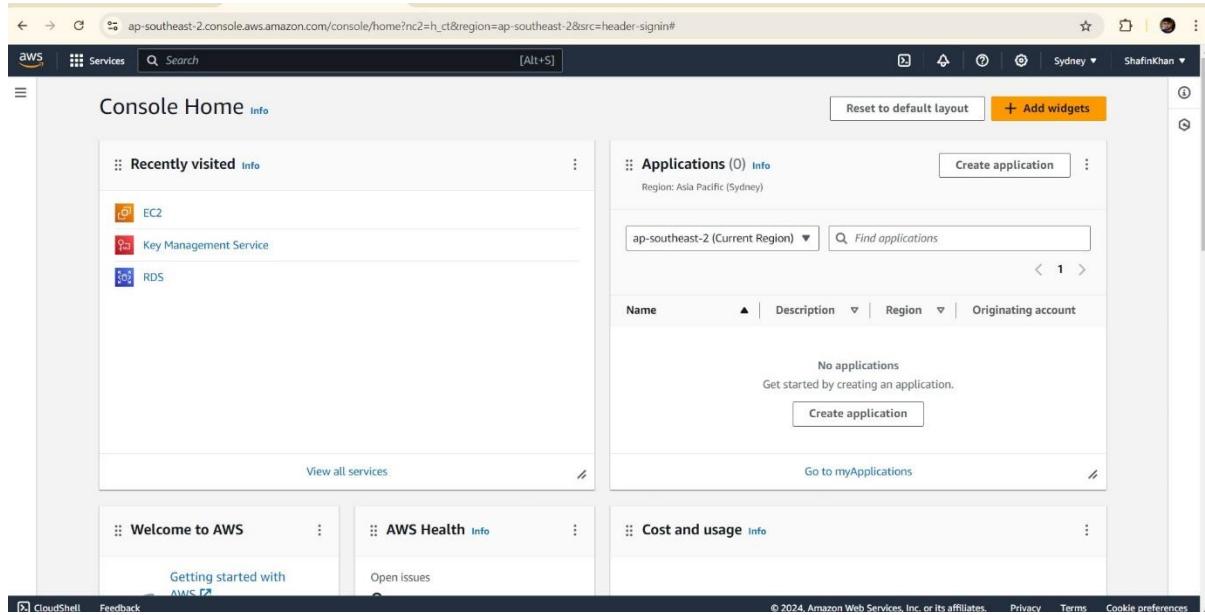


REPORT

Week-1 Task-To deploy application in both monolithic and microservices architecture

First to create a monolithic application I have created an AWS free-tier account

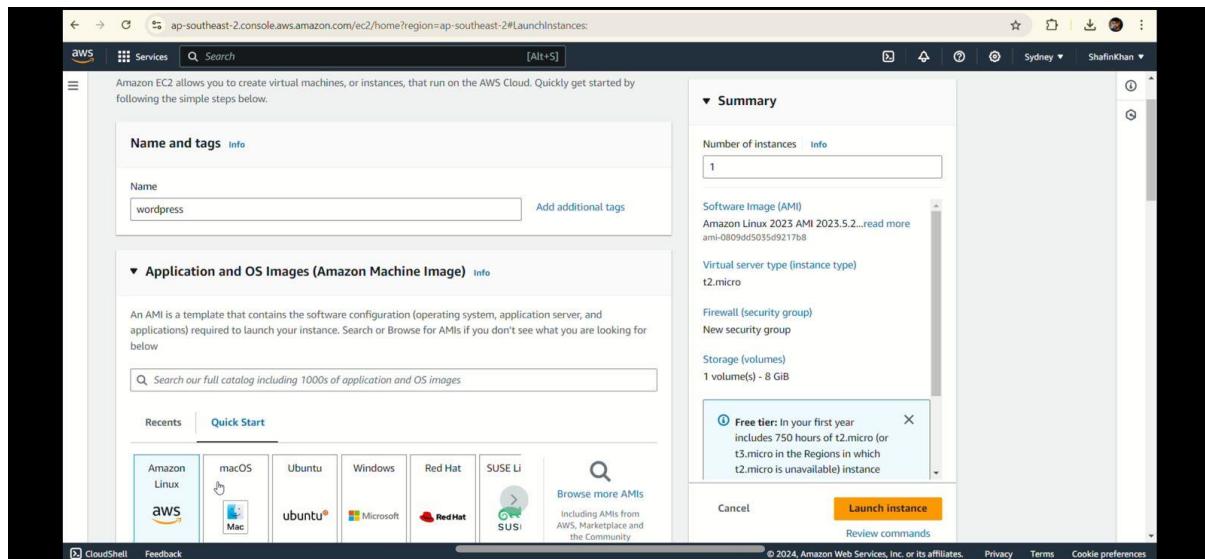


The screenshot shows the AWS Console Home page. On the left, there's a sidebar with 'Recently visited' links to EC2, Key Management Service, and RDS. The main area has a heading 'Applications (0)' with a 'Create application' button. Below it, a message says 'No applications' and 'Get started by creating an application.' At the bottom right of the main area is a 'Go to myApplications' link.

Creating the monolithic Application

Click on the EC2 instance and click the launch instance

The server is named as WordPress



The screenshot shows the 'Launch instances' page for the Amazon EC2 service. It's a step-by-step wizard. Step 1: 'Name and tags' shows a 'Name' field with 'wordpress'. Step 2: 'Application and OS Images (Amazon Machine Image)' shows a search bar and a list of recent AMIs: 'Amazon Linux', 'macOS', 'Ubuntu', 'Windows', 'Red Hat', and 'SUSE Linux'. A note says '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'. Step 3: 'Summary' shows the configuration: 1 instance, Amazon Linux 2023.5.2 AMI, t2.micro instance type, New security group, and 1 volume(s) - 8 GiB storage. A large orange 'Launch instance' button is at the bottom.

The applications and the OS images (Amazon Machine Image), I selected WordPress Certified by Bitnami and Automatic as it is monolithic and this AMI is in-built with MySQL database

WordPress Certified by Bitnami and Automatic

Bitnami by VMware [\[Read reviews\]](#)
★★★★★ 135 AWS reviews [\[Read reviews\]](#)

Overview | Product details | Pricing | Usage | Support

WordPress is the world's most popular content management platform. It includes the new Gutenberg editor and over 45,000 themes and plugins. This image is certified by Bitnami as secure, up-to-date, and packaged using industry best practices, and approved by Automattic, the experts behind WordPress.

Typical total price: \$0.019/Hr
Total pricing per instance for services hosted on t3a.small in us-east-1.
[See additional pricing information](#)

Latest version: 6.6.1-2-r02 on Debian 12
Delivery methods: Amazon Machine Image [\[Read more\]](#)
Operating systems: Debian 12

Categories: Content Management, eCommerce, Application Development

A subscription to this AMI is required before you can launch an instance. Check the pricing details in the pricing tab before continuing.

You can subscribe to this AMI now or we will automatically subscribe for you when you launch this instance. We recommend that you 'Subscribe now' if you are sure this is the AMI you want to use to launch as it will reduce wait time on launch. Choose 'Subscribe on instance launch' if you are still choosing an AMI and don't want to commit to a subscription yet. By subscribing to this AMI you agree that your use of this software is subject to the pricing terms and the seller's [End User License Agreement](#).

Cancel | [Subscribe on instance launch](#) | [Subscribe now](#)

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

AMI from catalog | Recents | Quick Start

Name: bitnami-wordpress-6.6.1-2-r02-linux-debian-12-x86_64-hvm-ebs-nami-7d426cb7-9522-4dd7-a56b-55dd8cc1c8d0

Description: Bitnami package for WordPress 6.6.1-2 (<https://bitnami.com/stack/wordpress/cloud/aws>)

Image ID: ami-06f58a507218f7437

Catalog: AWS Marketplace

Published: 2024-08-05T12:50:36.00

Architecture: x86_64

Virtualization: hvm

Root device type: ebs

ENI Enabled: Yes

Browse more AMIs

Number of instances: 1

Software Image (AMI): WordPress Certified by Bitnami... [\[Read more\]](#)

Virtual server type (instance type): t3a.small

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 10 GiB

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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and

For the instance type I have selected the t2.micro as I just need the demo application

Instance type: t2.micro | Info | Get advice

All generations

Compare instance types

The AMI vendor recommends using a t3a.small instance (or larger) for the best experience with this product.

Key pair (login): Create new key pair

Network settings: Edit

Number of instances: 1

Software Image (AMI): WordPress Certified by Bitnami... [\[Read more\]](#)

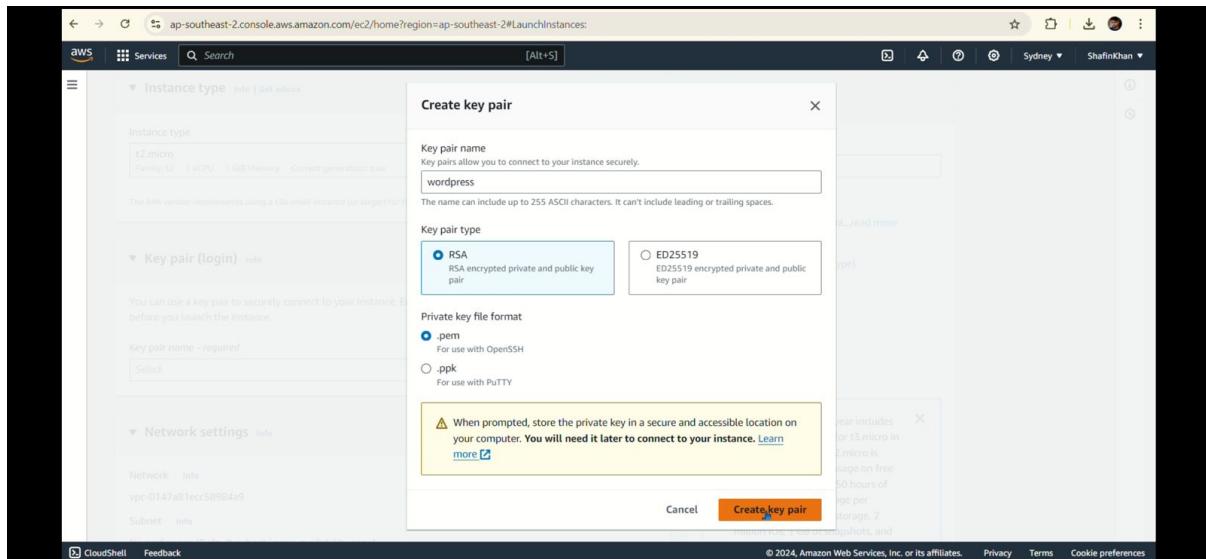
Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 10 GiB

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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and

For the keypair I have created a new WordPress keypair

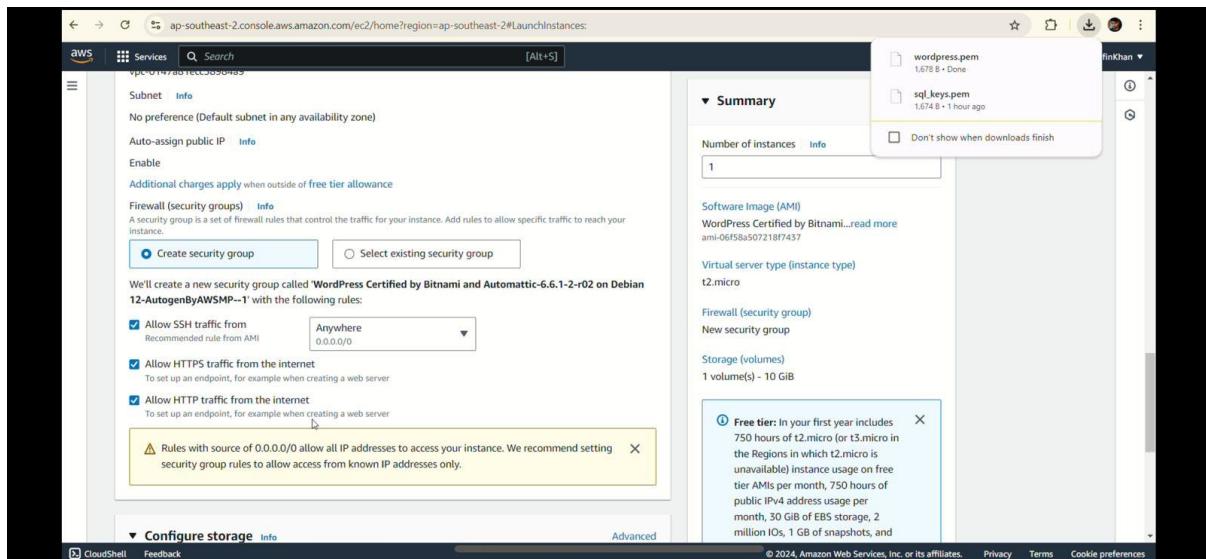


The network settings are not changed as the default settings satisfies the needs

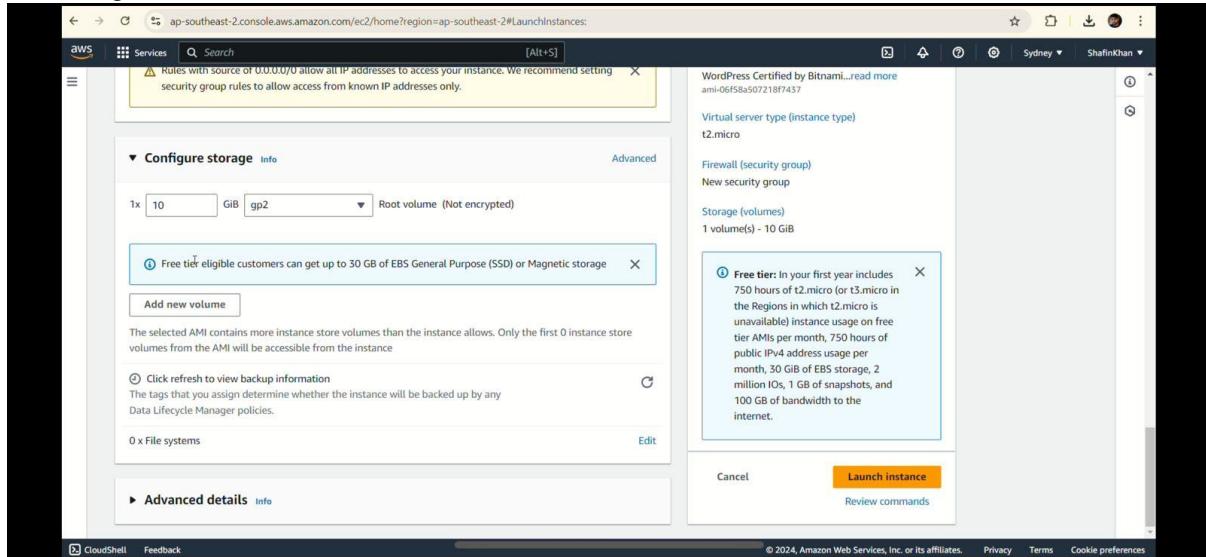
Network type is vpc-0147a81ecc58984a9

And the SSH traffic port is set to be accessed from anywhere

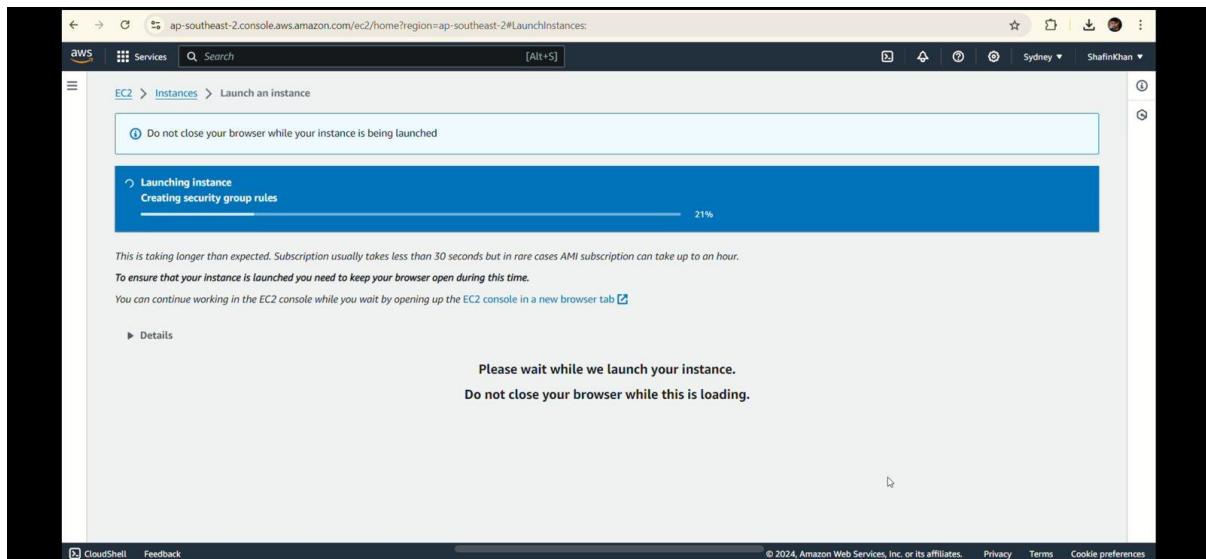
And the HTTPS traffic is set to be accessed from internet



The Storage is set as 10 GiB



Finally the instance is Launched



The screenshot shows the AWS EC2 Instances launch success page. A green banner at the top indicates a successful instance launch. Below it, a 'Next Steps' section provides links for creating billing alerts, connecting to the instance, connecting to an RDS database, and creating an EBS snapshot policy. The main content area shows two instances: 'wordpress' (Running, t2.micro) and 'mysql database' (Stopped, t2.micro). The URL in the browser is ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#LaunchInstances.

The screenshot shows the AWS EC2 Instances details page for the 'wordpress' instance. The instance is listed as 'Running' with a Public IP of 13.210.66.233. The details panel shows the instance summary, including its ID (i-04c290ceb57529824), state (Running), and type (t2.micro). It also displays the Public IPv4 address (13.210.66.233), Private IPv4 address (172.31.6.102), and Public IPv4 DNS (ec2-13-210-66-233.ap-southeast-2.compute.amazonaws.com). The URL in the browser is ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#Instances.

As Monolithic everything will be run in the same instances

Microservice architecture-Two instances (one for wordpress and another for mysql)

Instance for wordpress

Launch the instance and name it Wordpress-server

Chose the ubuntu server AMI

The screenshot shows the AWS EC2 Launch Instances wizard. In the 'Summary' section, the number of instances is set to 1. The software image (AMI) selected is 'Ubuntu Server 24.04 LTS (HVM), SSD Volume Type'. The virtual server type (instance type) is chosen as 't2.micro'. A tooltip for the 'Free tier' indicates it includes 750 hours of t2.micro or t3.micro usage in regions where t2.micro is unavailable. The 'Launch instance' button is highlighted in orange.

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 24.04 LTS, ...read more
ami-03f0544597f43a91d

Virtual server type (instance type): t2.micro

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

Launch instance

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.5.2...read more
ami-02346a771f54de8ac

Virtual server type (instance type): t2.micro

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

Launch instance

Select t2.micro instance

Set the keypair wordpress-key and allow SSH traffic and HTTP traffic from anyroot

Now connect to the ec2 instance through web

The screenshot shows the AWS EC2 Instances page. There are two instances listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Wordpress-ser...	i-049da37448899d897	Terminated	t2.micro	-	View alarms +	ap-southeast-2a	-
wordpress-server	i-0c3f3cffa190e0ed2	Running	t2.micro	Initializing	View alarms +	ap-southeast-2a	ec2-3-25-1

The selected instance, 'wordpress-server', is detailed below:

Details	Status and alarms	Monitoring	Security	Networking	Storage	Tags
Instance summary						
Instance ID i-0c3f3cffa190e0ed2 (wordpress-server)	Public IPv4 address 3.25.176.136 open address	Private IPv4 addresses 172.31.13.0				
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-25-176-136.ap-southeast-2.compute.amazonaws.com open address				
Hostname type	Private IP/DNS name (IPv4 only)					

Now first Install Apache, MySQL ,and PHP

To update packages

sudo apt update

sudo apt upgrade -y

```
System information disabled due to load higher than 1.0
Expanded Security Maintenance for Applications is not enabled.
Updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

buntu@ip-172-31-13-0:~$ sudo apt update

i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0
```

```
aws Services Search [Alt+S]
set+29 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.3 kB]
set+30 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.5 kB]
set+31 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]
set+32 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1016 B]
set+33 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
set+34 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
set+35 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
set+36 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
set+37 https://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [265 kB]
set+38 https://security.ubuntu.com/ubuntu noble-security/main Translation-en [63.3 kB]
set+39 https://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [3668 B]
set+40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [247 kB]
set+41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [107 kB]
set+42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
set+43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [9220 B]
set+44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [208 kB]
set+45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [40.7 kB]
set+46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [420 B]
set+47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
set+48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
set+49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
set+50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.2 MB in 6s (5053 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
[1] 1000 pts/0    0:00 sudo apt upgrade -y
```

Install Apache:

sudo apt install apache2 -y

```
aws Services Search [Alt+S] Sydney ShafinKhan

Scanning linux images...

Pending kernel upgrade!
Running kernel version:
  6.8.0-1009-aws
Diagnostics:
The currently running kernel version is not the expected kernel version 6.8.0-1012-aws.

Restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.

Restarting services...
systemctl restart multipathd.service packagekit.service polkit.service rsyslog.service udisks2.service

Service restarts being deferred:
systemctl restart ModemManager.service
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

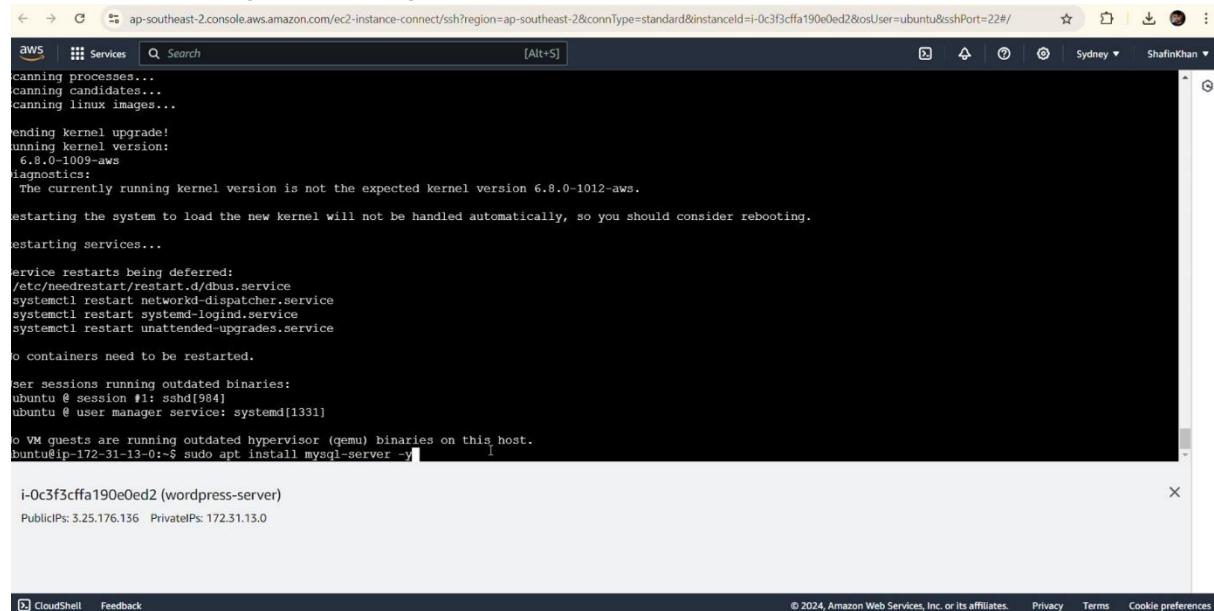
User sessions running outdated binaries:
ubuntu @ session #1: apt[1804], sshd[984]
ubuntu @ user manager service: systemd[1331]

No VM guests are running outdated hypervisor (gemm) binaries on this host.
ubuntu@ip-172-31-13-01:~$ sudo apt install apache2 -y

i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0
```

Install MySQL:

sudo apt install mysql-server -y



```
aws Services Search [Alt+S] Sydney ShafinKhan
scanning processes...
scanning candidates...
scanning linux images...

pending kernel upgrade!
running kernel version:
 6.8.0-1009-aws
diagnostics:
The currently running kernel version is not the expected kernel version 6.8.0-1012-aws.

restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.

restarting services...

service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

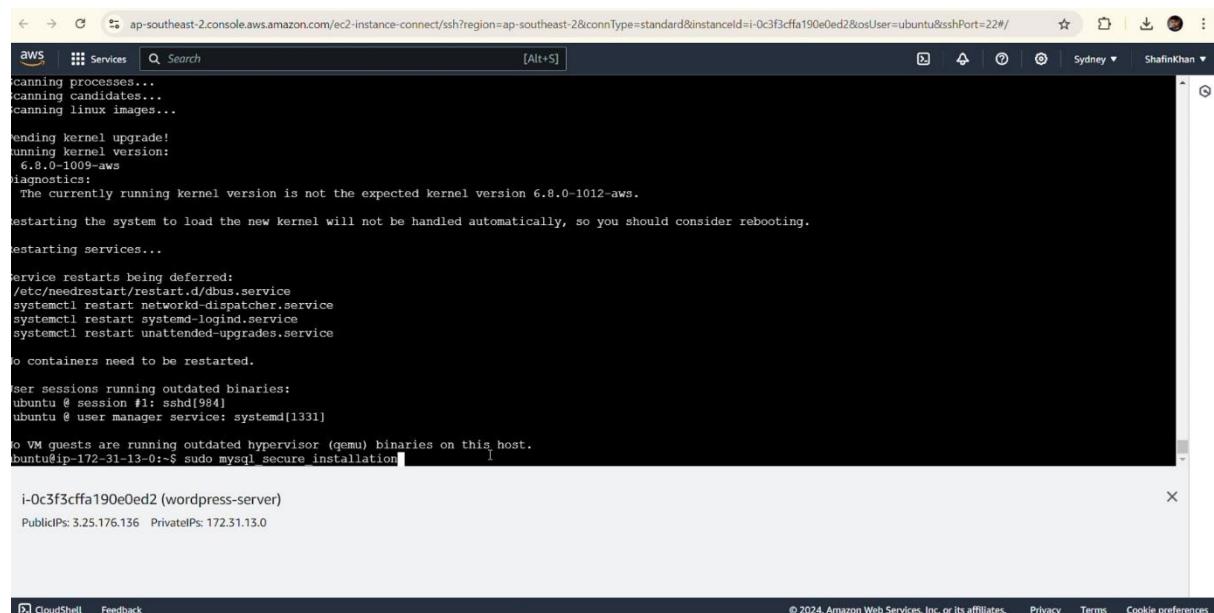
user sessions running outdated binaries:
ubuntu @ session #1: sshd[984]
ubuntu @ user manager service: systemd[1331]

0 VM guests are running outdated hypervisor (qemu) binaries on this host.
buntu@ip-172-31-13-0:~$ sudo apt install mysql-server -y
```

i-0c3f3cffa190e0ed2 (wordpress-server)
PublicIPs: 3.25.176.136 PrivateIPs: 172.31.13.0

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sudo mysql_secure_installation



```
aws Services Search [Alt+S] Sydney ShafinKhan
scanning processes...
scanning candidates...
scanning linux images...

pending kernel upgrade!
running kernel version:
 6.8.0-1009-aws
diagnostics:
The currently running kernel version is not the expected kernel version 6.8.0-1012-aws.

restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.

restarting services...

service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

user sessions running outdated binaries:
ubuntu @ session #1: sshd[984]
ubuntu @ user manager service: systemd[1331]

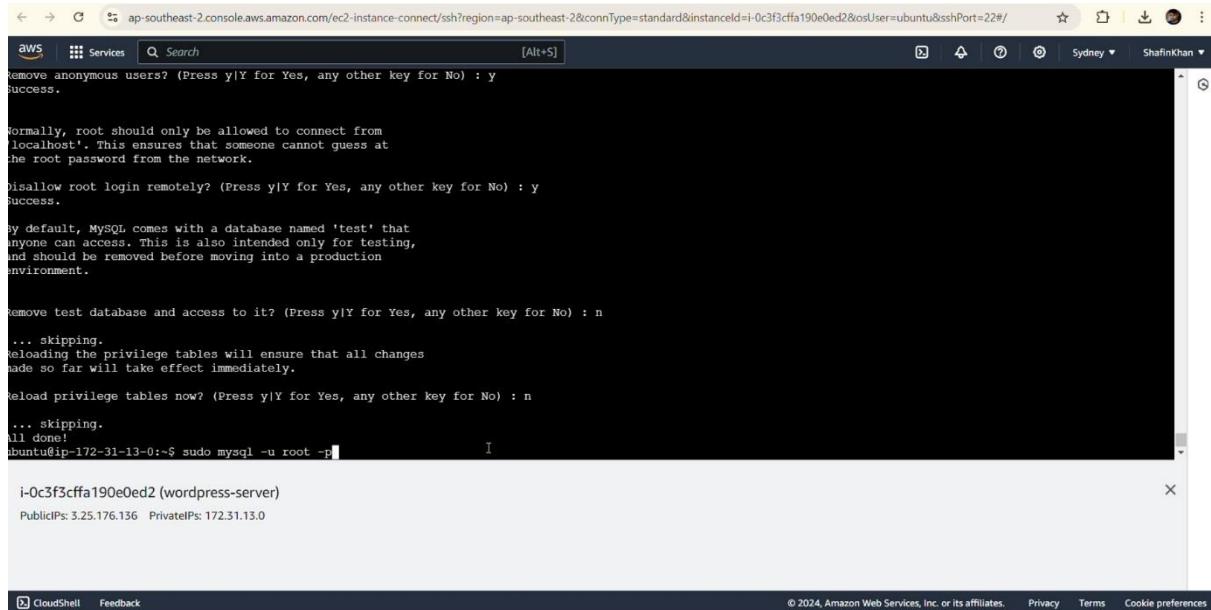
0 VM guests are running outdated hypervisor (qemu) binaries on this host.
buntu@ip-172-31-13-0:~$ sudo mysql_secure_installation
```

i-0c3f3cffa190e0ed2 (wordpress-server)
PublicIPs: 3.25.176.136 PrivateIPs: 172.31.13.0

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To create a MySQL Database and User for WordPress

```
sudo mysql -u root -p
```



The screenshot shows a terminal window in the AWS CloudShell interface. The user is running the MySQL setup script. The output includes:

```
remove anonymous users? (Press y|Y for Yes, any other key for No) : y
success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Is allow root login remotely? (Press y|Y for Yes, any other key for No) : y
success.

By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n
... skipping.

Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : n
... skipping.

All done!
ubuntu@ip-172-31-13-0:~$ sudo mysql -u root -p
```

At the bottom, the terminal shows the MySQL prompt: i-0c3f3cffa190e0ed2 (wordpress-server)

Then run the following SQL commands:

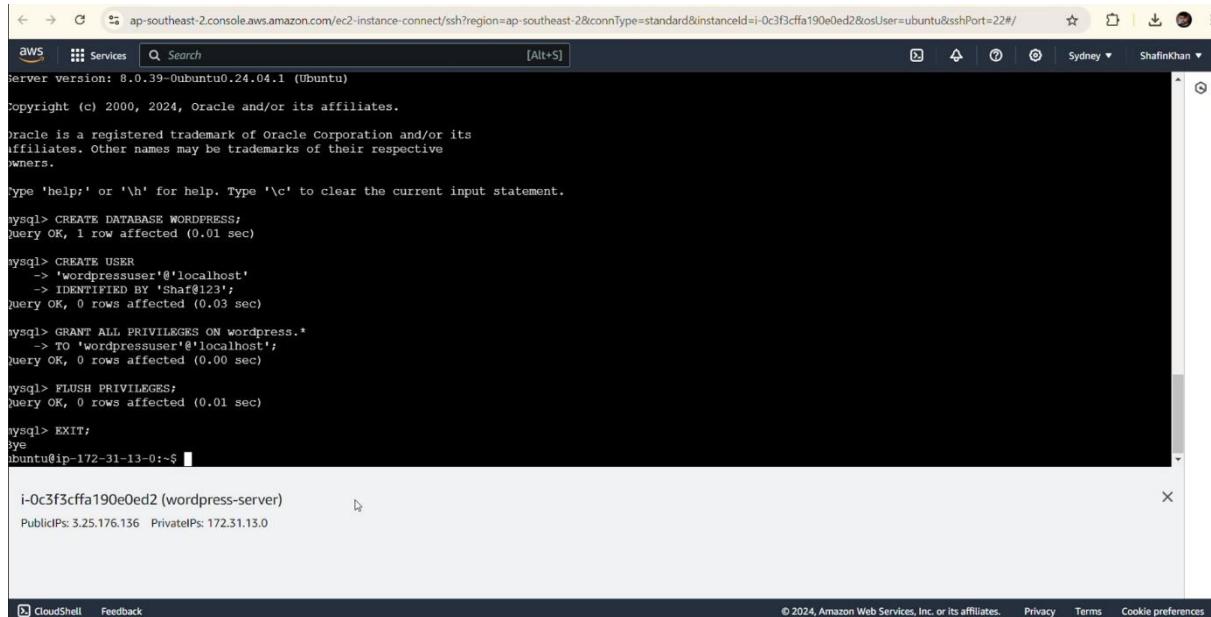
```
CREATE DATABASE wordpress;
```

```
CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'password';
```

```
GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'localhost';
```

```
FLUSH PRIVILEGES;
```

```
EXIT;
```



The screenshot shows a terminal window in the AWS CloudShell interface. The user is running MySQL commands. The output includes:

```
server version: 8.0.39-Ubuntu0.24.04.1 (Ubuntu)
Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
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> CREATE DATABASE WORDPRESS;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE USER
    -> 'wordpressuser'@'localhost'
    -> IDENTIFIED BY 'Shaf@123';
Query OK, 0 rows affected (0.03 sec)

mysql> GRANT ALL PRIVILEGES ON wordpress.*
    -> TO 'wordpressuser'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)

mysql> EXIT;
Bye
ubuntu@ip-172-31-13-0:~$
```

At the bottom, the terminal shows the MySQL prompt: i-0c3f3cffa190e0ed2 (wordpress-server)

To Install PHP and Related Modules

```
sudo apt install php libapache2-mod-php php-mysql php-xml php-curl php-gd php-mbstring -y
```

```
sudo systemctl restart apache2
```

```
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Wed Aug 7 14:33:44 UTC 2024

System load: 0.0 Processes: 112
Usage of /: 37.3% of 6.71GB Users logged in: 0
Memory usage: 58% IPv4 address for enx0: 172.31.13.0
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
No updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status.

*** System restart required ***
Last login: Wed Aug 7 14:33:45 2024 from 13.239.158.3
ubuntu@ip-172-31-13-0:~$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
  systemctl restart apache2
ubuntu@ip-172-31-13-0:~$ sudo systemctl restart apache2
[...]
i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0

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```

Now Download and Configure WordPress

Download WordPress:

```
cd /tmp
```

```
wget https://wordpress.org/latest.tar.gz
```

```
service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ user manager service: systemd[1331]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-13-0:/tmp$ sudo systemctl restart apache2
ubuntu@ip-172-31-13-0:/tmp$ cd /tmp
ubuntu@ip-172-31-13-0:/tmp$ wget https://wordpress.org/
--2024-08-07 14:25:30-- https://wordpress.org/
Resolving wordpress.org (Wordpress.org)... 198.143.164.252
Connecting to wordpress.org (Wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.1'

index.html.1 [=>] 136.09K 152KB/s in 0.9s
2024-08-07 14:25:32 (152 KB/s) - 'index.html.1' saved [139354]
ubuntu@ip-172-31-13-0:/tmp$ [...]
i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0

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```

tar -xvzf latest.tar.gz

```
aws Services Search [Alt+S] Sydney ShafinKhan
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ user manager service: systemd[1331]

0 VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-13-0:/tmp$ sudo systemctl restart apache2
ubuntu@ip-172-31-13-0:/tmp$ cd /tmp
ubuntu@ip-172-31-13-0:/tmp$ wget https://wordpress.org/
--2024-08-07 14:25:30 -- https://wordpress.org/
resolving wordpress.org (wordpress.org)... 198.143.164.252
connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
length: unspecified [text/html]
saving to: 'index.html.1'

index.html.1 [ ==> ] 136.09K 152KB/s in 0.9s

2024-08-07 14:25:32 (152 KB/s) - 'index.html.1' saved [139354]

ubuntu@ip-172-31-13-0:/tmp$ latest.tar.gz
latest.tar.gz: command not found
ubuntu@ip-172-31-13-0:/tmp$ tar-xvzf latest.tar.gz
i-0c3f3cffa190e0ed2 (wordpress-server)
PublicIPs: 3.25.176.136 PrivateIPs: 172.31.13.0

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```

To Move WordPress Files to the Web Directory:

sudo mv wordpress /var/www/html/

```
aws Services Search [Alt+S] Sydney ShafinKhan
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

0 containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ user manager service: systemd[1331]

0 VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-13-0:/tmp$ sudo systemctl restart apache2
ubuntu@ip-172-31-13-0:/tmp$ cd /tmp
ubuntu@ip-172-31-13-0:/tmp$ wget https://wordpress.org/
--2024-08-07 14:25:30 -- https://wordpress.org/
resolving wordpress.org (Wordpress.org)... 198.143.164.252
connecting to wordpress.org (Wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
length: unspecified [text/html]
saving to: 'index.html.1'

index.html.1 [ ==> ] 136.09K 152KB/s in 0.9s

2024-08-07 14:25:32 (152 KB/s) - 'index.html.1' saved [139354]

ubuntu@ip-172-31-13-0:/tmp$ latest.tar.gz
latest.tar.gz: command not found
ubuntu@ip-172-31-13-0:/tmp$ tar-xvzf latest.tar.gz
tar-xvzf: command not found
ubuntu@ip-172-31-13-0:/tmp$ sudo mv wordpress /var/www/html/
i-0c3f3cffa190e0ed2 (wordpress-server)
PublicIPs: 3.25.176.136 PrivateIPs: 172.31.13.0

cloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

To set Permissions:

```
sudo chown -R www-data:www-data /var/www/html/wordpress
```

```
sudo chmod -R 755 /var/www/html/wordpress
```

```
← → ⌂ ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-2&connType=standard&instanceId=i-0c3f3cffa190e0ed2&osUser=ubuntu&sshPort=22#/
aws Services Search [Alt+S] Sydney ShafinKhan

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ user manager service: systemd[1331]

10 VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-13-0:/tmp$ sudo systemctl restart apache2
ubuntu@ip-172-31-13-0:/tmp$ cd /tmp
ubuntu@ip-172-31-13-0:/tmp$ wget https://wordpress.org/
--2024-08-07 14:25:30-- https://wordpress.org/
resolving wordpress.org (Wordpress.org)... 198.143.164.252
connecting to wordpress.org (Wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
length: unspecified [text/html]
saving to: 'index.html.1'

index.html.1 [ => ] 136.09K 152KB/s in 0.9s
2024-08-07 14:25:32 (152 KB/s) - 'index.html.1' saved [139354]

ubuntu@ip-172-31-13-0:/tmp$ latest.tar.gz
latest.tar.gz: command not found
ubuntu@ip-172-31-13-0:/tmp$ tar-xvf latest.tar.gz
tar-xvf: command not found
ubuntu@ip-172-31-13-0:/tmp$ sudo mv wordpress /var/www/html/
mv: cannot stat '/wordpress': No such file or directory
ubuntu@ip-172-31-13-0:/tmp$ sudo chown -R www-data:www-data /var/www/html/wordpress

i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

To configure Apache for WordPress

```
sudo nano /etc/apache2/sites-available/wordpress.conf
```

```
← → ⌂ ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-2&connType=standard&instanceId=i-0c3f3cffa190e0ed2&osUser=ubuntu&sshPort=22#/
aws Services Search [Alt+S] Sydney ShafinKhan

ubuntu @ user manager service: systemd[1331]

10 VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-13-0:/tmp$ sudo systemctl restart apache2
ubuntu@ip-172-31-13-0:/tmp$ cd /tmp
ubuntu@ip-172-31-13-0:/tmp$ wget https://wordpress.org/
--2024-08-07 14:25:30-- https://wordpress.org/
resolving wordpress.org (Wordpress.org)... 198.143.164.252
connecting to wordpress.org (Wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
length: unspecified [text/html]
saving to: 'index.html.1'

index.html.1 [ => ] 136.09K 152KB/s in 0.9s
2024-08-07 14:25:32 (152 KB/s) - 'index.html.1' saved [139354]

ubuntu@ip-172-31-13-0:/tmp$ latest.tar.gz
latest.tar.gz: command not found
ubuntu@ip-172-31-13-0:/tmp$ tar-xvf latest.tar.gz
tar-xvf: command not found
ubuntu@ip-172-31-13-0:/tmp$ sudo mv wordpress /var/www/html/
mv: cannot stat '/wordpress': No such file or directory
ubuntu@ip-172-31-13-0:/tmp$ sudo chown -R www-data:www-data /var/www/html/wordpress
chown: cannot access '/var/www/html/wordpress': No such file or directory
ubuntu@ip-172-31-13-0:/tmp$ ^[[200~sudo chmod -R 755 /var/www/html/wordpress
sudo: command not found
ubuntu@ip-172-31-13-0:/tmp$ sudo nano /etc/apache2/sites-available/wordpress.conf

i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

Add the following content:

```
<VirtualHost *:80>
```

```

ServerAdmin admin@example.com
DocumentRoot /var/www/html/wordpress
ServerName your-ec2-public-dns

<Directory /var/www/html/wordpress>
Options FollowSymLinks
AllowOverride All
Require all granted
</Directory>

```

```

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>

```

The screenshot shows a terminal window titled 'aws' with the URL 'ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-2&connType=standard&instanceId=i-0c3f3cffa190e0ed2&osUser=ubuntu&sshPort=22#/'. The window displays the Apache configuration file for a WordPress site. The configuration includes a VirtualHost block for port 80, specifying the server administrator, document root, and server name. It also defines a Directory block for the WordPress directory, setting options like FollowSymLinks and AllowOverride All, and specifying the Require all granted condition. Additionally, it sets ErrorLog and CustomLog directives. The configuration ends with a closing VirtualHost tag.

```

GNU nano 7.2                               /etc/apache2/sites-available/wordpress.conf *
VirtualHost *:80*
  ServerAdmin admin@example.com
  DocumentRoot /var/www/html/wordpress
  ServerName your-ec2-public-dns

  <Directory /var/www/html/wordpress>
    Options FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>

  ErrorLog ${APACHE_LOG_DIR}/error.log
  CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>■ I

```

Finally to enable the New Configuration and Rewrite Module:

```

sudo a2ensite wordpress.conf
sudo a2enmod rewrite
sudo systemctl restart apache2

```

```

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Wed Aug 7 14:33:44 UTC 2024

System load: 0.0 Processes: 112
Usage of /: 37.3% of 6.71GB Users logged in: 0
Memory usage: 58% IPv4 address for enx0: 172.31.13.0
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
! updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Last login: Wed Aug 7 14:33:45 2024 from 13.239.158.3
ubuntu@ip-172-31-13-0:~$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
  systemctl restart apache2
ubuntu@ip-172-31-13-0:~$ sudo systemctl restart apache2

i-0c3f3cffa190e0ed2 (wordpress-server)
Public IPs: 3.25.176.136 Private IPs: 172.31.13.0

```

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Instance for MySQL database

Launch another instance ec2

Name the server as mysql-database

Launch an instance

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

Name: mysql database

Application and OS Images (Amazon Machine Image)

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.

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.5.2... (ami-0809dd5035d921708)

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

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

Launch instance

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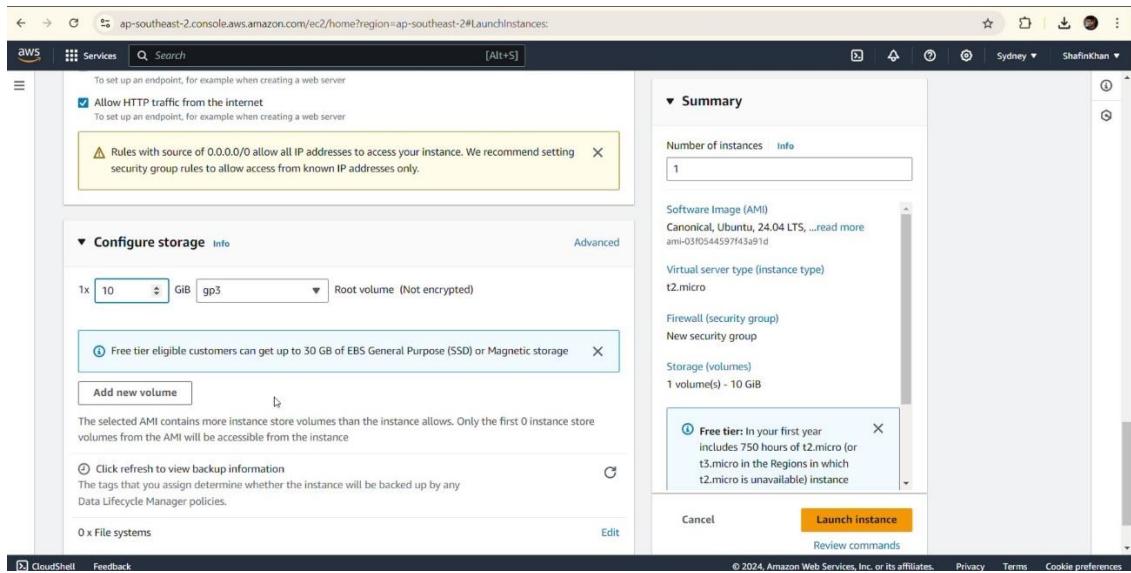
The applications and the OS images (Amazon Machine Image), I have selected Ubuntu AMI

The screenshot shows the AWS EC2 console at the URL ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#LaunchInstances. The user has selected the 'Quick Start' tab and chosen the 'Ubuntu Server 24.04 LTS (HVM), SSD Volume Type' AMI. They have also selected the 't2.micro' instance type. A modal window titled 'Free tier' is open, stating: 'In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance'. The 'Launch instance' button is highlighted in orange.

For the instance ,I have selected t2.micro

Created a new keypair

The screenshot shows the 'Create key pair' dialog box. The user has entered 'sql_keys' as the key pair name. Under 'Key pair type', 'RSA' is selected. Under 'Private key file format', '.pem' is selected. A warning message states: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.' The 'Create key pair' button is highlighted in orange.

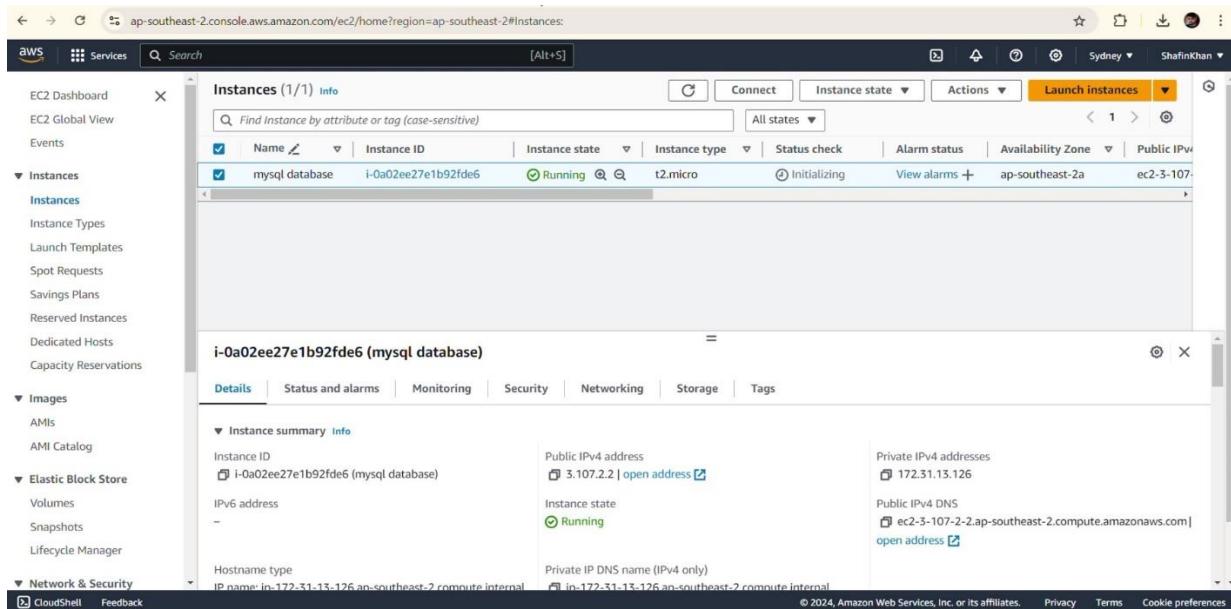


The storage is set as 10 Gib

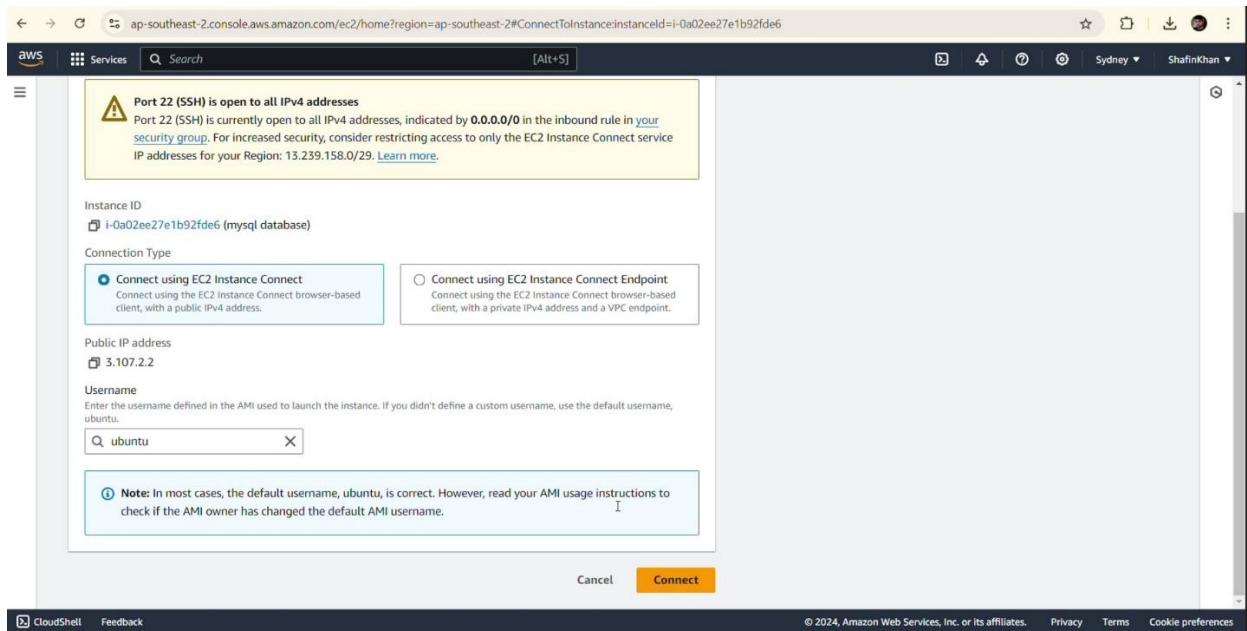
SSH and HTTPS traffic is allowed from anywhere

And the rest of the thing set to be the default

And the instance is launched



By clicking the connect, I established connection with the machine from the web



In the console to update the system the command is

sudo apt update

```
System load: 0.69 Processes: 106
Usage of /: 17.6% of 8.65GB Users logged in: 0
Memory usage: 19%
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-13-126:~$ sudo apt update
```

i-0a02ee27e1b92fde6 (mysql database)
Public IPs: 3.107.2.2 Private IPs: 172.31.13.126

Next to install Mysql the command is

```
sudo apt install mysql-server
```

```
aws Services Search [Alt+S]
Set:29 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.3 kB]
Set:30 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.5 kB]
Set:31 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]
Set:32 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1016 B]
Set:33 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Set:34 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Set:35 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Set:36 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Set:37 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [265 kB]
Set:38 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [63.1 kB]
Set:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [3632 B]
Set:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [246 kB]
Set:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [106 kB]
Set:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
Set:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [9164 B]
Set:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [208 kB]
Set:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [40.7 kB]
Set:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [420 B]
Set:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Set:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Set:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Set:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.2 MB in 5s (5194 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-13-126:~$ sudo apt install mysql-server
```

Next to check the status of the MySQL active or not the command is

sudo systemctl status mysql

8 updates can be applied immediately.
7 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

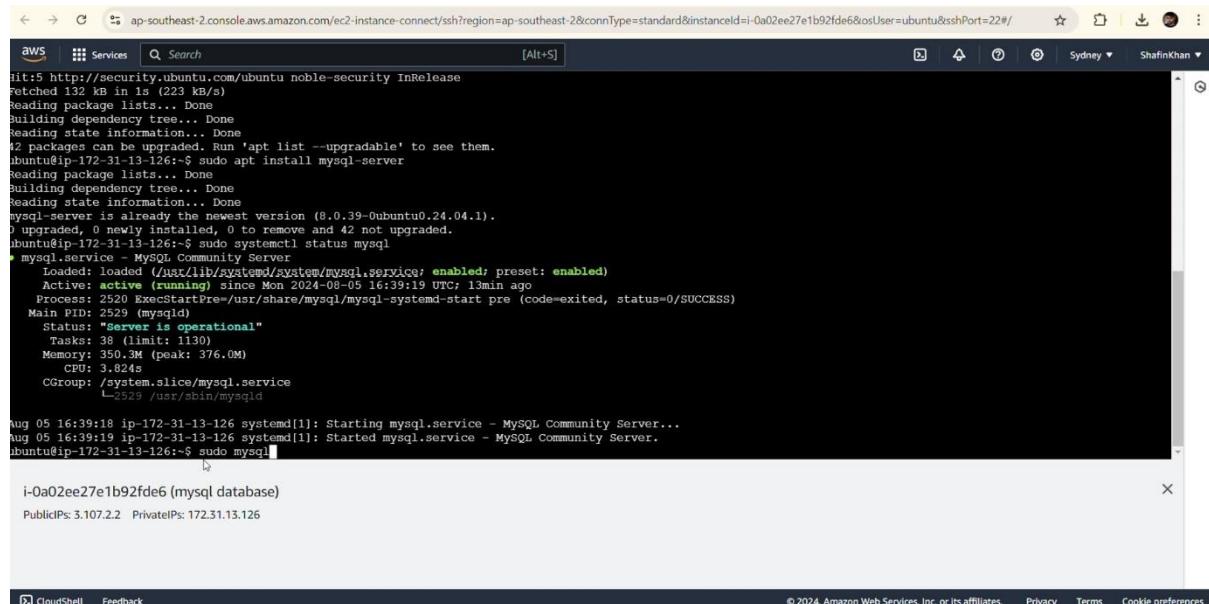
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

```
Last login: Mon Aug  5 16:36:45 2024 from 13.239.158.5
ubuntu@ip-172-31-13-126:~$ sudo apt update
Get:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [5640 B]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Fetched 132 kB in 1s (223 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-13-126:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mysql-server is already the newest version (8.0.39-0ubuntu0.24.04.1).
0 upgraded, 0 newly installed, 0 to remove and 42 not upgraded.
ubuntu@ip-172-31-13-126:~$ sudo systemctl status mysql
```

The console will display Active

Next to login to Mysql as a root the command is

sudo mysql



```
i-0a02ee27e1b92fde6 http://security.ubuntu.com/ubuntu noble-security InRelease
  fetched 132 kB in 1s (223 kB/s)
  reading package lists... Done
  building dependency tree... Done
  reading state information... Done
  42 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-13-126:~$ sudo apt install mysql-server
  reading package lists... Done
  building dependency tree... Done
  reading state information... Done
mysql-server is already the newest version (8.0.39-0ubuntu0.24.04.1).
0 upgraded, 0 newly installed, 0 to remove and 42 not upgraded.
ubuntu@ip-172-31-13-126:~$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
   Loaded: loaded (/usr/lib/systemd/system/mysql.service; enabled; preset: enabled)
   Active: active (running) since Mon 2024-08-05 16:39:19 UTC; 13min ago
     Process: 2520 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
    Main PID: 2529 (mysqld)
      Status: "MySQL is operational"
        Tasks: 38 (limit: 1130)
       Memory: 350.3M (peak: 376.0M)
          CPU: 3.824s
         CGroup: /system.slice/mysql.service
                  └─2529 /usr/sbin/mysqld

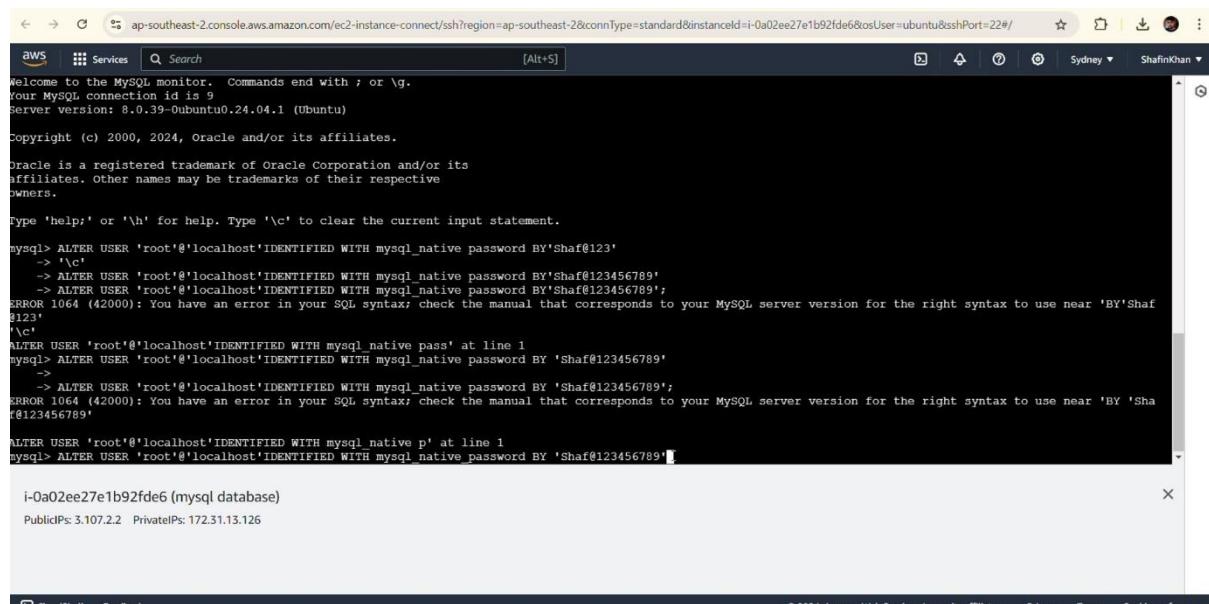
aug 05 16:39:19 ip-172-31-13-126 systemd[1]: Starting mysql.service - MySQL Community Server...
aug 05 16:39:19 ip-172-31-13-126 systemd[1]: Started mysql.service - MySQL Community Server.
ubuntu@ip-172-31-13-126:~$ sudo mysql

```

Next to update the password for the MySql server the command is

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789'

I entered my password



```
Welcome to the MySQL monitor. Commands end with ; or \g.
your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.24.04.1 (Ubuntu)

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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> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123'
-> ^C
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'BY' Shaf@123'
`^C`
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
->
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'BY 'Shaf@123456789'

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789' p at line 1
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789' p
```

And command **FLUSH PRIVILEGES**; to check the queries

```
aws Services Search [Alt+S] Sydney ShafinKhan

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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> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123'
-> '\c'
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789'
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'BY' Shaf
@123'
`\'c'
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789'
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789'
-> '\c'
-> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'BY' Sha
f@123456789'

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'PREVILE
GES' at line 1
mysql> FLUSH PRIVILEGES; I

i-0a02ee27e1b92fde6 (mysql database)

PublicIPs: 3.107.2.2 PrivateIPs: 172.31.13.126
```

Next to test the MySQL server if it is working by running sample sql queries the commands are

```
CREATE DATABASE mysql_test;
```

USE mysql_test;

```
CREATE TABLE table1(id INT,name VARCHAR(45));
```

```
INSERT INTO table1 VALUES(1,'Shafin'),(2,'Khan'),(3,'Shariq'),(4,'Ahamed');
```

SELECT*FROM table1;

```
aws Services Search [Alt+S] Sydney ShafikKhan

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Shaf@123456789';
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'PREVILEGES' at line 1
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE DATABASE mysql_test;
Query OK, 1 row affected (0.01 sec)

mysql> USE mysql_test
Database changed
mysql> CREATE TABLE table1(.d INT,name VARCHAR(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '.d INT, name VARCHAR(45))' at line 1
mysql> INSERT INTO table1 VALUES(1,Shafin),(2,Khan),(3,Shariq),(4,Ahamed);
ERROR 1146 (42S02): Table 'mysql_test.table1' doesn't exist
mysql> CREATE TABLE table1 (.d INT,name VARCHAR(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ',d INT, name VARCHAR(45))' at line 1
mysql> CREATE TABLE table1 (id INT,name VARCHAR(45));
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO table1 VALUES(1,Shafin),(2,Khan),(3,Shariq),(4,Ahamed);
ERROR 1054 (42S22): Unknown column 'Shafin' in 'field list'
mysql> INSERT INTO table1 VALUES(1,'Shafin'),(2, 'Khan'),(3, 'Shariq'),(4, 'Ahamed');
```

The screenshot shows a terminal window titled "CloudShell" on the AWS CloudShell interface. The user has run several MySQL commands to create a table named "table1" and insert four rows of data. The table structure is defined with an integer column "id" and a VARCHAR(45) column "name". The inserted data consists of four rows: (1, Shafin), (2, Khan), (3, Sharique), and (4, Ahamed). The user then runs a SELECT query to retrieve all data from the table.

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '.d INT, name VARCHAR(45))' at line 1
mysql> INSERT INTO table1 VALUES(1,Shafin),(2,Khan),(3,Sharique),(4,Ahamed);
ERROR 1146 (42S02): Table 'mysql_test.table1' doesn't exist
mysql> CREATE TABLE table1 (id INT,name VARCHAR(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ',d INT, name VARCHAR(45))';
mysql> CREATE TABLE table1 (id INT,name VARCHAR(45));
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO table1 VALUES(1,Shafin),(2,Khan),(3,Sharique),(4,Ahamed);
ERROR 1054 (42S22): Unknown column 'Shafin' in 'field list'
mysql> INSERT INTO table1 VALUES(1, 'Shafin'),(2, 'Khan'),(3, 'Sharique'),(4, 'Ahamed');
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> SELECT *FROM table1;
+----+-----+
| id | name |
+----+-----+
| 1  | Shafin |
| 2  | Khan   |
| 3  | Sharique |
| 4  | Ahamed |
+----+-----+
4 rows in set (0.00 sec)

mysql>
```

i-0a02ee27e1b92fde6 (mysql database)
PublicIPs: 3.107.2.2 PrivateIPs: 172.31.13.126

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The table will be displayed with the entered data