

#RDS:

The screenshot shows the AWS RDS Management Console. On the left, there's a sidebar with options like Dashboard, Databases (which is selected), Query Editor, Performance Insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, and Event subscriptions. The main area is titled 'Databases' and shows a table of existing databases. The table has columns for DB identifier, Role, Engine, and Region & AZ. It lists three items: 'nimish-db-cluster' (Regional cluster, Aurora MySQL, ap-south-1), 'nimish-db-cluster-instance-1' (Writer instance, Aurora MySQL, ap-south-1c), and 'nimish-db-cluster-instance-1-ap-south-1a' (Reader instance, Aurora MySQL, ap-south-1a). A prominent orange button labeled 'Create database' is located at the top right of the table area. A pink circle highlights this button. On the far right, there's a vertical toolbar with various icons for database management.

The screenshot shows the 'Create database' wizard. At the top, a blue banner says 'We listened to your feedback! Now, create a database with a single click using our pre-built configurations! Or choose your own configurations.' with a link 'Switch to your original interface.'. Below this, the title 'Create database' is displayed. Underneath, there's a section titled 'Choose a database creation method' with two options: 'Standard create' (selected) and 'Easy create'. A large pink checkmark is drawn over the 'Standard create' button. The 'Standard create' option includes a note: 'You set all of the configuration options, including ones for availability, security, backups, and maintenance.' Below this, there's a 'Engine options' section with a 'Engine type' dropdown set to 'MySQL'. The bottom of the screen shows the standard Windows taskbar with various application icons.

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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

Edition

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MySQL Oracle Microsoft SQL Server

Relational Database

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MySQL Oracle Microsoft SQL Server

Edition

MySQL Community

Known issues/limitations
Review the Known issues/limitations to learn about potential compatibility issues with specific database versions.

Version

MySQL 5.7.28

MySQL engine versions earlier than 8.0.17 don't support the newest m6g or r6g generation instance classes.

Templates

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Relational Database

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MySQL engine versions earlier than 8.0.17 don't support the newest m6g or r6g generation instance classes.

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.

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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DB instance identifier [Info](#)
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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](#)

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

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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)

Memory optimized classes (includes r and x classes)

Burstable classes (includes t classes)

db.t3.micro
2 vCPUs 1 GiB RAM Network: 2,085 Mbps

Include previous generation classes

Storage

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

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Storage

Storage type [Info](#)

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

Allocated storage
20 GiB
(Minimum: 20 GiB. Maximum: 16,384 GiB) Higher allocated storage can improve IOPS performance.

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.

Maximum storage threshold [Info](#)
Charges will apply when your database autoscales to the specified threshold

1000 GiB
Minimum: 22 GiB. Maximum: 16,384 GiB

Availability & durability

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Subnet group: default-vpc-08720999ce1b62dd6

Public access:

- Yes
- No

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

VPC security group:

- Choose existing
- Create new

Create new VPC security group

New VPC security group name: Enter VPC security group name

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Database authentication:

- Password authentication
- Password and IAM database authentication
- Password and Kerberos authentication

Additional configuration:

Database options, encryption turned on, backup turned on, backtrack turned off, Enhanced Monitoring turned off, maintenance, CloudWatch Logs, delete protection turned off.

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

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Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Additional configuration

Database options

Initial database name **Info** akshat

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group **Info** default.mysql5.7

Option group **Info** default:mysql-5-7

Backup

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

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Amazon RDS

Databases

Query Editor

Performance Insights

Snapshots

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Events

Event subscriptions

Creating database database-1 Your database might take a few minutes to launch. View credential details

RDS > Databases

Databases Group resources Modify Actions ▾ Restore from S3 Create database

Filter by databases

DB identifier	Role	Engine	Region & AZ
database-1	Instance	MySQL Community	-
nimish-db-cluster	Regional cluster	Aurora MySQL	ap-south-1
nimish-db-cluster-instance-1	Writer instance	Aurora MySQL	ap-south-1c
nimish-db-cluster-instance-1-ap-south-1a	Reader instance	Aurora MySQL	ap-south-1a

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GoTo EC2:

The screenshot shows the Amazon RDS Management Console. A search bar at the top right contains the query 'ec2'. Below the search bar, the results are displayed under the heading 'Services'. The first result is 'EC2' with the description 'Virtual Servers in the Cloud'. To the right of the search bar, there is a sidebar titled 'Amazon RDS' containing various service links like Dashboard, Databases, Query Editor, etc. On the far right, a vertical toolbar with icons for edit, delete, and other actions is visible.

The screenshot shows the EC2 Management Console. The left sidebar has sections for Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations, Auto Scaling Groups). The main area is titled 'Resources' and displays a table of EC2 resources. The table includes columns for Instances (running), Dedicated Hosts, Elastic IPs, Instances, Key pairs, Load balancers, Placement groups, Security groups, Snapshots, and Volumes. The count for each category is shown in the table. A tooltip provides information about launching Microsoft SQL Server Always On availability groups. The right sidebar contains 'Account attributes' like Supported platforms (VPC, Default VPC), Settings (EBS encryption, Zones, EC2 Serial Console, Default credit specification, Console experiments), and an 'Explore AWS' section.

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#SecurityGroups:search=hexa

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Security Groups (1/1) Info Actions Export security groups to CSV Create security group

Filter security groups search: hexa Clear filters

Name	Security group ID	Security group name	VPC ID	Description
-	sg-0e9a99fa70ac58531	testakshathexa	vpc-08720999ce1b62dd6	Created by R

sg-0e9a99fa70ac58531 - testakshathexa

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

This SG was created while creating the database

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#SecurityGroups:search=hexa

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Security Groups (1/1) Info Actions Export security groups to CSV Create security group

Filter security groups search: hexa Clear filters

Name	Security group ID	Security group name	VPC ID	Description
-	sg-0e9a99fa70ac58531	testakshathexa	vpc-08720999ce1b62dd6	Created by R

sg-0e9a99fa70ac58531 - testakshathexa

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

The screenshot shows the AWS EC2 Management Console. On the left, the navigation pane includes 'Elastic Block Store', 'Network & Security' (with 'Security Groups' selected), 'Load Balancing', 'Auto Scaling', and 'Feedback'. The main area displays 'Security Groups (1/1)' with one item: 'sg-0e9a99fa70ac58531' (Name: testakshathexa, VPC ID: vpc-08720999ce1b62dd6). Below it, the 'Inbound rules (1/1)' section shows one rule: 'sgr-0f4044dec85a63c9f' (Type: MySQL/Aurora, IP version: IPv4, Protocol: TCP, Port range: 3306, Source: Anywhere, Description: optional). The 'Edit inbound rules' button is highlighted with a red circle.

This screenshot shows the 'Edit inbound rules' page for the security group 'sg-0e9a99fa70ac58531'. It lists three inbound rules:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0f4044dec85a63c9f	MySQL/Aurora	TCP	3306	Anywhere (0.0.0.0/0)	
-	HTTP	TCP	80	Anywhere (0.0.0.0/0)	
-	RDP	TCP	3389	Anywhere (0.0.0.0/0)	

A large curly brace on the left groups the first three rows. A red circle highlights the 'Anywhere (0.0.0.0/0)' dropdown for the first rule's source. The status bar at the bottom right shows '3:20 PM 7/14/2022'.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'Inbox (96.853)', 'My Drive - Google Drive', and 'Instances | EC2 Management Con'. The main content area is titled 'Instances Info' with a search bar and a 'Launch instances' button. A red oval highlights the 'Launch instances' button. The left sidebar has sections for 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances' (selected), 'Images', and 'Feedback'. The 'Instances' section includes links for 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', and 'Capacity Reservations'. The bottom status bar shows the date and time as 3:20 PM, 7/14/2022.

The screenshot shows the 'Launch instances' wizard in the AWS EC2 Management Console. The top navigation bar is identical to the previous screenshot. The main content area shows a 'Name' input field with 'testinstance' entered and an 'Add additional tags' link. Below this is a section titled 'Application and OS Images (Amazon Machine Image)' with a 'Info' link. It includes a search bar and a 'Quick Start' tab (which is selected). Under 'Quick Start', there are several AMI icons: Amazon Linux, Ubuntu, Windows, Red Hat, SUSE Linux, and a placeholder icon. To the right, there is a 'Browse more AMIs' section with a search bar and a note about including AMIs from AWS Marketplace and the Community. A tooltip on the right side of the screen says 'quick color 1 (alt + shift + 1)'. The bottom status bar shows the date and time as 3:21 PM, 7/14/2022.

The screenshot shows the AWS EC2 Management Console. A new VPC (vpc-08720999ce1b62dd6) is selected. In the 'Firewall (security groups) Info' section, the 'Select existing security group' option is selected, and a security group named 'testakshathexa sg-0e9a99fa70ac58531' is chosen. A handwritten note on the right side of the screen says: 'Select the SG which you updated just now'. The browser taskbar at the bottom shows various open tabs and the date/time as 7/14/2022 3:21 PM.

The screenshot shows the AWS EC2 Management Console on the 'Instances' page. One instance, named 'testinstance' with Instance ID 'i-0c007a703a7385653', is listed and is currently 'Running'. A large handwritten note on the right side of the screen reads: 'Windows machine with the same security group which we created while creating RDS database'. The browser taskbar at the bottom shows various open tabs and the date/time as 7/14/2022 3:22 PM.

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aws Services Q rds

New EC2 Experience Tell us what you think

Instances (1/1) Info

Instances (1/1)

Search

Name Instance ID Instance state Instance type Status check Alarm state

testinstance i-0c007a703a7385653 Running t2.micro - No alarms

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

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hexaaaaaa.pem Show all

3:24 PM 7/14/2022

connect to the machine

Inbox (96.853) - akshu20791@gmail.com | My Drive - Google Drive | Connect to instance | EC2 Management Con... | RDS Management Console | +

aws Services Q rds

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using:

Public DNS: ec2-52-66-211-239.ap-south-1.compute.amazonaws.com

Password: PRR7=C3yCj (Password copied)

If you've joined your instance to a director instance.

Windows Security

Enter your credentials

These credentials will be used to connect to ec2-52-66-211-239.ap-south-1.compute.amazonaws.com.

Administrator: AKSHATGUPTA\Administrator

Remember me

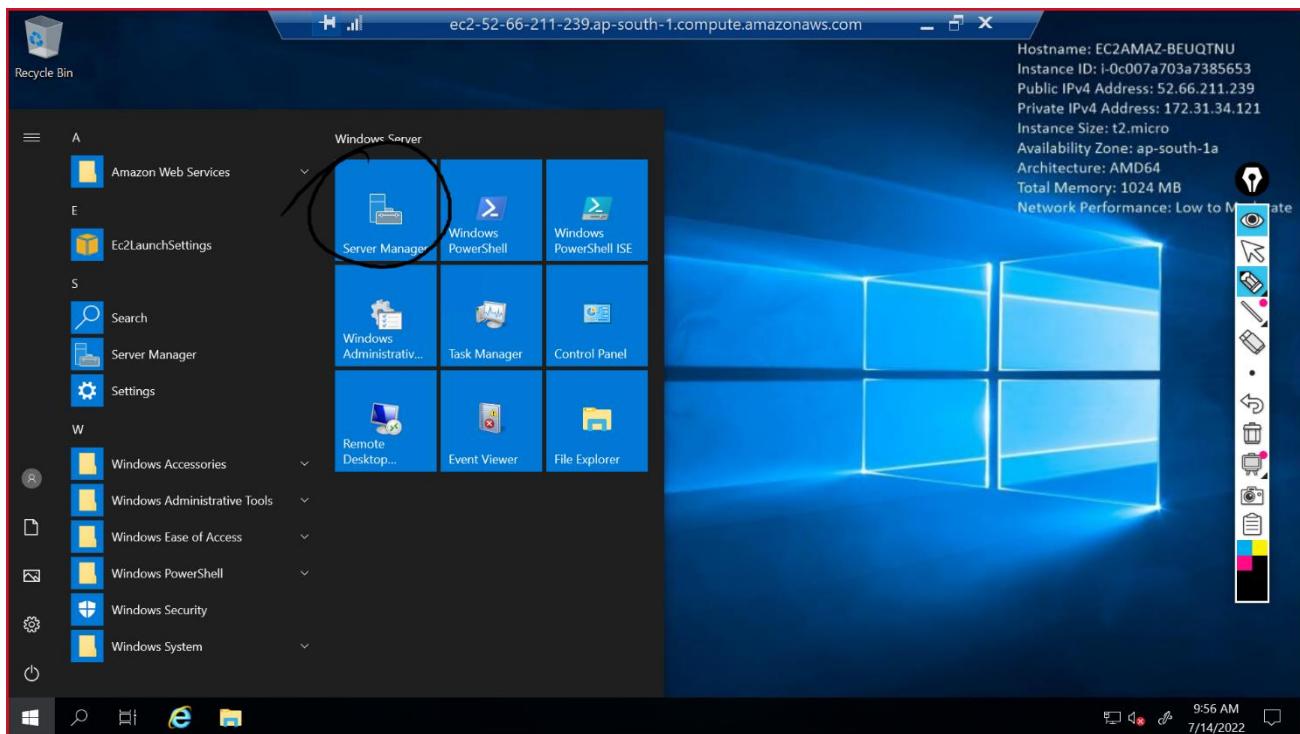
More choices OK Cancel

Cancel

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testinstance.rdp hexaaaaaa.pem

3:24 PM 7/14/2022



The screenshot shows the 'Server Manager' interface for the 'Local Server'. The left navigation pane shows 'Dashboard' (circled in red), 'Local Server' (circled in red), and 'All Servers'. The main area displays the 'PROPERTIES' for the local server, including:

Computer name	EC2AMAZ-BEUQTNU	Last installed updates	Never
Workgroup	WORKGROUP	Windows Update	Never check for updates
Windows Defender Firewall	Private: On	Last checked for updates	Never
Remote management	Enabled		
Remote Desktop	Enabled		
NIC Teaming	Disabled		
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled		
Operating system version	Microsoft Windows Server 2019 Datacenter	Processors	Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz
Hardware information	Xen HVM domU	Installed memory (RAM)	1 GB
		Total disk space	30 GB

Annotations include a handwritten note 'Turn off' next to the 'Real-Time Protection' section and another circled annotation around the 'IF Enhanced Security Configuration' setting.

<https://www.microsoft.com/web/downloads/platform.aspx>

The screenshot shows the Microsoft Web Platform Installer page. A red box highlights the 'Web Platform Installer' link in the navigation bar. A green box highlights the 'Install this extension' button. A blue box highlights the 'Microsoft Supported Download' link under the 'Web Platform Installer' heading.

We are excited to announce that the IIS.NET Forums are moving to the new Microsoft Q&A experience. Learn more >

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All Downloads Community Contributed Downloads Microsoft Supported Downloads Free Web Platform Installer

Home > Downloads > Microsoft Supported Downloads > Web Platform Installer

Web Platform Installer This is a Microsoft Supported Download

Install this extension or view additional downloads

Overview

Note: The Microsoft Web Platform Installer (WebPI) will be retired on July 1, 2022. For more information please see this blog post: <https://blogs.iis.net/iisteam/web-platform-installer-end-of-support-feed>

The Microsoft Web Platform Installer - WebPI provides a simplified installation workflow for installing common open source web applications and web platform technologies

9:57 AM 7/14/2022

The screenshot shows the Microsoft Web Platform Installer 5.1 Setup window. A red box highlights the 'I Accept the terms in the License Agreement' checkbox. A green box highlights the 'Install' button. A blue box highlights the 'Microsoft Software License Terms' and 'Microsoft Web Platform Installer' sections.

We are excited to announce that the IIS.NET Forums are moving to the new Microsoft Q&A experience. Learn more >

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Home > Downloads > Microsoft Supported Downloads

Web Platform Installer This is a Microsoft Supported Download

Microsoft Web Platform Installer 5.1 Setup

Please read the Microsoft Web Platform Installer 5.1 License Agreement

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT WEB PLATFORM INSTALLER

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

• updates,

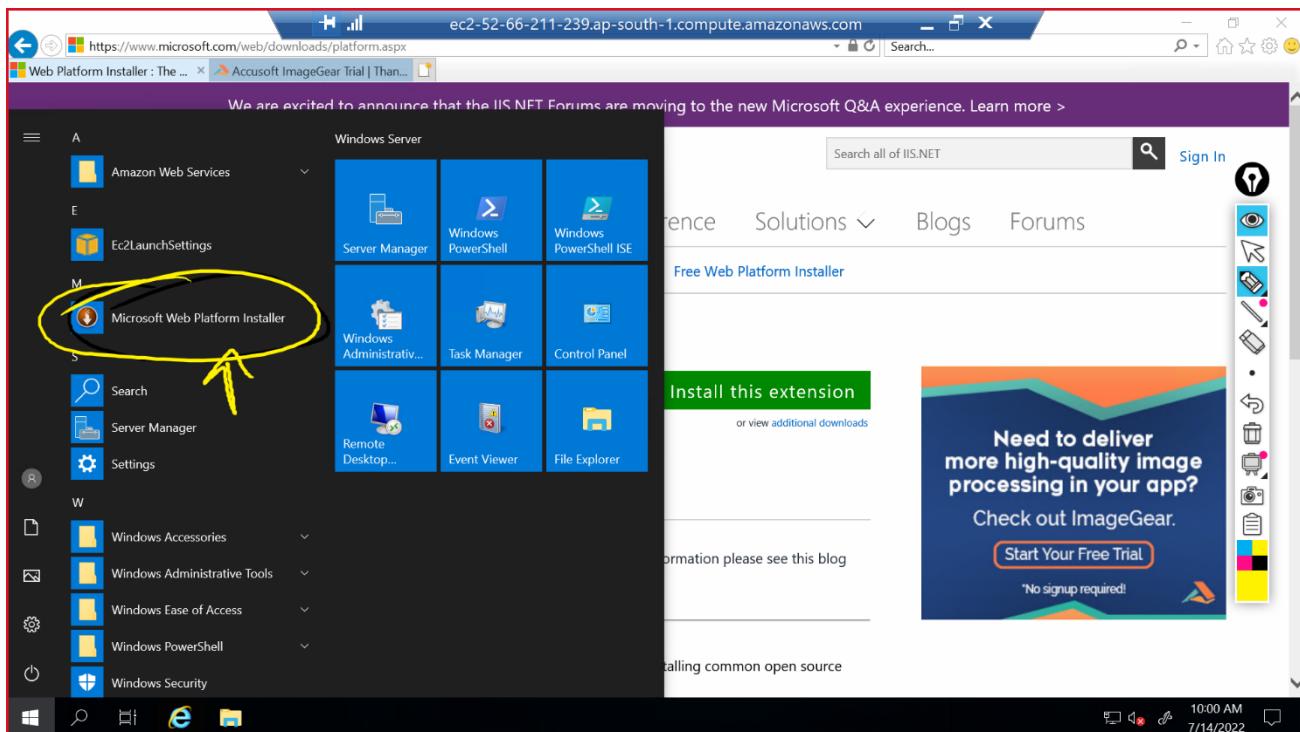
I accept the terms in the License Agreement

Print Back Install Cancel

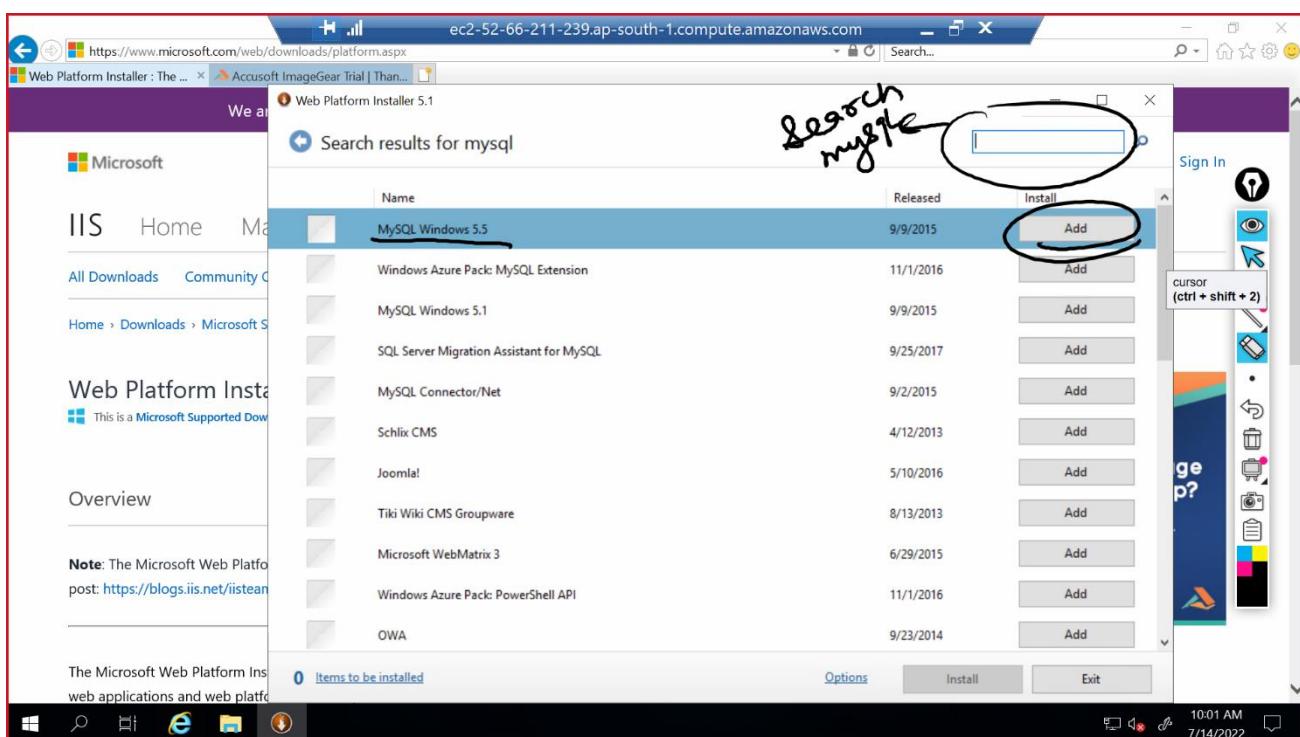
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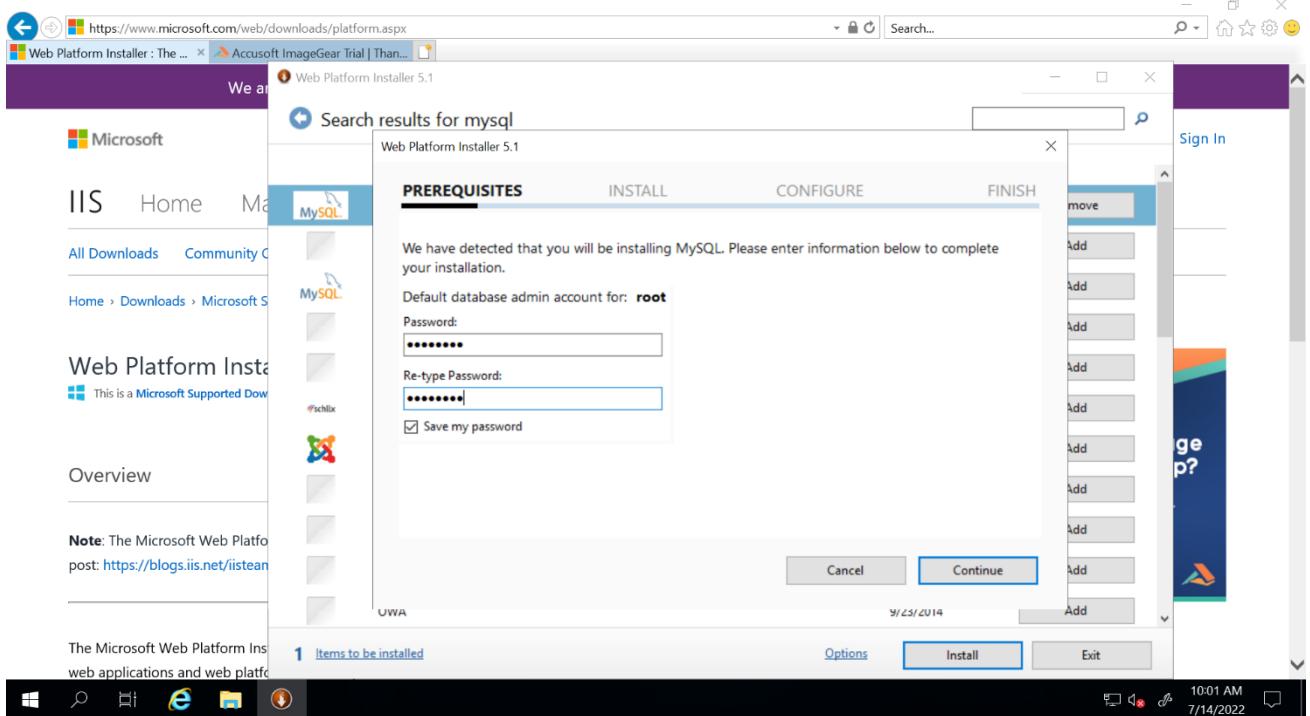
The Microsoft Web Platform Installer - WebPI provides a simplified installation workflow for installing common open source web applications and web platform technologies

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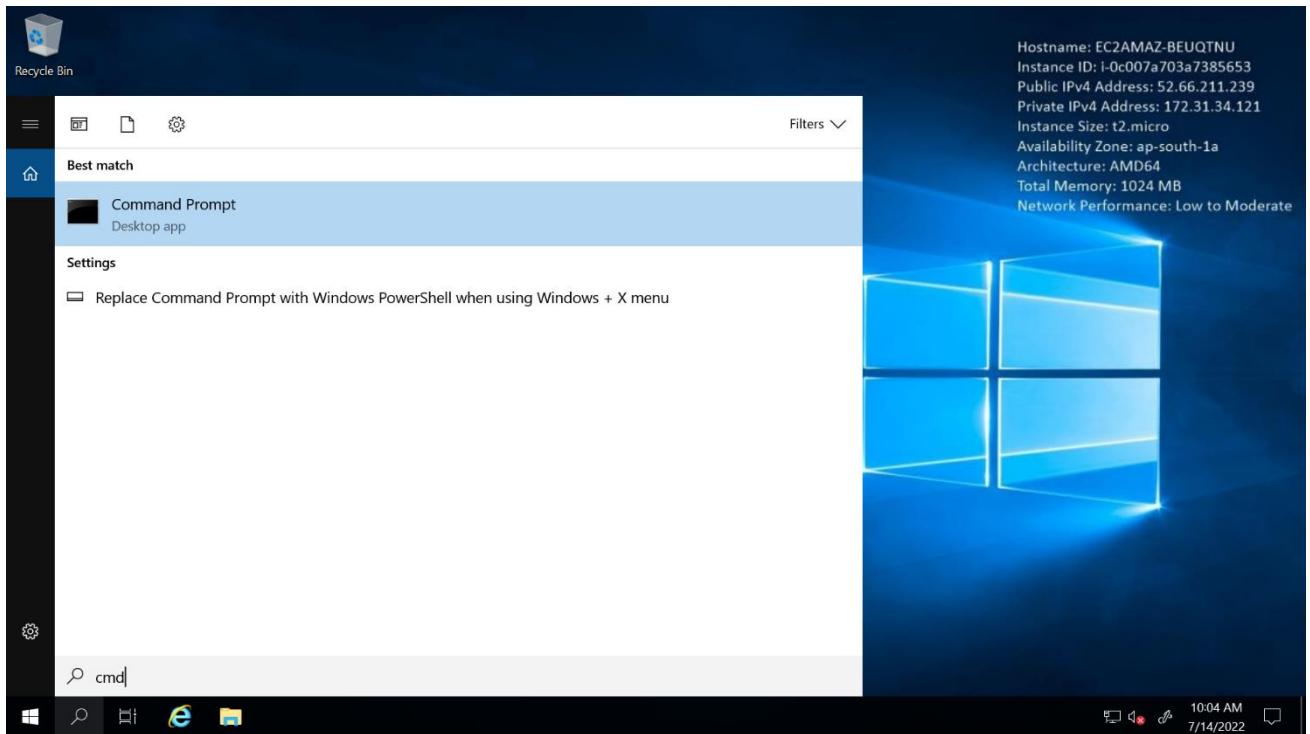


- open the web platform installer
- open application tab

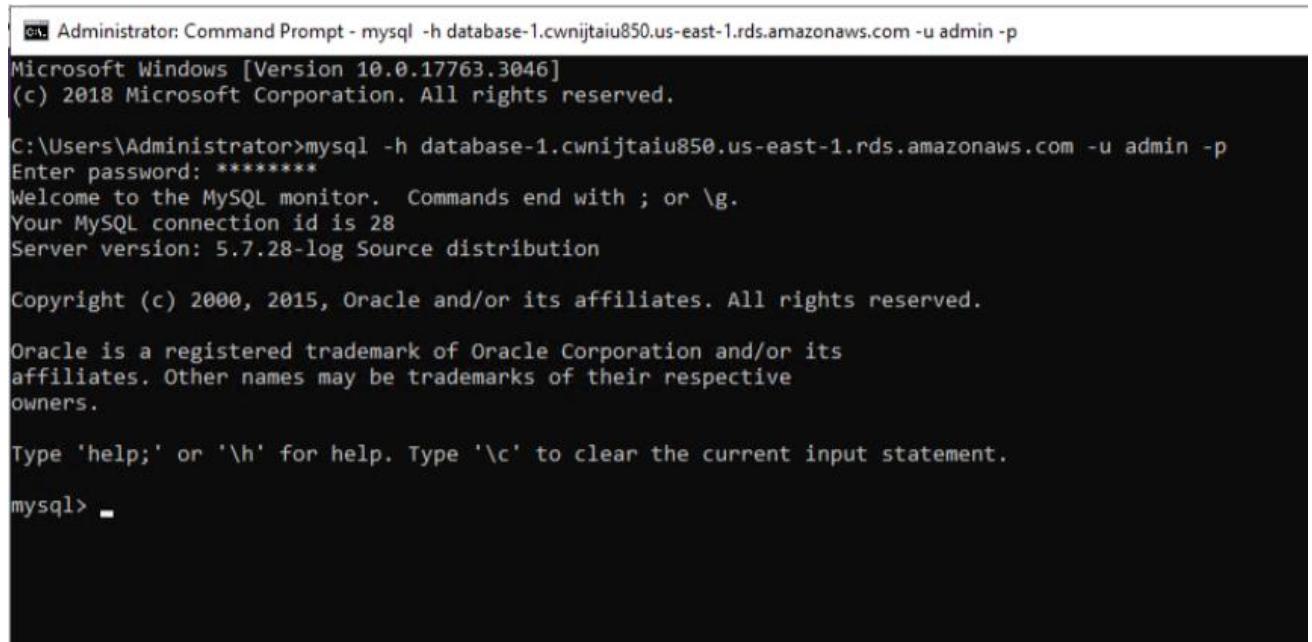




After installation open cmd



```
mysql -h <<database endpoint>> -u <<master username>> -p <<database initial name>>
```



```
Administrator: Command Prompt - mysql -h database-1.cwnijtaiu850.us-east-1.rds.amazonaws.com -u admin -p
Microsoft Windows [Version 10.0.17763.3046]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>mysql -h database-1.cwnijtaiu850.us-east-1.rds.amazonaws.com -u admin -p
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 5.7.28-log Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> -
```

Delete the database after completing the lab

