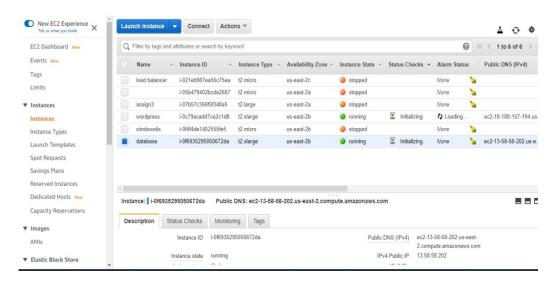
Assignment: 2 Tier Application on AWS

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Task: Launch 1 EC2 Linux instance and configure MySQL/MariadB server on it (use your choice for password and user names). Launch 1 EC2 Linux instance and configure Word press Application server on it; Use previously configured MySQL or MariadB database server for connection with private IP address of instances.

STEPS:

1. Launch Two Ec2 instance with Ubuntu AMI and named them As Shown In Picture i.e. wordpress, database with t2.xlarge as instance Type.



2. Select the first EC2 instance(wordpress) for downloading and installing wordpress application

```
# mode/p-172-31-34-12-

Reading packed lists... Done
Building dependency tree
Reading packed information... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
| Inhapache-2-mod-php/2. 2 listage-new-2-mod-php/4. 1 lispcre3 php/2-cli php/2-common php/2-json php/2-pocache php/2-readline php/3-t-common php/4-json php/4-mysel php/4-dop-php/2 php/2-cli php/2-cli php/2-common php/2-json php/2-pocache php/2-pendence php/2-cli php/2-cli php/2-cli php/2-cli php/2-common php/2-json php/2-pendence php/2-pendence php/2-pendence php/2-cli php/2-cli php/2-cli php/2-common php/2-json php/2-pendence php/2-creadline
The following packages will be uggraded:
| Inhapache-2-mod-php/2-flippcre3 php/2-cli php/2-common php/2-json php/2-spocache php/2-dependence php/2-cli php/2-cli php/2-common php/2-json php/2-spocache php/2-dependence php/2-pendence php/2-cli php/2-cli php/2-common php/2-json php/2-spocache php/2-dependence php/2-cli php/2-cli php/2-common php/2-dependence php/2-cli php/2-cli php/2-common php/2-dependence php/2-cli php/2-cli php/2-common php/2-dependence php/2-dependence php/2-cli php/2-cli php/2-common php/2-dependence php/2-dependence
```

Do the following steps for installing wordpress:

- sudo -i
- yum update -y
- sudo yum install -y httpd
- sudo amazon-linux-extras install -y php7.2
- yum install wget -y
- wget http://repo.mysql.com/mysql-community-release-el6-5.noarch.rpm
- rpm -ivh mysql-community-release-el6-5.noarch.rpm
- yum install mysql-server -y
- yum install php-mysqlnd -y
- cd /var/www/html
- echo "healthy" > healthy.html
- wget https://wordpress.org/latest.tar.gz
- tar -xzf latest.tar.gz
- cp -r wordpress/* /var/www/html/
- rm -rfwordpress
- rm -rf latest.tar.gz
- chmod -R 755 wp-content
- chown -R apache:apachewp-content
- chkconfighttpd on
- service httpd start

Or otherwise You can Put Directly In Step 3 i.e configure instance Details While Launching wordpress Ec2 Instance in user data

3. Use another instance for configuring the database i.e. MySQL

```
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
root&ip-172-31-24-105:-# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \q.
Your MySQL connection id is 11
Server version: 8.0.20-0ubuntu0.20.04.1 (Ubuntu)

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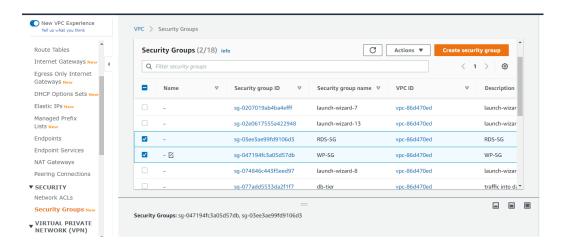
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Type 'help:' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

| information schema |
| mysql |
| performance schema |
| sys |
| wordpress |
| mysql>
| mysql>
| mysql>
```

4. Connect these two instance by private IP, create two security group and add inbound and outbound rule i.e. for wordpress[http,ssh] and for database [mysql/arora] and access it by public IP.



NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Add Rule

5. Copy the Public internet protocol of that Ec2 instance which consist of wordpress application, now our wordpress ready to access, do the General step &access your dashboard of wordpress.

