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 MYSQL.

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

-Configure the necessarysecurity group for the instances

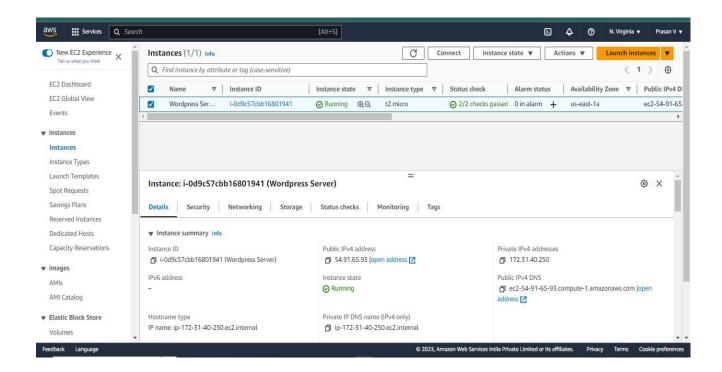
-EC2 instance type:t2 micro,AMI-Ubuntu-*

Task 1

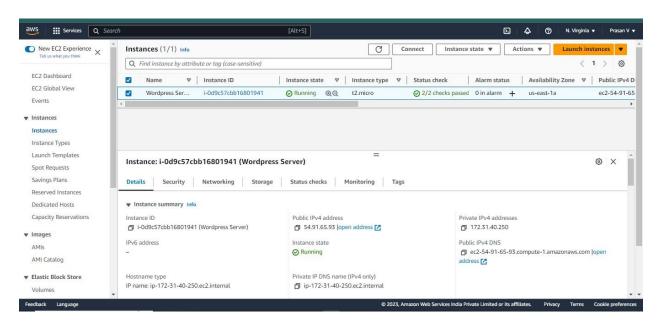
For Microservices: 2 EC2 instances, 1 for Wordpress and 1 EC2 instances, 1 for MYSQL.

a) 1 EC2 instance for Wordpress

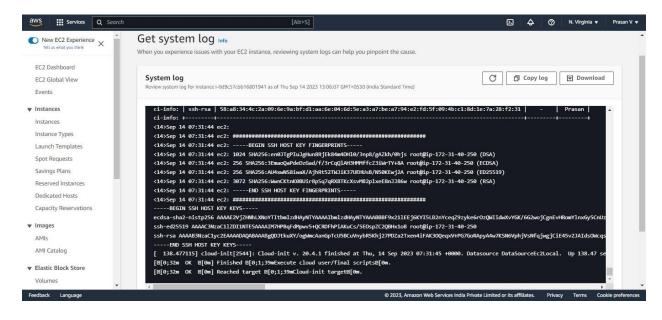
Create a Wordpress instance launch



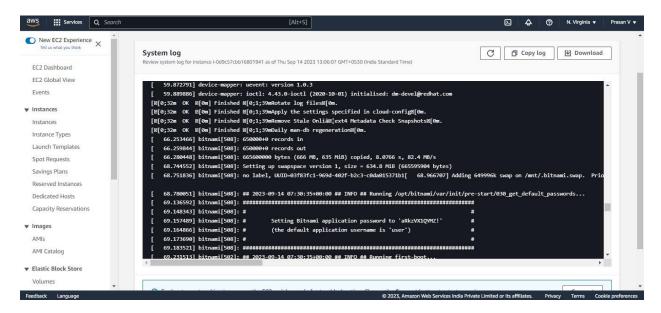
Click actions and Monitor troubleshoot and access Get the system log



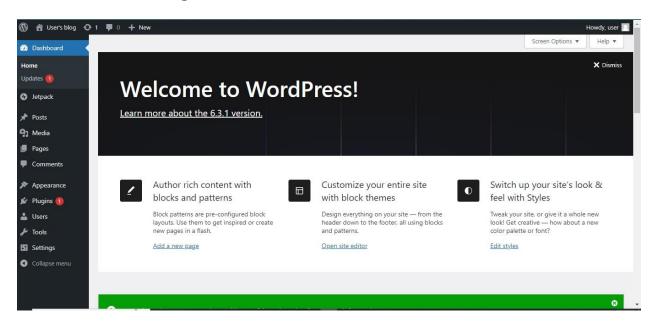
Get System Log

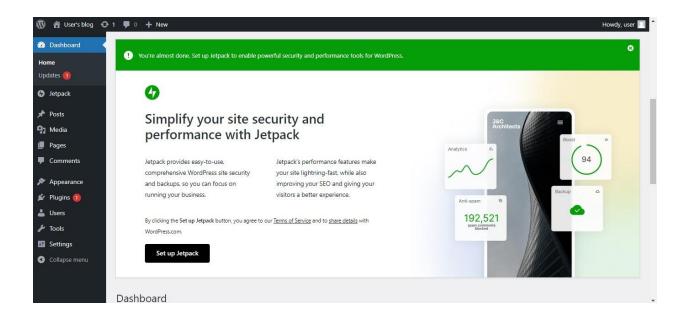


Click the password for Wordpress Login



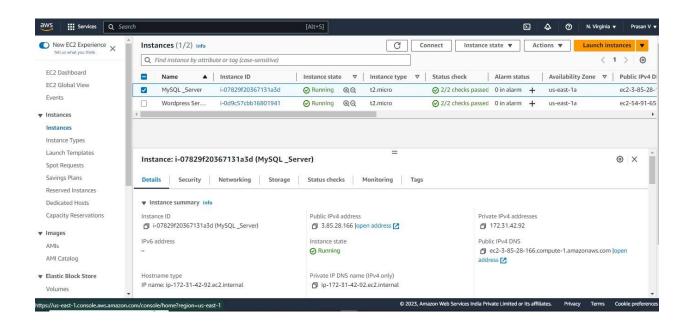
Dashboard Showing in WordPress

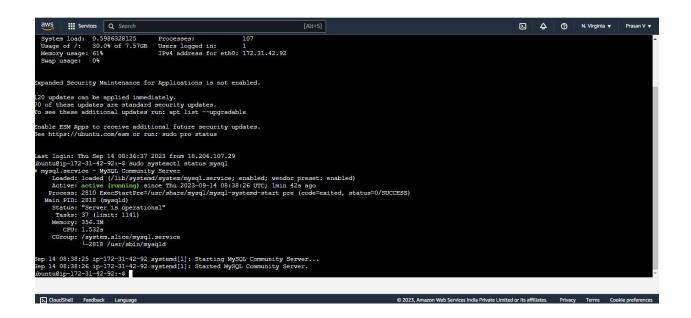




b) 1 EC2 Instance for MYSQL

```
Create a MYSQL Server instance Launch
Command:
sudo apt update
sudo apt install mysql-server
sudo systemctl status mysql
sudo mysq
ALTER USER 'root'@'localhost' IDENTIFIED WITH
mysql native password B Y 'Prasan@12';
CREATE DATABASE mysql_test;
USE mysql test;
CREATE TABLE table1 (id INT, name VARCHAR(45));
INSERT INTO table 1 VALUES (1, 'INFOTRIX'), (2,'CLOUD'),
(3,'DEVOPS'), (4,'PRASAN');
SELECT *FROM table1;
```





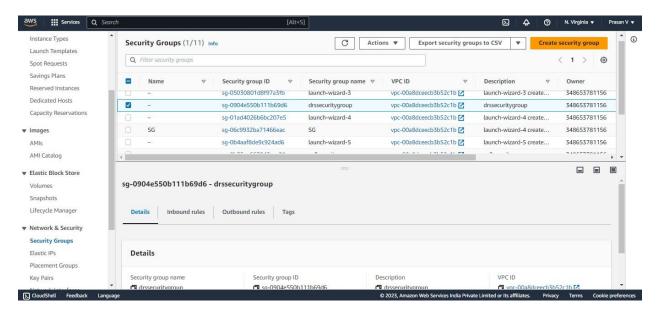
```
CREATE DATABASE mysel_test;
ERROR 1064 (42000): You have an error in your SOL syntax; check the manual that corresponds to your MySOL server version for the right syntax to use near 'CREATE DATABASE mysel_test' at line 2 syngals
Emysel_test' at line 2 syngals
SUMMAN (1000): You have an error in your SOL syntax; check the manual that corresponds to your MySOL server version for the right syntax to use near 'CREATE DATABASE mysel_test'
DATABASE mys
```

Task -2

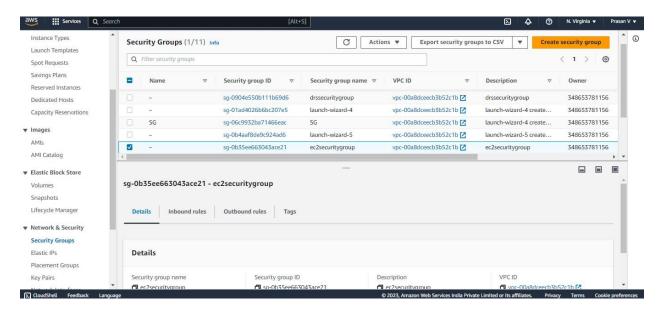
2) For Monolithic: 1 EC2 instances, deploy wordpress and MYSQL, on the same instance.

Create 2 Security Groups

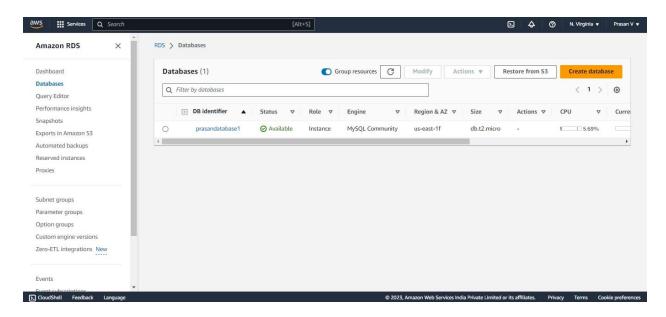
RDS Security Group



For EC2 Security Group

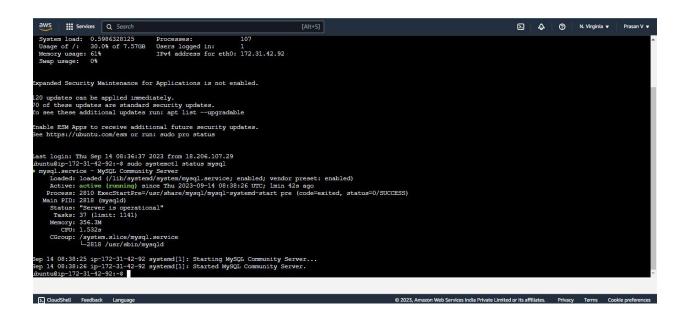


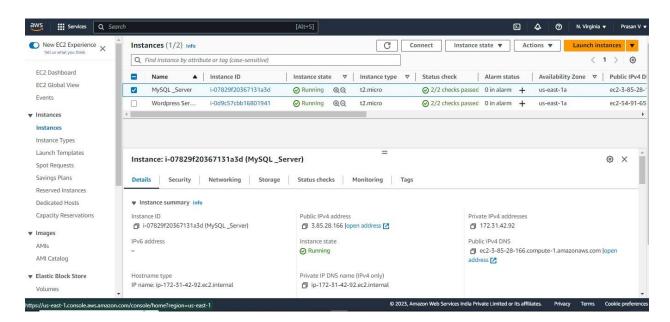
Create RDS



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 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
```





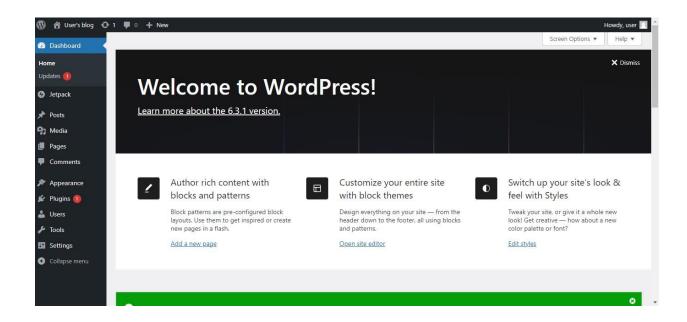






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September 14, 2023



That's all Thanks....