

# **CLOUD COMPUTING PROJECT**

Deployment of Web App on AWS Cloud

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Web app

Instances | EC2 Management Console

Databases - RDS Management Console

Login Page

54.205.196.109

New TabImported from ChromePESU CSE 6 Sem - ...

Hotel Management System

Username

Enter username

Password

Password

Submit

Instances | EC2 Management Console

Databases - RDS Management Console

Hotel Management System

54.205.196.109/verify\_otp

New TabImported from ChromePESU CSE 6 Sem - ...

Hotel Management System

+ Add

+ Make New Reservation

RoomsReservationsCustomersEmployees

Room No.	Room Type	Capacity	Description	Price	Status		
1	Sea View Room	3	sea view	Rs. 11000	Empty		
2	Deluxe Room	4	deluxe	Rs. 15000	Empty		

Import From CSVExport To CSV

Clear Database

Instances | EC2 Management Console

Databases - RDS Management Console

Hotel Management System

54.205.196.109/reservation

New TabImported from ChromePESU CSE 6 Sem - ...

Hotel Management System

Make a Reservation

Customer Details

Customer Name

Room no.

Select A Room

From

dd-mm-yyyy

To

dd-mm-yyyy

Transaction Details

Transaction ID

Transaction ID

Date:

dd-mm-yyyy

Payment Mode:

Payment Mode

Amount:

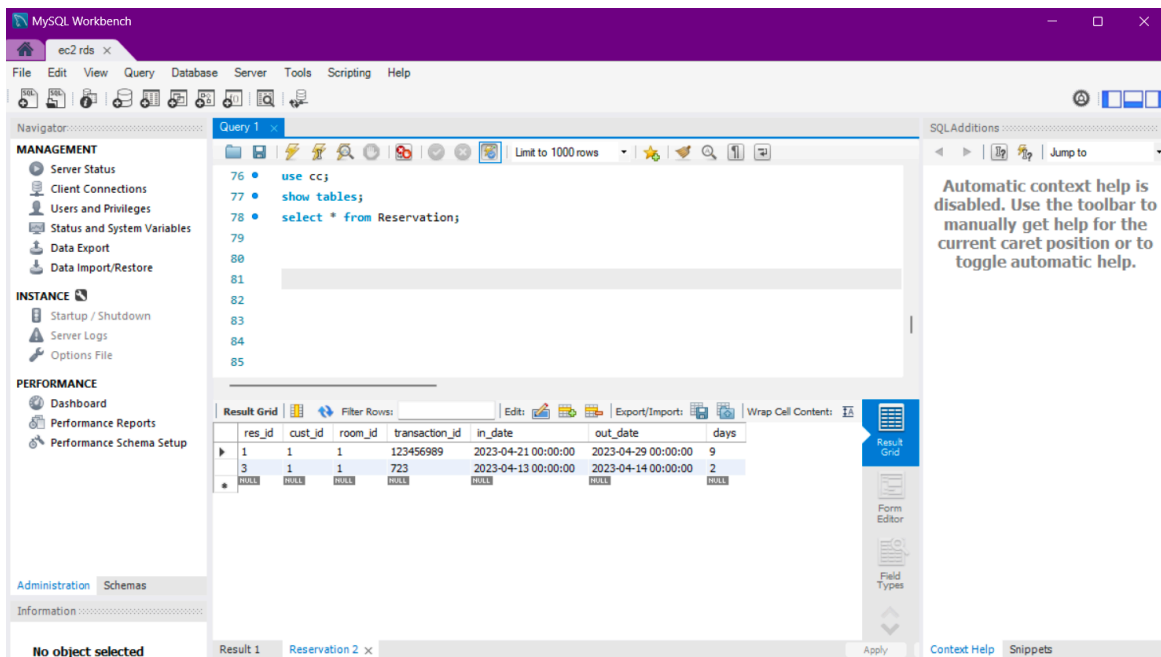
Amount

Payment Status:

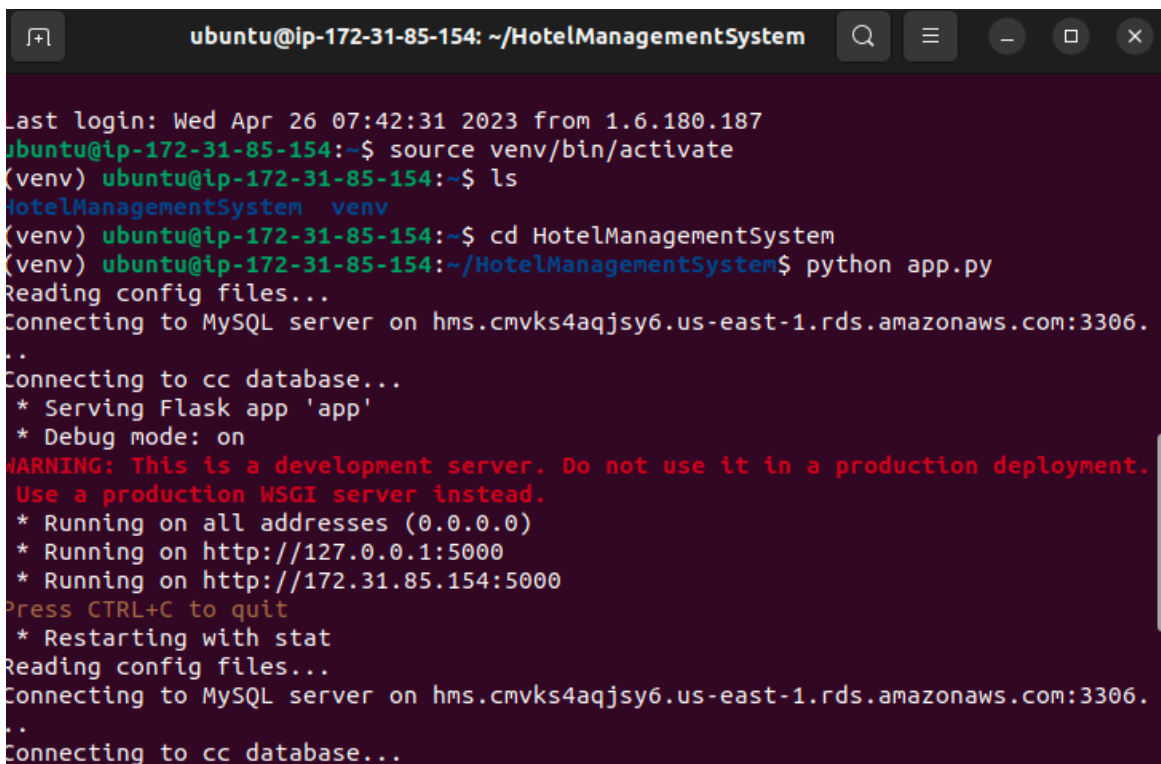
Success

Submit

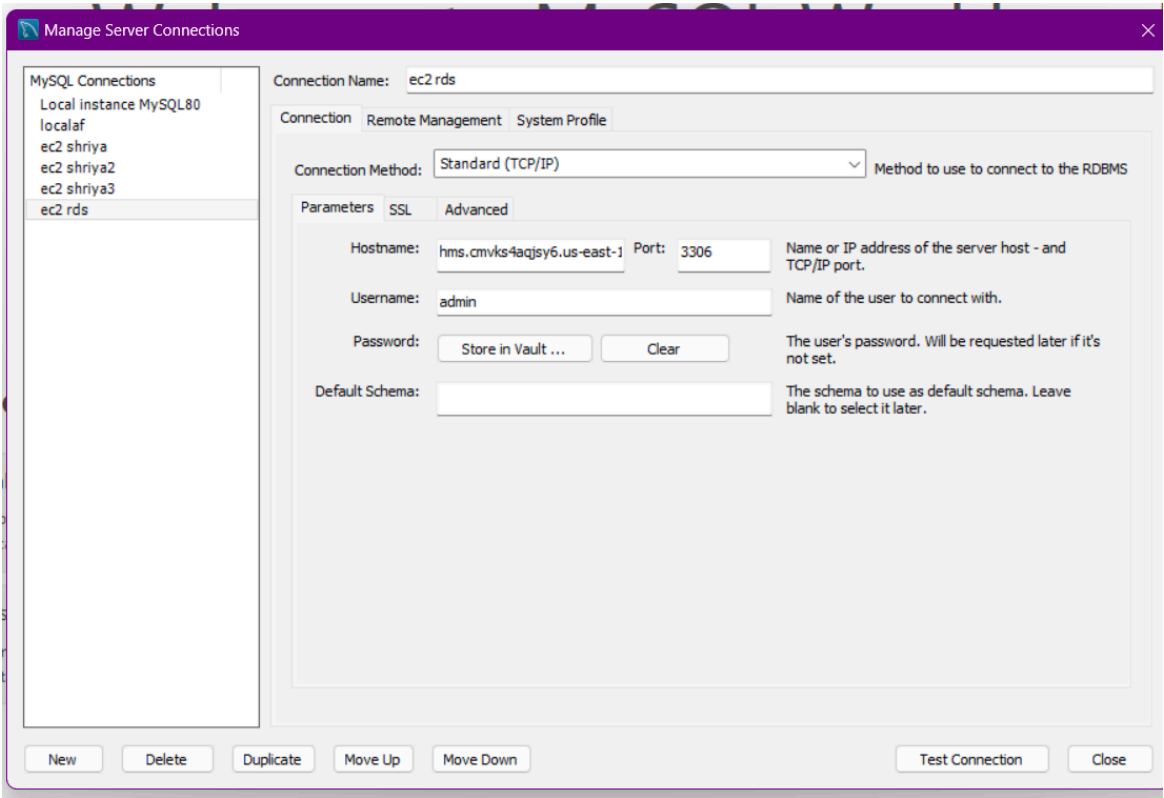
## Database using RDS on AWS



## EC2 deployment



AWS connection to SQL Workbench



## AWS cloud RDS and EC2 instances running

The screenshot shows the Amazon RDS console for an instance named 'hms'. The left sidebar contains navigation options like 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, Events, Event subscriptions, Recommendations, and Certificate update. The main content area shows the instance summary with the following details:

DB identifier	CPU	Status	Class
hms	4.07%	Available	db.t2.micro

Role	Current activity	Engine	Region & AZ
Instance	6 Connections	MySQL Community	us-east-1b

Below the summary, there are tabs for Connectivity & security, Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The Connectivity & security tab is active, showing details for Endpoint & port, Networking, and Security.

Endpoint & port	Networking	Security
Endpoint: hms.cmvks4aqsy6.us-east-1.rds.amazonaws.com Port: 3306	Availability Zone: us-east-1b VPC: vpc-0cc78d2cc61b5a40f Subnet group	VPC security groups: rds-ec2-2 (sg-04dd4373ad4cee7a6) - Active, hms-rds (sg-04c1302bcf8babc5) - Active Publicly accessible

The screenshot shows the Amazon EC2 console for an instance named 'hms'. The left sidebar contains navigation options like EC2 Dashboard, EC2 Global View, Events, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager. The main content area shows the instance summary for 'i-0ba682e07a1e2e2b0' with the following details:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0ba682e07a1e2e2b0 (hms)	54.205.196.109   open address	172.31.85.154

Instance state	Private IP DNS name (IPv4 only)	Public IPv4 DNS
Running	ip-172-31-85-154.ec2.internal	ec2-54-205-196-109.compute-1.amazonaws.com   open address

Hostname type	Instance type	Elastic IP addresses
IP name: ip-172-31-85-154.ec2.internal	t2.micro	-

Answer private resource DNS name IPv4 (A)	VPC ID	AWS Compute Optimizer finding
54.205.196.109 [Public IP]	vpc-0cc78d2cc61b5a40f	Opt-in to AWS Compute Optimizer for recommendations.   Learn more

Auto-assigned IP address	Subnet ID	Auto Scaling Group name
54.205.196.109 [Public IP]	subnet-0f35e33dbfe8664af	-

IAM Role	IMDSv2	Optional
-	-	-