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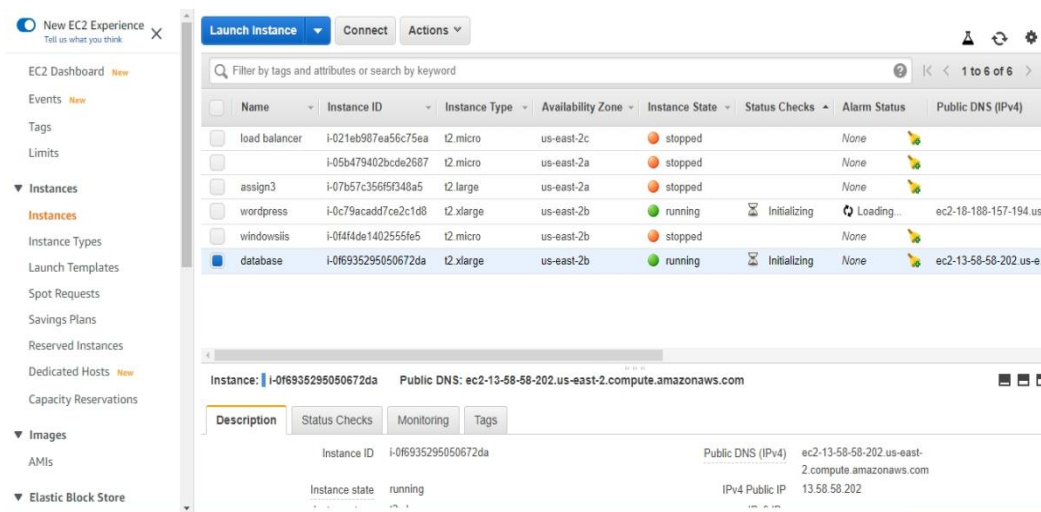
2. Select the first EC2 instance(wordpress) for downloading and installing wordpress application

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

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.
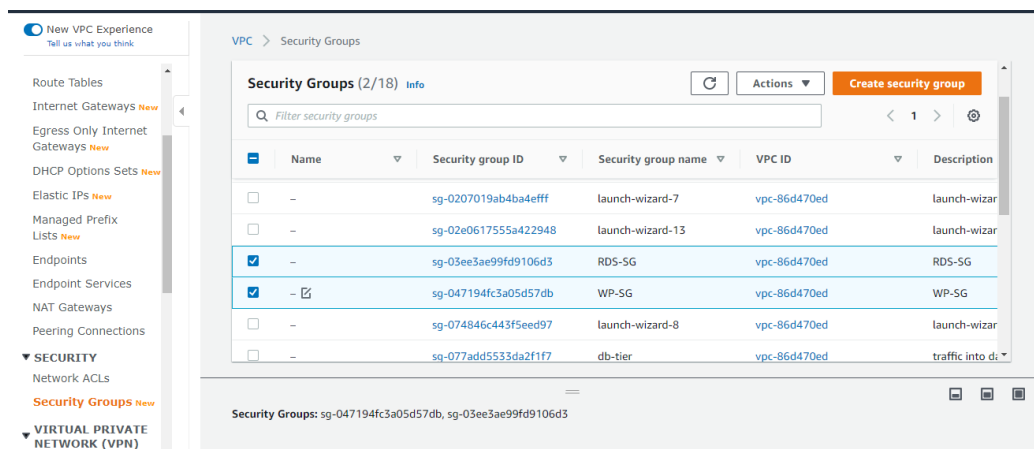
Security Groups > Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ		Description ⓘ	
HTTP ▾	TCP	80	Custom ▾	0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop	✕
SSH ▾	TCP	22	My IP ▾	124.40.245.74/32	e.g. SSH for Admin Desktop	✕

Add Rule

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.

Security Groups > Edit inbound rules

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Inbound rules control the incoming traffic that's allowed to reach the instance.

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ		Description ⓘ	
MYSQL/Aurora ▾	TCP	3306	Custom ▾	sg-0bd20202669f65280	e.g. SSH for Admin Desktop	✕

Add Rule

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.

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.