b
Serverless v2 (0.5 - 1 ACUs)
reader-instance
Available
Reader instance
Aurora My...
ap-south-1a
Serverless v2 (0.5 - 1 ACUs)
CloudShell
Feedback
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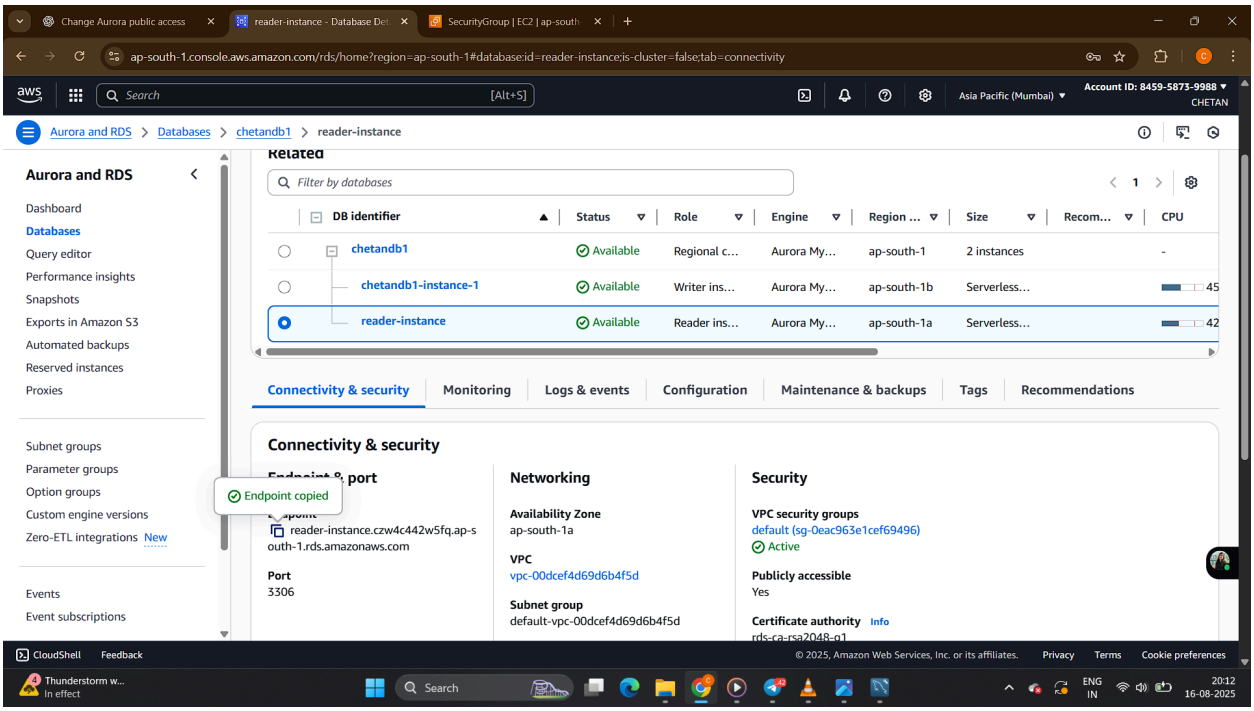
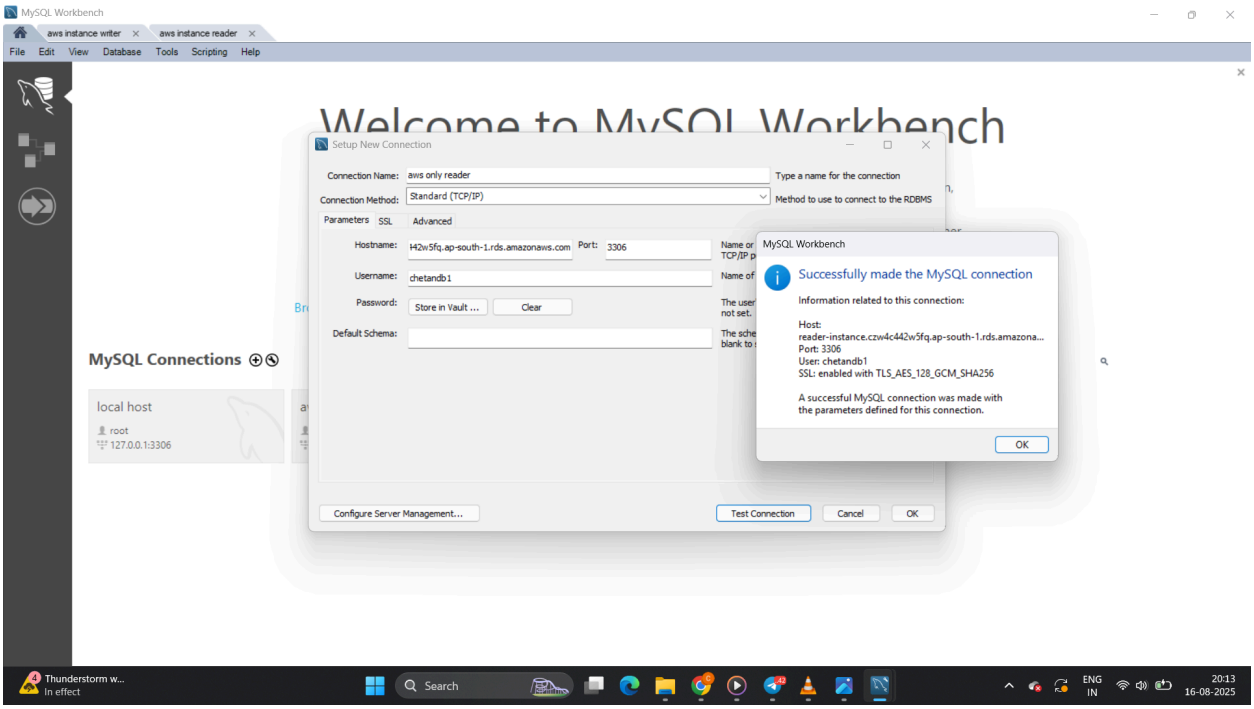
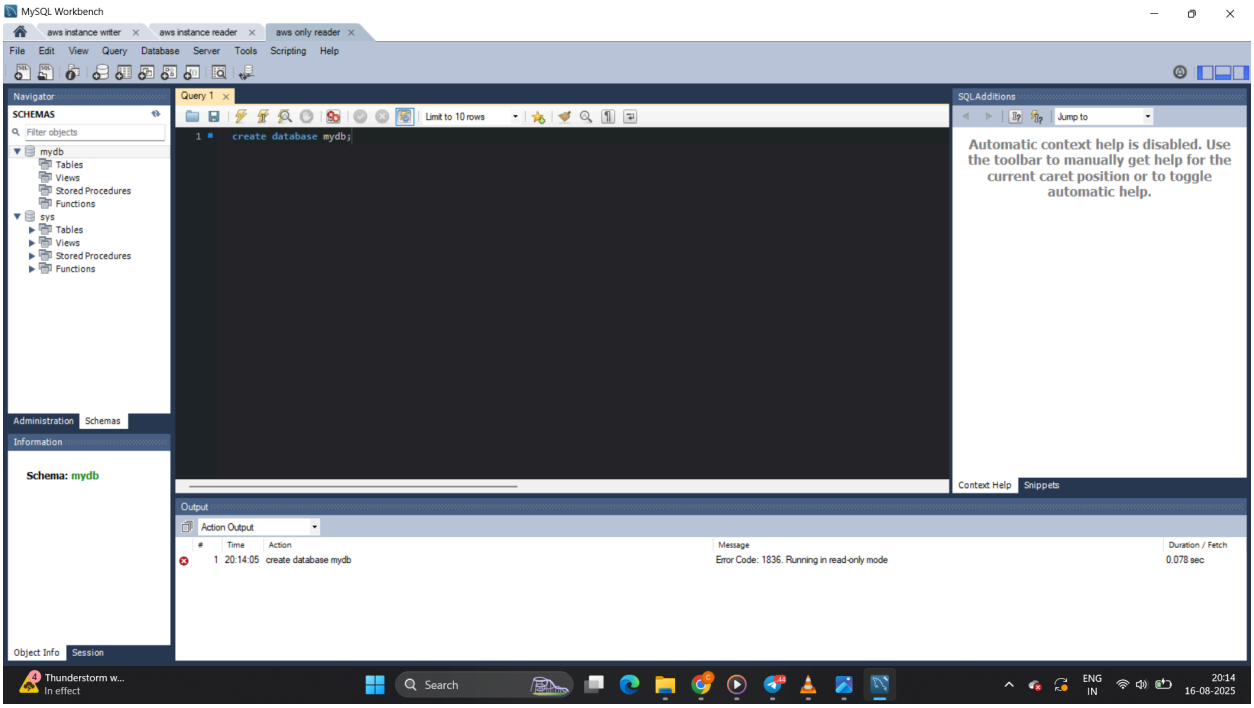
16-08-2025

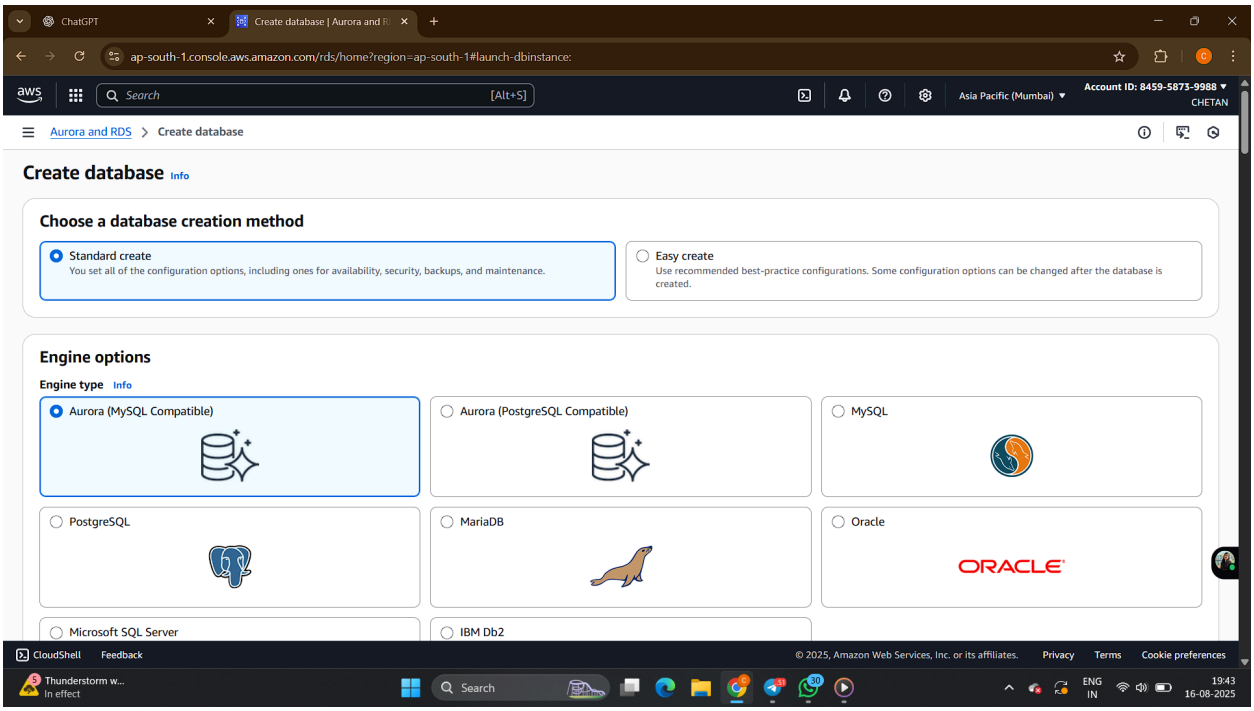

Aurora and RDS
Databases
chetandb1
reader-instance
Dashboard
Query editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations
Events
Event subscriptions
DB identifier
Status
Role
Engine
Region ...
Size
CPU
chetandb1
Available
Regional c...
Aurora My...
ap-south-1
2 instances
chetandb1-instance-1
Writer ins...
ap-south-1b
Serverless...
reader-instance
Reader ins...
ap-south-1a
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Recommendations
Endpoint copied
reader-instance.czw4c442w5fq.ap-south-1.rds.amazonaws.com
Port
3306
Networking
Availability Zone
ap-south-1a
VPC
vpc-00dcef4d69d6b4f5d
Subnet group
default-vpc-00dcef4d69d6b4f5d
Security
VPC security groups
default (sg-0eac963e1cef69496)
Active
Publicly accessible
Yes
Certificate authority
CloudShell
Feedback
Privacy
Terms
Cookie preferences


MySQL Workbench
Welcome to MySQL Workbench
Setup New Connection
Connection Name:
aws only reader
Connection Method:
Standard (TCP/IP)
Hostname:
Port:
3306
Username:
chetandb1
Password:
Store in Vault ...
Clear
Default Schema:
Configure Server Management...
Test Connection
Cancel
OK
MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host:
reader-instance.czw4c442w5fq.ap-south-1.rds.amazona...
Port: 3306
User: chetandb1
SSL: enabled with TLS_AES_128_GCM_SHA256
A successful MySQL connection was made with the parameters defined for this connection.
OK
MySQL Connections
local host
root
127.0.0.1:3306



5. Cost Optimization

- Aurora Serverless saves costs because it scales down when not used; you can also set it to auto-pause after inactivity (for example, 5 minutes).
- Billing dashboards in AWS show you cost differences between serverless and provisioned databases. You'll see that serverless databases cost less when your usage is low or intermittent.


ChatGPT
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Create database
Create database Info
Choose a database creation method
Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.
Engine options
Engine type Info
Aurora (MySQL Compatible)
Aurora (PostgreSQL Compatible)
MySQL
PostgreSQL
MariaDB
Oracle
ORACLE
Microsoft SQL Server
IBM Db2
CloudShell
Feedback
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Cookie preferences
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In effect
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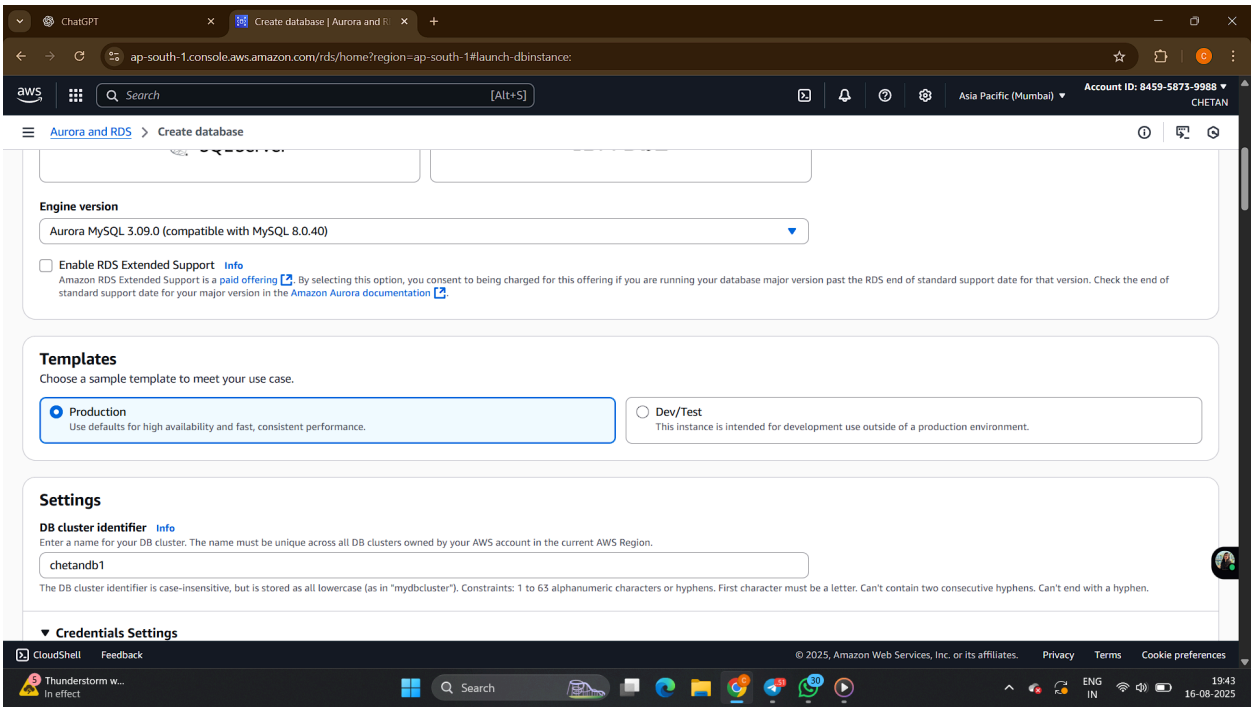
16-08-2025


ChatGPT
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Create database
Engine version
Aurora MySQL 3.09.0 (compatible with MySQL 8.0.40)
Enable RDS Extended Support Info
Amazon RDS Extended Support is a paid offering. By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the Amazon Aurora documentation.
Templates
Choose a sample template to meet your use case.
Production
Use defaults for high availability and fast, consistent performance.
Dev/Test
This instance is intended for development use outside of a production environment.
Settings
DB cluster identifier Info
Enter a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.
chetandb1
The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 63 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
Credentials Settings
CloudShell
Feedback
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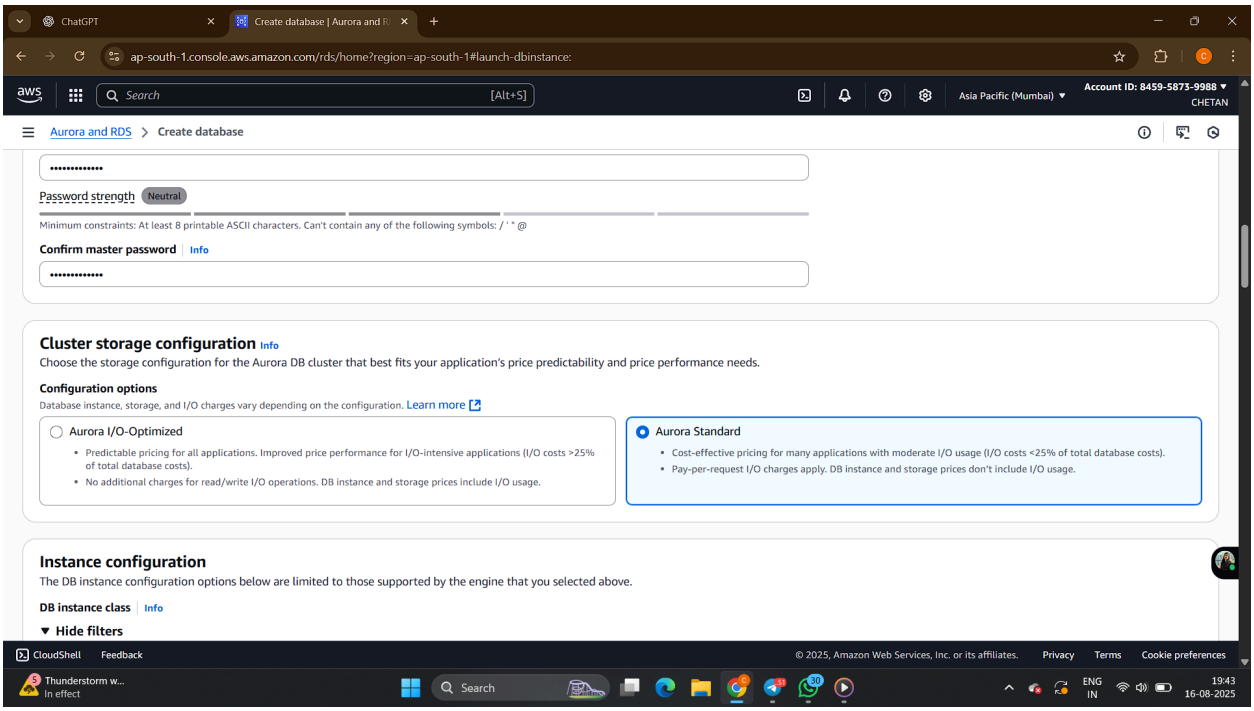
16-08-2025


ChatGPT
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Create database
Password strength Neutral
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @
Confirm master password Info
Cluster storage configuration Info
Choose the storage configuration for the Aurora DB cluster that best fits your application's price predictability and price performance needs.
Configuration options
Database instance, storage, and I/O charges vary depending on the configuration. Learn more
Aurora I/O-Optimized
Predictable pricing for all applications. Improved price performance for I/O-intensive applications (I/O costs >25% of total database costs).
No additional charges for read/write I/O operations. DB instance and storage prices include I/O usage.
Aurora Standard
Cost-effective pricing for many applications with moderate I/O usage (I/O costs <25% of total database costs).
Pay-per-request I/O charges apply. DB instance and storage prices don't include I/O usage.
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
CloudShell Feedback
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Thunderstorm w...
In effect
Search
ENG
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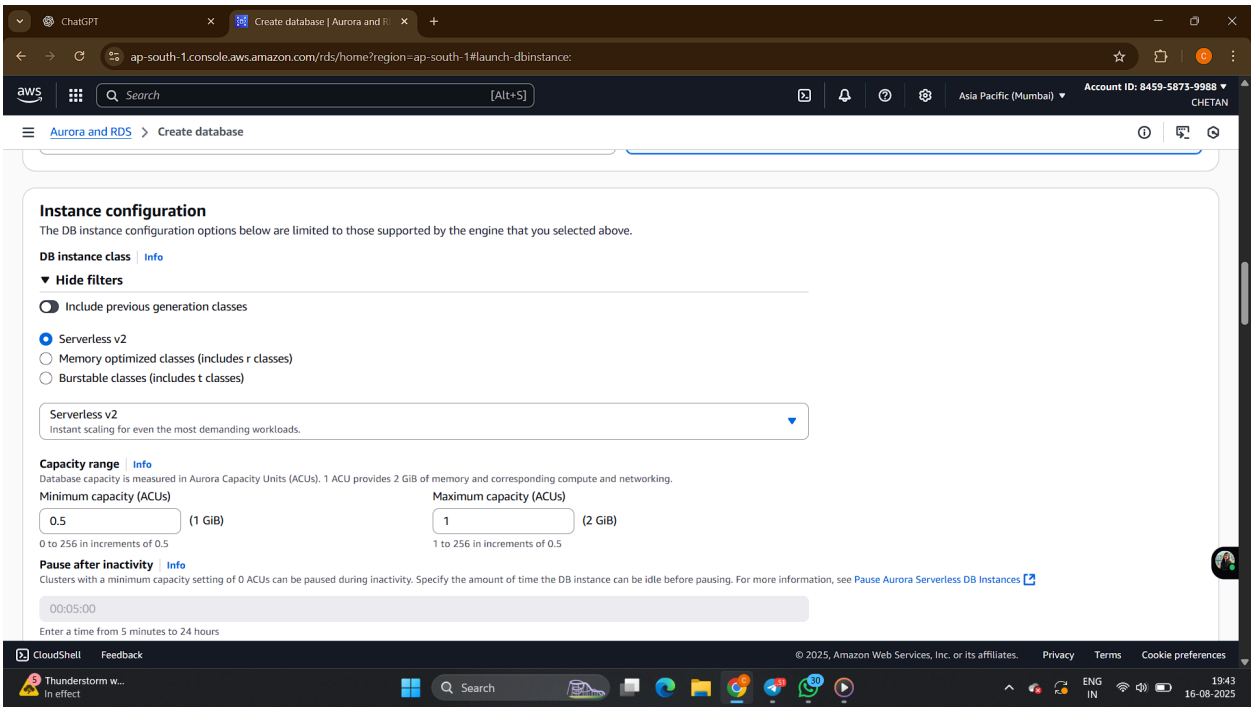
19:43
16-08-2025


ChatGPT
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Create database
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
Include previous generation classes
Serverless v2
Memory optimized classes (includes r classes)
Burstable classes (includes t classes)
Serverless v2
Instant scaling for even the most demanding workloads.
Capacity range Info
Database capacity is measured in Aurora Capacity Units (ACUs). 1 ACU provides 2 GiB of memory and corresponding compute and networking.
Minimum capacity (ACUs)
0.5
(1 GiB)
0 to 256 in increments of 0.5
Maximum capacity (ACUs)
1
(2 GiB)
1 to 256 in increments of 0.5
Pause after inactivity Info
Clusters with a minimum capacity setting of 0 ACUs can be paused during inactivity. Specify the amount of time the DB instance can be idle before pausing. For more information, see Pause Aurora Serverless DB Instances
00:05:00
Enter a time from 5 minutes to 24 hours
CloudShell Feedback
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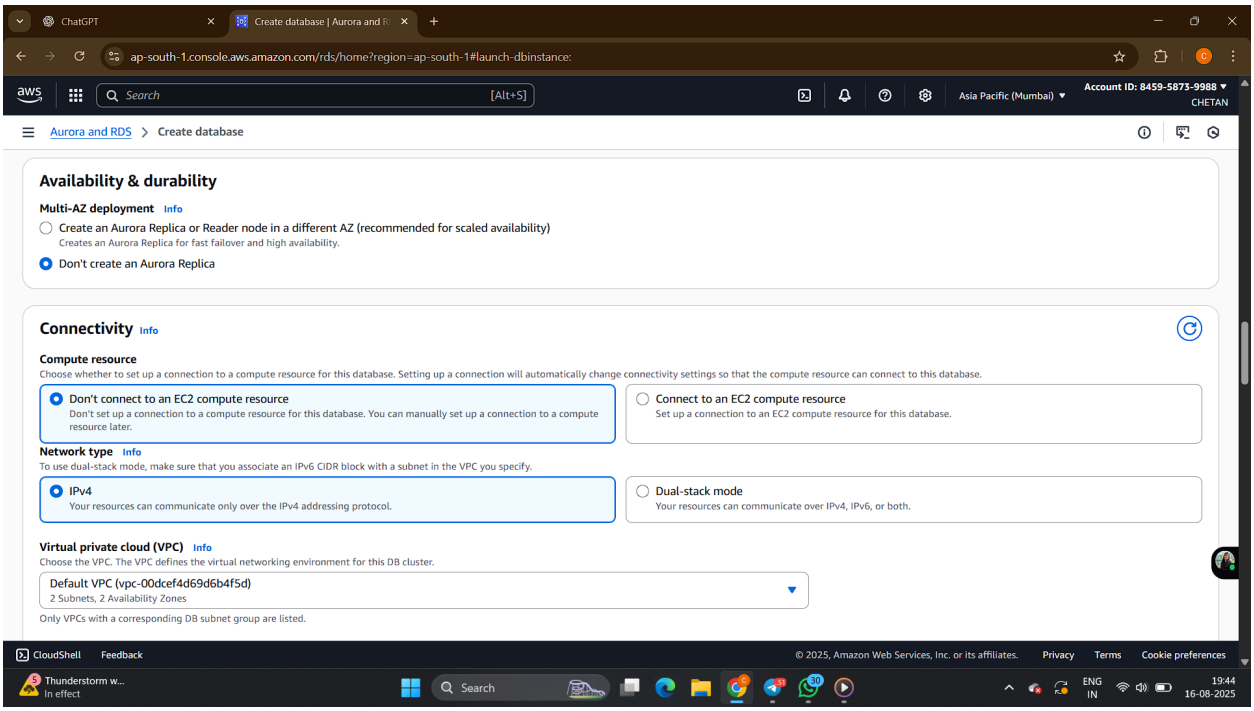
16-08-2025


ChatGPT
Create database | Aurora and R
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Create database
Availability & durability
Multi-AZ deployment Info
Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)
Creates an Aurora Replica for fast failover and high availability.
Don't create an Aurora Replica
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 cluster.
Default VPC (vpc-00dcef4d69d6b4f5d)
2 Subnets, 2 Availability Zones
Only VPCs with a corresponding DB subnet group are listed.
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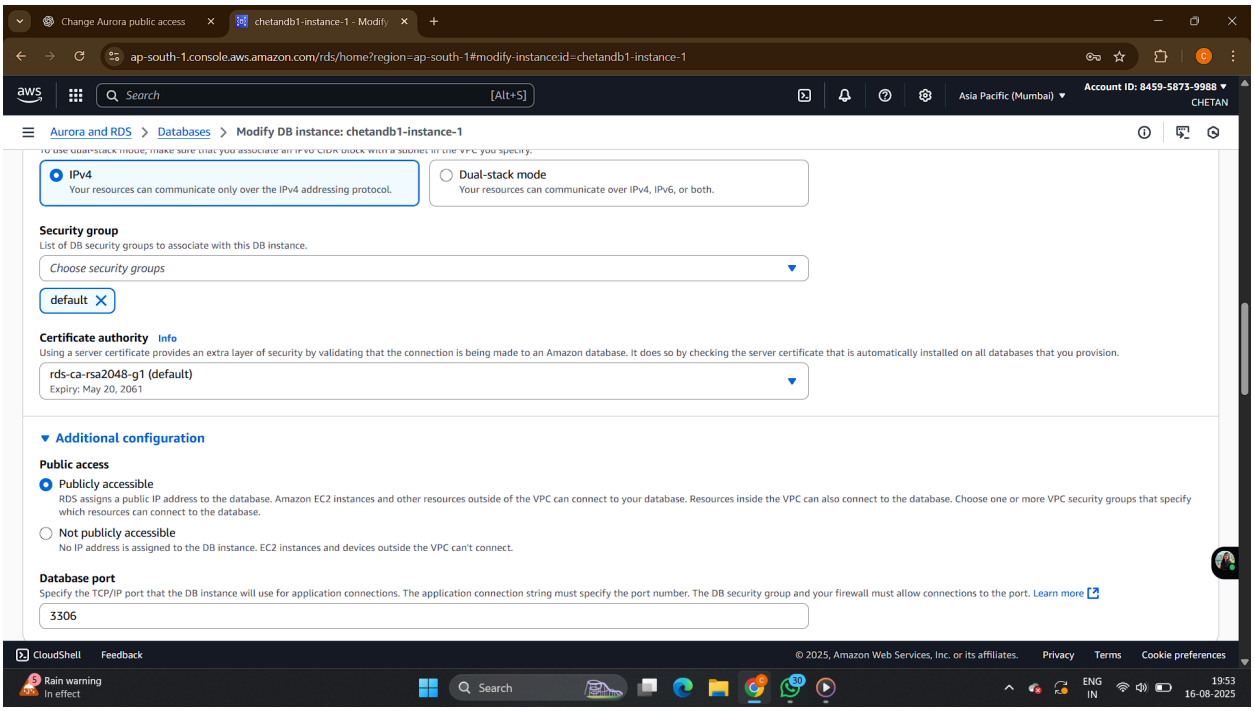
16-08-2025


Change Aurora public access
chetandb1-instance-1 - Modify
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#modify-instance:id=chetandb1-instance-1
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Aurora and RDS > Databases > Modify DB instance: chetandb1-instance-1
IPv4
Your resources can communicate only over the IPv4 addressing protocol.
Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.
Security group
List of DB security groups to associate with this DB instance.
Choose security groups
default
Certificate authority 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 20, 2061
Additional configuration
Public access
Publicly accessible
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.
Not publicly accessible
No IP address is assigned to the DB instance. EC2 instances and devices outside the VPC can't connect.
Database port
Specify the TCP/IP port that the DB instance will use for application connections. The application connection string must specify the port number. The DB security group and your firewall must allow connections to the port. Learn more
3306
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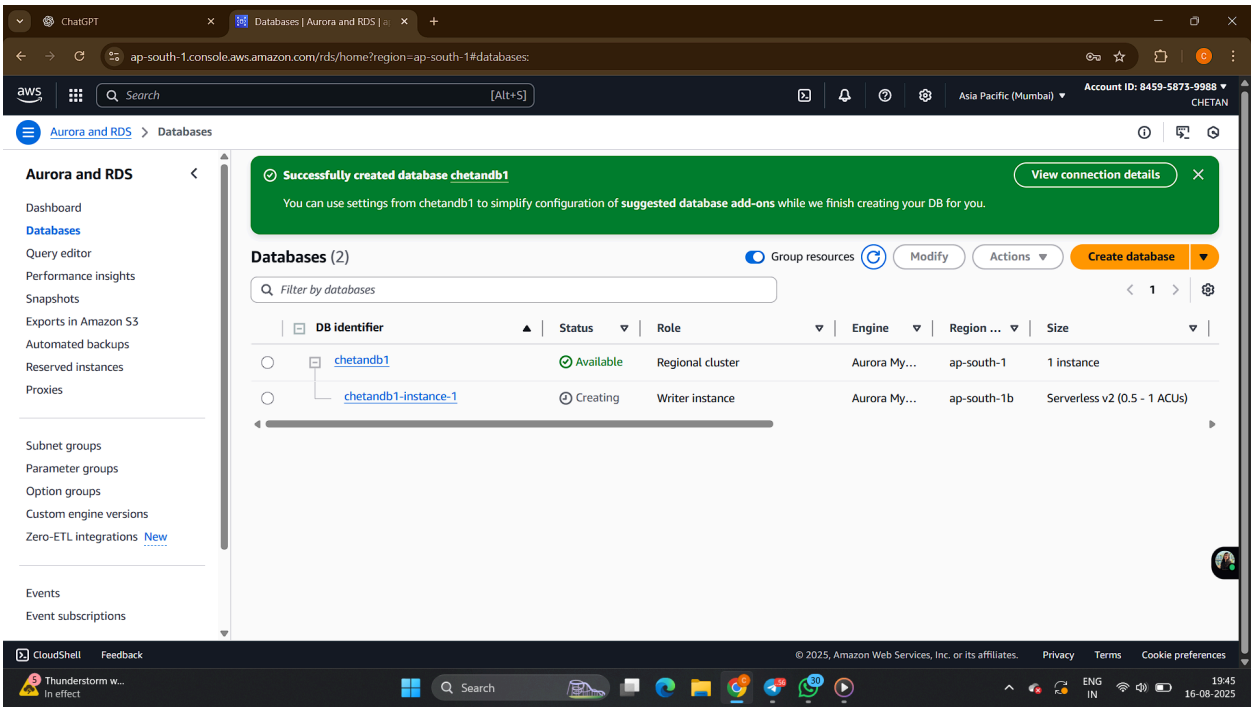
16-08-2025


ChatGPT
Databases | Aurora and RDS
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:
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Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
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Successfully created database chetandb1
View connection details
You can use settings from chetandb1 to simplify configuration of suggested database add-ons while we finish creating your DB for you.
Databases (2)
Group resources
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ap-south-1b
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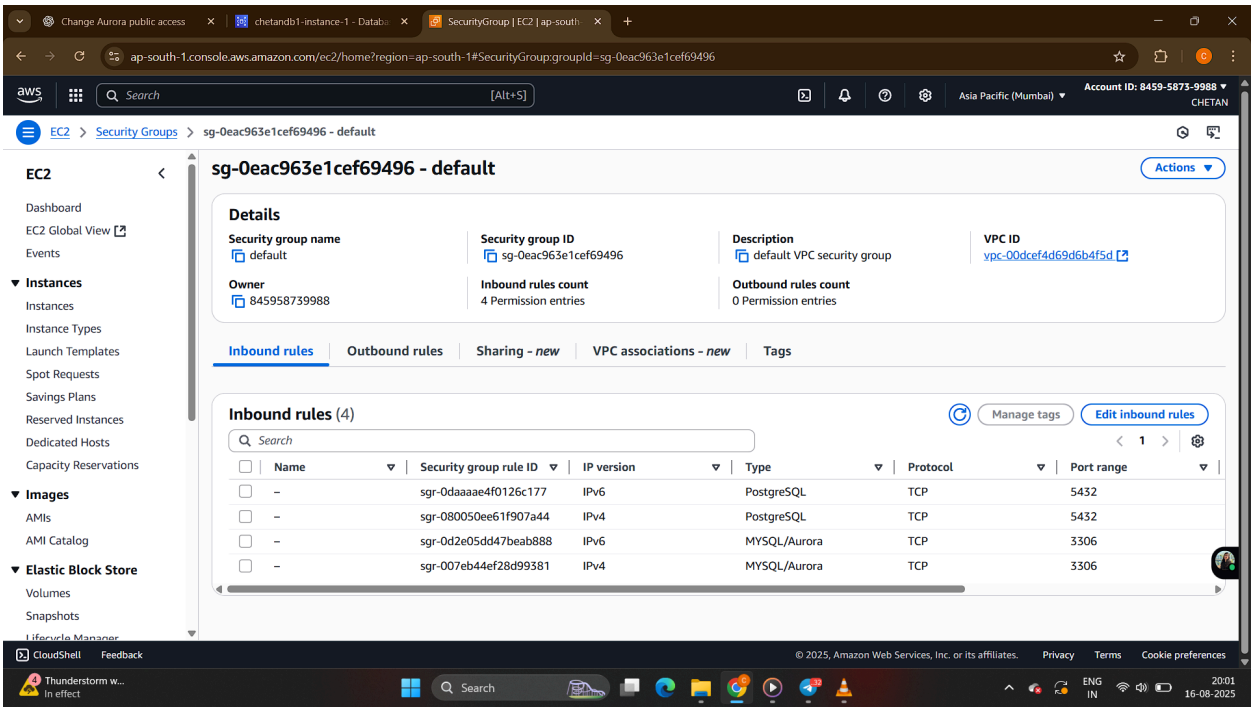
Change Aurora public access
chetandb1-instance-1 - Databa
SecurityGroup | EC2 | ap-south
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:groupId=sg-0eac963e1cef69496
Search [Alt+S]
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Account ID: 8459-5873-9988
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EC2 > Security Groups > sg-0eac963e1cef69496 - default
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Details
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default
Security group ID
sg-0eac963e1cef69496
Description
default VPC security group
VPC ID
vpc-00dcef4d69d6b4f5d
Owner
845958739988
Inbound rules count
4 Permission entries
Outbound rules count
0 Permission entries
Inbound rules
Outbound rules
Sharing - new
VPC associations - new
Tags
Inbound rules (4)
Manage tags
Edit inbound rules
Search
Name
Security group rule ID
IP version
Type
Protocol
Port range
sgr-0daaaae4f0126c177 IPv6 PostgreSQL TCP 5432
sgr-080050ee61f907a44 IPv4 PostgreSQL TCP 5432
sgr-0d2e05dd47beab888 IPv6 MYSQL/Aurora TCP 3306
sgr-007eb44ef28d99381 IPv4 MYSQL/Aurora TCP 3306
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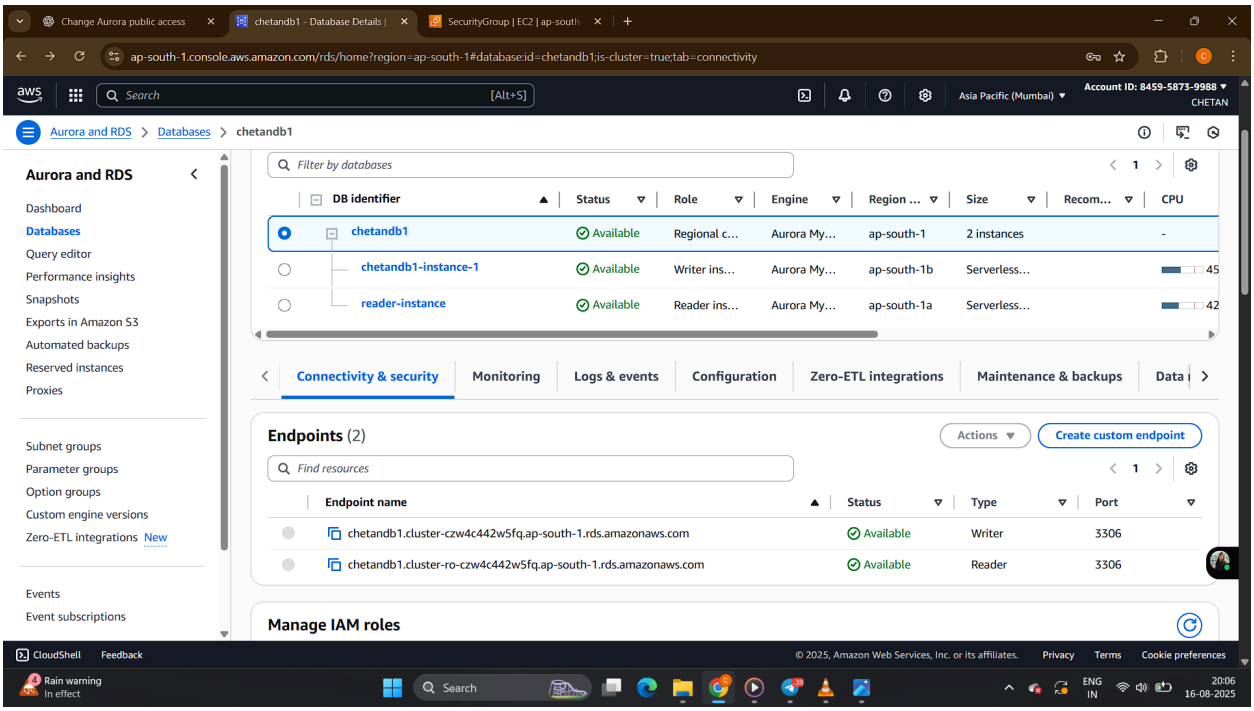
Change Aurora public access
chetandb1 - Database Details
SecurityGroup | EC2 | ap-south
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#database:id=chetandb1;is-cluster=true;tab=connectivity
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chetandb1.cluster-ro-czw4c442w5fq.ap-south-1.rds.amazonaws.com
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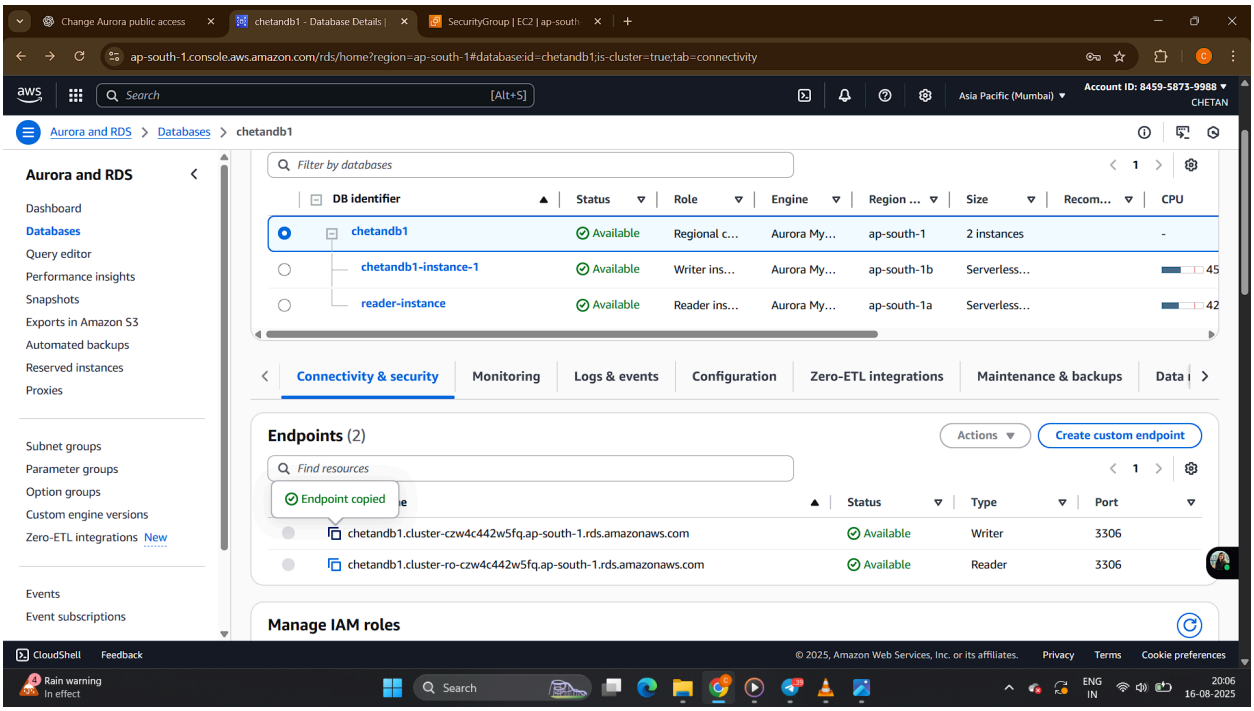
Change Aurora public access
chetandb1 - Database Details
SecurityGroup | EC2 | ap-south
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#database:id=chetandb1;is-cluster=true;tab=connectivity
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chetandb1.cluster-ro-czw4c442w5fq.ap-south-1.rds.amazonaws.com
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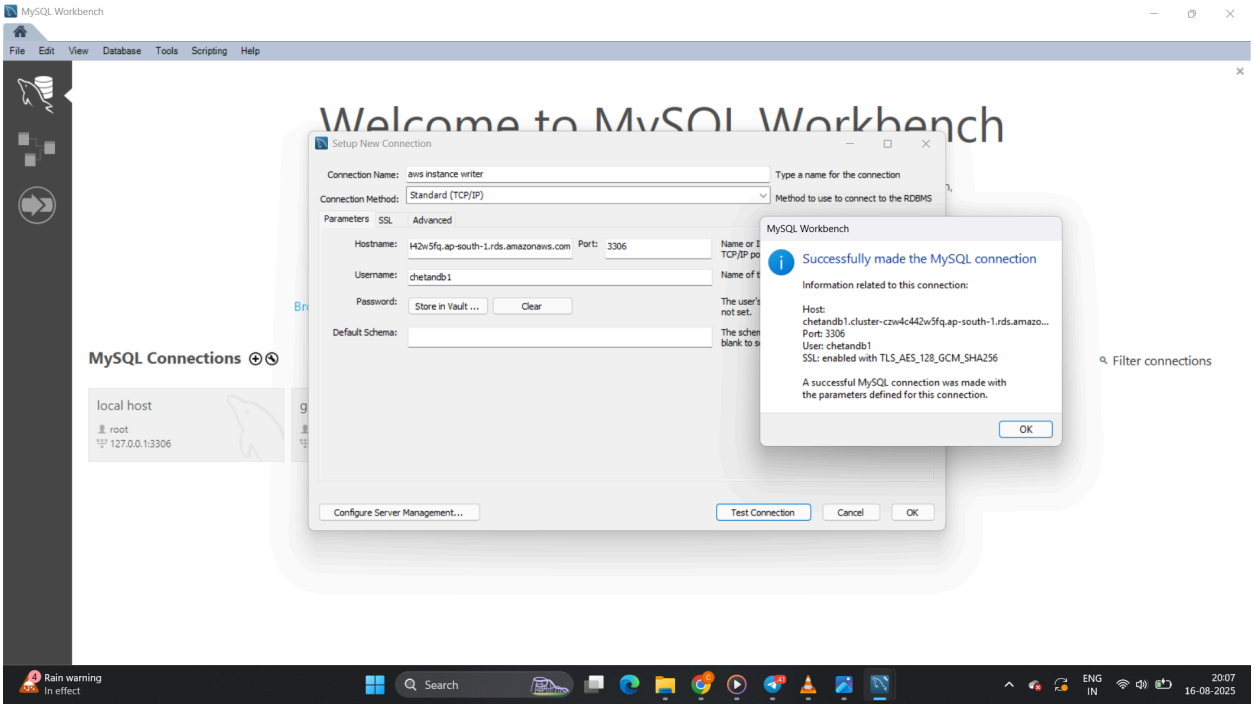
MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
Setup New Connection
Connection Name: aws instance writer
Type a name for the connection
Connection Method: Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters SSL Advanced
Hostname: H42w5fq.ap-south-1.rds.amazonaws.com Port: 3306
Username: chetandb1
Password: Store in Vault ... Clear
Default Schema:
Configure Server Management...
Test Connection
Cancel
OK
MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host: chetandb1.cluster-czw4c442w5fq.ap-south-1.rds.amazo...
Port: 3306
User: chetandb1
SSL: enabled with TLS_AES_128_GCM_SHA256
A successful MySQL connection was made with the parameters defined for this connection.
OK
MySQL Connections
Filter connections
local host
root
127.0.0.1:3306
Rain warning In effect
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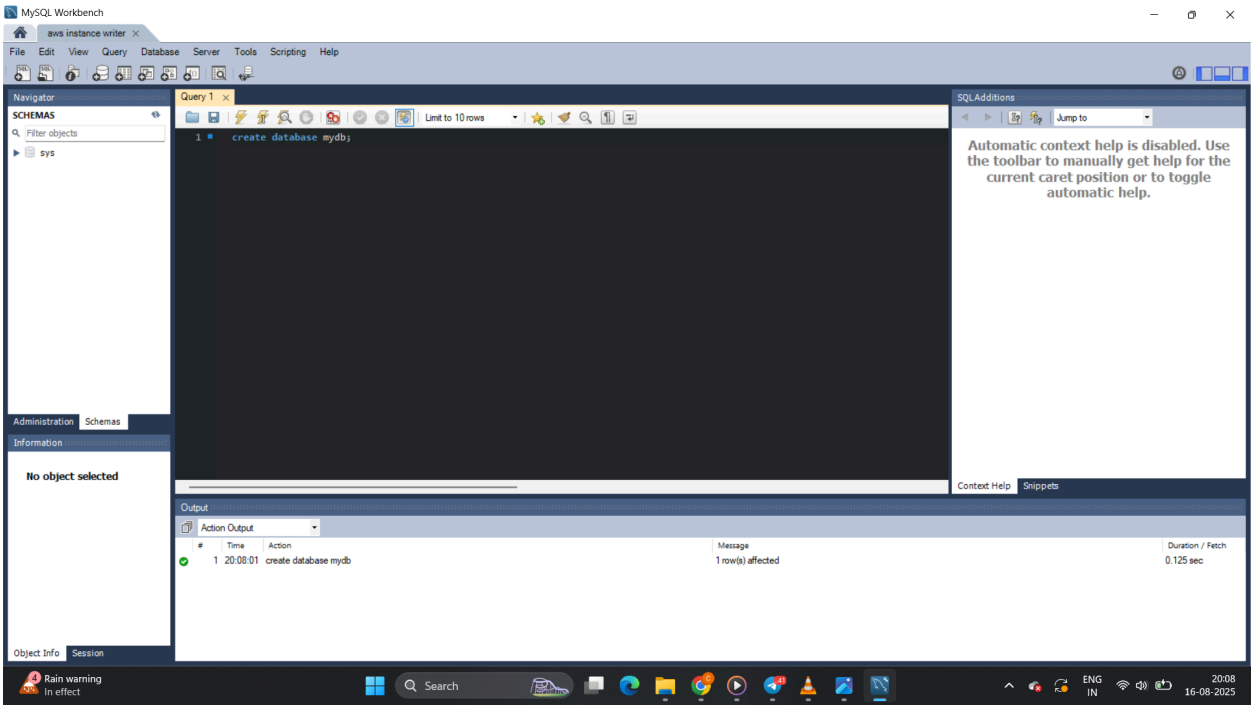
MySQL Workbench
aws instance writer
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Object Info Session
Query 1
Limit to 10 rows
1 create database mydb;
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Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
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Action Output
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1 20:08:01 create database mydb 1 row(s) affected 0.125 sec
Rain warning In effect
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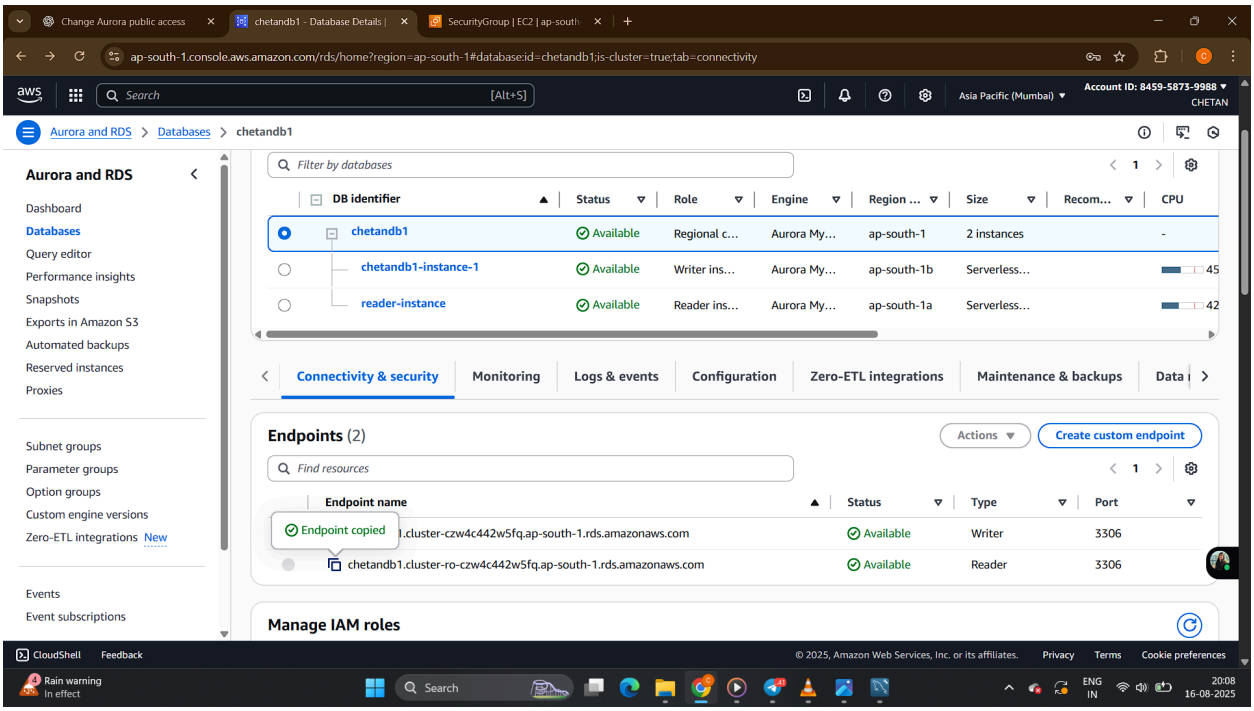
Change Aurora public access
chetandb1 - Database Details |
SecurityGroup | EC2 | ap-south
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#database:id=chetandb1;is-cluster=true;tab=connectivity
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Endpoint copied
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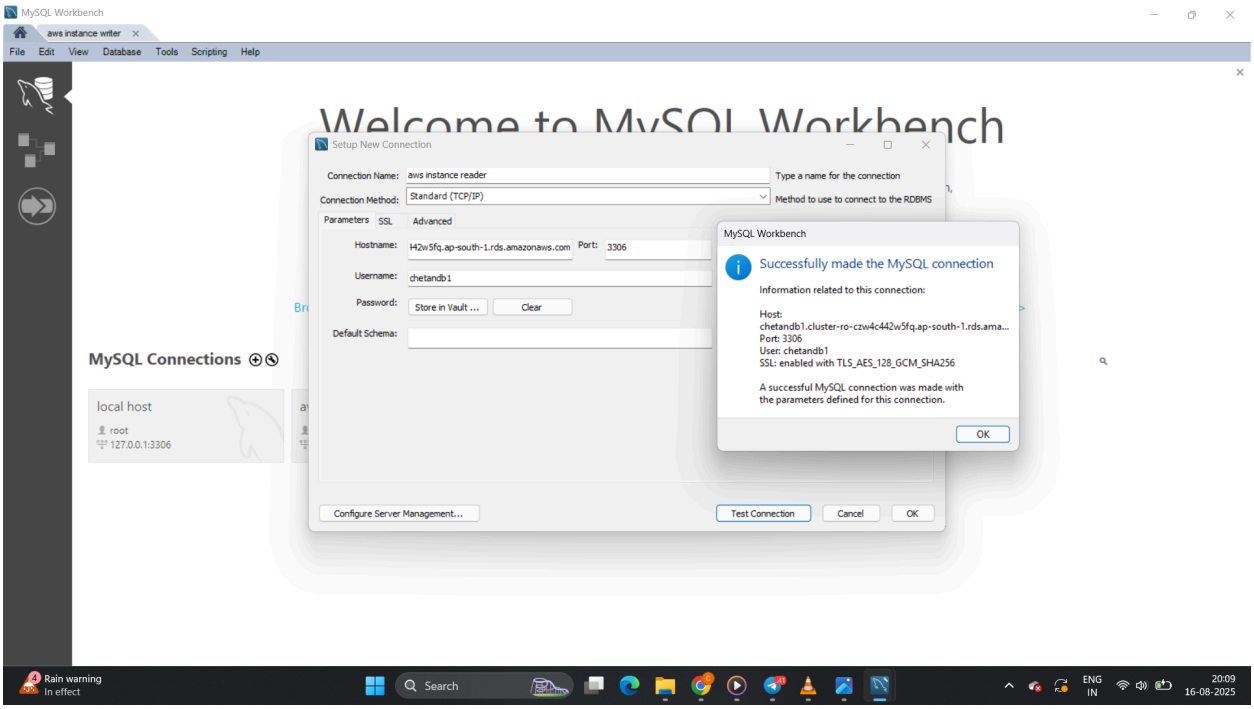
MySQL Workbench
aws instance writer
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Help
Welcome to MySQL Workbench
Setup New Connection
Connection Name:
aws instance reader
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
H2w5fq.ap-south-1.rds.amazonaws.com
Port:
3306
Username:
chetandb1
Password:
Store in Vault ...
Clear
Default Schema:
Configure Server Management...
Test Connection
Cancel
OK
MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host:
chetandb1.cluster-ro-czw4c442w5fq.ap-south-1.rds.ama...
Port: 3306
User: chetandb1
SSL: enabled with TLS_AES_128_GCM_SHA256
A successful MySQL connection was made with
the parameters defined for this connection.
OK
MySQL Connections
local host
root
127.0.0.1:3306
Rain warning
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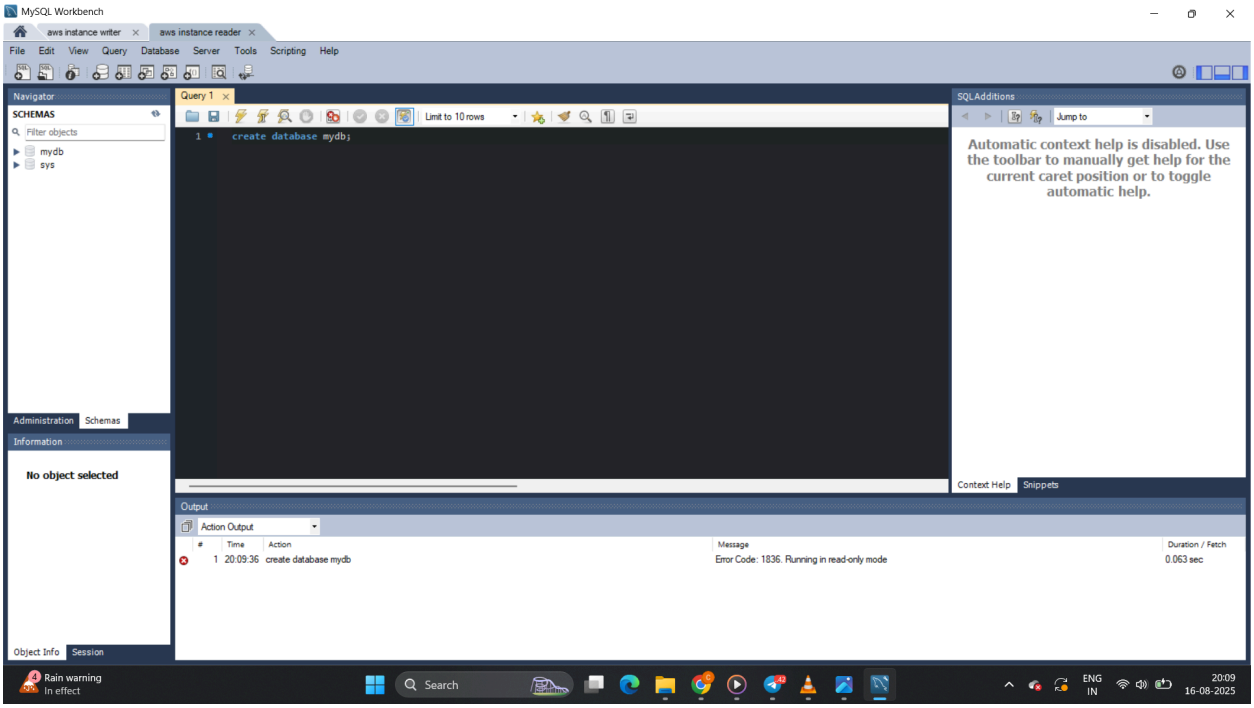
MySQL Workbench
aws instance writer
aws instance reader
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sys
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 10 rows
1 create database mydb;
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Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
1 20:09:36 create database mydb Error Code: 1836. Running in read-only mode 0.063 sec
Rain warning In effect
Search
ENG IN
20:09 16-08-2025