

## Cloud (AWS) - Task 1

**Topic:** Deploy application in monolithic and microservices architecture.

**Task 1:** For monolith: 1 EC2 instance, deploy WordPress and MYSQL on the same instances

- Configure the necessary security group for the instances
- EC2 instance type: t2-micro, AMI: ubuntu.

**Task 2:** For microservices: 2 EC2 instances, 1 for WordPress and EC2 instances, 1 for MYSQL.

**Task 1:** For monolith: 1 EC2 instance, deploy WordPress and MYSQL on the same instances.

- ➔ On the monolithic EC2 instance, install and configure WordPress and MySQL. Make sure they are running on the same instance.
- ➔ CREATE A SINGLE EC2 INSTANCE
- ➔ INSTALL APACHE , .PHP AND MYSQL.
- ➔ COMMANDS:-

```
sudo apt update
```

```
sudo apt install apache2
```

```
sudo systemctl start apache2
```

```
sudo apt-get install software-properties-common -y
```

```
sudo apt-get install php libapache2-mod-php php-mysql php-curl
```

```
phpgd php-json php-zip
```

```
sudo wget https://wordpress.org/latest.tar.gz
sudo tar -xvzf latest.tar.gz
sudo cp wp-config-sample.php wp-config.php
sudo chown -R www-data:www-data /var/www/WordPress
sudo cd /var/www/wordpress
sudo vim wp-config.php
```

```
sudo a2ensite wordpress.conf
sudo a2enmod rewrite
sudo apache2ctl configtest
sudo service apache2 restart
```

```
sudo apt update
sudo apt install mysql-server
sudo systemctl status mysql
sudo mysql
ALTER USER 'root'@'localhost' IDENTIFIED WITH
mysql_native_password BY '-----';
```

```
CREATE DATABASE mysql_test;
```

```
USE mysql_test;
```

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

```
INSERT INTO table1 VALUES(1, '-----');
```

```
SELECT * FROM table1;
```

WhatsApp | Instances | EC2 | ap-south-1 | Submission of Week1 Task Clou | vs631322/-infotris-

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instancescv=3:\$case=tag:true%5Cclient:false;\$regex=tags:false%5Cclient:false;sort=tag:Name

Services Search [Alt+S]

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### Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Monolithic Ins...	i-0e3ab1458cd2bea3a	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-35-130
MySQL Instance	i-09791bdc066f3cc77	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-234-232-
Wordpress Ins...	i-0a497835946f0fd2f	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-69-145

#### Instance: i-0e3ab1458cd2bea3a (Monolithic Instance)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID i-0e3ab1458cd2bea3a (Monolithic Instance)	Public IPv4 address 65.2.35.130 <a href="#">open address</a>	Private IPv4 addresses 172.31.14.124
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-65-2-35-130.ap-south-1.compute.amazonaws.com

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33°C Smoke

WhatsApp | Connect to instance | EC2 | ap-south-1 | Plugins - Wordpress - WordP | Submission of Week1 Task Clou | vs631322/-infotris-

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:InstanceId=i-0e3ab1458cd2bea3a

Services Search [Alt+S]

### Connect to instance Info

Connect to your instance i-0e3ab1458cd2bea3a (Monolithic Instance) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID  
i-0e3ab1458cd2bea3a (Monolithic Instance)

Connection Type

☒ Connect using EC2 Instance Connect  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ Connect using EC2 Instance Connect Endpoint  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address  
65.2.35.130

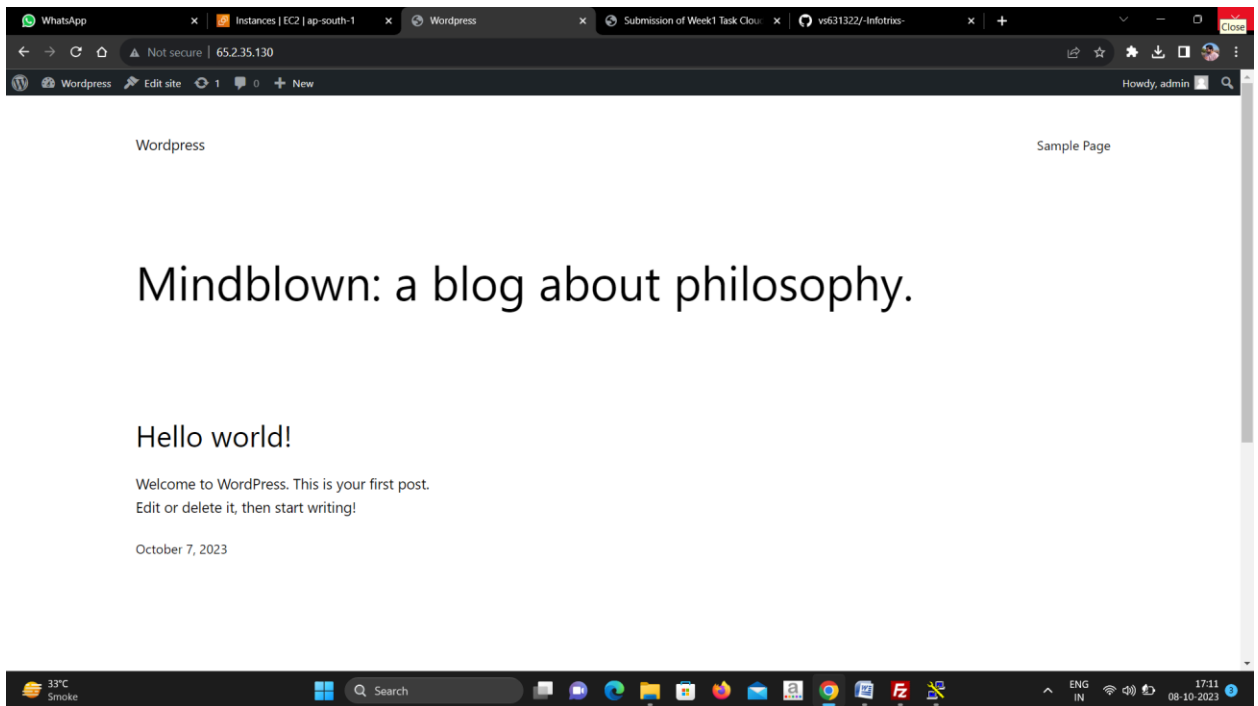
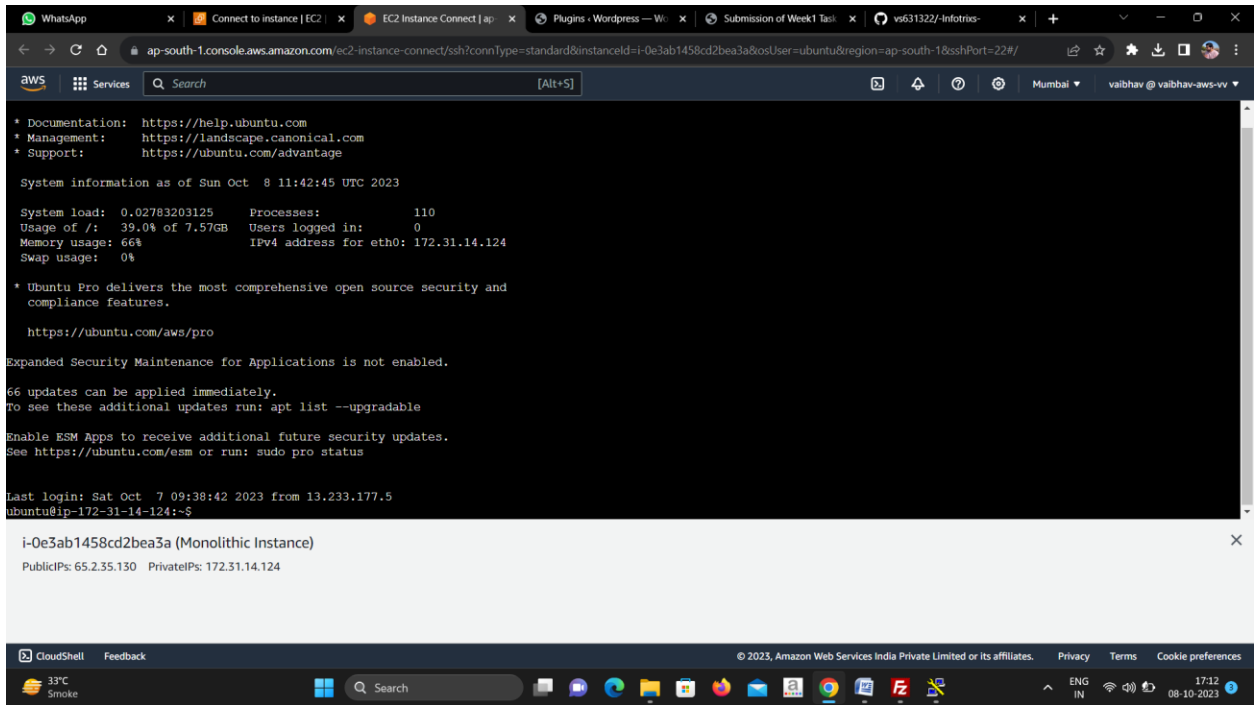
User name  
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.  
ubuntu

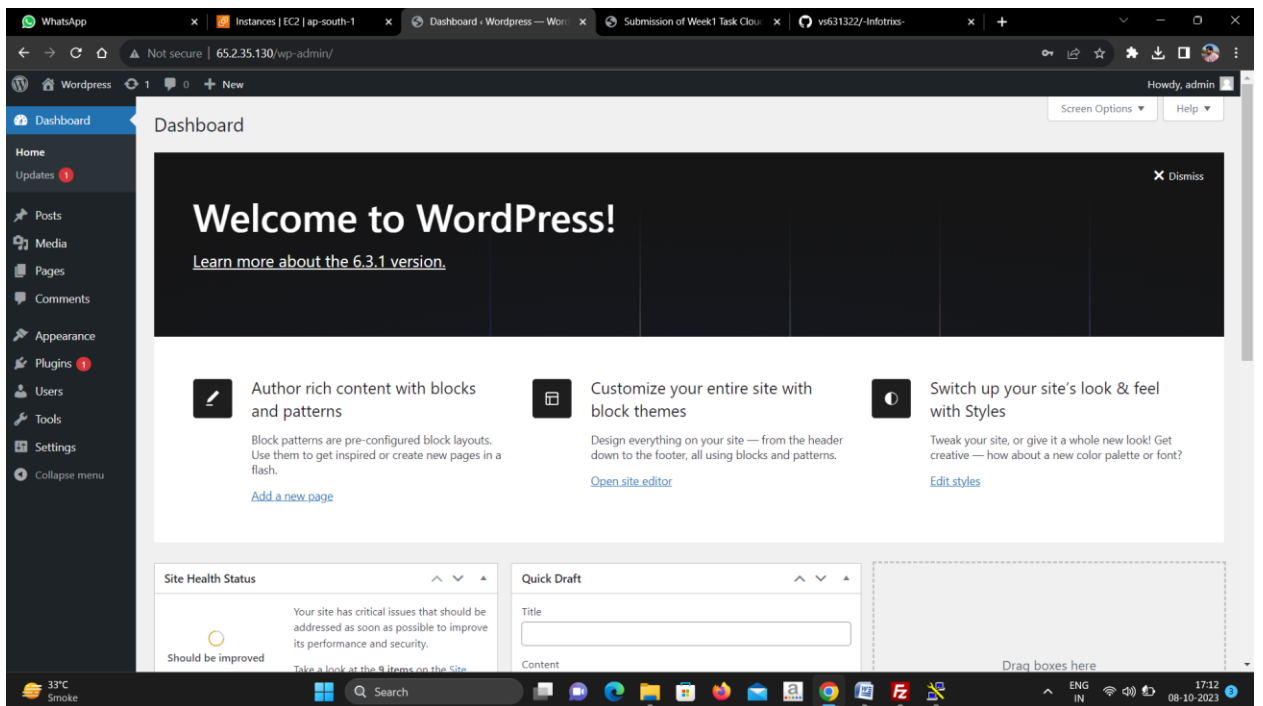
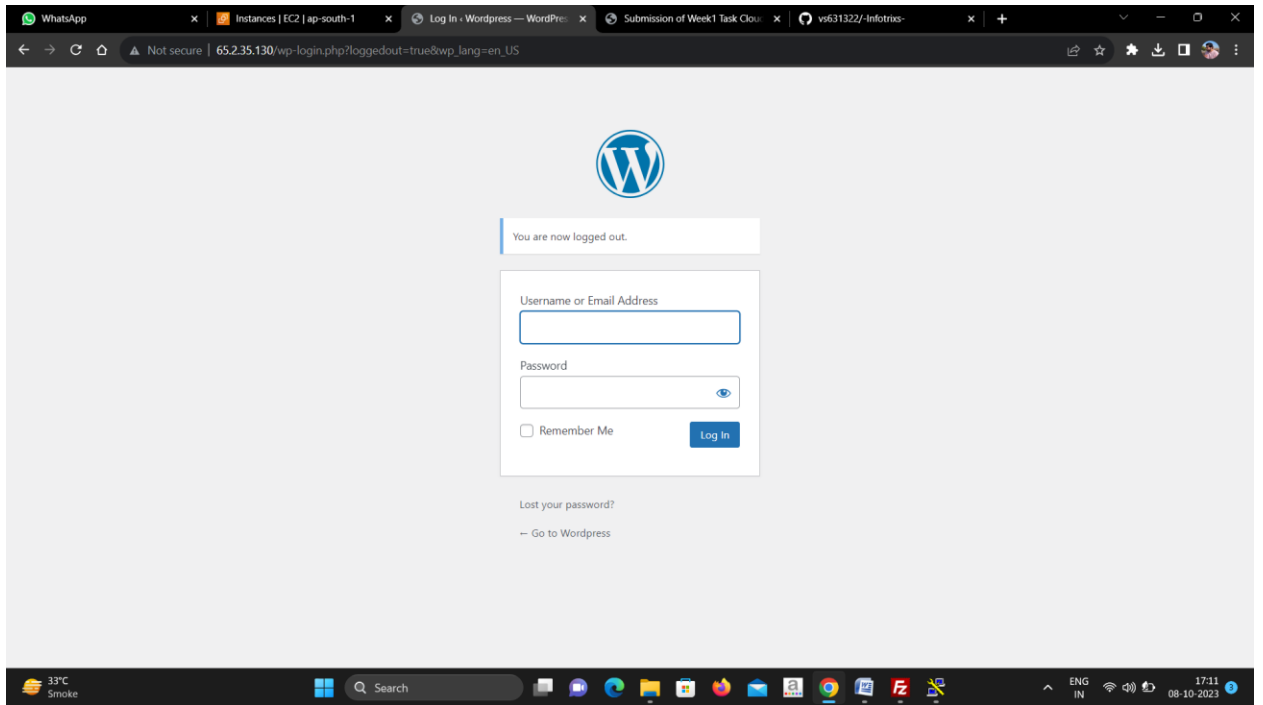
**Note:** In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect

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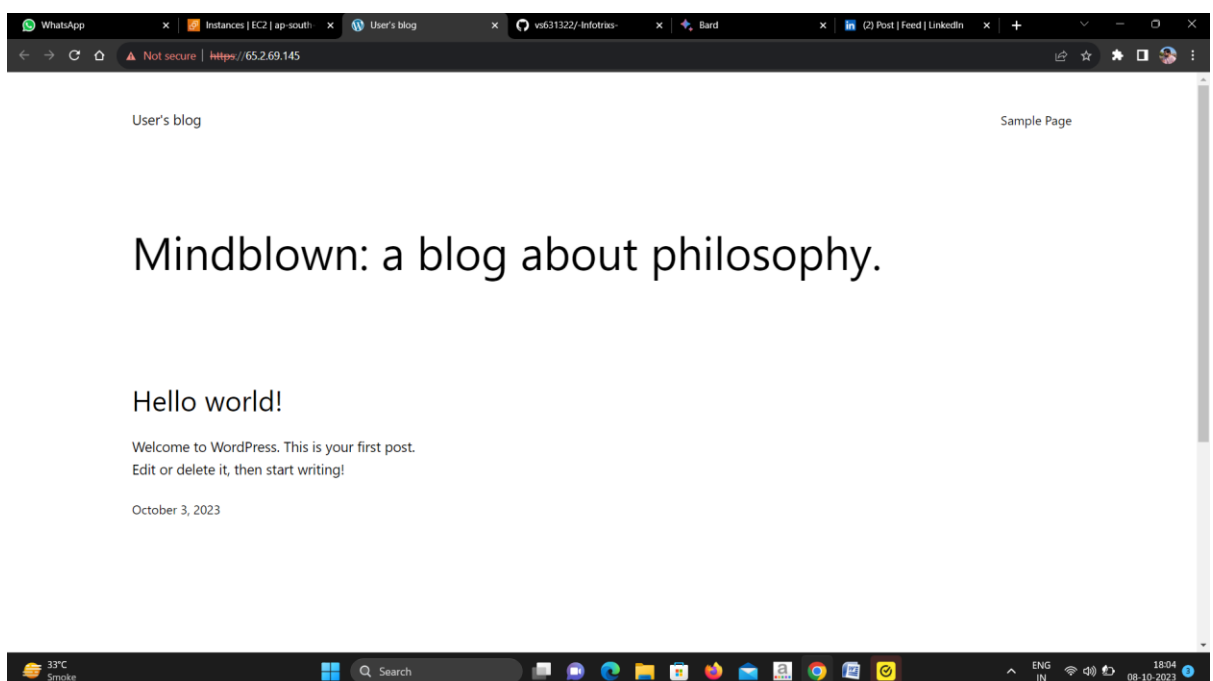
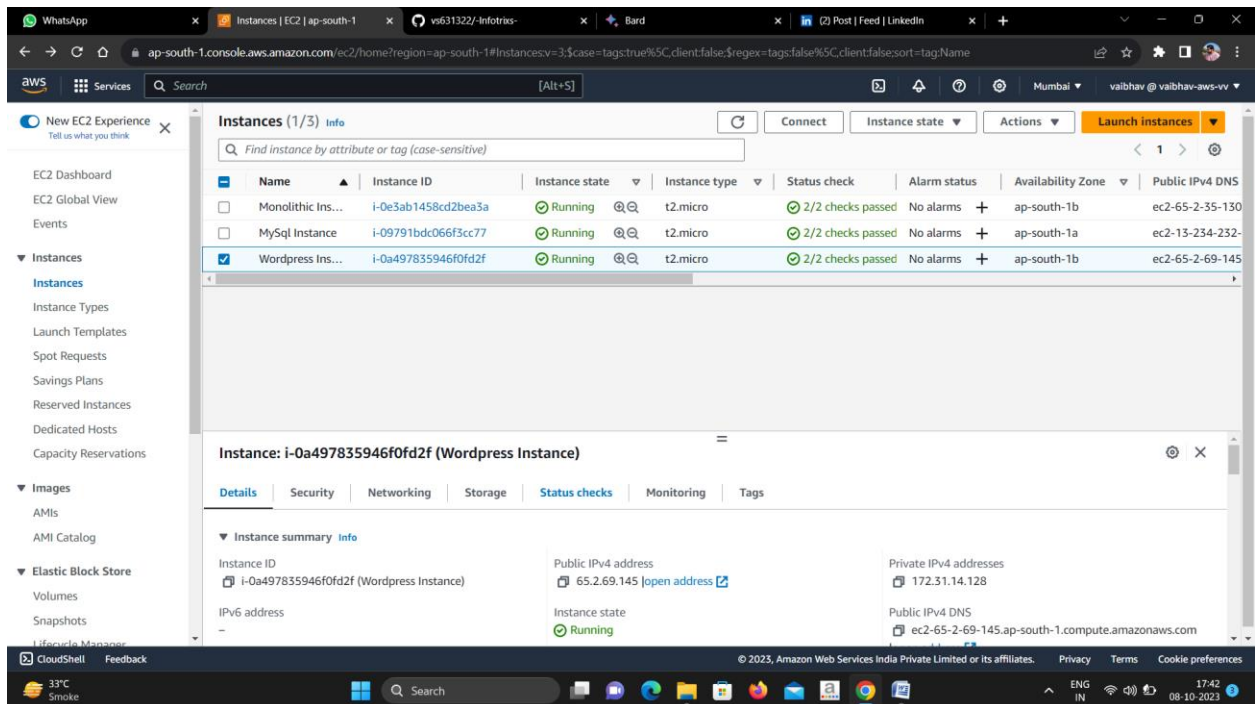
33°C Smoke

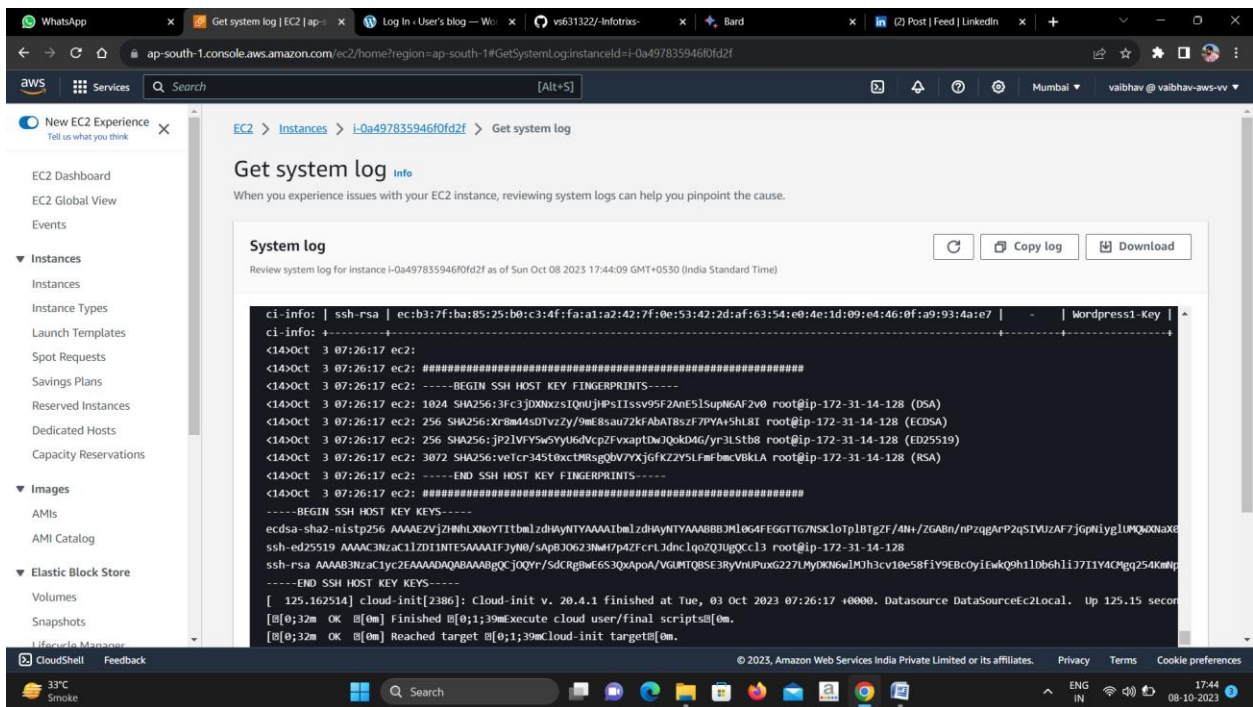
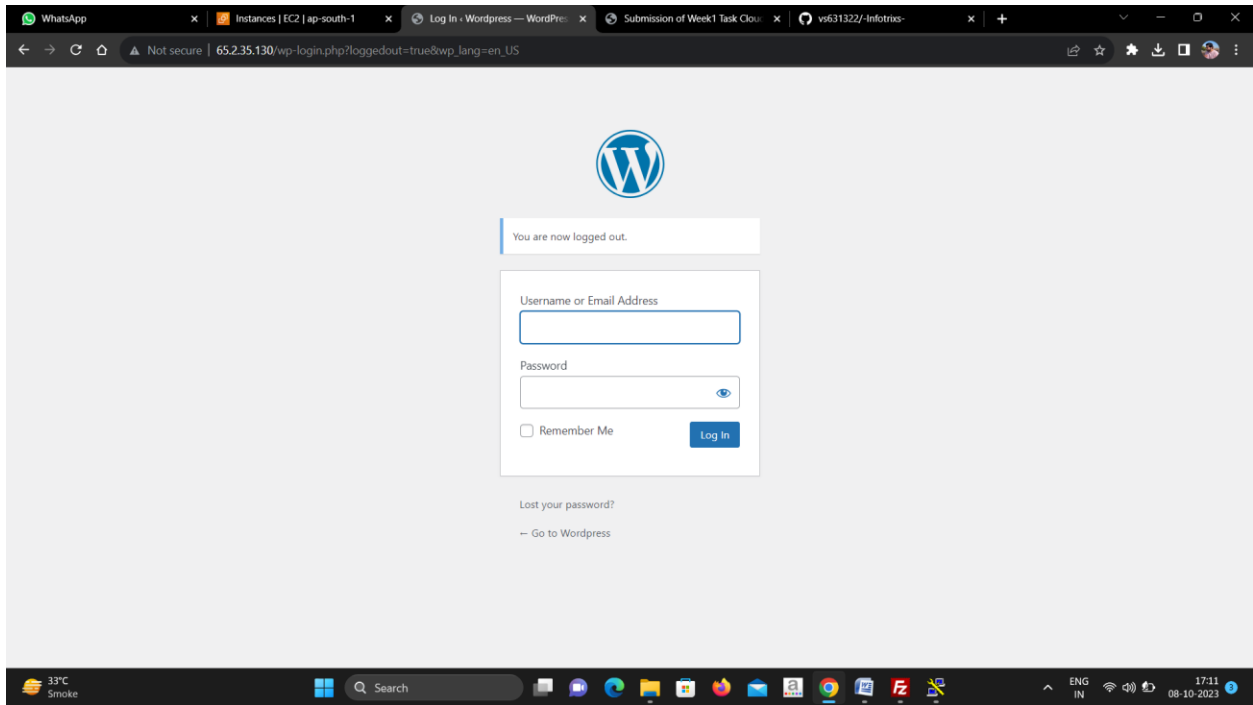




**Task 2:** For microservices: 2 EC2 instances, 1 for WordPress and EC2 instances, 1 for MYSQL.

➔ CREATE EC2 INSTANCE FOR WORDPRESS









## ➔ CREATE EC2 INSTANCE FOR MYSQL

The screenshot shows the AWS Management Console with the 'Instances' page selected. A table lists three instances: 'Monolithic Ins...', 'MySQL Instance' (selected), and 'Wordpress Ins...'. The 'MySQL Instance' is in a 'Running' state. Below the table, the 'Instance: i-09791bdc066f3cc77 (MySQL Instance)' details are shown, including its public and private IP addresses and DNS information.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Monolithic Ins...	i-0e3ab1458cd2bea3a	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-35-130
MySQL Instance	i-09791bdc066f3cc77	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-234-232-
Wordpress Ins...	i-0a497835946f0fd2f	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-69-145

**Instance: i-09791bdc066f3cc77 (MySQL Instance)**

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

**Instance summary info**

Instance ID: i-09791bdc066f3cc77 (MySQL Instance)

Public IPv4 address: 13.234.232.79 [open address](#)

Private IPv4 addresses: 172.31.39.131

Instance state: Running

Public IPv4 DNS: ec2-13-234-232-79.ap-south-1.compute.amazonaws.com

The screenshot shows the AWS CloudShell terminal with the following commands and output:

```
mysql> ls
-> SHOW DATABASES;
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 'ls'
mysql> SHOW DATABASES;
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 'SHOW DATABASES'
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| mysql_test |
| performance_schema |
| sys |
+-----+
5 rows in set (0.08 sec)

mysql> mysql test
```

**i-09791bdc066f3cc77 (MySQL Instance)**

PublicIPs: 13.234.232.79 PrivateIPs: 172.31.39.131