Cloud (AWS) Week 1 Task

Deploy application in monolithic and microservices architecture

Description:

Task 1: For microservices: 2 EC2 instances, 1 for WordPress and EC2 instances, 1 for MYSOL

Task 2: For monolith: 1 EC2 instance, deploy WordPress and MYSQL on the same instances

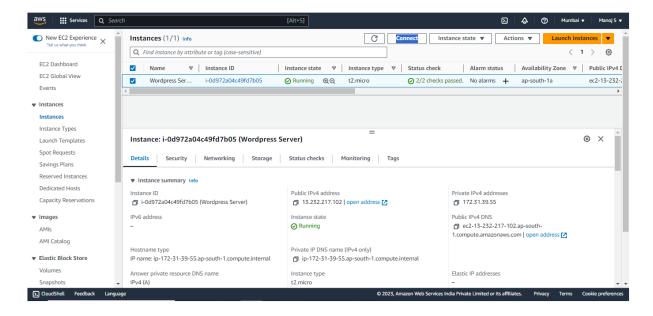
- Configure the necessary security group for the instances
- EC2 instance type: t2-micro, AMI: ubuntu-*

Task 1

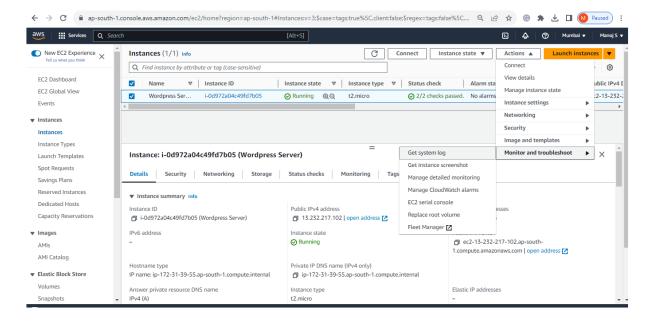
1) For Microservice: 2 EC2 instances, 1 for WordPress and 1 for MYSQL

i. <u>1 EC2 instance for WordPress</u>

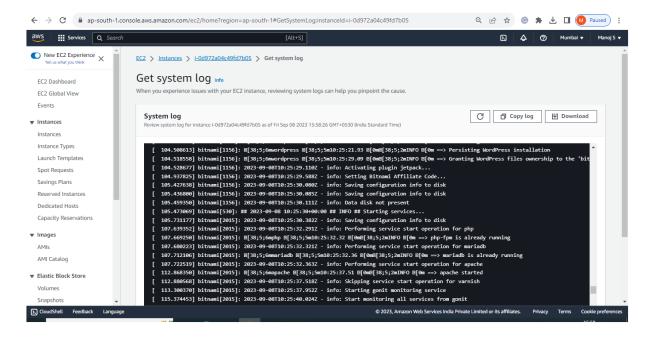
Create a WordPress instance Launch



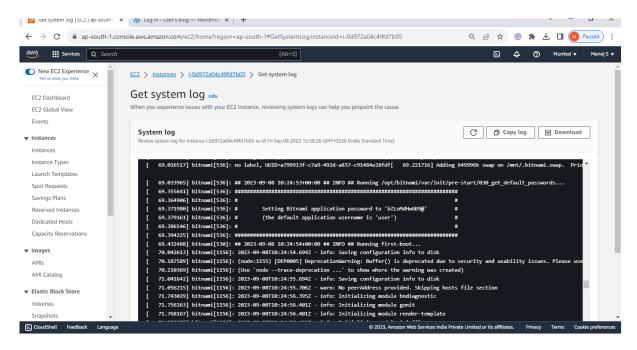
Click actions and monitor troubleshoot and access Get the system log



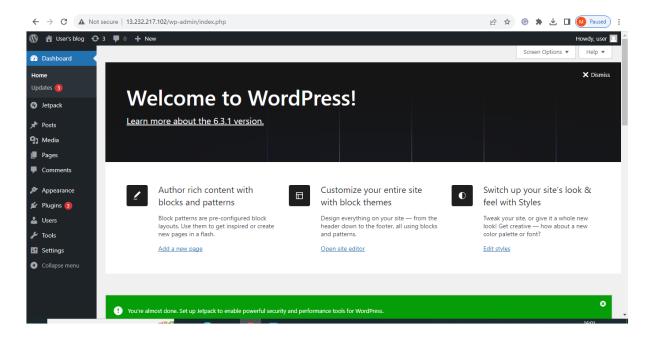
Get system log

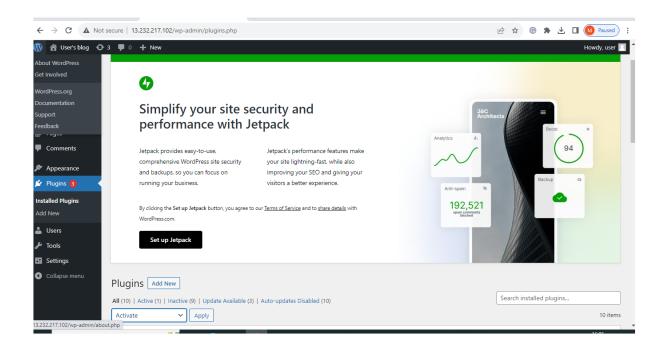


Check the password for the WordPress login



Dashboard showing in WordPress





ii. <u>1 EC2 instance for MYSQL</u>

Create a MYSQL Server instance Launch

Command:

Sudo apt update

Sudo apt install mysql-server

Sudo systemctl status mysql

sudo mysql

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Manoj@12';

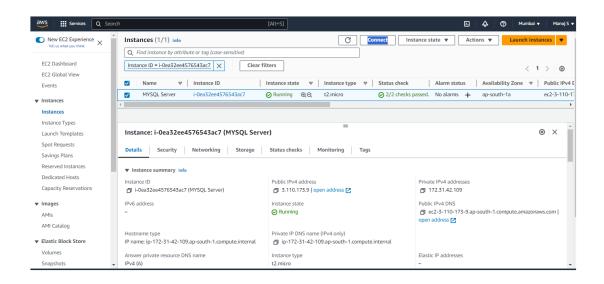
CREATE DATABASE mysql_test;

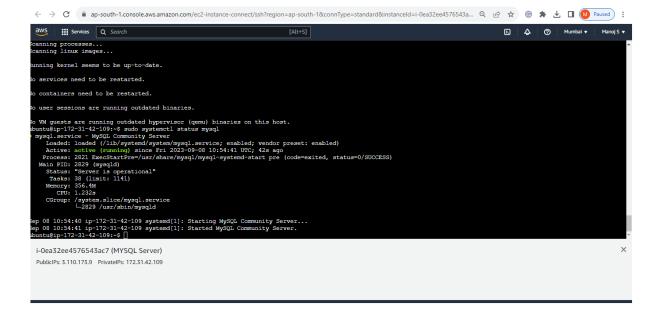
USE mysql_test;

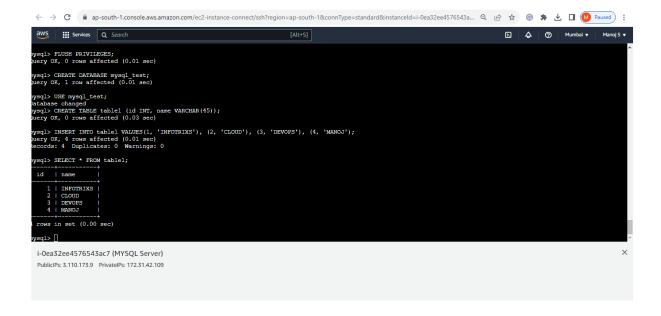
CREATE TABLE table 1 (id INT, name VARCHAR(45));

INSERT INTO table 1 VALUES(1, 'INFOTRIXS'), (2, 'CLOUD'), (3, 'DEVOPS'), (4, 'MANOJ');

SELECT * FROM table1;



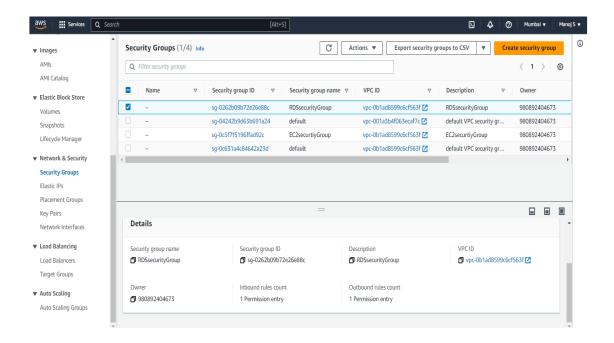




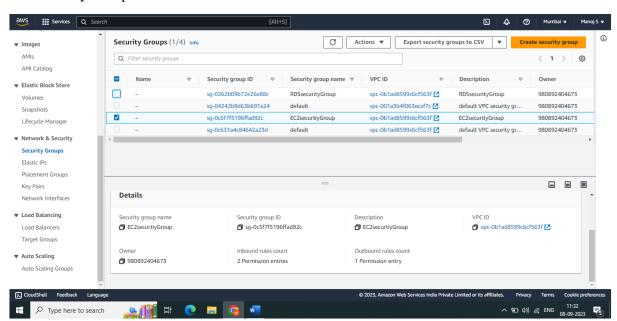
2) For Monolith: 1 EC2 instance, deploy wordpress and MYSQL on the same instances

Create 2 Security Groups

RDS Security Group

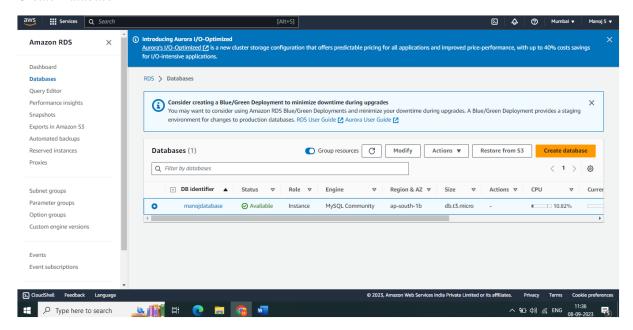


EC2 Security Group



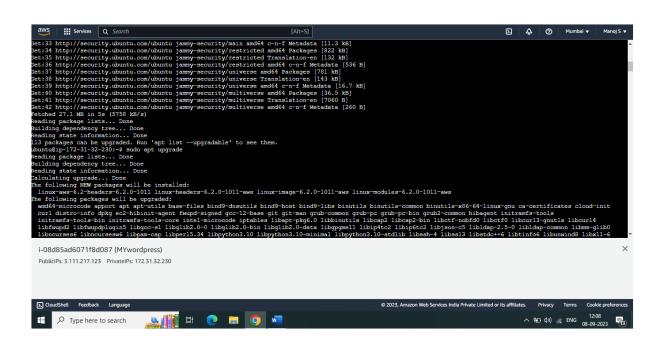
Welcome	
	as five-minute WordPress installation process); just 58 in the information below and to using the most extendates and powerful personal publishing prafform in the exist.
Information ne	eeded
	lowing information, Don't worry, you can always change these settings later.
Side Title Username	
	Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the IR opinion.
Featured	
Report Personnel (required)	
Your Crisil	Double-check your email address before continuing.
Search origine visibility	Discourage search engines from indexing this site If is up to search engines to honor this request.
need Notiffeen	

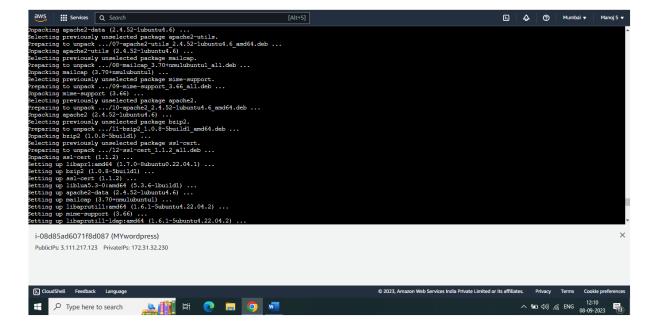
Create Database

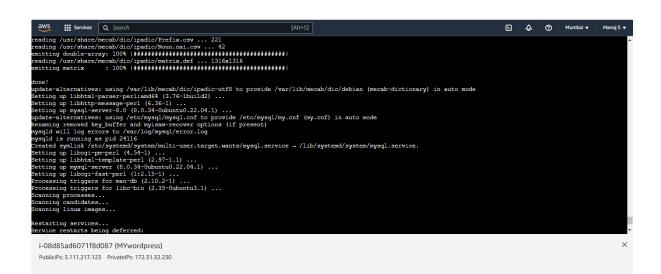


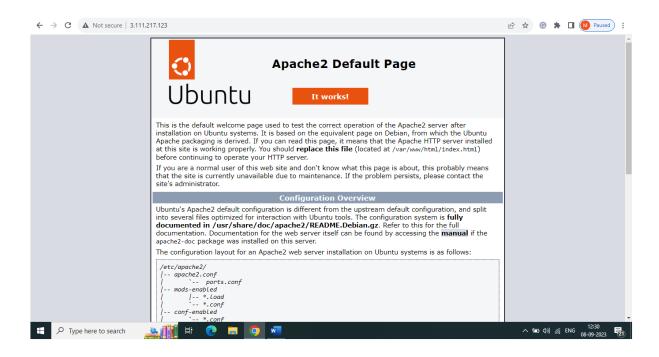
Commands:

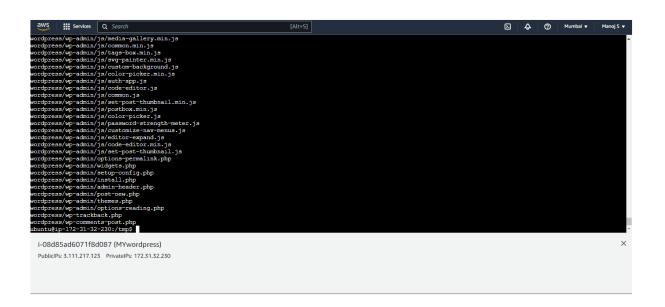
```
sudo apt update
sudo apt install apache2
sudo systemctl start apache2
sudo apt-get install software-properties-common -y
sudo apt-get install php libapache2-mod-php php-mysql php-curl php-gd php-json php-zip
sudo wget https://wordpress.org/latest.tar.gz
sudo tar -xvzf latest.tar.gz
sudo cp wp-config-sample.php 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
```











```
wordpress/wp—admin/widgets.php
wordpress/wp—admin/setup—config.php
 wordpress/wp-admin/install.php
 wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
 wordpress/wp-admin/options-reading.php
 wordpress/wp-trackback.php
 wordpress/wp-comments-post.php
ubuntugip−172−31−47−61:/var/w
total 18300
                                                    S 11
                                               4896 Mar 18 14:19 /

4896 Mar 18 14:15 /

4896 Mar 18 14:15 html/

18722684 Mar 11 88:48 latest.ter.ge

4896 Mar 11 88:39 wordpress/
drwxr-xr-x 4 root
drwxr-xr-x 14 root
drwxr-xr-x 4 root root
drwxr-xr-x 14 root root
drwxr-xr-x 2 root root
-rw-r--r- 1 root root
drwxr-xr-x 5 nobody nogroup
ubuntu@ip-172-31-47-61:/wx/s
                                   root
                                                 S cd wordpress/
 ubuntu@ip-172-31-47-61:/
index.php
                           wp-blog-header.php
                                                                                                   wp-settings.php
                            wp-comments-post.php wp-links-opml.php wp-signup.php wp-config-sample.php wp-login.php wp-trackback.gram-content wp-login.php wp-mail.php wp-mail.php
license.txt
readme.html
                                                                                                  wp-trackback.php
 wp-activate.php
       wp-cron.php
tuPip-172-31-47-61://www
```

