

# Advance AWS

## AWS Project- 1 (Day -13)

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Teacher:

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Course:

Advance AWS Cloud Computing with DevOps  
Fundamentals

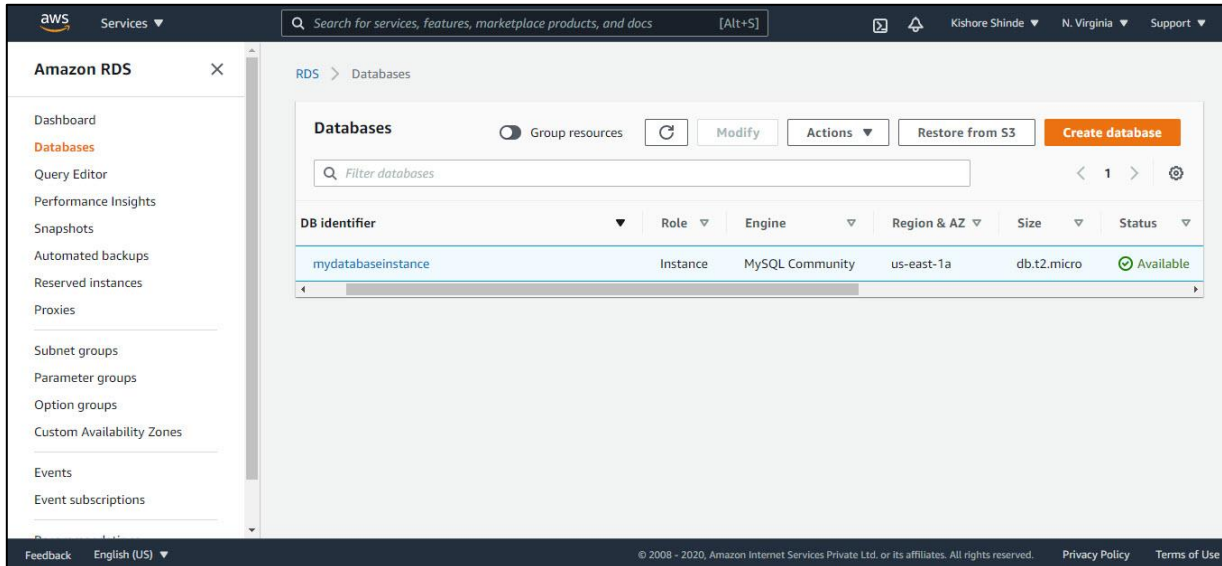
Institute:

Lets Upgrade

## Project 1: Working with RDS

Task : Create an RDS Database Instance & Connect using MySQL Workbench

### SS1 : DB Instance Page



S. No.	Name	Region	Size	Status
1.	mydatabaseinstance	us-east-1a	t2.micro	Available

## SS2 : DB Instance Details

The screenshot displays the AWS Management Console interface for an Amazon RDS database instance. The breadcrumb navigation shows 'RDS > Databases > mydatabaseinstance'. The instance name 'mydatabaseinstance' is prominently displayed at the top, with 'Modify' and 'Actions' buttons to its right. Below this, a 'Summary' section provides key metrics: DB identifier (mydatabaseinstance), CPU usage (2.20%), Status (Available), Class (db.t2.micro), Role (Instance), Current activity (0 Connections), Engine (MySQL Community), and Region & AZ (us-east-1a). A horizontal menu below the summary includes 'Connectivity & security' (selected), 'Monitoring', 'Logs & events', 'Configuration', 'Maintenance & backups', and 'Tags'. The 'Connectivity & security' section is divided into three panels: 'Endpoint & port', 'Networking', and 'Security'. In the 'Endpoint & port' panel, the 'Endpoint' (mydatabaseinstance.cstu0xajsmga.us-east-1.rds.amazonaws.com) and 'Port' (3306) are highlighted with red boxes. The 'Networking' panel lists the availability zone (us-east-1a), VPC (vpc-4514e238), subnet group (default), and subnets. The 'Security' panel shows the VPC security groups (RDS\_Lab\_SG (sg-0906d62c7d704aa1d) (active)), public accessibility (Yes), certificate authority (rds-ca-2019), and certificate authority date (Aug 22nd, 2024). Below these panels, the 'Security group rules (2)' section shows a table with two rules: an inbound rule for RDS\_Lab\_SG (sg-0906d62c7d704aa1d) with a CIDR/IP of 0.0.0.0/0, and an outbound rule for the same group with a CIDR/IP of 0.0.0.0/0. The 'Replication (1)' section shows a single replication instance with the same DB instance name, role, region, and replication state.

**Summary**

DB identifier mydatabaseinstance	CPU 2.20%	Status Available	Class db.t2.micro
Role Instance	Current activity 0 Connections	Engine MySQL Community	Region & AZ us-east-1a

**Connectivity & security**

**Endpoint & port**

Endpoint mydatabaseinstance.cstu0xajsmga.us-east-1.rds.amazonaws.com
Port 3306

**Networking**

Availability zone us-east-1a
VPC vpc-4514e238
Subnet group default
Subnets subnet-f134ee97 subnet-ec9c03e2 subnet-a819f099 subnet-09a7d244 subnet-b0b91fef subnet-cf8222ee

**Security**

VPC security groups RDS_Lab_SG (sg-0906d62c7d704aa1d) (active)
Public accessibility Yes
Certificate authority rds-ca-2019
Certificate authority date Aug 22nd, 2024

**Security group rules (2)**

Security group	Type	Rule
RDS_Lab_SG (sg-0906d62c7d704aa1d)	CIDR/IP - Inbound	0.0.0.0/0
RDS_Lab_SG (sg-0906d62c7d704aa1d)	CIDR/IP - Outbound	0.0.0.0/0

**Replication (1)**

DB instance	Role	Region & AZ	Replication source	Replication state	Lag
mydatabaseinstance	Instance	us-east-1a	-	-	-

Sr. No.	Endpoint	Port	Security Group
1	mydatabaseinstance.cstu0xajsmga.us-east-1.rds.amazonaws.com	3306	RDS_Lab_SG

## SS3 : Security Inbound Rules + Multiple Changes made to Security Group

**Create security group** [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

**Basic details**

Security group name [Info](#)  
  
Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

**Inbound rules** [Info](#)

Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	
MySQL/Aurora	TCP	3306	Custom <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<input type="button" value="Delete"/>

Sr. No	Security Group Name	Inbound Rules		
		Type	Source	Value
1	RDS_Lab_SG	MySQLAurora	Custom	0.0.0.0/0

**Edit inbound rules** [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

**Inbound rules** [Info](#)

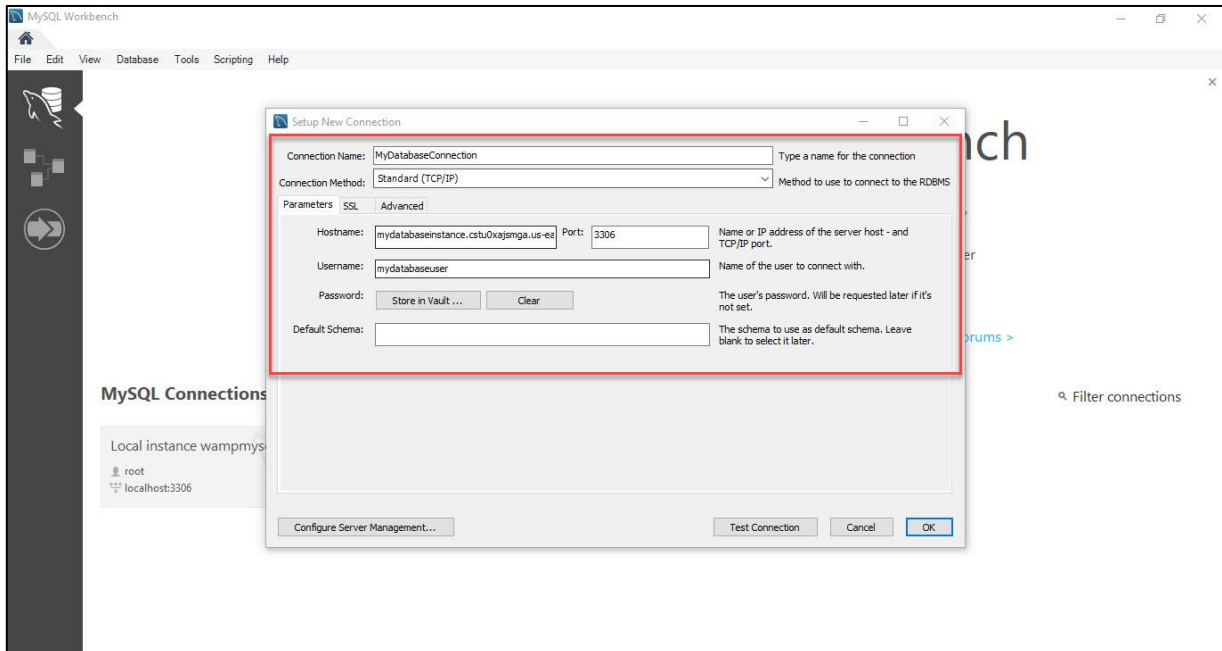
Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	
MySQL/Aurora	TCP	3306	Anywh... <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<input type="button" value="Delete"/>
			<input type="text" value=":::/0"/>		

**NOTE:** Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

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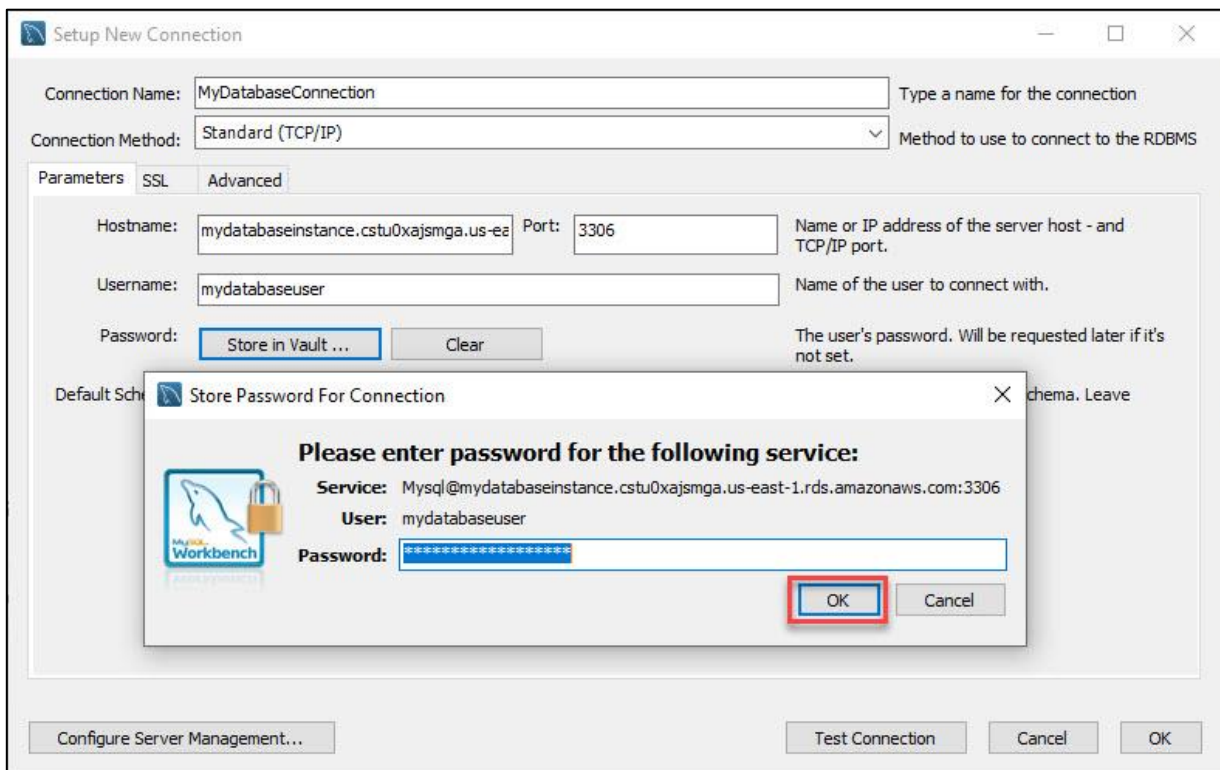
Sr. No	Security Group Name	Inbound Rules		
		Type	Source	Value
1	RDS_Lab_SG	MySQLAurora	Anywhere	<ul style="list-style-type: none"> <li>0.0.0.0/0</li> <li>:::0</li> </ul>

## SS4 : SQL Workbench Endpoint



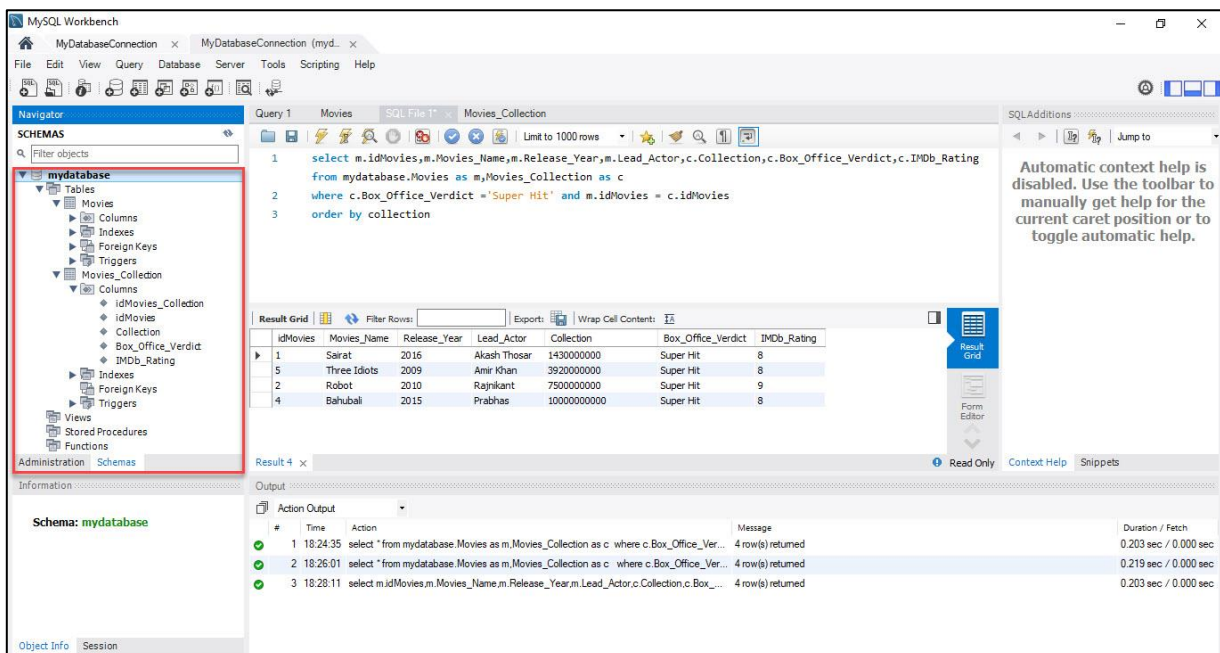
Sr. No.	Connection Name	Hostname	Port	Username
1	MyDatabaseConnection	mydatabaseinstance.cstu0xajsmga.us-east-1.rds.amazonaws.com	3306	mydatabaseuser

## SS5 : Secret Vault Entry



## SS6 : Confirm Connectivity Screen

### Screen 1 : Tables and Query Executed



- Table Names – Movies, Movies\_Collection

## Screen 2 : View Executed

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the database structure, with 'SuperHit\_Movies\_Collection' highlighted under the 'Views' section. The central 'Query' pane contains the SQL statement: `SELECT * FROM mydatabase.SuperHit_Movies_Collection;`. Below the query, the 'Result Grid' shows the output of the query, which is a table with 7 columns: idMovies, Movies\_Name, Release\_Year, Lead\_Actor, Collection, Box\_Office\_Verdict, and IMDb\_Rating. The table contains 4 rows of data. On the right, a message states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.' Below the query pane, the 'Output' pane shows the 'Action Output' for the query execution, including the time taken and the number of rows returned.

idMovies	Movies_Name	Release_Year	Lead_Actor	Collection	Box_Office_Verdict	IMDb_Rating
1	Sairat	2016	Akash Thosar	1430000000	Super Hit	8
5	Three Idiots	2009	Amir Khan	3920000000	Super Hit	8
2	Robot	2010	Rajnikant	7500000000	Super Hit	9
4	Bahubali	2015	Prabhas	10000000000	Super Hit	8

- View Name : Superhit\_Movies\_Collection

xxx---Project 1 Ends Here---xxx