# Cloud (AWS) Week 1 Task

# **Deploy Application in monolithic and Microservices Architecture**

## \*Description:

Task 1: For Microservices: 2 EC2 instances, 1 for Wordpress, 1 for MYSQL.

Task 2: For Monolithic: 1 EC2 instance, deploy Wordpress and MYSQL on the same instance.

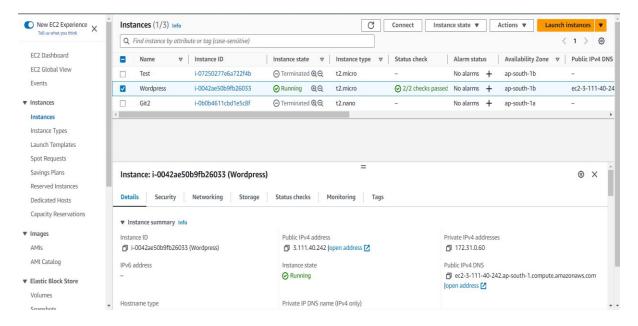
- -Configure the necessary security group for the instances
- -EC2 instance type:t2 micro, AMI-Ubuntu-\*

## Task 1

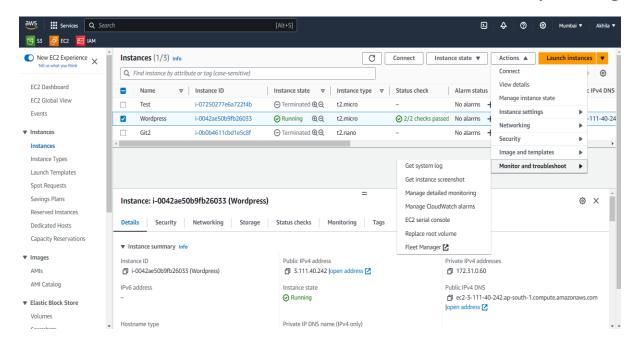
For Microservices: 2 EC2 instances, 1 for Wordpress and 1 for MYSQL

i) 1 EC2 instance for WordPress

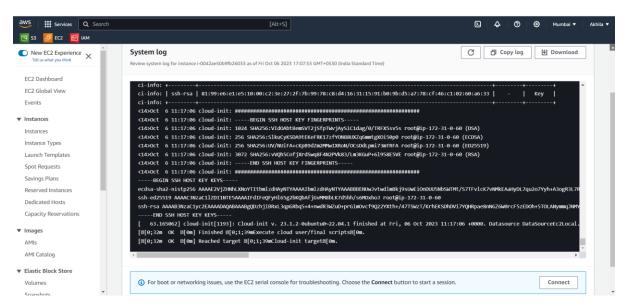
# Create a wordpress instance



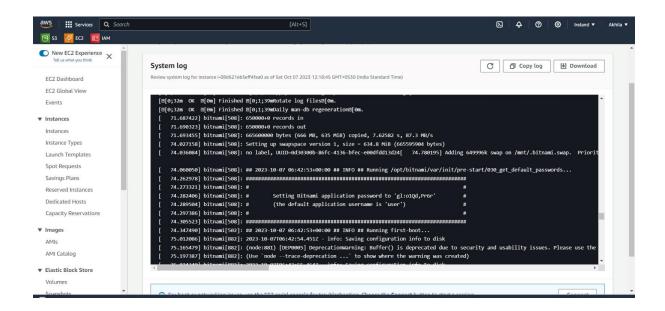
## Click actions and Monitor troubleshoot and access Get the system log



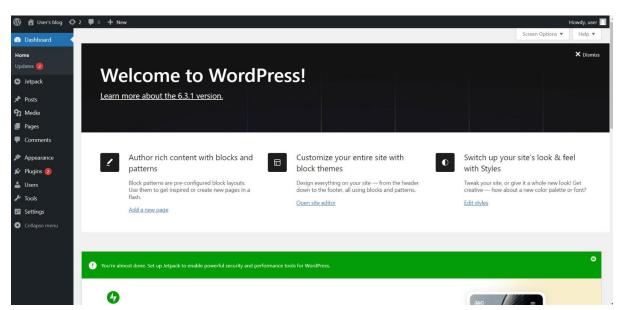
# **Get System Log**

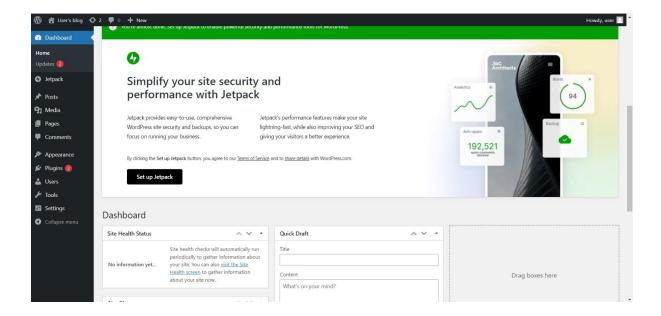


# Click the password for Wordpress Login

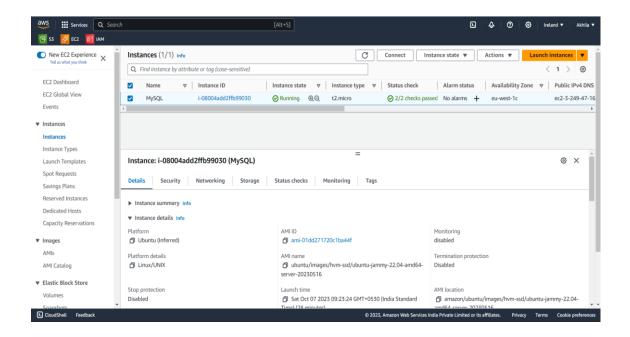


# **Dashboard Showing in WordPress**





## ii) 1 EC2 instance for MYSQL



## **Create a MYSQL Server instance Launch**

sudo apt update

sudo apt install mysql-server

sudo systemctl status mysql

sudo mysql

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Anusha\$29';

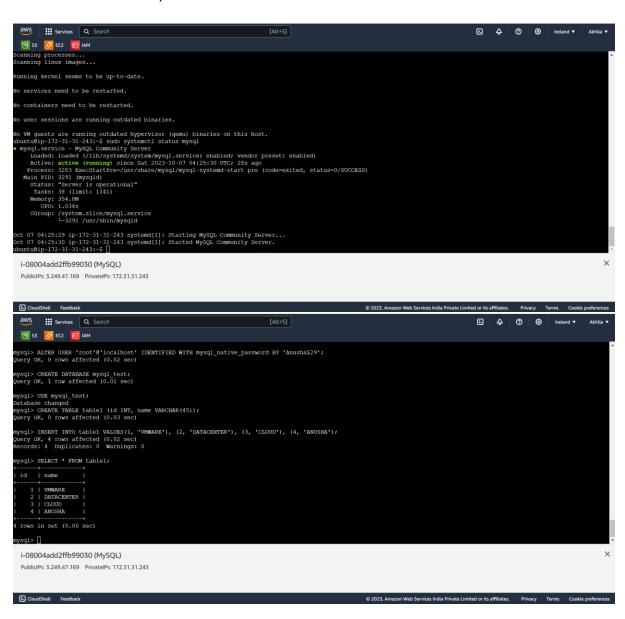
CREATE DATABASE mysql\_test;

USE mysql\_test;

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

INSERT INTO table1 VALUES(1, 'VMWARE'), (2, 'DATACENTER'), (3, 'CLOUD'), (4, 'ANUSHA');

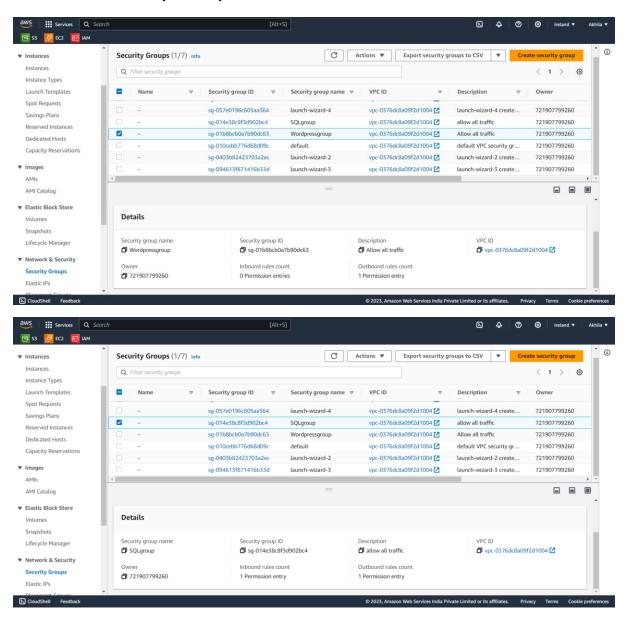
SELECT \* FROM table1;



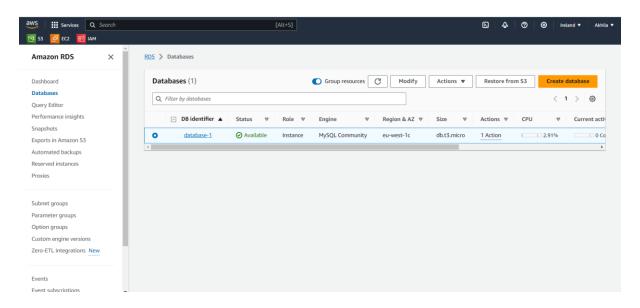
#### Task 2

## For Monolith: 1 EC2 instance, deploy WordPress and MYSQL on the same instances

# **Create 2 Security Groups**



## Create RDS



## 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 php-gd php-json

php-zip

sudo wget <a href="https://wordpress.org/latest.tar.gz">https://wordpress.org/latest.tar.gz</a>

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

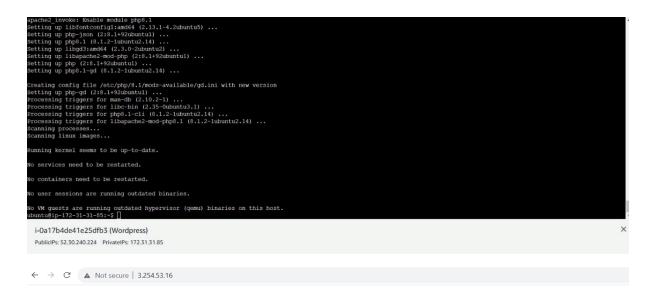
sudo vim wp-config.php

sudo a2ensite wordpress.conf

sudo a2enmod rewrite

sudo apache2ctl configtest

sudo service apache2 restart



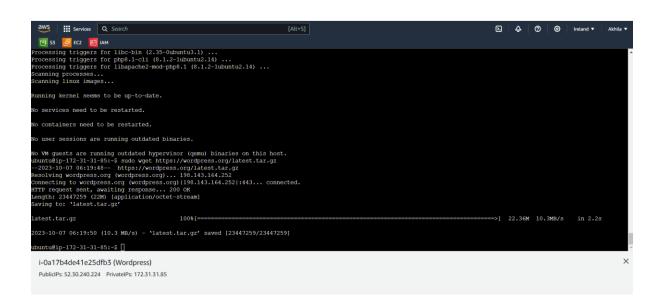
User's blog

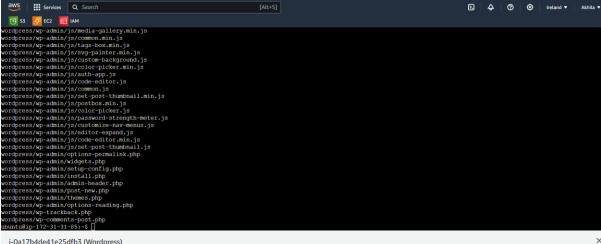
# Mindblown: a blog about philosophy.

#### Hello world!

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

October 7, 2023





i-Oa17b4de41e25dfb3 (Wordpress)
PublicIPs: 52.30.240.224 PrivateIPs: 172.31.31.85



# **Apache2 Default Page**



It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

## **Configuration Overview**

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
```

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