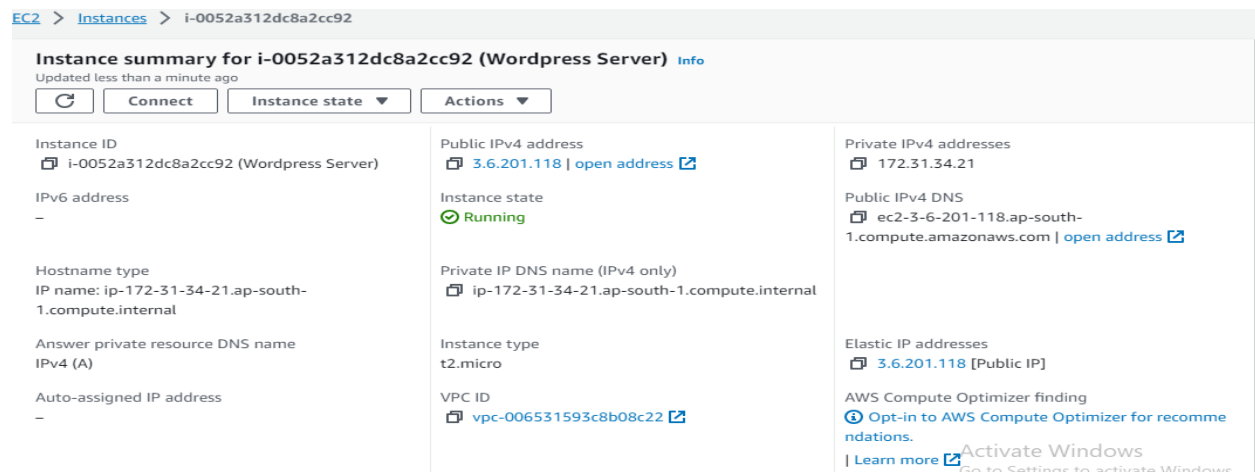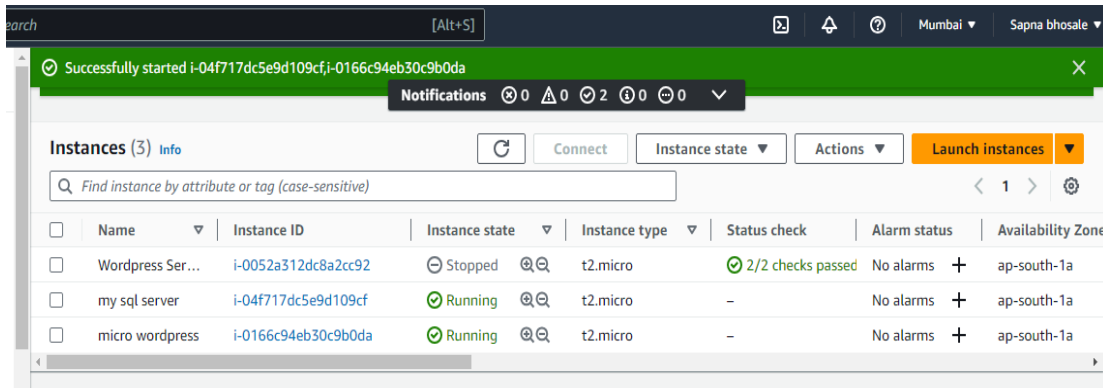# Task 1

Monilith EC2 instance deploy WordPress and MYSQL on the same instance:

1. Created ec2 ubuntu :

| Details | Security | Networking | Storage | Status checks | Monitoring | Tags |

▼ **Instance details** Info

Platform	AMI ID	Monitoring
⧉ Ubuntu (Inferred)	⧉ ami-0f5ee92e2d63afc18	disabled
Platform details	AMI name	Termination protection
⧉ Linux/UNIX	⧉ ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230516	Disabled
Stop protection	Launch time	AMI location
Disabled	⧉ Sat Sep 09 2023 13:09:21 GMT+0530 (India Standard Time) (8 minutes)	⧉ amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230516
Instance auto-recovery	Lifecycle	Stop-hibernate behavior
Default	normal	Disabled
AMI Launch index	Key pair assigned at launch	State transition reason
0	⧉ Wordpress Server	–
Credit specification	Kernel ID	State transition message

Usage operation	RAM disk ID	Owner
⧉ RunInstances	–	⧉ 074470150406
Enclaves Support	Boot mode	Current instance boot mode
–	–	⧉ legacy-bios
Allow tags in instance metadata	Use RBN as guest OS hostname	Answer RBN DNS hostname IPv4
Disabled	⧉ Disabled	⧉ Enabled

▼ **Host and placement group** Info

Host ID	Affinity	Placement group
–	–	–
Host resource group name	Tenancy	Placement group ID
–	⧉ default	–
Virtualization type	Reservation	Partition number
⧉ hvm	⧉ r-04595c3665f9ad65e	–
Number of vCPUs		
1		

▼ **Capacity reservation** Info

Capacity Reservation ID	Capacity Reservation setting
–	open

3.6.201.118

[Actions ▼]   [**Associate Elastic IP address**]

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
🗗 3.6.201.118	🗗 Public IP	🗗 eipalloc-01161f13694cc458b	–
Association ID	Scope	Associated instance ID	Private IP address
🗗 eipassoc-0ce2ded2de618baf2	🗗 VPC	i-0052a312dc8a2cc92	🗗 172.31.34.21
Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID
eni-0a78df934a4b02ae2	🗗 074470150406	🗗 ec2-3-6-201-118.ap-south-1.compute.amazonaws.com	–
Address pool	Network Border Group		
🗗 Amazon	🗗 ap-south-1		

2. installed apache2 :

```
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Sat 2023-09-09 09:22:45 UTC; 2min 58s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 344 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 437 (apache2)
      Tasks: 9 (limit: 1121)
     Memory: 88.6M
        CPU: 1.540s
     CGroup: /system.slice/apache2.service
             ├─ 437 /usr/sbin/apache2 -k start
             ├─ 492 /usr/sbin/apache2 -k start
             ├─ 499 /usr/sbin/apache2 -k start
             ├─ 500 /usr/sbin/apache2 -k start
             ├─ 501 /usr/sbin/apache2 -k start
             ├─ 502 /usr/sbin/apache2 -k start
             ├─1265 /usr/sbin/apache2 -k start
             ├─1267 /usr/sbin/apache2 -k start
             └─1268 /usr/sbin/apache2 -k start

Sep 09 09:22:44 ip-172-31-34-21 systemd[1]: Starting The Apache HTTP Server...
Sep 09 09:22:45 ip-172-31-34-21 systemd[1]: Started The Apache HTTP Server.
```
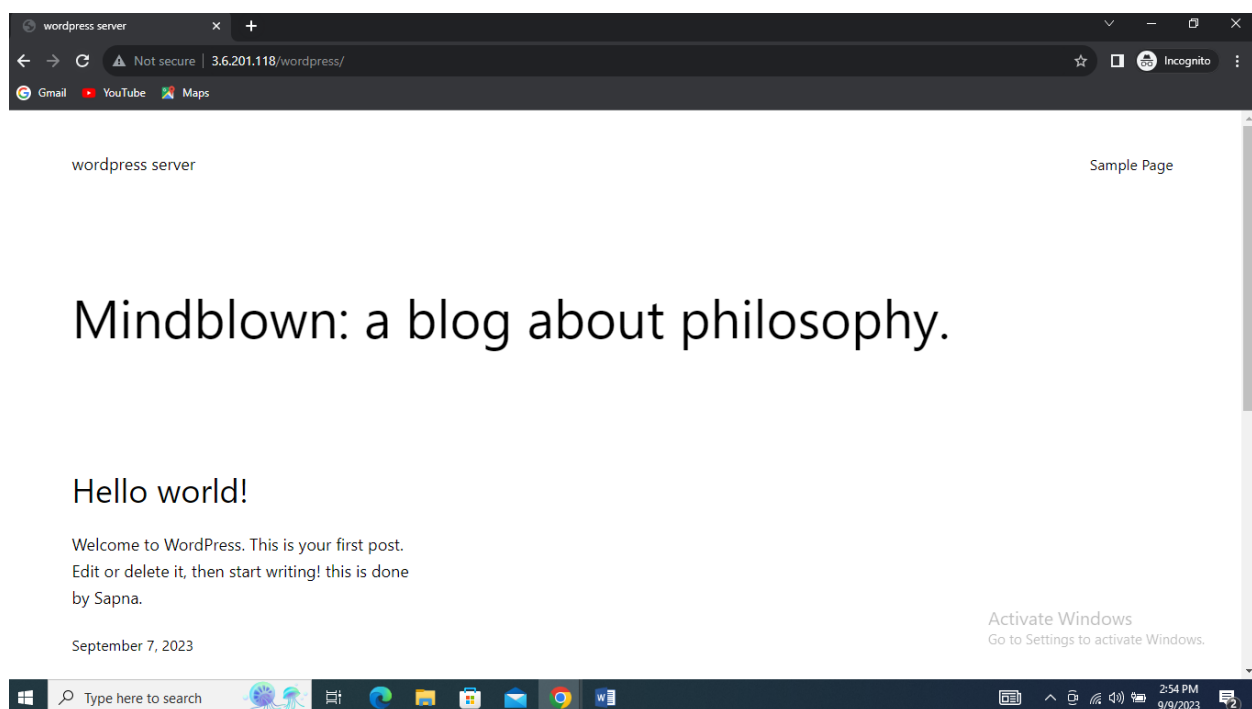
3. installed mysql:


```
ubuntu@ip-172-31-34-21:~$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
     Active: active (running) since Sat 2023-09-09 09:22:50 UTC; 3min 43s ago
    Process: 372 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
   Main PID: 497 (mysqld)
     Status: "Server is operational"
      Tasks: 39 (limit: 1121)
     Memory: 423.2M
        CPU: 1.921s
     CGroup: /system.slice/mysql.service
             └─497 /usr/sbin/mysqld

Sep 09 09:22:45 ip-172-31-34-21 systemd[1]: Starting MySQL Community Server...
Sep 09 09:22:50 ip-172-31-34-21 systemd[1]: Started MySQL Community Server.
ubuntu@ip-172-31-34-21:~$
```
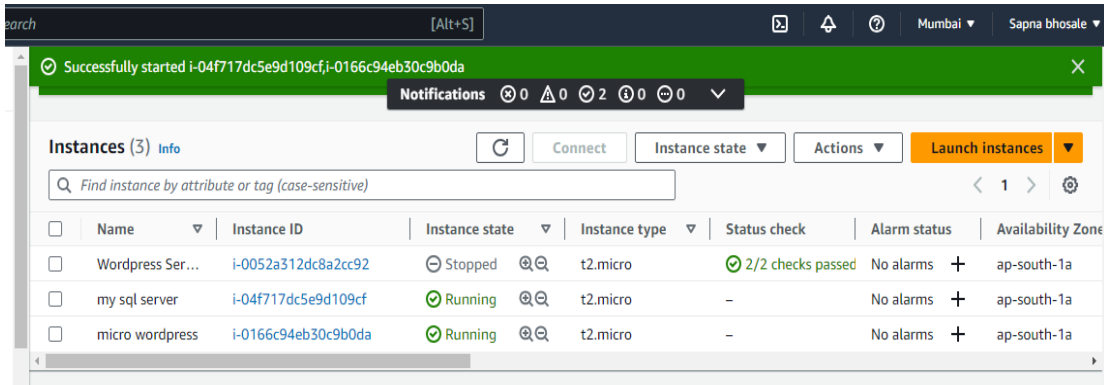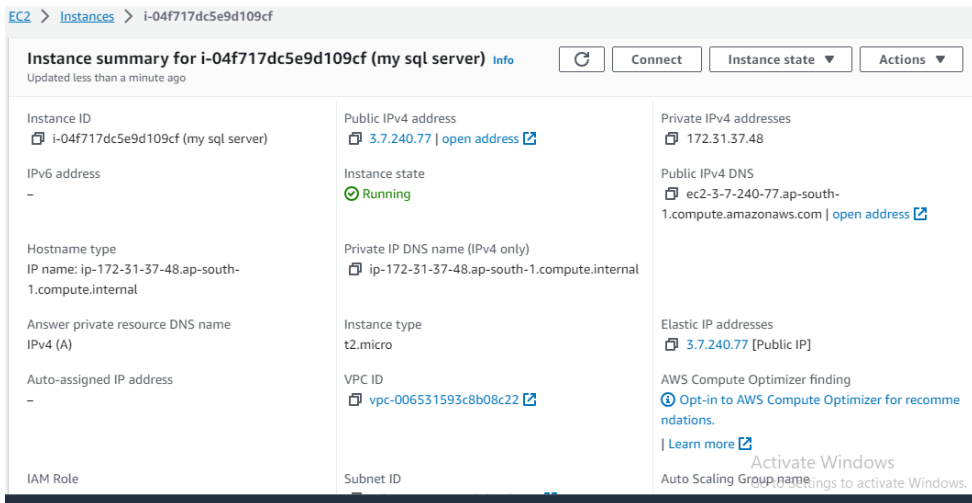
4. Deployed website on wordpress:

wordpress server   Sample Page

Mindblown: a blog about philosophy.

Hello world!

Welcome to WordPress. This is your first post.
Edit or delete it, then start writing! this is done
by Sapna.

September 7, 2023

Task 2:

Microservice EC2 instance deploy WordPress and MYSQL on the diff instance:

1. Created 2 ec2 ubuntu instances:

2. Instance details:

3. Instance details:

Instance summary for i-0166c94eb30c9b0da (micro wordpress) Info
Updated less than a minute ago

Instance ID
i-0166c94eb30c9b0da (micro wordpress)

Public IPv4 address
13.232.123.244 | open address

Private IPv4 addresses
172.31.39.179

IPv6 address
–

Instance state
Running

Public IPv4 DNS
ec2-13-232-123-244.ap-south-1.compute.amazonaws.com | open address

Hostname type
IP name: ip-172-31-39-179.ap-south-1.compute.internal

Private IP DNS name (IPv4 only)
ip-172-31-39-179.ap-south-1.compute.internal

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

Auto-assigned IP address
13.232.123.244 [Public IP]

VPC ID
vpc-006531593c8b08c22

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
| Learn more

4. Installed apache 2.

```
Last login: Fri Sep  8 17:53:13 2023 from 13.233.177.5
ubuntu@ip-172-31-39-179:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: e
     Active: active (running) since Sat 2023-09-09 09:31:15 UTC; 8min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 486 (apache2)
      Tasks: 6 (limit: 1141)
     Memory: 35.9M
        CPU: 133ms
     CGroup: /system.slice/apache2.service
             ├─486 /usr/sbin/apache2 -k start
             ├─560 /usr/sbin/apache2 -k start
             ├─570 /usr/sbin/apache2 -k start
             ├─571 /usr/sbin/apache2 -k start
             ├─572 /usr/sbin/apache2 -k start
             └─573 /usr/sbin/apache2 -k start

Sep 09 09:31:14 ip-172-31-39-179 systemd[1]: Starting The Apache HTTP Server...
Sep 09 09:31:15 ip-172-31-39-179 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-172-31-39-179:~$
```

5. Installed mysql server

```
ubuntu@ip-172-31-37-48:~$ systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
     Active: active (running) since Sat 2023-09-09 09:31:15 UTC; 9min ago
   Main PID: 541 (mysqld)
     Status: "Server is operational"
      Tasks: 37 (limit: 1141)
     Memory: 353.6M
        CPU: 3.433s
     CGroup: /system.slice/mysql.service
             └─541 /usr/sbin/mysqld

Sep 09 09:31:10 ip-172-31-37-48 systemd[1]: Starting MySQL Community Server...
Sep 09 09:31:15 ip-172-31-37-48 systemd[1]: Started MySQL Community Server.
ubuntu@ip-172-31-37-48:~$
```