Advance AWS | Sept 2020

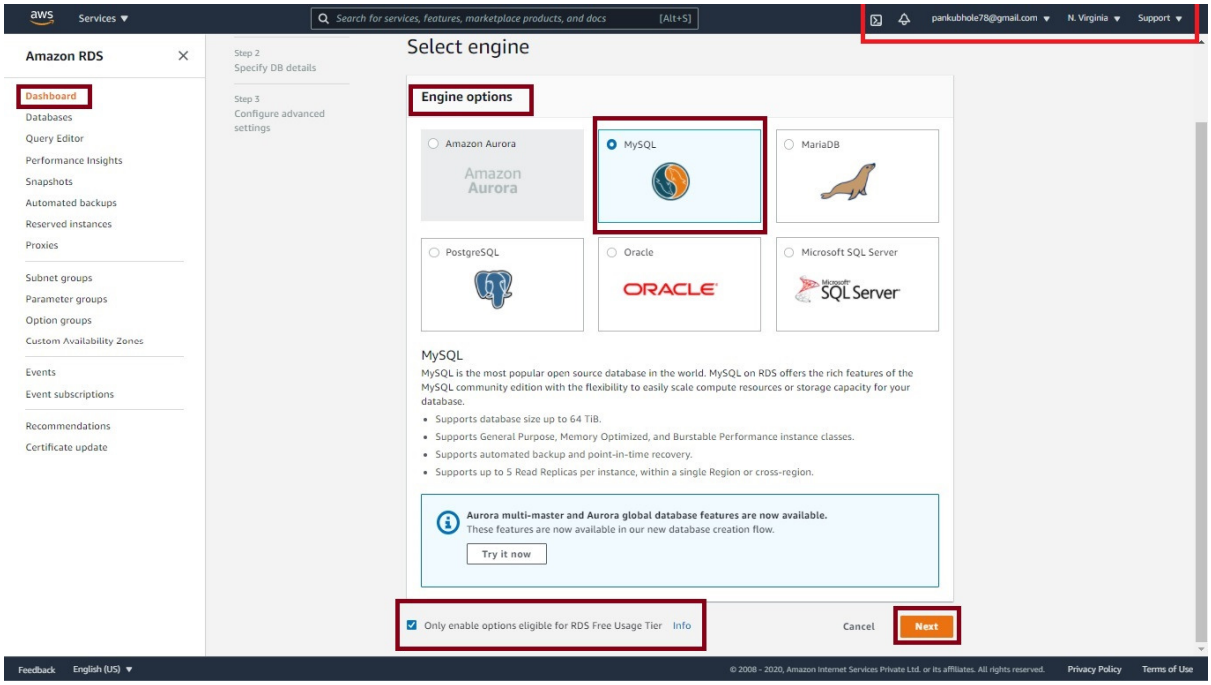
Assignment Day 13 and 14 | 13th December 2020

For any doubts regarding the assignment, ask questions in the AWS Group in Community.
Submit Assignments by 18th December 2020 11:59 PM.
Assignment Submit Form: https://forms.gle/Hgkz3CoTcUr5KA689
Submit assignments in Appropriate Dropdowns.

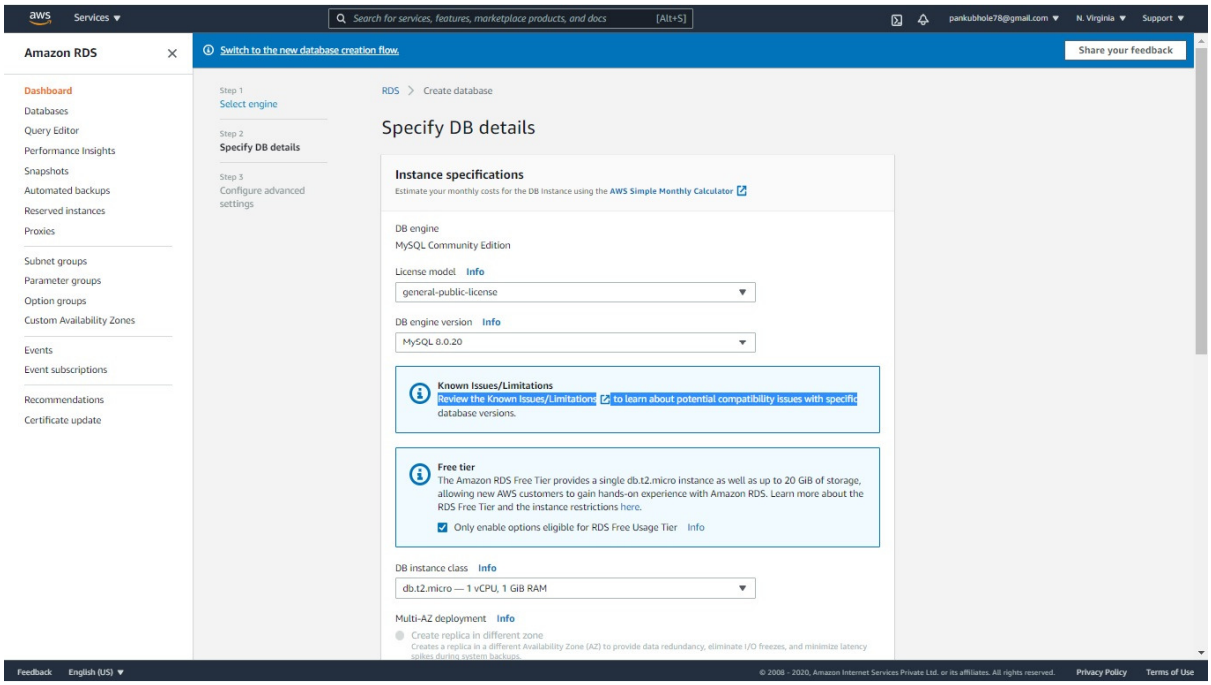
Question 1: Working with RDS

Task 1: Create an RDS Database Instance

- Ss1: Db instance page



- Ss2: DB instance details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Support
Amazon RDS
Switch to the new database creation flow.
Share your feedback
Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom Availability Zones
Events
Event subscriptions
Recommendations
Certificate update
Step 1
Select engine
Step 2
Specify DB details
Step 3
Configure advanced settings
RDS > Create database
Specify DB details
Instance specifications
Estimate your monthly costs for the DB Instance using the AWS Simple Monthly Calculator
DB engine
MySQL Community Edition
License model Info
general-public-license
DB engine version Info
MySQL 8.0.20
Known Issues/Limitations
Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.
Free tier
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GiB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions here.
Only enable options eligible for RDS Free Usage Tier Info
DB instance class Info
db.t2.micro — 1 vCPU, 1 GiB RAM
Multi-AZ deployment Info
Create replica in different zone
Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
Feedback
English (US)
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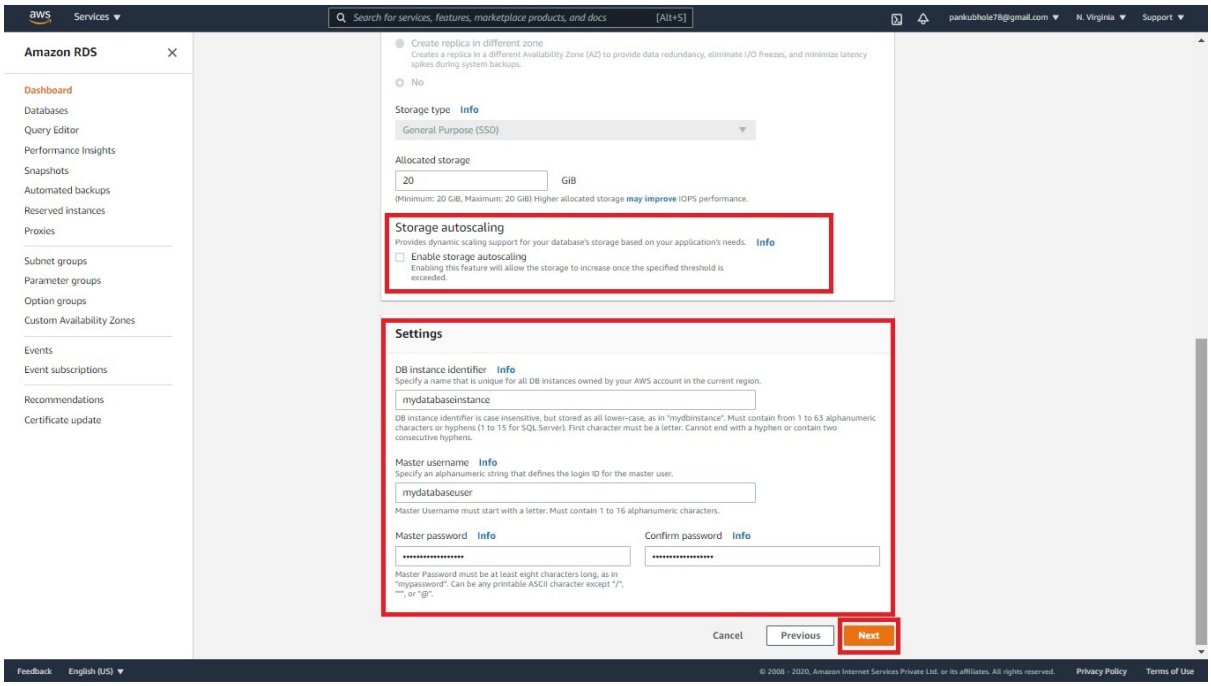
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Certificate update
Create replica in different zone
Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
No
Storage type Info
General Purpose (SSD)
Allocated storage
20
GiB
(Minimum: 20 GiB, Maximum: 20 GiB) Higher allocated storage may improve IOPS performance.
Storage autoscaling
Provides dynamic scaling support for your database's storage based on your application's needs. Info
Enable storage autoscaling
Enabling this feature will allow the storage to increase once the specified threshold is exceeded.
Settings
DB instance identifier Info
Specify a name that is unique for all DB instances owned by your AWS account in the current region.
mydatabaseinstance
DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Must contain from 1 to 63 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.
Master username Info
Specify an alphanumeric string that defines the login ID for the master user.
mydatabaseuser
Master Username must start with a letter. Must contain 1 to 16 alphanumeric characters.
Master password Info
Confirm password Info
Master Password must be at least eight characters long, as in "mypassword". Can be any printable ASCII character except "/", """, or "@".
Cancel
Previous
Next
Feedback
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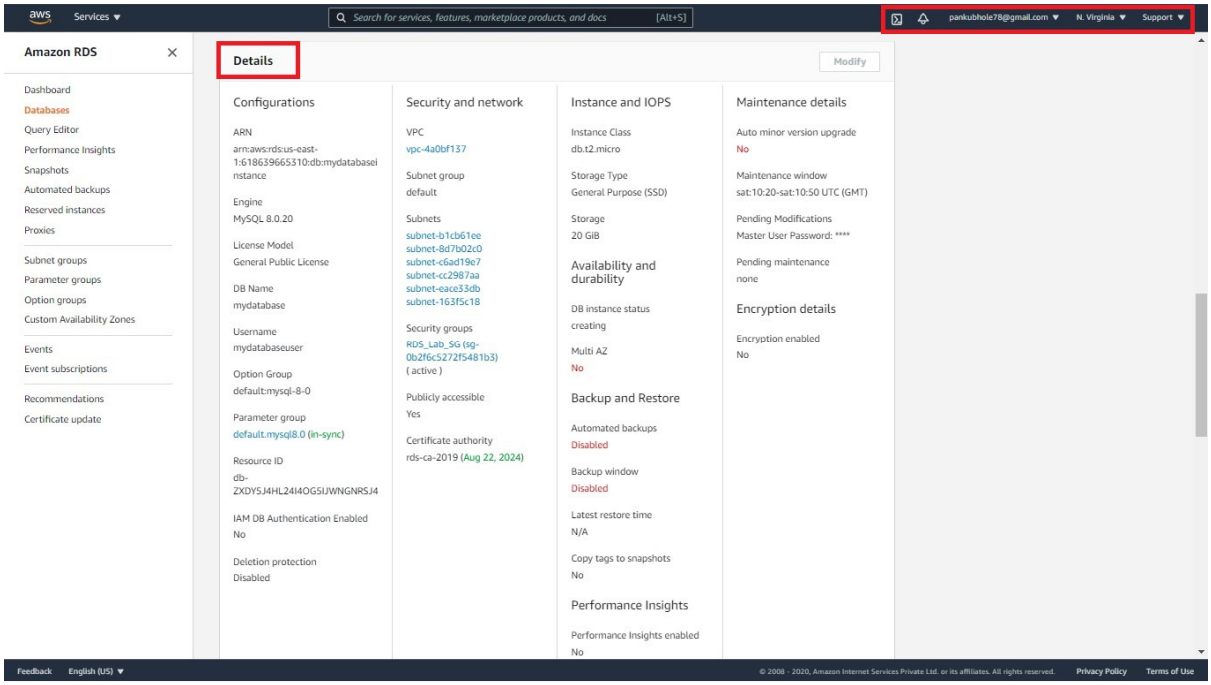
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Parameter groups
Option groups
Custom Availability Zones
Events
Event subscriptions
Recommendations
Certificate update
Details
Modify
Configurations
ARN
arn:aws:rds:us-east-1:618639665310:db:mydatabaseinstance
Engine
MySQL 8.0.20
License Model
General Public License
DB Name
mydatabase
Username
mydatabaseuser
Option Group
default:mysql-8-0
Parameter group
default.mysql8.0 (in-sync)
Resource ID
db-ZXDY5J4HL24I4OG5IJWNGNRSJ4
IAM DB Authentication Enabled
No
Deletion protection
Disabled
Security and network
VPC
vpc-4a0bf137
Subnet group
default
Subnets
subnet-b1cb61ee
subnet-8d7b02c0
subnet-c6ad19e7
subnet-cc2987aa
subnet-eace33db
subnet-163f5c18
Security groups
RDS_Lab_SG (sg-0b2f6c5272f5481b3) (active)
Publicly accessible
Yes
Certificate authority
rds-ca-2019 (Aug 22, 2024)
Instance and IOPS
Instance Class
db.t2.micro
Storage Type
General Purpose (SSD)
Storage
20 GiB
Availability and durability
DB instance status
creating
Multi AZ
No
Backup and Restore
Automated backups
Disabled
Backup window
Disabled
Latest restore time
N/A
Copy tags to snapshots
No
Performance Insights
Performance Insights enabled
No
Maintenance details
Auto minor version upgrade
No
Maintenance window
sat:10:20-sat:10:50 UTC (GMT)
Pending Modifications
Master User Password: ****
Pending maintenance
none
Encryption details
Encryption enabled
No
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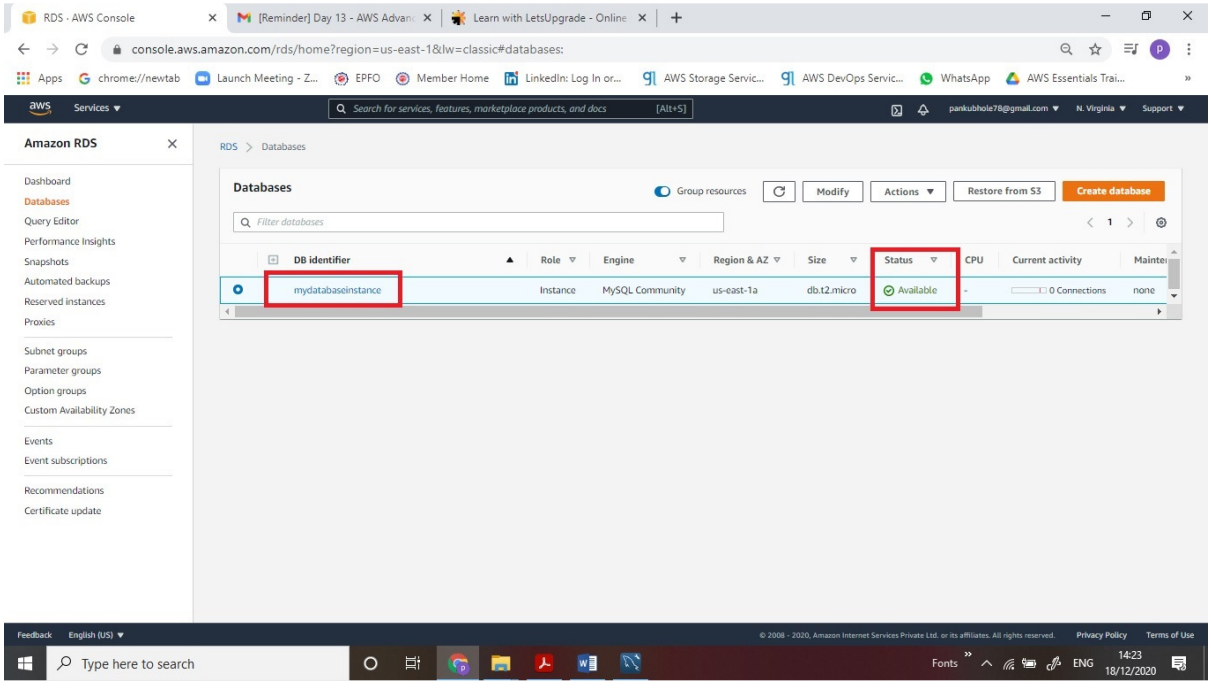
RDS - AWS Console
[Reminder] Day 13 - AWS Advan
Learn with LetsUpgrade - Online
console.aws.amazon.com/rds/home?region=us-east-1&lw=classic#databases:
Apps
chrome://newtab
Launch Meeting - Z...
EPFO
Member Home
LinkedIn: Log In or...
AWS Storage Servic...
AWS DevOps Servic...
WhatsApp
AWS Essentials Trai...
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Events
Event subscriptions
Recommendations
Certificate update
RDS > Databases
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter databases
DB identifier
Role
Engine
Region & AZ
Size
Status
CPU
Current activity
Maintenance
mydatabaseinstance
Instance
MySQL Community
us-east-1a
db.t2.micro
Available
0 Connections
none
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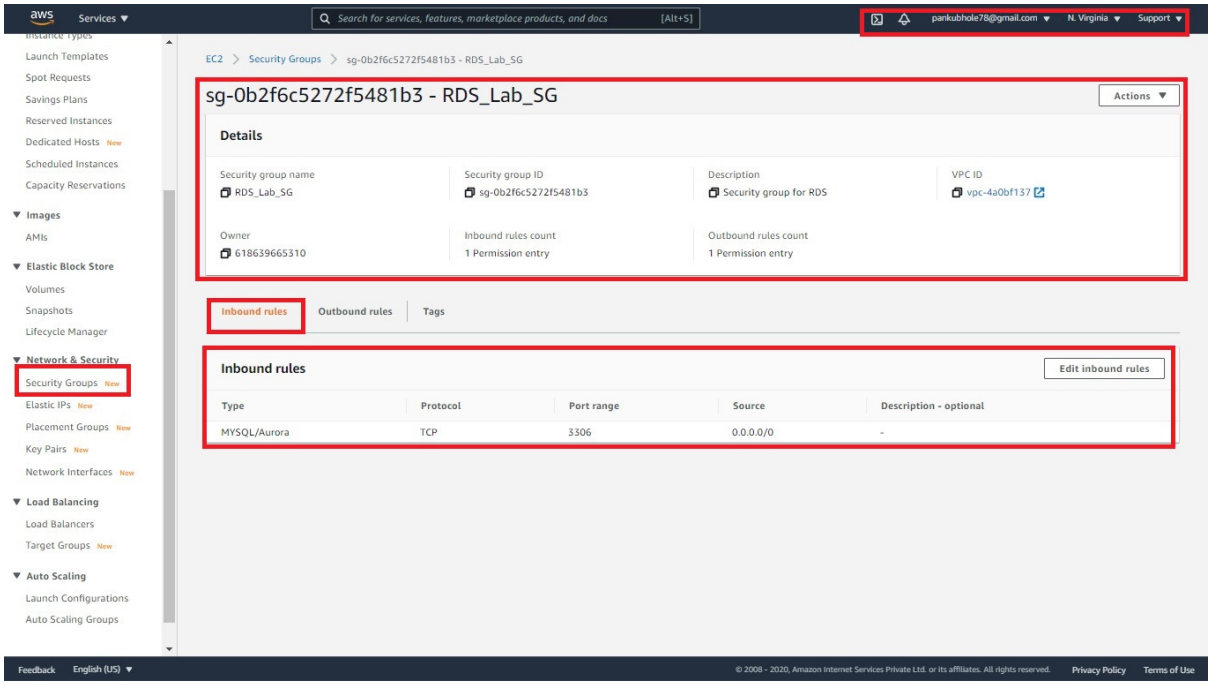
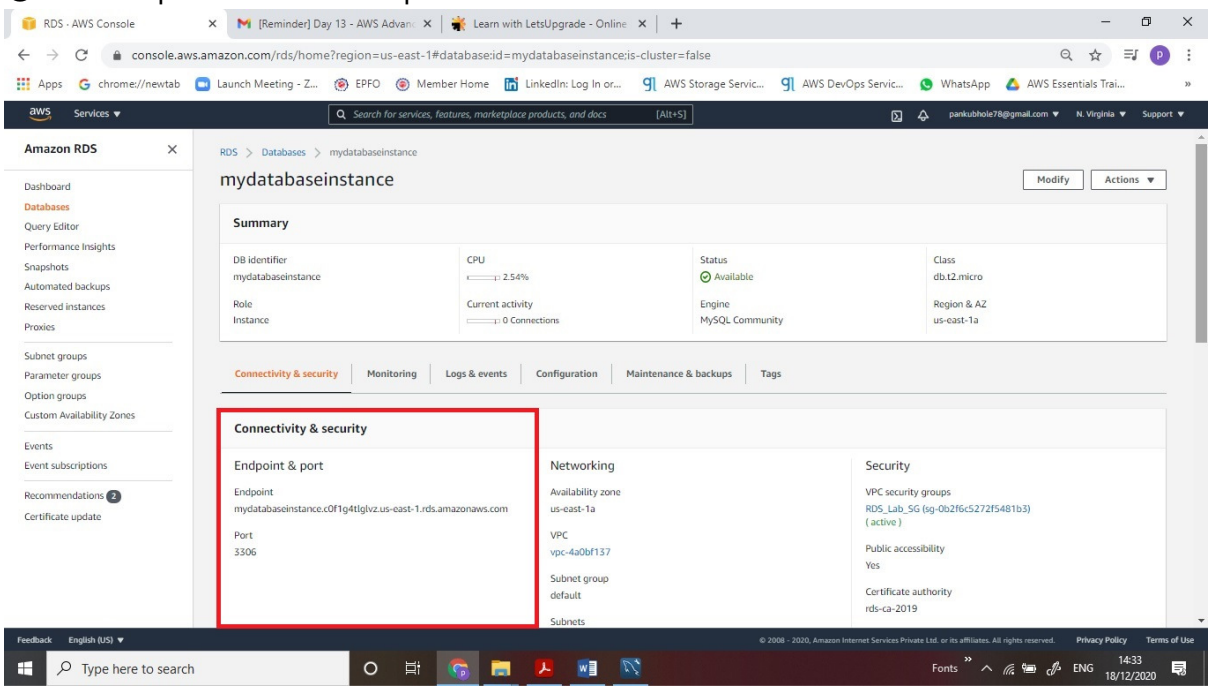
Fonts
ENG
14:23
18/12/2020

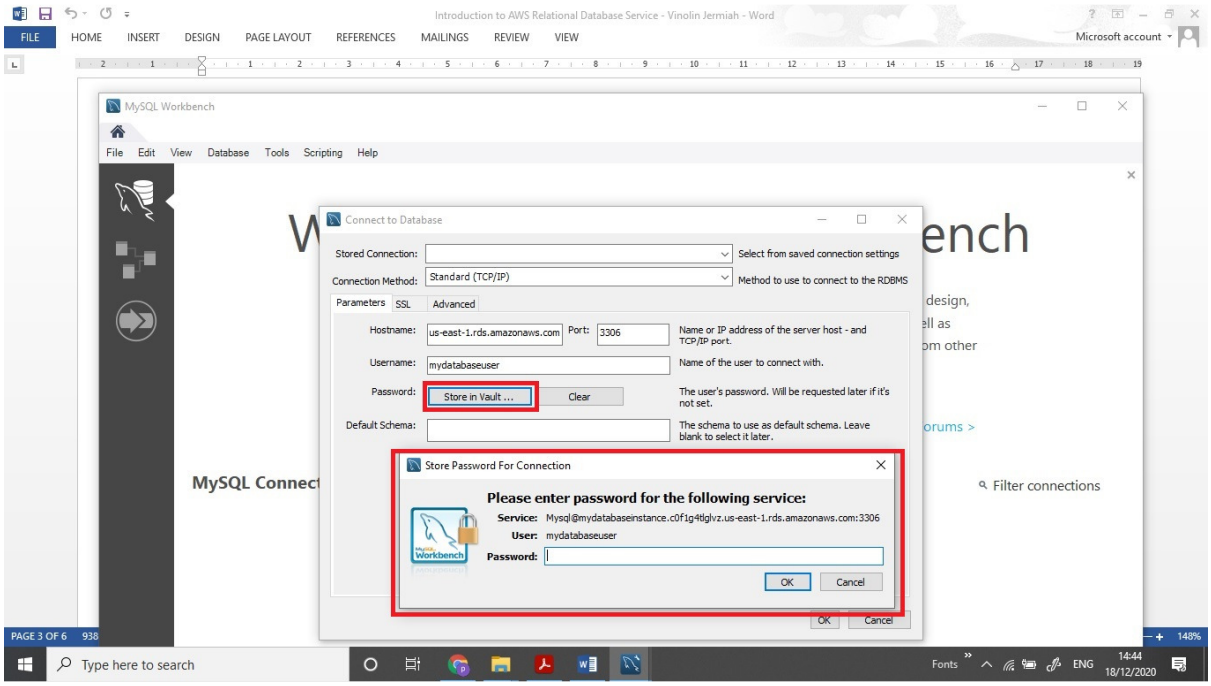
● Ss3: security group inbound rules+multiple changes made to a security group



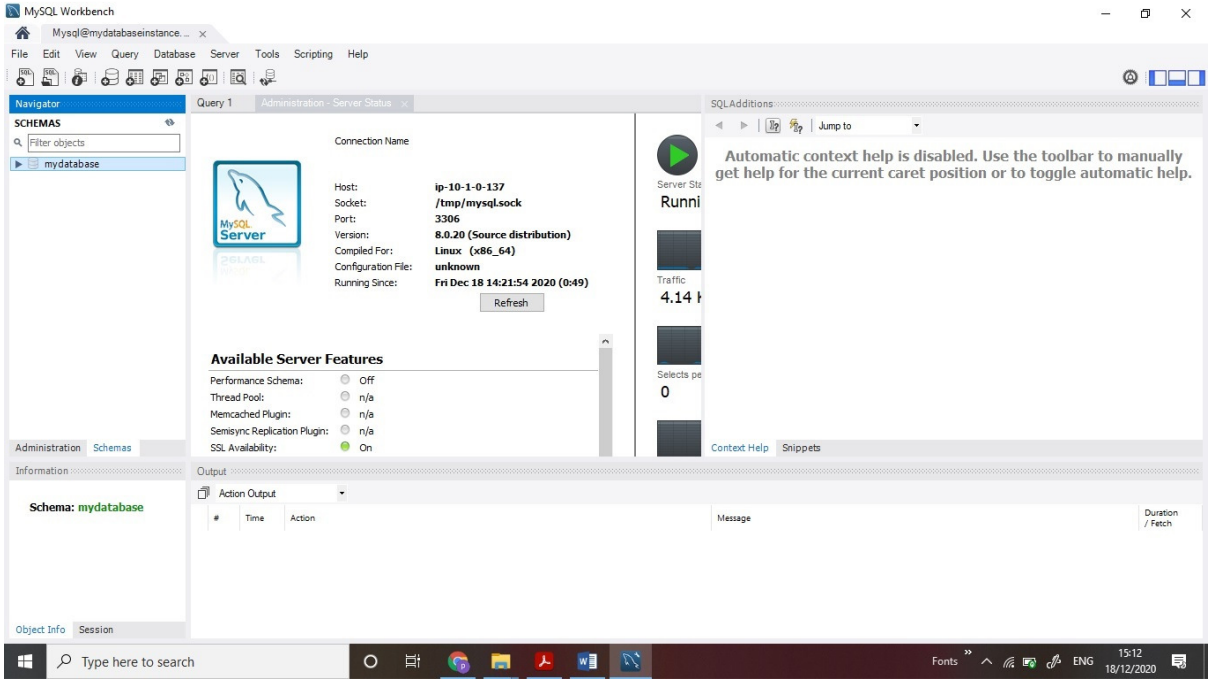
● Ss4: sql workbench endpoint added



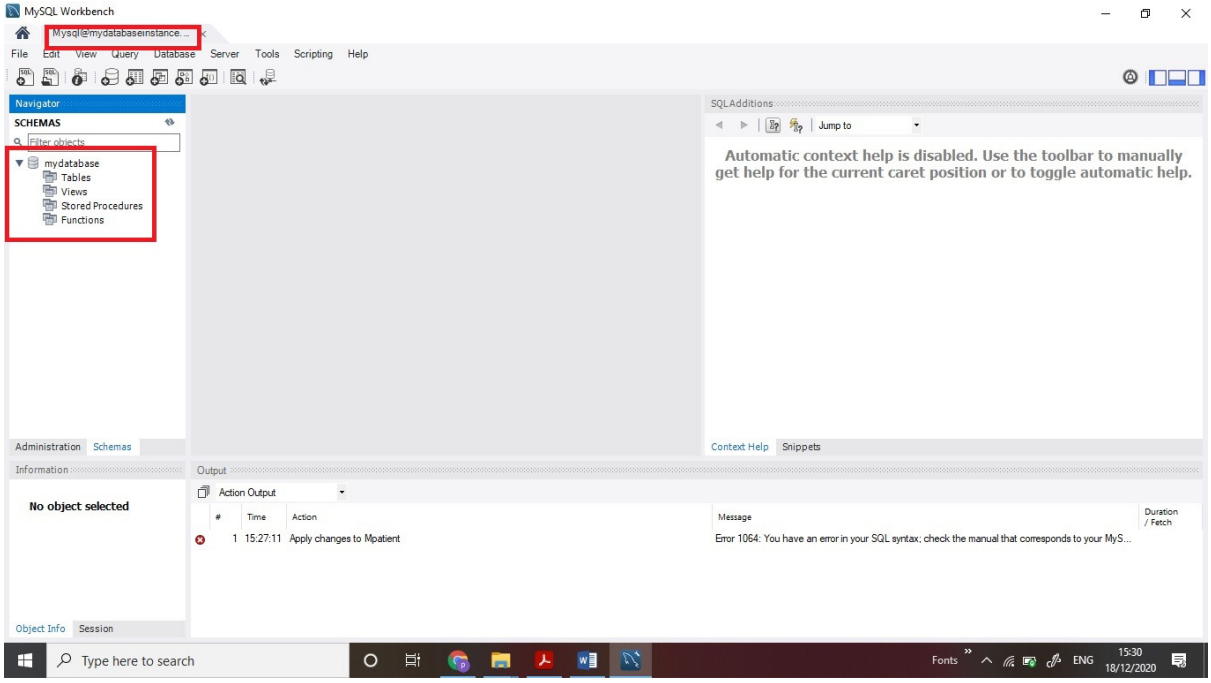
● Ss5: secret vault entry



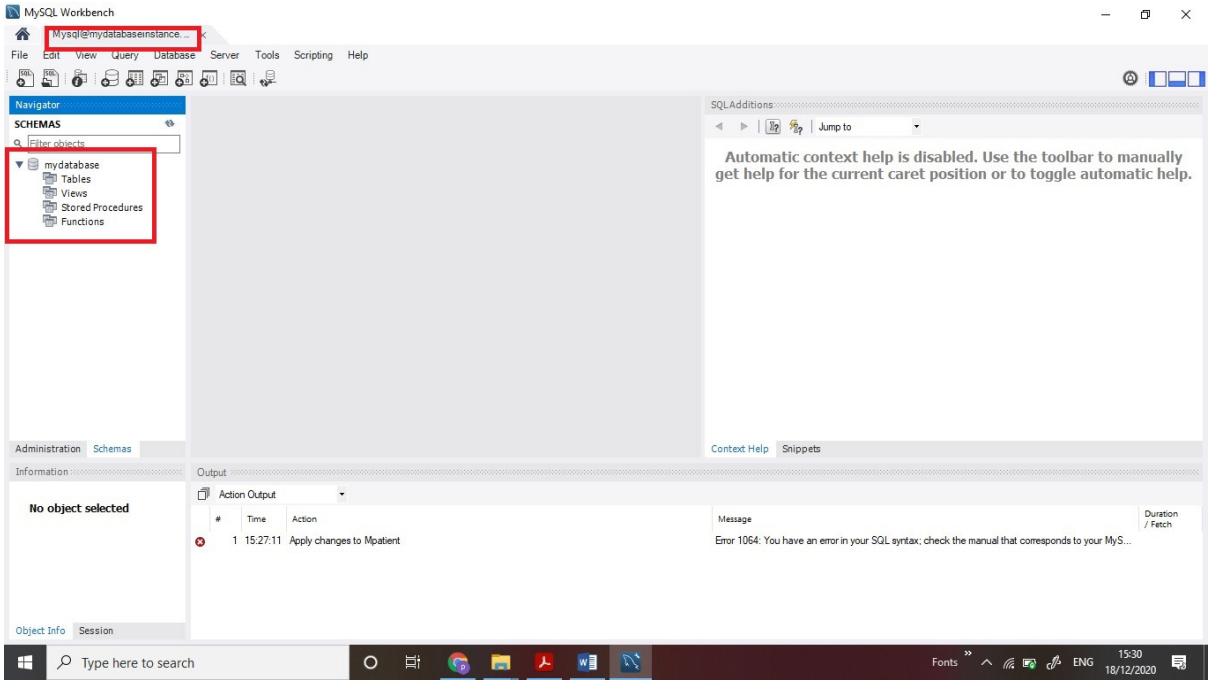
● Ss6: confirm connectivity screen

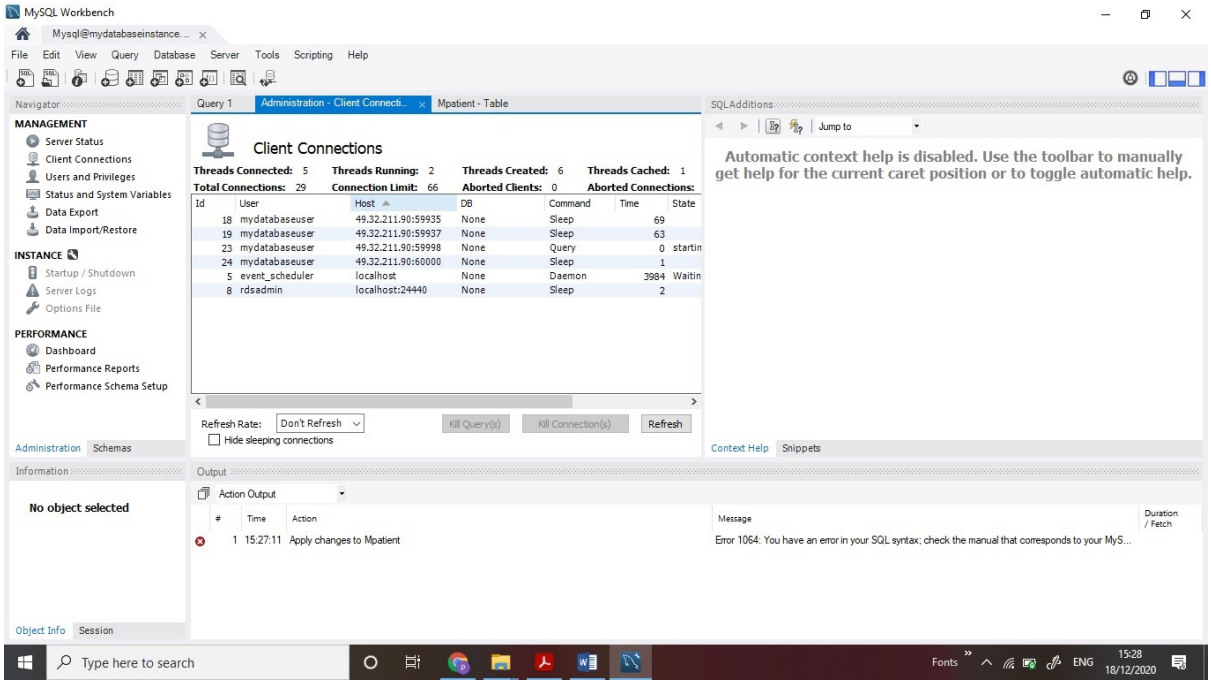


Task 2: Connecting to RDS Database on a DB Instance using the MySQL Workbench



Task 3: Test Connection




MySQL Workbench
Mysql@mydatabaseinstance...
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Administration - Client Connecti...
Mpatient - Table
Client Connections
Threads Connected: 5
Threads Running: 2
Threads Created: 6
Threads Cached: 1
Total Connections: 29
Connection Limit: 66
Aborted Clients: 0
Aborted Connections:
Id User Host DB Command Time State
18 mydatabaseuser 49.32.211.90:59935 None Sleep 69
19 mydatabaseuser 49.32.211.90:59937 None Sleep 63
23 mydatabaseuser 49.32.211.90:59998 None Query 0 startin
24 mydatabaseuser 49.32.211.90:60000 None Sleep 1
5 event_scheduler localhost None Daemon 3984 Waitin
8 rdsadmin localhost:24440 None Sleep 2
Refresh Rate: Don't Refresh
Kill Query(s)
Kill Connection(s)
Refresh
Hide sleeping connections
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
1 15:27:11 Apply changes to Mpatient Error 1064: You have an error in your SQL syntax; check the manual that corresponds to your MyS...
Type here to search
Fonts
ENG
15:28
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