

Assignment 1:

Create MySQL DB Instance and Connect MySQL DB instance.

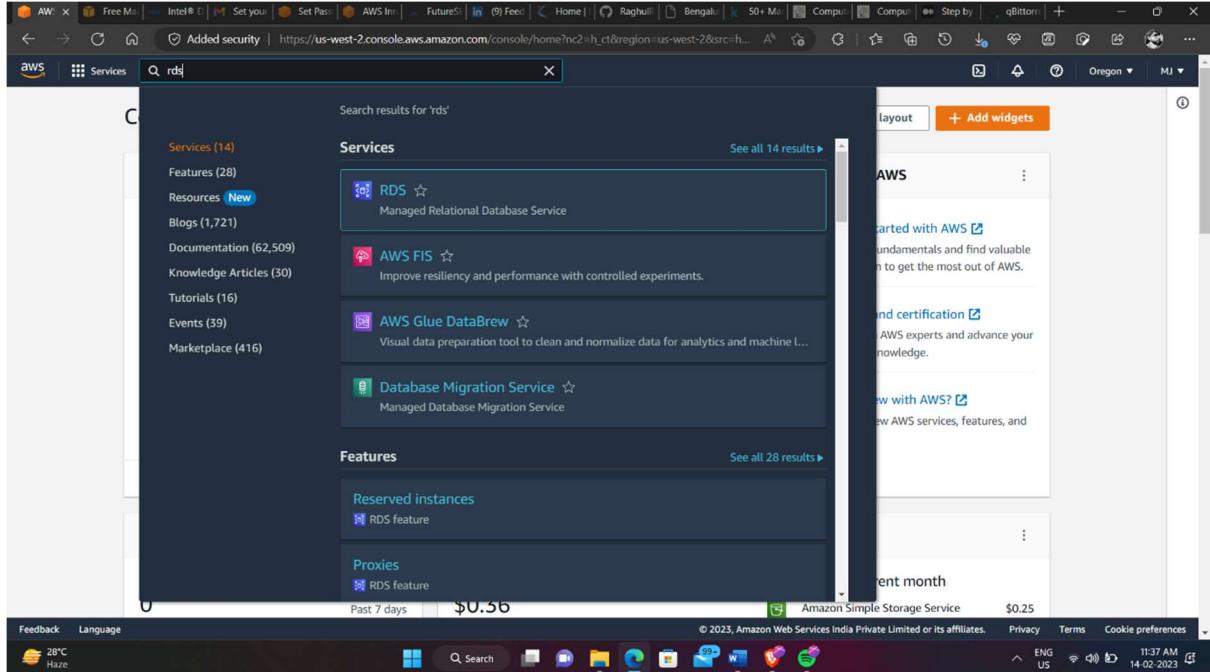
Synopsis:

Create a RDS and an EC2 Linux Server Instance. Connect the EC2 Instance to the RDS created. Create a Database and Table.

Insert few records into the Table then read the records inserted and verify.

- Search for RDS in the management console and select it.
- You will be redirected to Amazon RDS. Here select ‘Create database’.
- Select the database creation method that is required by you. and select the engine option that you will work on.
- In the templates select ‘Free tier’.
- In Availability and durability set the password.
- Select the instance class for the database.
- In connectivity choose the VPN of your choice and give public access and click on ‘Create database’.
- Wait for some time the DB will get created and then in ‘Connectivity and security’ scroll to the bottom and select ‘Setup EC2 connection’.
- Click on ‘Create EC2 instance’ and create a new instance.
- Go back to the ‘Set up EC2 connection’ and select the created instance and click on ‘Continue’.
- Review the settings and select ‘Confirm and set up’.
- Wait until you get a connection successful message at the top of page, then go to the instances page and connect to the created instance.
- After connecting and setting up install ‘MySQL Workbench’.
- Click on add option next to the MySQL Connections, give the connection name and for hostname select and copy the ‘Endpoint’ from ‘Endpoint & port’ from ‘Connectivity & security’.
- Make the username as ‘admin’ and select ‘store in vault’ and enter the password which was created previously.

- Click on ‘Test Connection’. Wait until a success dialogue box appears and click ok and the again ok.
- You will be taken into the workbench where you write queries and execute them.



This screenshot shows the Amazon RDS Dashboard. The left sidebar includes links for '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', and 'Recommendations'.

The main content area features a callout for 'Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL workloads'. It also displays resource usage statistics:

- DB Instances (0/40) Allocated storage (0 TB/100 TB) Increase DB instances limit
- DB Clusters (0/40) Reserved instances (0/40) Snapshots (0) Manual DB Cluster (0/100) DB Instance (0/100)
- Automated DB Cluster (0) DB Instance (0)
- Recent events (9)

On the right, there's a 'Recommended for you' section with links to 'Implementing Cross-Region DR', 'Amazon RDS Backup and Restore using AWS Backup', 'Test Your DR Strategy in Minutes', and 'Time-Series Tables in PostgreSQL'.

The footer includes links for 'Feedback', 'Language', and the current location 'Oregon'.

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aws Services Search [Alt+S] Share your feedback X

We listened to your feedback! Now, create a database with a single click using our pre-built configurations! Or choose your own configurations.

RDS > Create database

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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28°C Haze ENG US 11:37 AM 14-02-2023

This screenshot shows the 'Create database' wizard for PostgreSQL. It starts with a summary message about user feedback and a choice between 'Standard create' and 'Easy create'. The 'Standard create' option is selected. The next step, 'Engine options', shows MySQL as the chosen engine type. Other options like Amazon Aurora, MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server are listed below it. The interface includes standard browser navigation and AWS-specific footer links.

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aws Services Search [Alt+S] Share your feedback X

Show versions that support the Multi-AZ DB cluster [Info](#) Create a Multi-AZ DB cluster with one primary DB instance and two readable standby DB instances. Multi-AZ DB clusters provide up to 2x faster transaction commit latency and automatic failover in typically under 35 seconds.

Show versions that support the Amazon RDS Optimized Writes [Info](#) Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Engine Version 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](#)

Availability and durability

Deployment options [Info](#) The deployment options below are limited to those supported by the engine you selected above.

Multi-AZ DB Cluster - new Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

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This screenshot continues the 'Create database' wizard. It shows options for Multi-AZ DB clusters and Amazon RDS Optimized Writes. The 'Engine Version' is set to MySQL 8.0.28. Under 'Templates', the 'Free tier' option is selected. The 'Availability and durability' section includes a note about deployment options being limited to those supported by the selected engine. The interface includes standard browser navigation and AWS-specific footer links.

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.

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.

Credentials Settings

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

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

Manage master credentials in AWS Secrets Manager - new
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

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 master password [Info](#)

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

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PostgreSQL

PostgreSQL is a powerful, open-source object-relational database system with a strong reputation of reliability, stability, and correctness.

- High reliability and stability in a variety of workloads.
- Advanced features to perform in high-volume environments.
- Vibrant open-source community that releases new features multiple times per year.
- Supports multiple extensions that add even more functionality to the database.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

DB instance class [Info](#)
 Burstable classes (includes t classes)
 Standard classes (includes m classes)
 Memory optimized classes (includes r and x classes)

Include previous generation classes

Storage

Storage type [Info](#)
General Purpose SSD (gp2)
Baseline performance determined by volume size

Allocated storage [Info](#)
 GiB
The minimum value is 20 GiB and the maximum value is 6,144 GiB

Storage autoscaling [Info](#)
Provides dynamic scaling support for your database's storage based on your application's needs.

Enable storage autoscaling
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Minimum storage threshold [Info](#)

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- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

The screenshot shows the AWS RDS PostgreSQL configuration page. On the left, there are sections for Allocated storage (set to 200 GiB), Storage autoscaling (disabled), and Connectivity (set to EC2 compute resource). In the center, there are options for Network type (IPv4 selected) and Virtual private cloud (VPC) (Practice selected). On the right, a sidebar provides information about PostgreSQL, highlighting its power and reliability.

Allocated storage Info
200 GiB
The minimum value is 20 GiB and the maximum value is 6,144 GiB.

Storage autoscaling Info
Provides dynamic scaling support for your database's storage based on your application's needs.
 Enable storage autoscaling
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

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.

Network type Info
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

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

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The screenshot shows the AWS RDS PostgreSQL configuration page. It includes sections for IP V4 (selected), IP V6, and VPC. Under VPC, it shows a dropdown for Practice (vpc-04cf5c11786a0a6e) and a note that only VPCs with a corresponding DB subnet group are listed. Below this, there is a note that after a database is created, its VPC cannot be changed. The page also includes sections for DB subnet group (selected default-vpc-04cf5c11786a0a6e), Public access (selected Yes), and VPC security group (selected Choose existing).

IP V4
Your resources can communicate only over the IPv4 addressing protocol.

IP V6
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.
Practice (vpc-04cf5c11786a0a6e)

Only VPCs with a corresponding DB subnet group are listed.

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-vpc-04cf5c11786a0a6e

Public access Info
 Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) Info
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
 Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

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The screenshot shows the AWS RDS console for creating a new database instance. The current step is 'Added security'. On the left, there are sections for 'VPC security group' (with 'Choose existing' selected), 'RDS Proxy' (disabled), and 'Certificate authority - optional' (set to 'rds-ca-2019 (default)'). On the right, a sidebar titled 'PostgreSQL' provides a detailed description of the database, highlighting its features like reliability, advanced features, and support for multiple extensions.

The screenshot shows the 'Additional configuration' step of the RDS setup. It includes fields for 'Initial database name' (left blank), 'DB parameter group' (set to 'default.mysql8.0'), 'Option group' (set to 'defaultmysql-8-0'), and 'Backup' settings (unchecked). The 'Log exports' section lists log types: Audit log, Error log, General log, and Slow query log. The right side contains the same PostgreSQL description as the previous screenshot.

The screenshot shows the AWS RDS console for creating a new database instance. On the left, there's a sidebar with 'Feedback' and 'Language' buttons. The main area has tabs for 'Services' and 'Search'. A search bar at the top right contains '[Alt+S]'. The main content area is titled 'PostgreSQL' and displays the following information:

- IAM role**: A service-linked role is used for publishing logs to CloudWatch Logs.
- RDS service-linked role**
- Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. Learn more**
- Maintenance**: Auto minor version upgrade **Info**. There is an unchecked checkbox for 'Enable auto minor version upgrade'. A note says: 'Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.' Below this is a 'Maintenance window' section with two options: 'Choose a window' (radio button) and 'No preference' (selected radio button).
- Deletion protection**: An unchecked checkbox for 'Enable deletion protection'. A note says: 'Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.'
- Estimated monthly costs**: A note states: '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:'
- PostgreSQL** details:
 - PostgreSQL is a powerful, open-source object-relational database system with a strong reputation of reliability, stability, and correctness.
 - High reliability and stability in a variety of workloads.
 - Advanced features to perform in high-volume environments.
 - Vibrant open-source community that releases new features multiple times per year.
 - Supports multiple extensions that add even more functionality to the database.
 - Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.
 - Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

The bottom of the screen shows a Windows taskbar with various pinned icons and the date/time: '11:39 AM 14-02-2023'.

This screenshot is similar to the one above, showing the configuration of a PostgreSQL database instance. The main content area is titled 'PostgreSQL' and includes the same sections: IAM role, RDS service-linked role, log configuration, maintenance settings, deletion protection, and estimated monthly costs. The 'PostgreSQL' details section is identical to the first screenshot. At the bottom of the configuration area, there are 'Cancel' and 'Create database' buttons. The bottom of the screen shows a Windows taskbar with various pinned icons and the date/time: '11:39 AM 14-02-2023'.

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Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases: [Alt+S]

aws Services Search View credential details X

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

Events Event subscriptions

Recommendations 0

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Creating database database

Your database might take a few minutes to launch.

How was your experience creating an Amazon RDS database? [Provide feedback](#)

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

Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions
database	Instance	MySQL Community	-	db.t2.micro	Creating	

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Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases: [Alt+S]

aws Services Search View connection details X

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

Events Event subscriptions

Recommendations 0

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Successfully created database database

How was your experience creating an Amazon RDS database? [Provide feedback](#)

RDS > Databases

Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions
database	Instance	MySQL Community	us-west-2b	db.t2.micro	Available	

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Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databaseId=d...

aws Services Search [Alt+S]

Amazon RDS

Successfully created database database

How was your experience creating an Amazon RDS database? Provide feedback

View connection details

RDS > Databases > database

database

Modify Actions

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 0

Feedback Language 28°C Haze

DB identifier database CPU Status Available Class db.t2.micro

Role Instance Current activity Engine MySQL Community Region & AZ us-west-2b

Connectivity & security Monitoring Logs & events Configuration Maintenance & backups Tags

Connectivity & security

Endpoint & port Networking Security

Endpoint database chfdvmylryhi.us-west- Availability Zone us-west-2b VPC security groups default (sg-00293a8dffb11c19a6)

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Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databaseId=d...

aws Services Search [Alt+S]

Amazon RDS

Proxies (0) Actions Create proxy

Filter by proxies

No proxies You don't have any proxies.

Create proxy

Connected compute resources (0) Info

Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.

Filter by compute resources

No connected compute resources No connected compute resources that were created automatically to display.

Set up EC2 connection

Resource identifier Resource type Availability zone RDS security group Compute resource security group

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Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#setup-ec2-connection

aws Services Search [Alt+S]

RDS > Databases > Set up EC2 connection

Step 1 Set up EC2 connection

Step 2 Review and confirm

Set up EC2 connection Info

Select EC2 instance

Database database

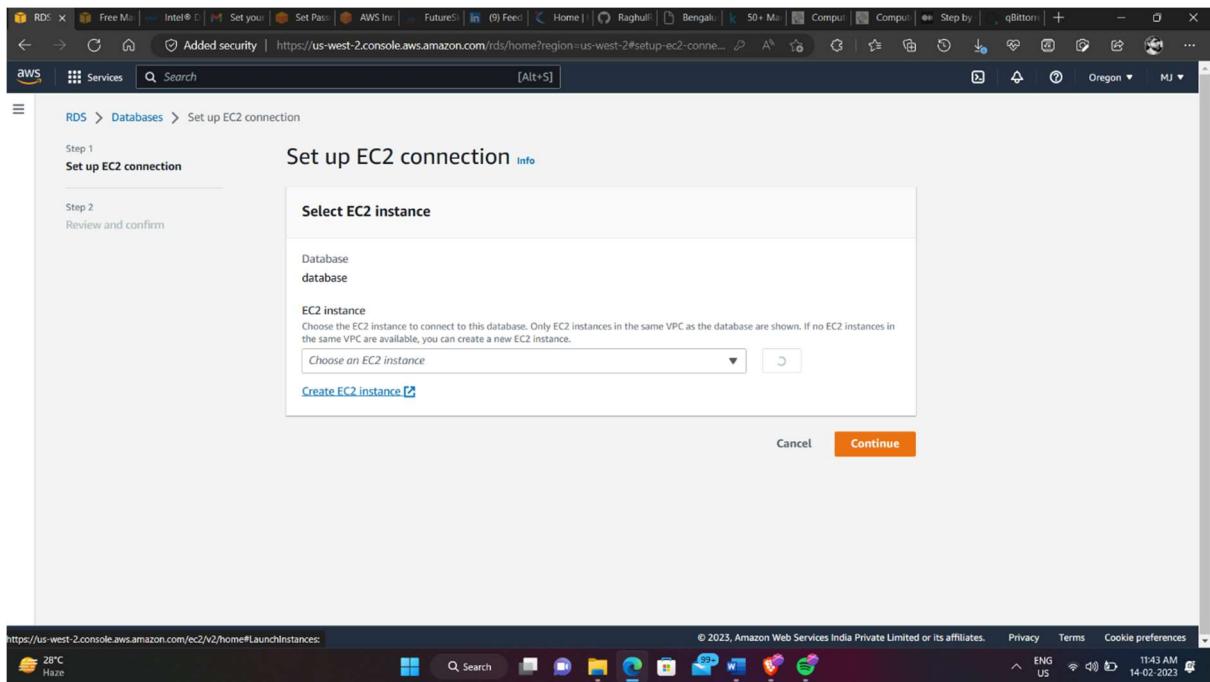
EC2 instance

Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.

Choose an EC2 instance

Create EC2 instance [\[?\]](#)

Cancel Continue



https://us-west-2.console.aws.amazon.com/ec2/v2/home#LaunchInstances: 28°C Haze

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Added security | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstances

aws Services Search [Alt+S]

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux  macOS  Ubuntu  Windows  Red Hat  S  Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Number of instances Info

1

Software Image (AMI) Microsoft Windows Server 2022 ... [read more](#) ami-0e2daa9c776be2b0

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

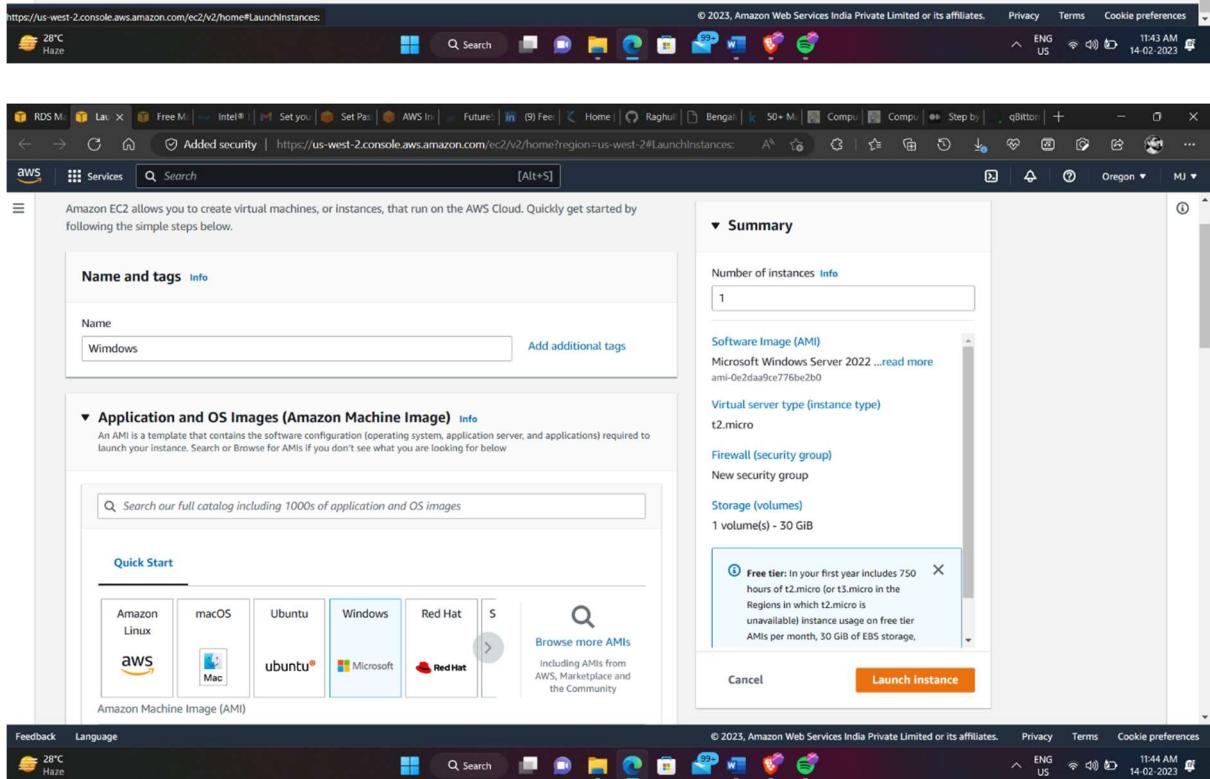
Storage (volumes) 1 volume(s) - 30 GB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, [\[?\]](#) X

Cancel Launch Instance

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Screenshot of the AWS Cloud9 interface showing the configuration of a new EC2 instance.

Key pair name - required: AWS-KP

Network settings:

- Network: vpc-04cfdf5c11786a0a6e | Practice
- Subnet: subnet-0cceba456246bfba76 | project-vpc-subnet-public1-us-west-2a
- Auto-assign public IP: Enabled
- Firewall (security groups):** Create security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

- Allow RDP traffic from Anywhere (0.0.0.0/0)
- Allow HTTPS traffic from the internet

Summary:

- Number of instances: 1
- Software Image (AMI): Microsoft Windows Server 2022
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 30 GB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel Launch instance

Screenshot of the AWS Cloud9 interface showing the continuation of EC2 instance configuration.

Network settings:

- Allow RDP traffic from Anywhere (0.0.0.0/0)
- Allow HTTPS traffic from the internet
- Allow HTTP traffic from the internet

Configure storage:

- Root volume (Not encrypted): 1x 30 GiB gp2
- Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
- Add new volume
- The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance.
- 0 x File systems

Summary:

- Number of instances: 1
- Software Image (AMI): Microsoft Windows Server 2022
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 30 GB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel Launch instance

Screenshot of the AWS EC2 Instances Launch screen showing a successful instance launch.

Success
Successfully initiated launch of instance (i-001505beec6509ca2)

Launch log

Initializing requests	Succeeded
Creating security groups	Succeeded
Creating security group rules	Succeeded
Launch initiation	Succeeded

Next Steps

- Create billing and free tier usage alerts
- Connect to your instance
- Connect an RDS database

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Connect to instance [Connect to instance](#)

Learn more [Learn more](#)

Connect an RDS database [Connect an RDS database](#)

Create a new RDS database [Create a new RDS database](#)

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Screenshot of the AWS EC2 Instances list screen showing one pending instance.

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Windows	i-001505beec6509ca2	Pending	t2.micro	-	No alarms	us-west-2a

Select an instance

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations
Images AMIs AMI Catalog
Elastic Block Store

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The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations), Images (AMIs, AMI Catalog), and Elastic Block Store. The main content area displays a table titled "Instances (1) Info". The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. One row is shown: Windows, i-001505beec6509ca2, Running, t2.micro, Initializing, No alarms, us-west-2a. Below the table is a modal window titled "Select an instance" which is currently empty.

The screenshot shows the "Set up EC2 connection" step of the AWS RDS setup wizard. At the top, it says "Step 1 Set up EC2 connection" and "Step 2 Review and confirm". The main section is titled "Select EC2 instance" and contains a dropdown menu labeled "EC2 instance". The dropdown shows one item: "i-001505beec6509ca2 Windows us-west-2a". Below the dropdown is a "Create EC2 instance" button. At the bottom right are "Cancel" and "Continue" buttons. The browser toolbar at the top includes "Feedback", "Language", "Search", and other standard browser controls. The status bar at the bottom shows "28°C Sunny", "ENG US", "1148 AM", and the date "14-02-2023".

Screenshot of the AWS RDS console showing the 'Review and confirm' step for setting up an EC2 connection. The 'Connection summary' section shows a VPC connection between an RDS database and an EC2 instance. The RDS database is associated with a security group 'rds-ec2-2 (connection rule)' and port 3306. The EC2 instance is associated with a security group 'ec2-rds-2 (connection rule)'. A note indicates that VPC security group 'rds-ec2-2' is added to the database, and VPC security group 'ec2-rds-2' is added to the EC2 instance. The 'Changes to RDS database: database' section shows the addition of the EC2 instance to the database's security group. The 'Changes to EC2 instance' section shows the addition of the RDS database to the EC2 instance's security group.

Screenshot of the AWS RDS console showing the 'Review and confirm' step for setting up an EC2 connection. The 'Connection summary' section shows a VPC connection between an RDS database and an EC2 instance. The RDS database is associated with a security group 'rds-ec2-2 (connection rule)' and port 3306. The EC2 instance is associated with a security group 'ec2-rds-2 (connection rule)'. A note indicates that VPC security group 'rds-ec2-2' is added to the database, and VPC security group 'ec2-rds-2' is added to the EC2 instance. The 'Changes to RDS database: database' section shows the addition of the EC2 instance to the database's security group. The 'Changes to EC2 instance' section shows the addition of the RDS database to the EC2 instance's security group. A warning message states: '⚠ Cross Availability Zone (AZ) charges might apply. The RDS database database (us-west-2b) and EC2 instance i-001505beec6509ca2 (us-west-2a) are in different AZs. Cross AZ charges might apply. Data transfer within same region'.

RDS M Instances Free M Intel® Set you AWS In Future (9) Fee Home Raghu Bengal 50+ M Comp Comp Step by qBittorrent Oregon MJ

Added security | https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#databases:

aws Services Search [Alt+S]

Connection setup successfully for RDS database database and EC2 instance i-001505beec6509ca2 [Details]

RDS > Databases

Databases

Group resources Modify Actions Restore from S3 Create database

DB identifier Role Engine Region & AZ Size Status Actions CPU Current a

database Instance MySQL Community us-west-2b db.t2.micro Available 2 Actions 4.58% 0

Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences ENG US 14-02-2023 11:48 AM

28°C Sunny

This screenshot shows the AWS RDS console. At the top, there's a success message: "Connection setup successfully for RDS database database and EC2 instance i-001505beec6509ca2". Below this, the "Databases" section is displayed with a single entry: "database" (Instance: MySQL Community, Region: us-west-2b, Size: db.t2.micro, Status: Available). The bottom of the screen shows the AWS navigation bar and a system status bar indicating 28°C, sunny weather, and the date/time (14-02-2023, 11:48 AM).

RDS M Instances Free M Intel® Set you AWS In Future (9) Fee Home Raghu Bengal 50+ M Comp Comp Step by qBittorrent Oregon MJ

Added security | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#instancesv3:cas...

aws Services Search [Alt+S]

New EC2 Experience Tell us what you think

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone

Windows i-001505beec6509ca2 Running t2.micro Initializing No alarms + us-west-2a

Instance: i-001505beec6509ca2 (Windows)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

Instance ID i-001505beec6509ca2 (Windows)	Public IPv4 address 54.202.231.227 [open address]	Private IPv4 addresses 10.0.14.30
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-202-231-227.us-west-2.compute.amazonaws.com [open address]
Hostname type IP name: ip-10-0-14-30.us-west-2.compute.internal	Private IP DNS name (IPv4 only) ip-10-0-14-30.us-west-2.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	

Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences ENG US 14-02-2023 11:48 AM

28°C Sunny

This screenshot shows the AWS EC2 Instances page. It displays a single instance named "Windows" with the ID "i-001505beec6509ca2", which is currently "Running". The instance type is "t2.micro" and it is in the "us-west-2a" availability zone. The "Details" tab is selected, showing various network and instance configuration details. The bottom of the screen shows the AWS navigation bar and a system status bar indicating 28°C, sunny weather, and the date/time (14-02-2023, 11:48 AM).

The screenshot shows the AWS EC2 Instances page for an instance named i-001505beec6509ca2 (Windows). The 'Connect to instance' section is open, showing two options: 'Session Manager' (disabled) and 'RDP client' (selected). The RDP client option includes a link to download a remote desktop file. Below this, connection details like Public DNS (ec2-54-202-231-227.us-west-2.compute.amazonaws.com) and User name (Administrator) are provided. The interface includes standard AWS navigation and status bars at the top and bottom.

The screenshot shows a Microsoft Bing search results page for 'mysql download'. The top result is from the MySQL website, titled 'MySQL Database Software | Simplify Database Management'. The page features the MySQL logo and navigation links for Download, Ratings, Features, Developers, Documentation, Forums, and System requirements. Below the header, there are several promotional sections for MySQL products and services, such as 'IBM® Cloud Pak for Data', 'Cloud's Next Leap', 'IBM® Cloud Code Engine', 'IBM Subscription Center', and 'MySQL Download | Database Management Software'. The right side of the page contains a detailed sidebar with information about MySQL's history, developer details, and its native replication architecture.

mysql - Search

MySQL :: Download MySQL Workbench

ec2-54-202-231-227.us-west-2.compute.amazonaws.com

MySQL Workbench 8.0.32

Select Operating System:
Microsoft Windows

Recommended Download:

MySQL Installer for Windows
All MySQL Products. For All Windows Platforms.
In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

Windows (x86, 32 & 64-bit), MySQL Installer MSI

Go to Download Page >

Other Downloads:

Windows (x86, 64-bit), MSI Installer	8.0.32	45.7M	Download
(mysql-workbench-community-8.0.32-winx64.msi)			
MD5: b515207ef1b3187965eaaccb46a26e3a Signature			

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

ORACLE © 2023 Oracle

Type here to search

624 AM 2/14/2023

mysql - Search

MySQL :: Begin Your Download

ec2-54-202-231-227.us-west-2.compute.amazonaws.com

MySQL Community Downloads

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

Login » using my Oracle Web account

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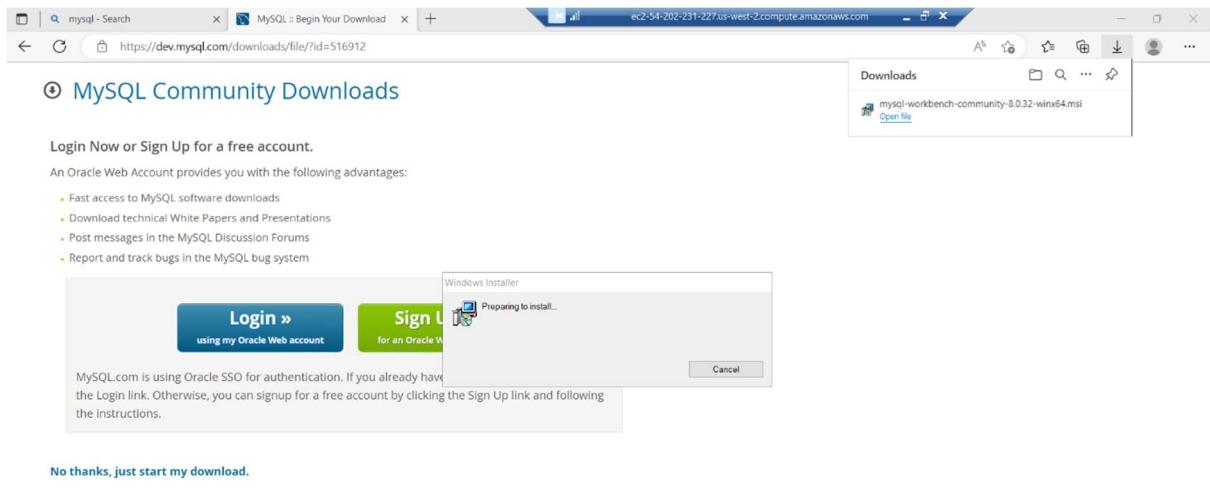
MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

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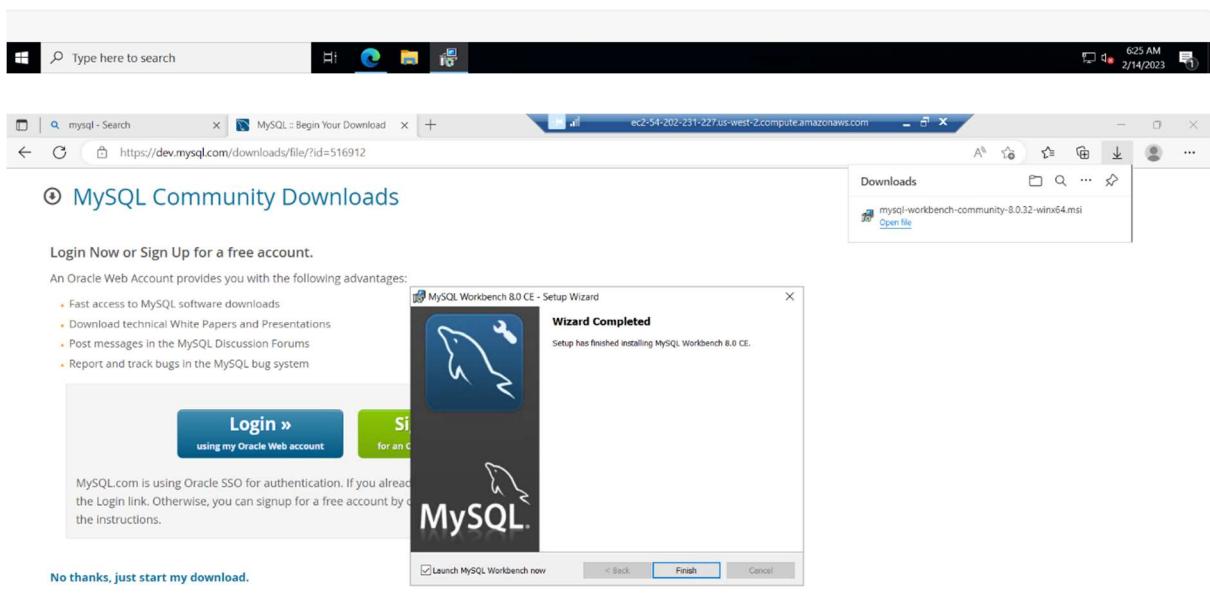
Privacy / Do Not Sell My Info | Terms of Use | Trademark Policy | Cookie Preferences



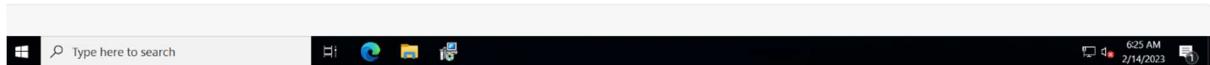


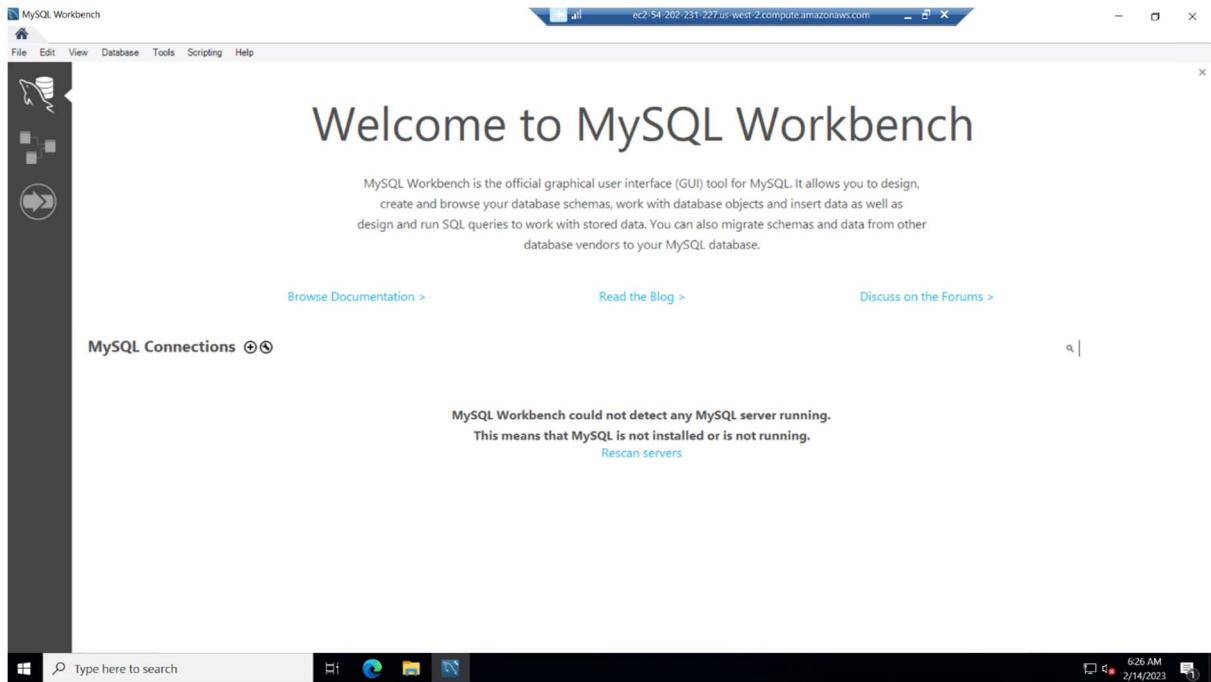
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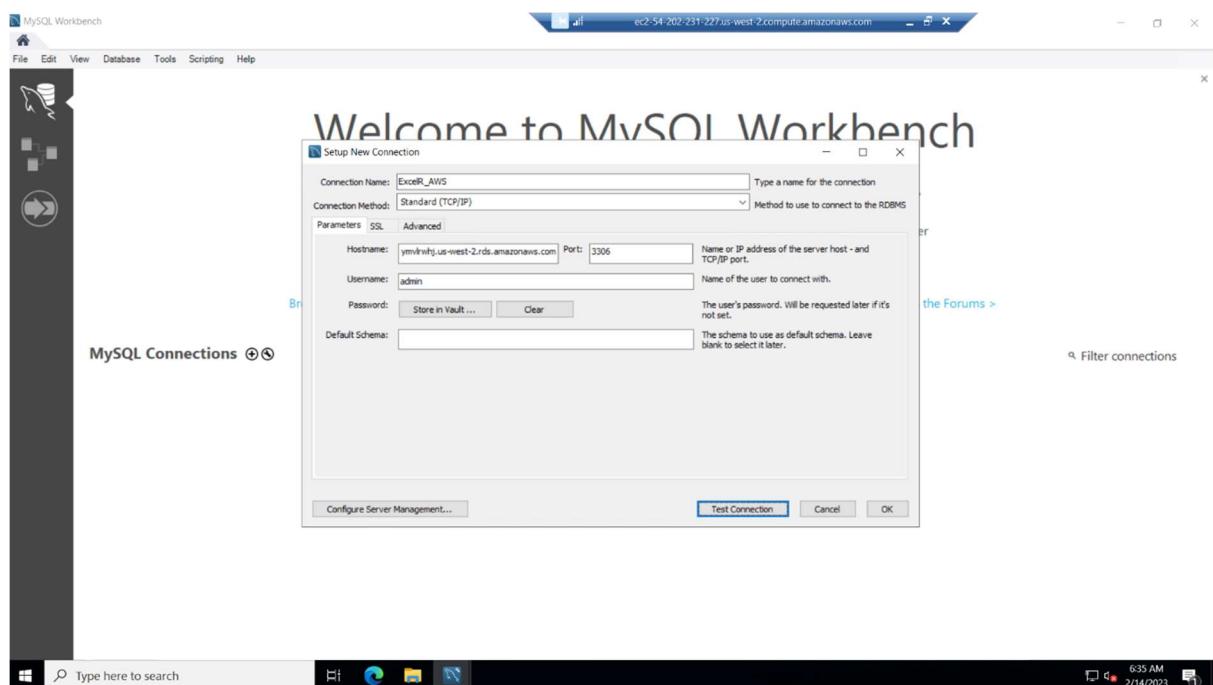
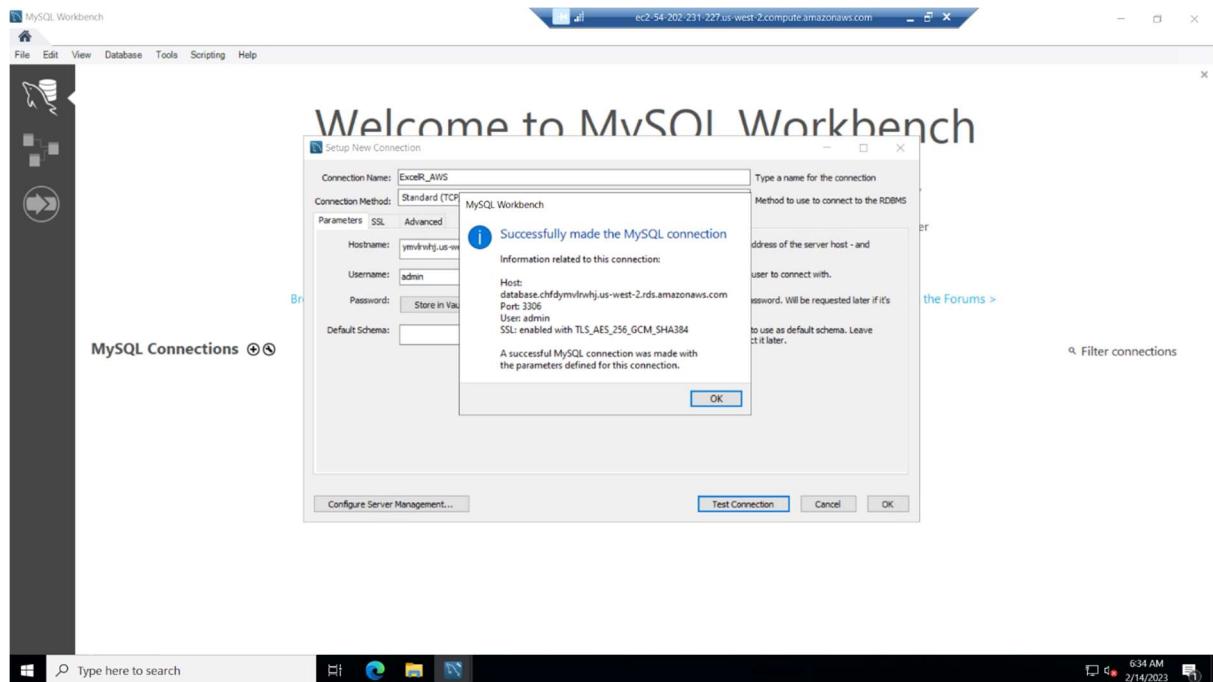




The screenshot shows the AWS RDS console for a specific database. The top navigation bar includes "RD", "Conn", "Free M.", "Intel®", "Set you", "Set Par", "AWS In", "Future", "(9) Fee", "Home", "Raghul", "Bengal", "50+ M", "Compu", "Compu", "Step By", "qBit", and "Oregon". The main page has tabs for "Services" and "Search [Alt+S]". The "Connectivity & security" tab is selected. The configuration table contains the following data:

Endpoint & port	Networking	Security
Endpoint database.chfdymvlrwhj.us-west-2.rds.amazonaws.com	Availability Zone us-west-2b VPC Practice (vpc-04cf5c11786a0a6e) Subnet group default-vpc-04cf5c11786a0a6e Subnets subnet-0ccb456246bfba76 subnet-0cce00eee9d2bda5 subnet-069e4fd06e6747b3 subnet-0f79a4eb85f6ca49c Network type IPv4	VPC security groups default (sg-00293a8dfb1cc19a6) Active Publicly accessible Yes Certificate authority Info rds-ca-2019 Certificate authority date August 22, 2024, 22:38 (UTC+05:30) DB instance certificate expiration date August 22, 2024, 22:38 (UTC+05:30)

Below this, there is a section for "Security group rules (2)" with a "Filter by security group rules" input field. The bottom of the screen shows the Windows taskbar with icons for Start, Search, Task View, File Explorer, Edge, Mail, Photos, OneDrive, and File Explorer. The system tray shows the date and time as "2/14/2023 11:56 AM".



MySQL Workbench

ExcelRAWS

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

Type here to search

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	6:35 AM	Action		2/14/2023

Context Help Snippets

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

6:35 AM
2/14/2023

MySQL Workbench

ExcelRAWS

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Administration Schemas

Information

No object selected

Object Info Session

Type here to search

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	06:39:14	create database training;	1 row(s) affected	0.000 sec
2	06:39:19	use training;	0 row(s) affected	0.000 sec
3	06:40:55	create table customer (custid int, custname varchar(50), age int, gender char(1), city varchar(50));	0 row(s) affected	0.031 sec
4	06:43:54	insert into customers values (1000,'Ramesh',21,'M','Chennai'), (1001, 'Priya', 25, 'F', 'Hyderabad'), (1002, 'Ranga', 45,'M','Bengaluru');	Error Code: 1146. Table 'training.customers' doesn't exist	0.016 sec
5	06:44:12	insert into customer values (1000,'Ramesh',21,'M','Chennai'), (1001, 'Priya', 25, 'F', 'Hyderabad'), (1002, 'Ranga', 4...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec

Context Help Snippets

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

6:44 AM
2/14/2023

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Tables

customer

Columns

custid

custname

age

gender

city

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Query 1

```
2
3 • use training;
4
5 • create table customer (
6   custid int,
7   custname varchar(50),
8   age int,
9   gender char(1),
10  city varchar(50));
11
12 • insert into customer values (1000,'Ramesh',21,'M','Chennai'), (1001, 'Priya', 25, 'F', 'Hyderabad'), (1002, 'Ranga', 45,'M','Bengaluru');
13
14 • select * from customer;
```

Result Grid | Filter Rows! Export! Wrap Cell Content:

custid	custname	age	gender	city
1000	Ramesh	21	M	Chennai
1001	Priya	25	F	Hyderabad
1002	Ranga	45	M	Bengaluru

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	06:39:14	create database training	1 row(s) affected	0.000 sec
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5	06:44:12	insert into customers values (1000,'Ramesh',21,'M','Chennai'), (1001, 'Priya', 25, 'F', 'Hyderabad'), (1002, 'Ranga', 45,'M','Bengaluru');	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec
6	06:44:48	select * from customer LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Type here to search

6:45 AM 2/14/2023