

RDS INTEGRATION WITH EC2

Create ec2 instance - in security group

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The browser address bar indicates the URL is `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard:`. The navigation bar at the top includes the AWS logo, 'Services' link, a search bar, and the user's name 'Nithin'.

The wizard progress bar shows seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group (currently active), and 7. Review.

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a **new** security group
☐ Select an **existing** security group

Security group name:

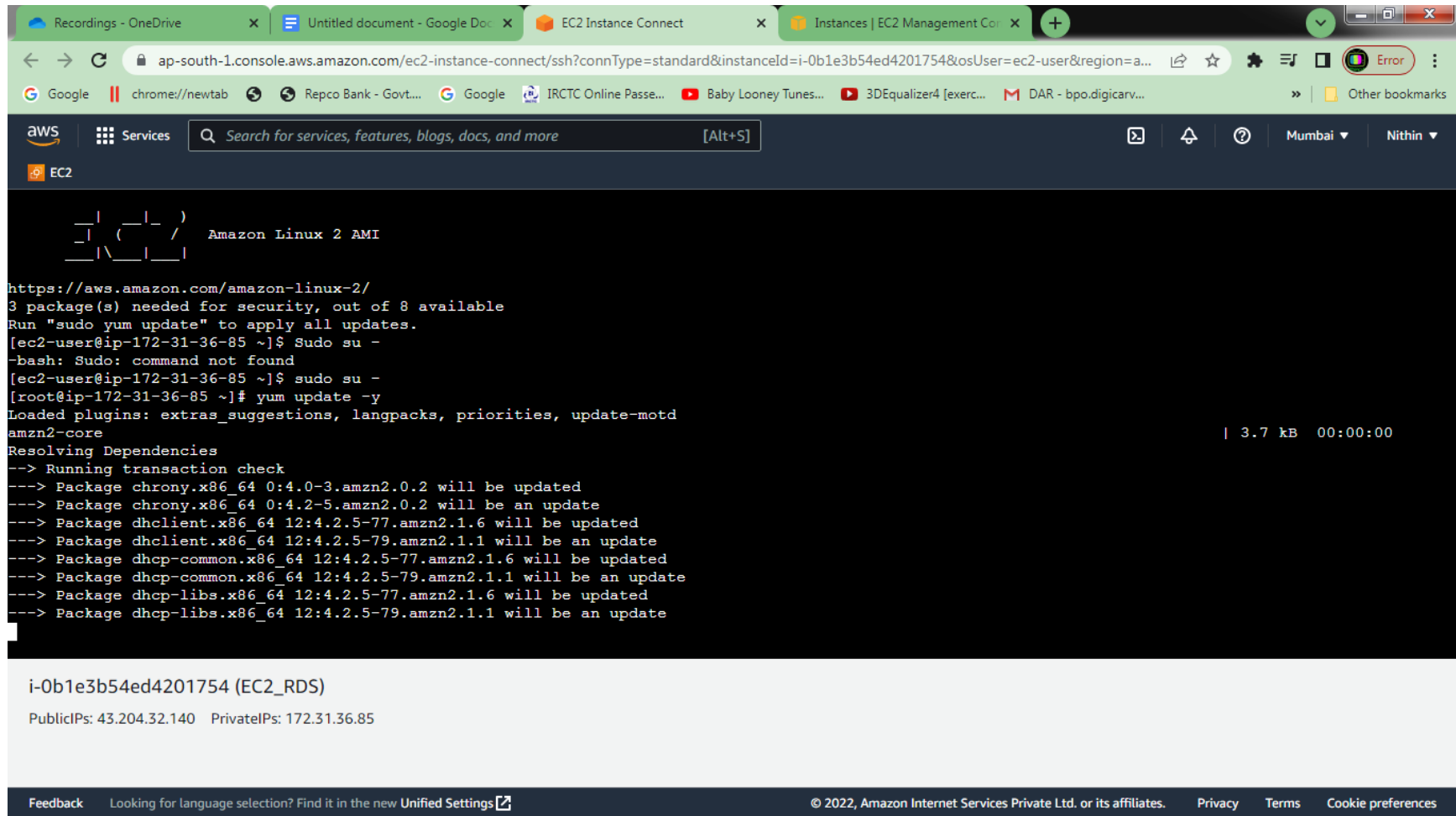
Description:

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description <small>i</small>
MySQL/Aurora <small>v</small>	TCP	3306	Custom <small>v</small> 0.0.0.0/0	e.g. SSH for Admin Desktop <small>x</small>
SSH <small>v</small>	TCP	22	Custom <small>v</small> CIDR, IP or Security Group	e.g. SSH for Admin Desktop <small>x</small>
HTTPS <small>v</small>	TCP	443	Custom <small>v</small> 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop <small>x</small>
HTTP <small>v</small>	TCP	80	Custom <small>v</small> 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop <small>x</small>

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Sudo su - Yum update -y



The screenshot shows the AWS Management Console interface for an EC2 instance. The browser tabs include 'Recordings - OneDrive', 'Untitled document - Google Doc', 'EC2 Instance Connect', and 'Instances | EC2 Management Console'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0b1e3b54ed4201754&osUser=ec2-user®ion=a...`. The console header includes the AWS logo, 'Services' link, a search bar, and the user 'Nithin'.

The terminal window displays the following output:

```

  _ _ | _ _ | _ )
 _ | ( _ | /
 _ | \ _ | _ |

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-36-85 ~]$ Sudo su -
-bash: Sudo: command not found
[ec2-user@ip-172-31-36-85 ~]$ sudo su -
[root@ip-172-31-36-85 ~]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Resolving Dependencies
--> Running transaction check
---> Package chrony.x86_64 0:4.0-3.amzn2.0.2 will be updated
---> Package chrony.x86_64 0:4.2-5.amzn2.0.2 will be an update
---> Package dhclient.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
---> Package dhclient.x86_64 12:4.2.5-79.amzn2.1.1 will be an update
---> Package dhcp-common.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
---> Package dhcp-common.x86_64 12:4.2.5-79.amzn2.1.1 will be an update
---> Package dhcp-libs.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
---> Package dhcp-libs.x86_64 12:4.2.5-79.amzn2.1.1 will be an update

```

Below the terminal output, the instance details are shown:

i-0b1e3b54ed4201754 (EC2_RDS)

PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

The footer contains links for Feedback, language selection, and Unified Settings, along with copyright information for Amazon Internet Services Private Ltd. and links for Privacy, Terms, and Cookie preferences.

hostnamectl set-hostname ec2rdsmysql
exec bash

The screenshot shows the AWS Management Console for an EC2 instance named 'i-0b1e3b54ed4201754' in the 'ap-south-1' region. The console displays the 'Verify' tab for the instance's operating system, which is Amazon Linux 2. The 'Verify' tab shows a list of packages being verified, including 'gnupg2-2.0.22-5.amzn2.0.5.x86_64', 'chrony-4.2-5.amzn2.0.2.x86_64', '12:dhcp-common-4.2.5-79.amzn2.1.1.x86_64', 'kernel-5.10.135-122.509.amzn2.x86_64', 'kernel-tools-5.10.135-122.509.amzn2.x86_64', 'tzdata-2022c-1.amzn2.noarch', 'gnupg2-2.0.22-5.amzn2.0.4.x86_64', '12:dhcp-libs-4.2.5-77.amzn2.1.6.x86_64', '12:dhclient-4.2.5-77.amzn2.1.6.x86_64', 'kernel-tools-5.10.130-118.517.amzn2.x86_64', 'tzdata-2022a-1.amzn2.noarch', '12:dhcp-common-4.2.5-77.amzn2.1.6.x86_64', and 'chrony-4.0-3.amzn2.0.2.x86_64'. The 'Installed' section shows 'kernel.x86_64 0:5.10.135-122.509.amzn2'. The 'Updated' section shows a list of packages to be updated, including 'chrony.x86_64 0:4.2-5.amzn2.0.2', 'dhclient.x86_64 12:4.2.5-79.amzn2.1.1', 'dhcp-common.x86_64 12:4.2.5-79.amzn2.1.1', 'dhcp-libs.x86_64 12:4.2.5-79.amzn2.1.1', 'gnupg2.x86_64 0:2.0.22-5.amzn2.0.5', 'kernel-tools.x86_64 0:5.10.135-122.509.amzn2', and 'tzdata.noarch 0:2022c-1.amzn2'. The 'Complete!' section shows the command 'hostnamectl set-hostname ec2rdsmysql' and 'exec bash' being executed. The console also displays the instance's PublicIPs (43.204.32.140) and PrivateIPs (172.31.36.85).

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0b1e3b54ed4201754&osUser=ec2-user®ion=a...

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EC2

Verifying : gnupg2-2.0.22-5.amzn2.0.5.x86_64 3/15
Verifying : chrony-4.2-5.amzn2.0.2.x86_64 4/15
Verifying : 12:dhcp-common-4.2.5-79.amzn2.1.1.x86_64 5/15
Verifying : kernel-5.10.135-122.509.amzn2.x86_64 6/15
Verifying : kernel-tools-5.10.135-122.509.amzn2.x86_64 7/15
Verifying : tzdata-2022c-1.amzn2.noarch 8/15
Verifying : gnupg2-2.0.22-5.amzn2.0.4.x86_64 9/15
Verifying : 12:dhcp-libs-4.2.5-77.amzn2.1.6.x86_64 10/15
Verifying : 12:dhclient-4.2.5-77.amzn2.1.6.x86_64 11/15
Verifying : kernel-tools-5.10.130-118.517.amzn2.x86_64 12/15
Verifying : tzdata-2022a-1.amzn2.noarch 13/15
Verifying : 12:dhcp-common-4.2.5-77.amzn2.1.6.x86_64 14/15
Verifying : chrony-4.0-3.amzn2.0.2.x86_64 15/15

Installed:
kernel.x86_64 0:5.10.135-122.509.amzn2

Updated:
chrony.x86_64 0:4.2-5.amzn2.0.2 dhclient.x86_64 12:4.2.5-79.amzn2.1.1 dhcp-common.x86_64 12:4.2.5-79.amzn2.1.1
dhcp-libs.x86_64 12:4.2.5-79.amzn2.1.1 gnupg2.x86_64 0:2.0.22-5.amzn2.0.5 kernel-tools.x86_64 0:5.10.135-122.509.amzn2
tzdata.noarch 0:2022c-1.amzn2

Complete!
[root@ip-172-31-36-85 ~]# hostnamectl set-hostname ec2rdsmysql
[root@ip-172-31-36-85 ~]# exec bash
[root@ec2rdsmysql ~]#

i-0b1e3b54ed4201754 (EC2_RDS)
PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

Feedback Looking for language selection? Find it in the new Unified Settings

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Install my sql yum install mysql -y

The screenshot shows the AWS Management Console interface for an EC2 instance. The top navigation bar includes the AWS logo, a search bar, and user information (Mumbai, Nithin). The main content area displays the 'EC2' section with a table of installed packages. The table has columns for Package, Arch, Version, Repository, and Size. The package 'mariadb' is listed with Arch 'x86_64', Version '1:5.5.68-1.amzn2', Repository 'amzn2-core', and Size '8.8 M'. Below the table, a 'Transaction Summary' section shows the installation progress, including the total download size (8.8 M), installed size (49 M), and the download of the 'mariadb-5.5.68-1.amzn2.x86_64.rpm' package. The summary also indicates that the transaction check and test were successful. At the bottom, the instance details for 'i-0b1e3b54ed4201754 (EC2_RDS)' are shown, including PublicIPs (43.204.32.140) and PrivateIPs (172.31.36.85). The footer contains a feedback link, a language selection prompt, and copyright information for Amazon Internet Services Private Ltd. or its affiliates.

Package	Arch	Version	Repository	Size
Installing: mariadb	x86_64	1:5.5.68-1.amzn2	amzn2-core	8.8 M

Transaction Summary

Install 1 Package

Total download size: 8.8 M
Installed size: 49 M
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
Installed:
mariadb.x86_64 1:5.5.68-1.amzn2
Complete!
[root@ec2rdsmysql ~]#

i-0b1e3b54ed4201754 (EC2_RDS)
PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

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mysql --version

The screenshot shows the AWS Management Console interface with the EC2 Instance Connect terminal open. The terminal displays the installation of the mariadb package and the execution of the mysql --version command.

Transaction Summary

Install 1 Package

Total download size: 8.8 M
Installed size: 49 M
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
Installed:
mariadb.x86_64 1:5.5.68-1.amzn2
Complete!

```
[root@ec2rdsmysql ~]# mysql --version
bash: mysql: command not found
[root@ec2rdsmysql ~]# mysql --version
mysql Ver 15.1 Distrib 5.5.68-MariaDB, for Linux (x86_64) using readline 5.1
[root@ec2rdsmysql ~]#
```

i-0b1e3b54ed4201754 (EC2_RDS)

PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

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Open RDS

The screenshot shows the AWS Management Console interface. The browser's address bar displays the URL `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Home:`. The left sidebar contains navigation links for **EC2 Dashboard**, **Instances**, and **Images**. The main content area shows search results for 'rds'. A context menu is open over the RDS service card, displaying options: 'Open link in new tab', 'Open link in new window', 'Open link in incognito window', 'Save link as...', 'Copy link address', 'Download with IDM', and 'Inspect'. The footer of the console includes a 'Feedback' link, a language selection prompt, and copyright information for 2022.

Recordings - OneDrive x Untitled document - Google Doc x EC2 Instance Connect x Dashboard | EC2 Management Co x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Home:

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EC2

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs New

Search results for 'rds'

Services (9)

Features (25)

Blogs (1,524)

Documentation (62,744)

Knowledge Articles (30)

Tutorials (14)

Events (16)

Marketplace (361)

Services

See all 9 results ▶

RDS Amazon Relational Database Service

Top features

Dashboard Performance Insights Snapshots

Amazon VPC

Visualize and normalize data for analytics and machine learning

Kinesis ☆

Work with Real-Time Streaming Data

Amazon GameSparks ☆

Build, optimize, and scale customizable game features.

Features

See all 25 results ▶

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Click on create database

The screenshot shows the Amazon RDS console interface. The browser's address bar indicates the URL is `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:`. The left-hand navigation pane lists various RDS services, with 'Databases' currently selected. The main content area, titled 'Databases', features a 'Group resources' toggle, a 'Filter by databases' search bar, and a table with columns: DB identifier, Role, Engine, Region & AZ, Size, Status, and CPU. The table is currently empty, displaying 'No instances found'. A prominent orange 'Create database' button is located in the top right of the main content area. The footer contains links for Feedback, language selection, and settings, along with copyright information for Amazon Internet Services Private Ltd.

Click on standard create
Engine MYSQL

Recordings - OneDrive x Untitled document - Google Doc x Instances | EC2 Management Console x RDS Management Console x

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false

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EC2

Create database


Choose a database creation method [Info](#)


☒ **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](#)


☐ Amazon Aurora


☒ **MySQL**


☐ MariaDB


☐ PostgreSQL


☐ Oracle


☐ Microsoft SQL Server


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Select the free tier

The screenshot shows the AWS RDS console interface. At the top, the browser address bar displays the URL: `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false`. The AWS navigation bar includes the 'Services' search bar and the 'EC2' link. The main content area is titled 'MySQL 8.0.28' and features a 'Templates' section with three options: 'Production', 'Dev/Test', and 'Free tier'. The 'Free tier' option is selected, indicated by a blue circle and a blue border. Below the templates, the 'Settings' section is visible, showing the 'DB instance identifier' field with the value 'database-1'. The footer contains links for 'Feedback', 'Unified Settings', and copyright information for Amazon Internet Services Private Ltd. or its affiliates.

Recordings - OneDrive x Untitled document - Google Doc x Instances | EC2 Management Console x RDS Management Console x

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false

Google chrome://newtab Repco Bank - Govt... Google IRCTC Online Passe... Baby Looney Tunes... 3DEqualizer4 [exerc... DAR - bpo.digicarv... Other bookmarks

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EC2

MySQL 8.0.28

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. [Info](#)

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.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

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name-database

The screenshot shows the AWS RDS console interface for configuring a new database instance. The browser tabs at the top include 'Recordings - OneDrive', 'Untitled document - Google Doc', 'RDS Management Console', and 'Instances | EC2 Management Console'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false`. The AWS navigation bar at the top features the 'aws' logo, 'Services' link, a search bar, and the user's name 'Nithin'.

The main content area is titled 'MySQL 8.0.28' in a dropdown menu. Below this, the 'Templates' section is displayed with the instruction 'Choose a sample template to meet your use case.' Three templates are available: 'Production' (high availability and fast, consistent performance), 'Dev/Test' (development use outside of a production environment), and 'Free tier' (selected, for developing new applications or testing existing ones). The 'Free tier' template includes an 'Info' link.

The 'Settings' section is below the templates. It contains the 'DB instance identifier' field, which is labeled with an 'Info' link. The field contains the text 'database'. Below the field, a note states: 'The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.'

The footer of the console includes a 'Feedback' link, a language selection prompt, and copyright information for Amazon Internet Services Private Ltd. or its affiliates. Links for 'Privacy', 'Terms', and 'Cookie preferences' are also present.

Username admin
Password admin123

Recordings - OneDrive x | Untitled document - Google Doc x | RDS Management Console x | Instances | EC2 Management Console x | +

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false

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aws Services Search for services, features, blogs, docs, and more [Alt+S]

EC2

▼ Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter.

☐ Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

.....

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm 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](#)

☒ Standard classes (includes m classes)

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Recordings - OneDrive x Untitled document - Google Doc x RDS Management Console x Instances | EC2 Management Console x

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false

Google chrome://newtab Repco Bank - Govt... Google IRCTC Online Passe... Baby Looney Tunes... 3DEqualizer4 [exerc... DAR - bpo.digicarv... Other bookmarks

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai Nithin

EC2

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t2.micro
1 vCPUs 1 GiB RAM Not EBS Optimized

☐ Include previous generation classes

Storage

Storage type [Info](#)

General Purpose SSD (gp2)
Baseline performance determined by volume size

Allocated storage

20 GiB

5:41 PM 9/5/2022

Disable storage autoscaling

The screenshot shows the AWS RDS console interface. The browser tabs include 'Recordings - OneDrive', 'Untitled document - Google Doc', 'RDS Management Console', and 'Instances | EC2 Management Console'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false`. The AWS logo and 'EC2' are visible in the top left. The main content area is titled 'Storage' and includes the following sections:

- Storage type** [Info](#): A dropdown menu showing 'General Purpose SSD (gp2)' with the subtext 'Baseline performance determined by volume size'.
- Allocated storage**: A text input field containing '20' and the unit 'GiB'. Below it, a note states: '(Minimum: 20 GiB. Maximum: 6,144 GiB) Higher allocated storage can improve IOPS performance.'
- Storage autoscaling** [Info](#): A section with the description 'Provides dynamic scaling support for your database's storage based on your application's needs.' It contains an unchecked checkbox labeled 'Enable storage autoscaling' with the subtext 'Enabling this feature will allow the storage to increase after the specified threshold is exceeded.'
- Availability & durability**: A section with the subtext 'Multi-AZ deployment' [Info](#). It contains an unchecked radio button labeled 'Create a standby instance (recommended for production usage)'.

The Windows taskbar at the bottom shows the time as 5:45 PM on 9/5/2022, along with various system icons and application shortcuts.

In connectivity select dont connect

The screenshot shows the AWS RDS console's 'Connectivity' settings page. The browser tabs include 'Recordings - OneDrive', 'Untitled document - Google Doc', 'RDS Management Console', and 'Instances | EC2 Management Console'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false`. The AWS navigation bar at the top includes the 'Services' search bar and the user's name 'Nithin'.

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.

Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0624bf54bfbf048c6)

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

The Windows taskbar at the bottom shows the time as 5:50 PM on 9/5/2022.

Click on create database

The screenshot shows the AWS RDS console interface for creating a new database instance. The browser tabs include 'Recordings - OneDrive', 'Untitled document - Google Doc', 'RDS Management Console', and 'Instances | EC2 Management Console'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance:gdb=false;s3-import=false`. The AWS navigation bar at the top includes the 'Services' menu, a search bar, and the user's name 'Nithin'.

Additional configuration
Database options, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page.](#)

Disclaimer: You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

At the bottom of the configuration panel, there are two buttons: 'Cancel' and 'Create database'.

Recordings - OneDrive x Untitled document - Google Doc x RDS Management Console x Instances | EC2 Management Console x

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:

Google chrome://newtab Repco Bank - Govt... Google IRCTC Online Passe... Baby Looney Tunes... 3DEqualizer4 [exerc... DAR - bpo.digicarv... Other bookmarks

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai Nitin

EC2

Amazon RDS

- Dashboard
- Databases**
- Query Editor
- Performance Insights
- Snapshots
- Automated backups
- Reserved instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions
- Events
- Event subscriptions
- Recommendations

Creating database database

Your database might take a few minutes to launch.

[View credential details](#)

RDS > Databases

Databases

☒ Group resources [Refresh](#) [Modify](#) [Actions](#) [Restore from S3](#) [Create database](#)

	DB identifier	Role	Engine	Region & AZ	Size	Status
<input type="radio"/>	database	Instance	MySQL Community	ap-south-1b	db.t2.micro	Refresh

Windows taskbar: 5:53 PM 9/5/2022

Recordings - OneDrive x Untitled document - Google Doc x RDS Management Console x Instances | EC2 Management Console x

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:

Google chrome://newtab Repco Bank - Govt... Google IRCTC Online Passe... Baby Looney Tunes... 3DEqualizer4 [exerc... DAR - bpo.digicarv... Other bookmarks

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai Nithin

EC2

Amazon RDS x

Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations

Successfully created database database View connection details x

RDS > Databases

Databases Group resources Refresh Modify Actions Restore from S3 Create database

Filter by databases

	Role	Engine	Region & AZ	Size	Status	CPU	Current activity
	Instance	MySQL Community	ap-south-1b	db.t2.micro	Available	10.16%	0 Connect

K7UltimateSecurity
K7UltimateSecurity has not been activated yet.
Click here to proceed..

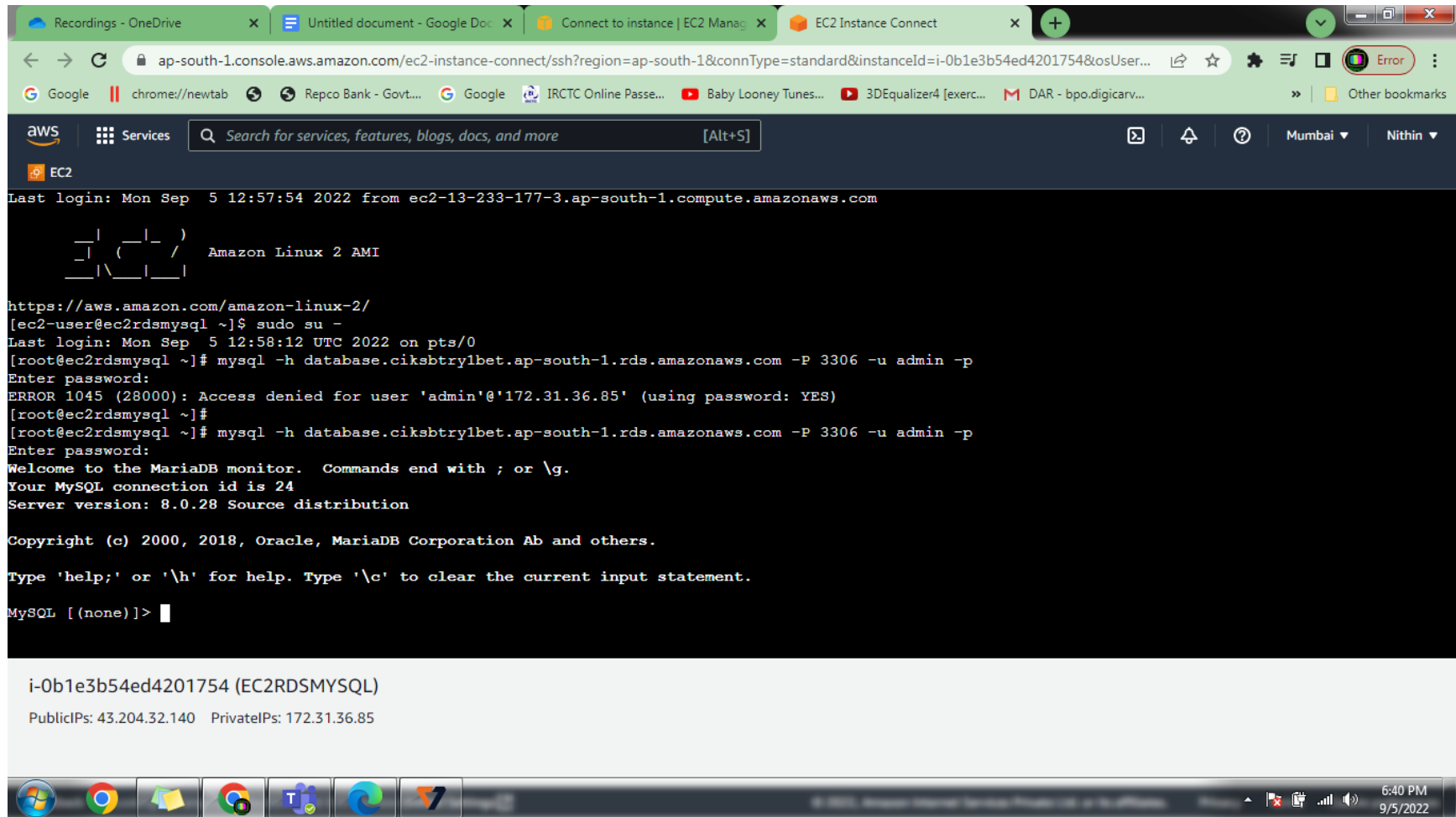
6:13 PM
9/5/2022

Endpoint url & port

The screenshot displays the Amazon RDS console interface. The left sidebar contains navigation links: Dashboard, Databases (highlighted), Query Editor, Performance Insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, Event subscriptions, and Recommendations. The main content area is titled 'Amazon RDS' and shows a summary card for a database instance. The summary card includes: database name, Role, Instance, Current activity (5.86%), Engine (MySQL Community), and Region & AZ (ap-south-1b). Below the summary card, the 'Connectivity & security' tab is selected, showing details for the database instance. The details are organized into three columns: Endpoint & port, Networking, and Security. The Endpoint & port column shows the Endpoint (database.ciksbtry1bet.ap-south-1.rds.amazonaws.com) and Port (3306). The Networking column shows the Availability Zone (ap-south-1b), VPC (vpc-0624bf54bfbf048c6), and Subnet group (default-vpc-0624bf54bfbf048c6). The Security column shows VPC security groups (default (sg-033447ca10a06f37f) Active), Publicly accessible (No), and Certificate authority (rds-ca-2019). The bottom of the console shows a footer with Feedback, language selection, and copyright information.

Endpoint & port	Networking	Security
Endpoint database.ciksbtry1bet.ap-south-1.rds.amazonaws.com	Availability Zone ap-south-1b	VPC security groups default (sg-033447ca10a06f37f) Active
Port 3306	VPC vpc-0624bf54bfbf048c6	Publicly accessible No
	Subnet group default-vpc-0624bf54bfbf048c6	Certificate authority rds-ca-2019

Establish the communication between ec2-rds using this command
`mysql -h database.ciksbtry1bet.ap-south-1.rds.amazonaws.com -P 3306 -u admin -p`



The screenshot shows a terminal window titled "EC2 Instance Connect" with the URL `ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0b1e3b54ed4201754&osUser=...`. The terminal output shows the user logging in as `ec2-user` on `ec2-13-233-177-3.ap-south-1.compute.amazonaws.com`. The user runs `sudo su -` to become root. Then, they attempt to connect to a MySQL database using the command `mysql -h database.ciksbtry1bet.ap-south-1.rds.amazonaws.com -P 3306 -u admin -p`. The connection fails with the error: `ERROR 1045 (28000): Access denied for user 'admin'@'172.31.36.85' (using password: YES)`. The user then runs the same command again, which succeeds, and they are prompted to enter a password. The terminal shows the MySQL prompt `MySQL [(none)]>`. Below the terminal window, the instance details for `i-0b1e3b54ed4201754 (EC2RDSMYSQL)` are displayed, showing Public IPs: `43.204.32.140` and Private IPs: `172.31.36.85`.

```
Last login: Mon Sep 5 12:57:54 2022 from ec2-13-233-177-3.ap-south-1.compute.amazonaws.com

 _ _ | _ _ | _ )
 _ | ( _ | _ /   Amazon Linux 2 AMI
 _ | \ _ | _ |

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ec2rdsmysql ~]$ sudo su -
Last login: Mon Sep 5 12:58:12 UTC 2022 on pts/0
[root@ec2rdsmysql ~]# mysql -h database.ciksbtry1bet.ap-south-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
ERROR 1045 (28000): Access denied for user 'admin'@'172.31.36.85' (using password: YES)
[root@ec2rdsmysql ~]#
[root@ec2rdsmysql ~]# mysql -h database.ciksbtry1bet.ap-south-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 24
Server version: 8.0.28 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>
```

i-0b1e3b54ed4201754 (EC2RDSMYSQL)
PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

DATABASE CREATION

CREATE DATABASE SBA12345;

CREATE DATABASE SBA1234456;

The screenshot shows a web browser window with multiple tabs. The active tab is 'EC2 Instance Connect' with the URL 'ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0b1e3b54ed4201754&osUser...'. The browser's address bar shows the URL, and the top navigation bar includes the AWS logo, 'Services' link, a search bar, and user information 'Mumbai' and 'Nithin'.

The main content area displays the 'EC2' console interface. It shows a terminal session for an EC2 instance 'i-0b1e3b54ed4201754 (EC2RDSMYSQL)'. The terminal output shows a series of 'MySQL [(none)]>' prompts. The first two prompts are followed by the command 'CREATE DATABASE SBA12345;' and 'CREATE DATABASE SBA1234456;' respectively, both resulting in 'Query OK, 1 row affected (0.01 sec)'. The terminal session is currently idle at the 'MySQL [(none)]>' prompt.

Below the terminal, the instance details are shown: 'i-0b1e3b54ed4201754 (EC2RDSMYSQL)' and 'PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85'.

The footer of the console shows 'Feedback', a link to 'Looking for language selection? Find it in the new Unified Settings', and copyright information '© 2022, Amazon Internet Services Private Ltd. or its affiliates.' along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

Show databases;

The screenshot shows a web browser window with multiple tabs. The active tab is titled "EC2 Instance Connect" and displays the AWS Management Console URL: `ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0b1e3b54ed4201754&osUser=...`. The browser's address bar shows a red "Error" icon. The page header includes the AWS logo, a "Services" menu, a search bar, and user information for "Mumbai" and "Nithin".

The main content area displays an EC2 instance terminal session. The terminal shows a series of MySQL prompts where the user has entered `show databases;`. The output is a table of database names:

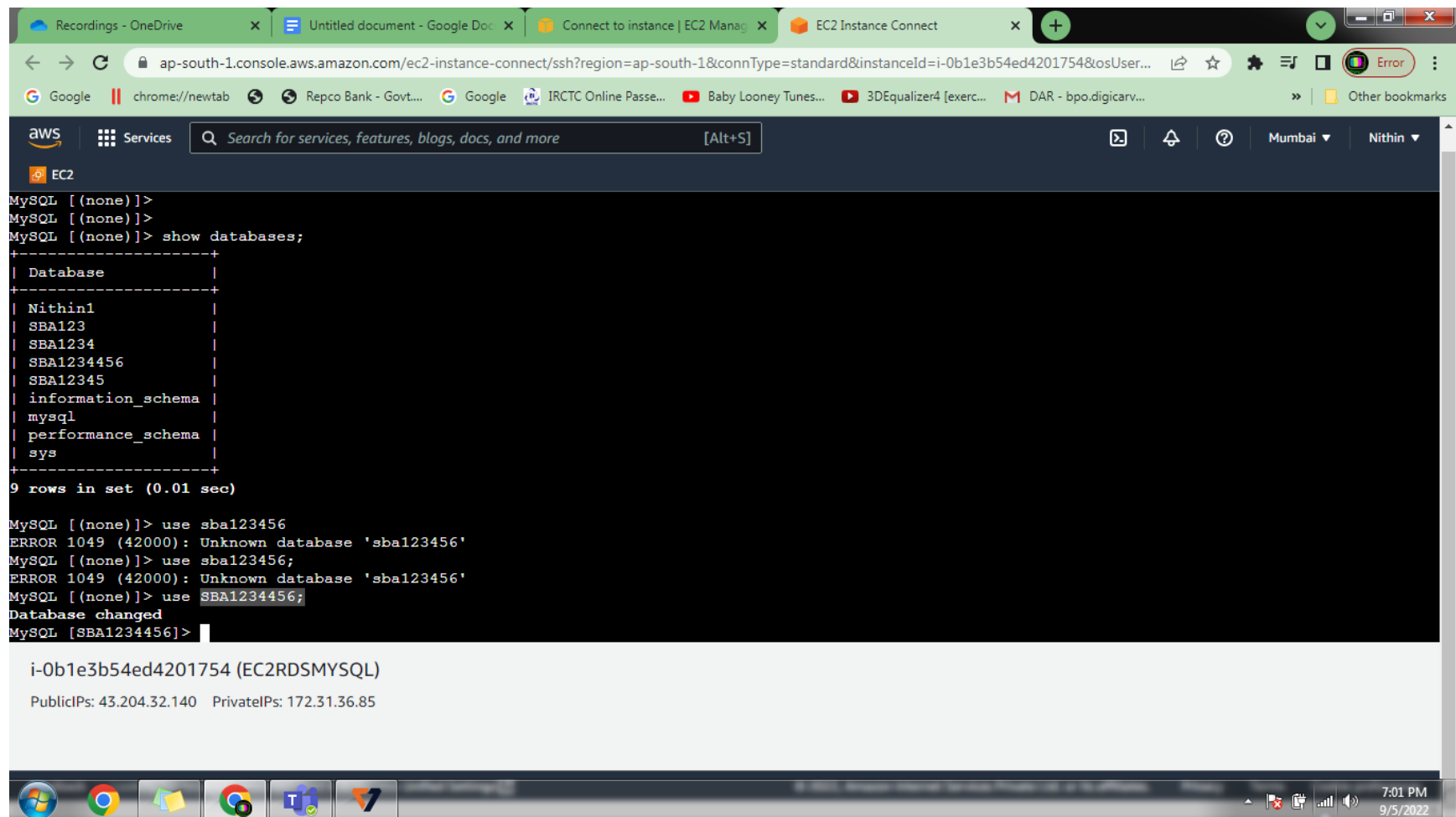
Database
Nithin1
SBA123
SBA1234
SBA1234456
SBA12345
information_schema
mysql
performance_schema
sys

Below the table, the terminal indicates "9 rows in set (0.01 sec)". The terminal prompt is now `MySQL [(none)]>`.

At the bottom of the terminal window, the instance details are shown: `i-0b1e3b54ed4201754 (EC2RDSMYSQL)` with PublicIPs: 43.204.32.140 and PrivateIPs: 172.31.36.85.

The Windows taskbar at the bottom of the screen shows several application icons, including Chrome, File Explorer, and the Start menu, along with the system clock indicating 6:50 PM on 9/5/2022.

CHANGE DATABASE
USE databasename;
use SBA1234456;



The screenshot shows a web browser window with several tabs open, including 'Recordings - OneDrive', 'Untitled document - Google Doc', 'Connect to instance | EC2 Manag', and 'EC2 Instance Connect'. The active tab is 'EC2 Instance Connect', which displays a terminal window for an EC2 instance. The terminal shows a MySQL prompt where the user has entered 'show databases;' and 'use sba123456;'. The output of 'show databases;' lists several databases, including 'Nithin1', 'SBA123', 'SBA1234', 'SBA1234456', 'SBA12345', 'information_schema', 'mysql', 'performance_schema', and 'sys'. The output of 'use sba123456;' shows an error message: 'ERROR 1049 (42000): Unknown database 'sba123456''. The user then enters 'use SBA1234456;' and the prompt changes to 'MySQL [SBA1234456]>'. Below the terminal window, the instance ID 'i-0b1e3b54ed4201754 (EC2RDSMYSQL)' and public/private IP addresses are displayed. The Windows taskbar is visible at the bottom of the screen.

```
MySQL [(none)]>
MySQL [(none)]>
MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| Nithin1   |
| SBA123    |
| SBA1234   |
| SBA1234456|
| SBA12345  |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
9 rows in set (0.01 sec)

MySQL [(none)]> use sba123456
ERROR 1049 (42000): Unknown database 'sba123456'
MySQL [(none)]> use sba123456;
ERROR 1049 (42000): Unknown database 'sba123456'
MySQL [(none)]> use SBA1234456;
Database changed
MySQL [SBA1234456]>
```

i-0b1e3b54ed4201754 (EC2RDSMYSQL)
PublicIPs: 43.204.32.140 PrivateIPs: 172.31.36.85

