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Experiment - 9

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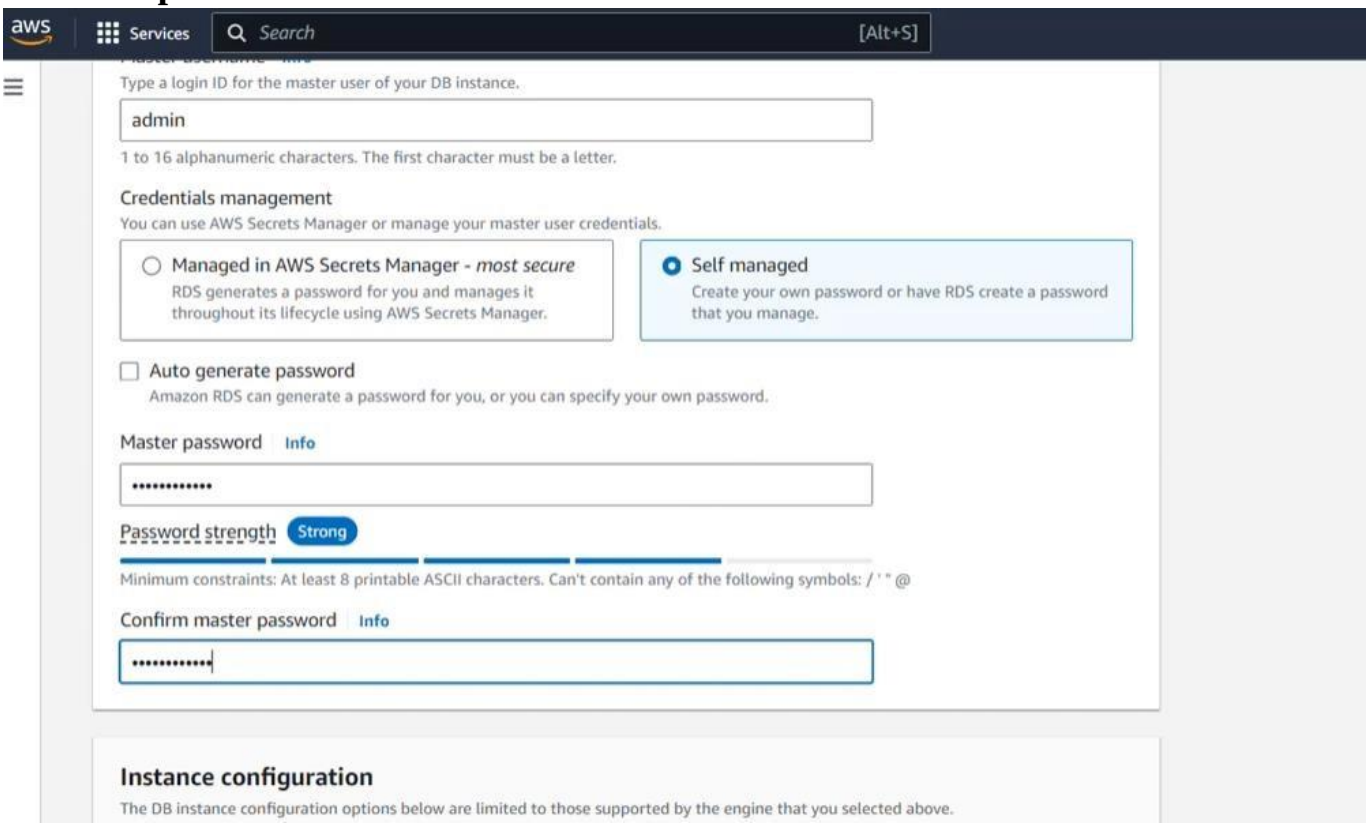
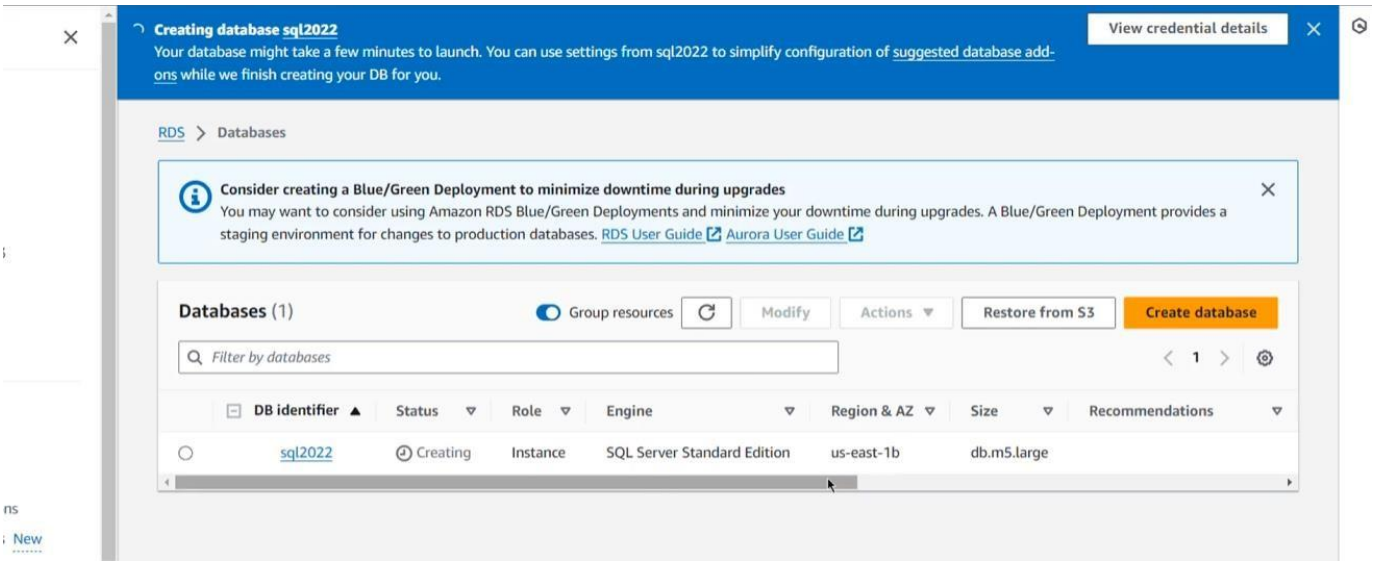
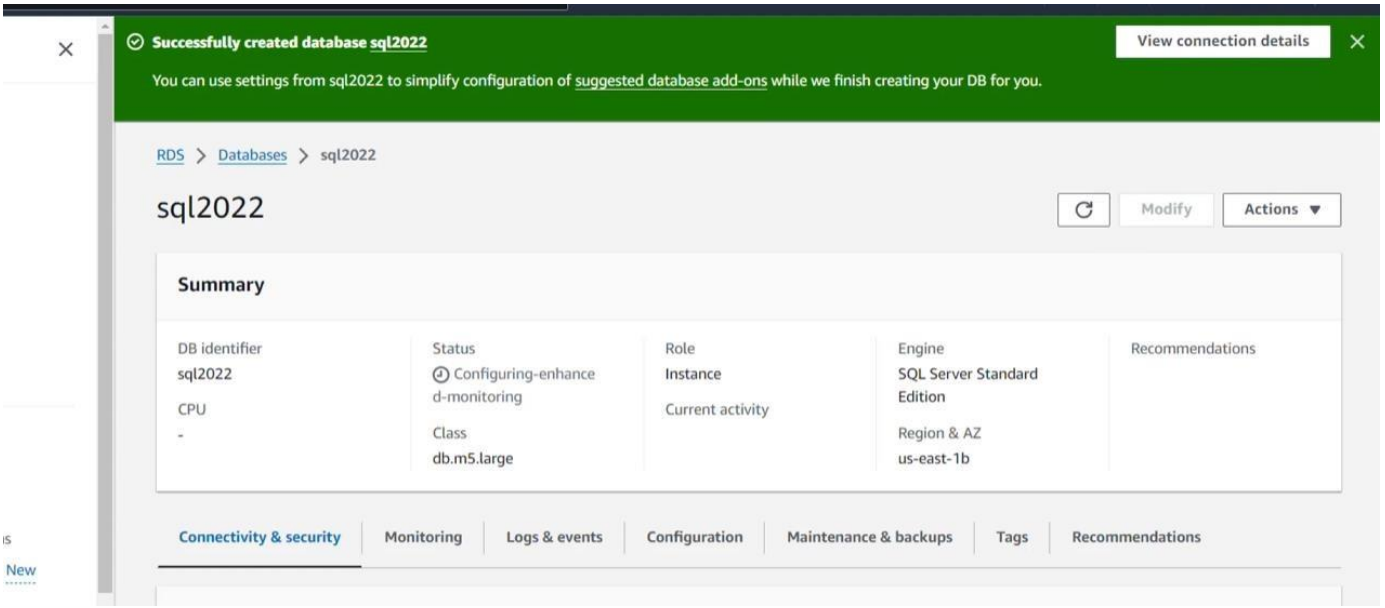
Branch: BE-CSE
Section/Group: KRG-2B
Semester: 5th
Date of Performance:27/10/25
Subject Name: ADBMS
Subject Code: 23CSP-333

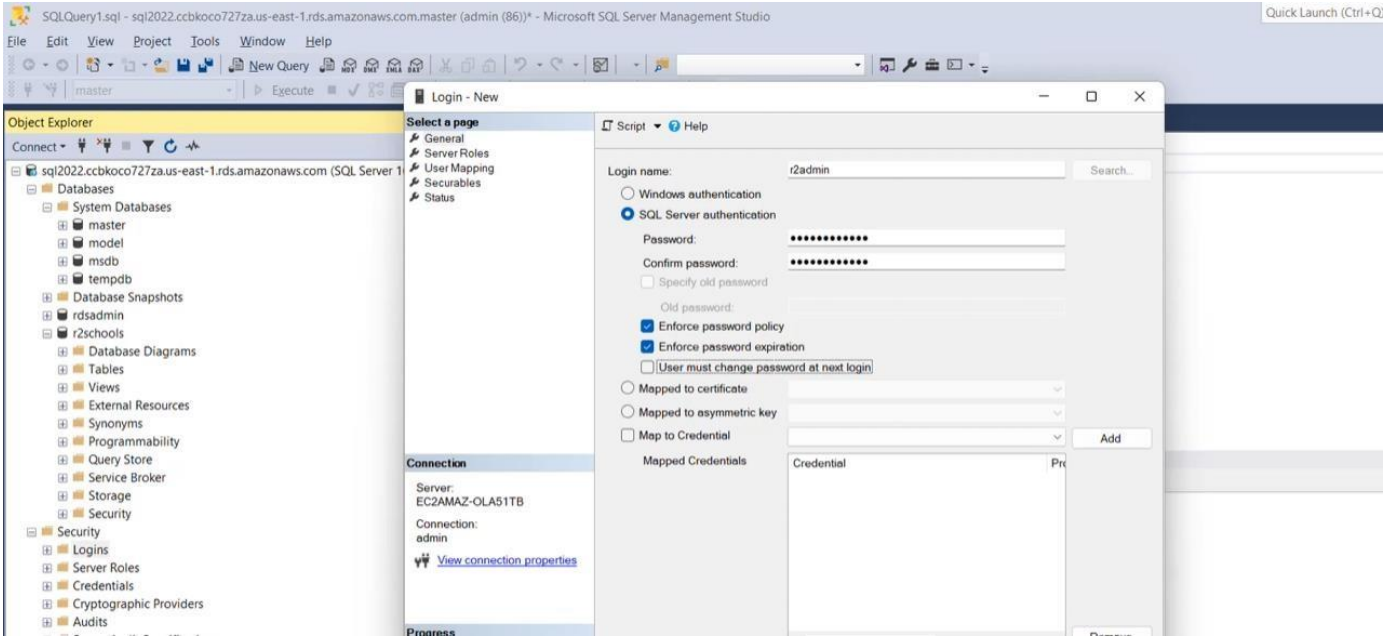
1. **Aim:**
   To design and interact with cloud-based data storage systems using AWS RDS, Google Firebase, and Azure Cosmos DB, focusing on relational modeling, real-time synchronization, and distributed data access.

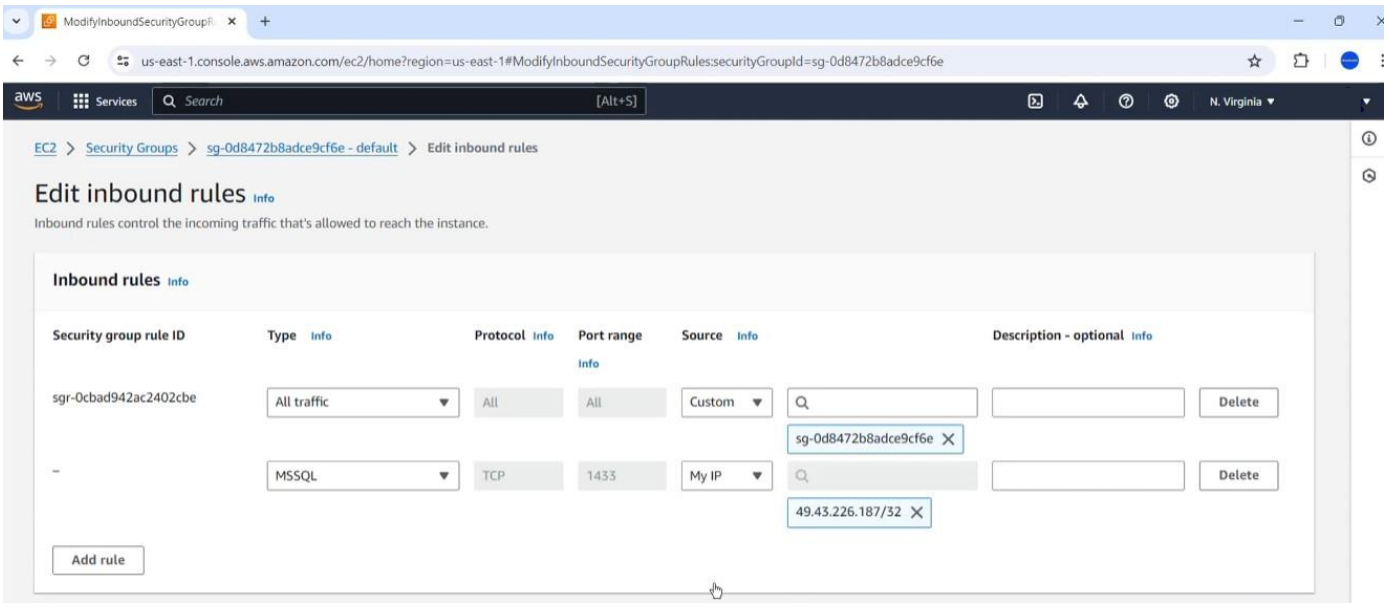
2. **Output**

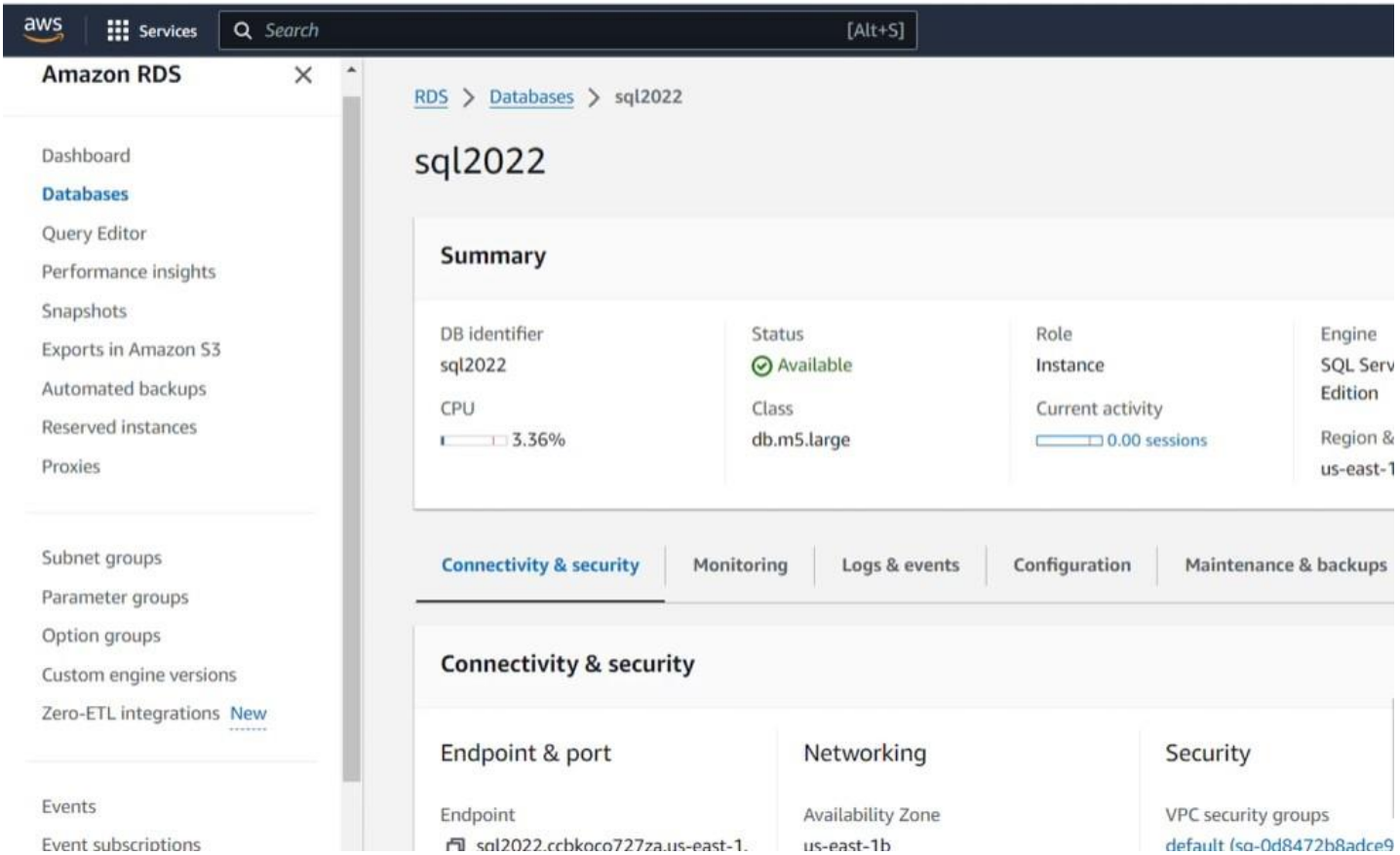



Creating database sql2022
Your database might take a few minutes to launch. You can use settings from sql2022 to simplify configuration of suggested database add-ons while we finish creating your DB for you.
View credential details
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Databases (1)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
Recommendations
sql2022
Creating
Instance
SQL Server Standard Edition
us-east-1b
db.m5.large


Successfully created database sql2022
You can use settings from sql2022 to simplify configuration of suggested database add-ons while we finish creating your DB for you.
View connection details
RDS > Databases > sql2022
sql2022
Modify
Actions
Summary
DB identifier
sql2022
Status
Configuring-enhanced-monitoring
Role
Instance
Engine
SQL Server Standard Edition
Recommendations
CPU
-
Class
db.m5.large
Current activity
Region & AZ
us-east-1b
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Recommendations


SQLQuery1.sql - sql2022.ccbkoco727za.us-east-1.rds.amazonaws.com.master (admin (86))* - Microsoft SQL Server Management Studio
File Edit View Project Tools Window Help
New Query
Execute
Object Explorer
Connect
sql2022.ccbkoco727za.us-east-1.rds.amazonaws.com (SQL Server
Databases
System Databases
master
model
msdb
tempdb
Database Snapshots
rdsadmin
r2schools
Database Diagrams
Tables
Views
External Resources
Synonyms
Programmability
Query Store
Service Broker
Storage
Security
Security
Logins
Server Roles
Credentials
Cryptographic Providers
Audits
Login - New
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Login name:
r2admin
Search...
Windows authentication
SQL Server authentication
Password:
Confirm password:
Specify old password
Old password:
Enforce password policy
Enforce password expiration
User must change password at next login
Mapped to certificate
Mapped to asymmetric key
Map to Credential
Add
Mapped Credentials
Credential
Connection
Server:
EC2AMAZ-OLA51TB
Connection:
admin
View connection properties
Progress


ModifyInboundSecurityGroupR
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0d8472b8adce9cf6e
aws
Services
Search
[Alt+S]
N. Virginia
EC2 > Security Groups > sg-0d8472b8adce9cf6e - 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-0cbad942ac2402cbe
All traffic
All
All
Custom
sg-0d8472b8adce9cf6e
Delete
MSSQL
TCP
1433
My IP
49.43.226.187/32
Delete
Add rule


aws
Services
Search
[Alt+S]
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 > Databases > sql2022
sql2022
Summary
DB identifier
sql2022
Status
Available
Role
Instance
Engine
SQL Serv
Edition
CPU
3.36%
Class
db.m5.large
Current activity
0.00 sessions
Region &
us-east-1
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Connectivity & security
Endpoint & port
Networking
Security
Endpoint
sql2022.ccbkoco727za.us-east-1.
Availability Zone
us-east-1b
VPC security groups
default (sg-0d8472b8adce9