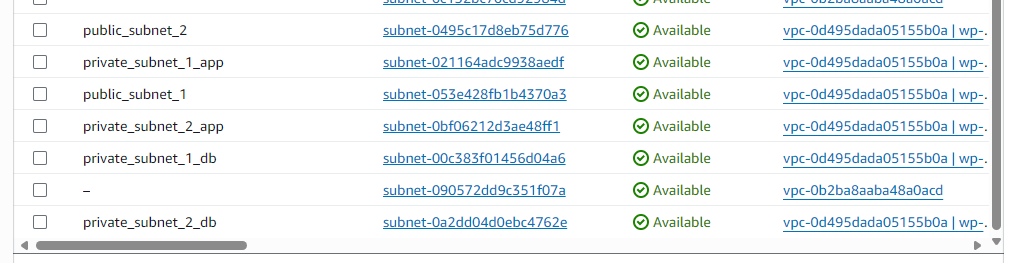
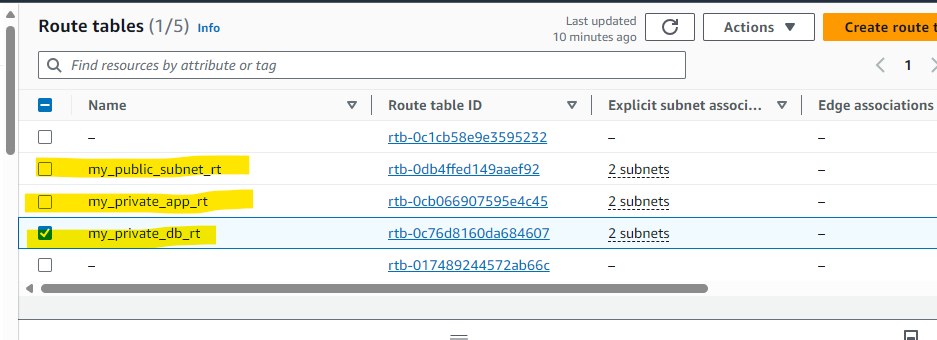
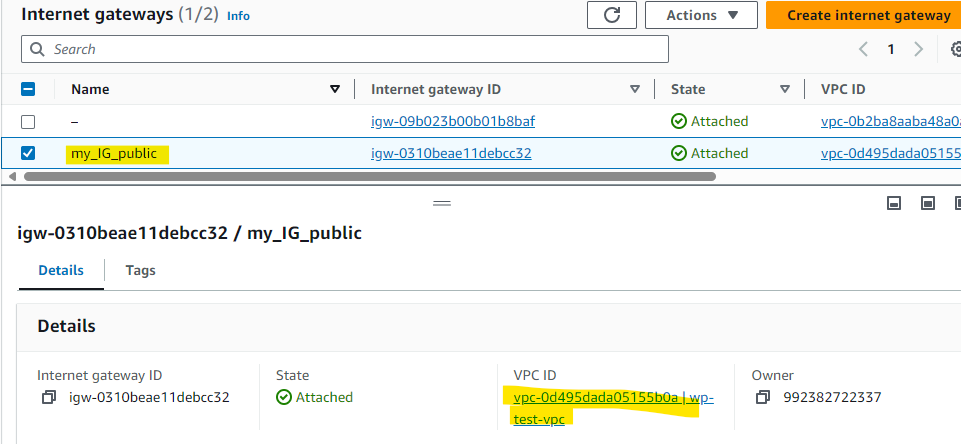
#Advanced Wordpress deployment  
  
[AWS how to setup VPC, Public, Private Subnet, NAT, Internet Gateway, Route Table? - (Part-5) (youtube.com)](https://www.youtube.com/watch?v=43tIX7901Gs)

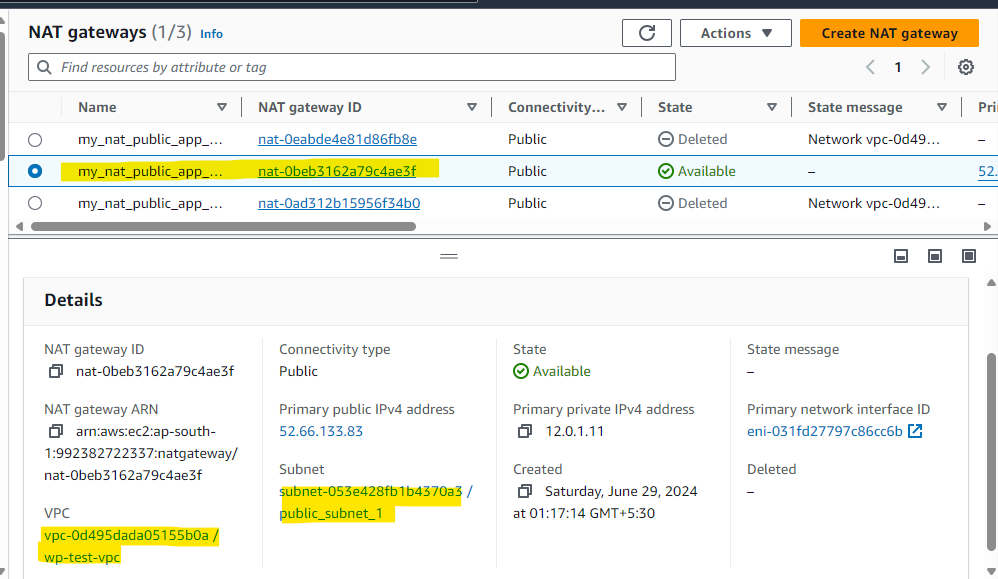
Requirement   
A VPC with 3 public and private subnets  
MySQL RDS Database in private subnets  
Steup EC2 instance and wordpress inside private subnets  
and connect that EC2 to RDS using security groups  
and place an application load balancer in public subnets with target group as ec2 instance  
  
Let’s create a VPC.  
  
A screenshot of a computer

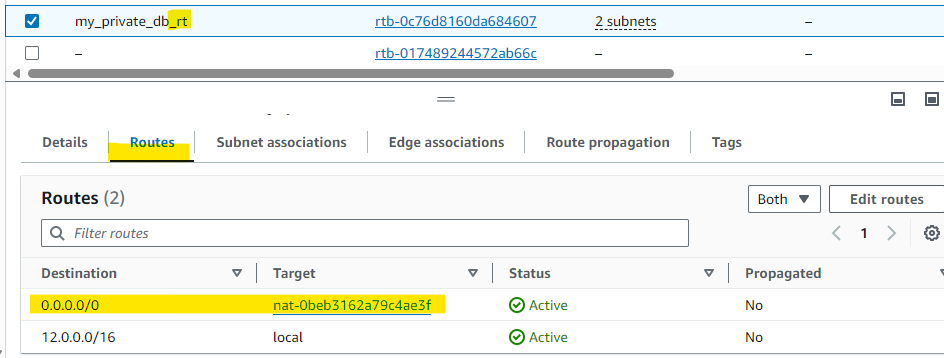
Description automatically generated  
  


Within vpc we need to create public subnet as well as private subnet,

  
  
Next, we will create route tables and associate it with respective public and private subnets (from above ss)  
  
  
  
Once routes are added, now we will create an internet gateway (IG) and attach it with our VPC



Finally we will create a NAT Gateway (placed under public subnet), will allocate elastic IP and NAT gateway will help private subnets to interact with internet.  
  
  
  
Now, we will add IG and NAT into route table,



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated  
  
We are done with networking part. So, lets proceed with RDS database creation and application installation.  
  
Creating subnet groups for DB,  
A screenshot of a computer

Description automatically generated   
  
Now will launch a RDS MySQL DB (within private subnets),  
  
A screenshot of a computer

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Proceeding with launching an EC2 instance,

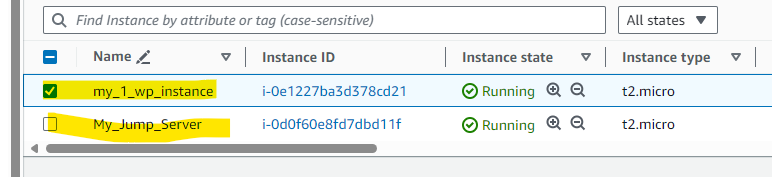
Once instance is launched will install apache2, install mysql server on instance and install wordpress on it. Use sudo before running the command

Before writing a script we should add below line  
#!/bin/bash  
A screenshot of a computer

Description automatically generated  
  
**Note:** (We can edit user data scripts on running instance (but to get the changes affected we have to )  
  
Since we are launching application server on private subnet we can’t connect through ssh directly, instead we can try connecting with Jump server (launched on public subnet).

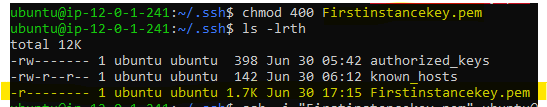
A screenshot of a computer

Description automatically generated

Login to Jump server and connecting our application server through ssh,   
  
  
  
As while creating instance we must download a key pair which helps us to do ssh to the instance (stored in local machine).   
Now we will ssh to our jump server from local machine and the directory were the key pair is present.

  
Moving to the below directory, we will create a keypair file with same content copied from base machine.  
A computer screen shot of a computer code

Description automatically generated

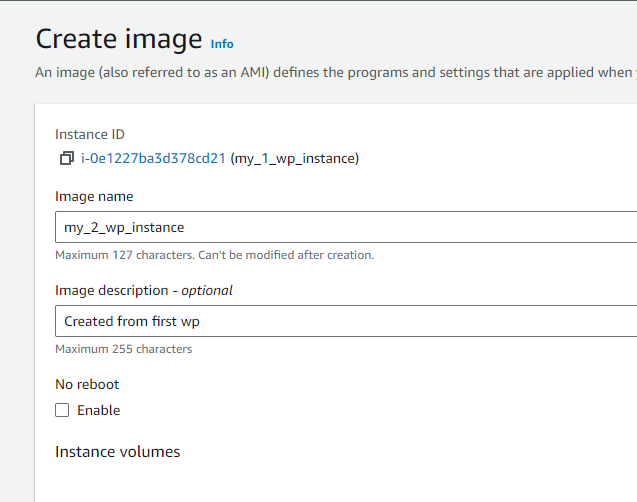
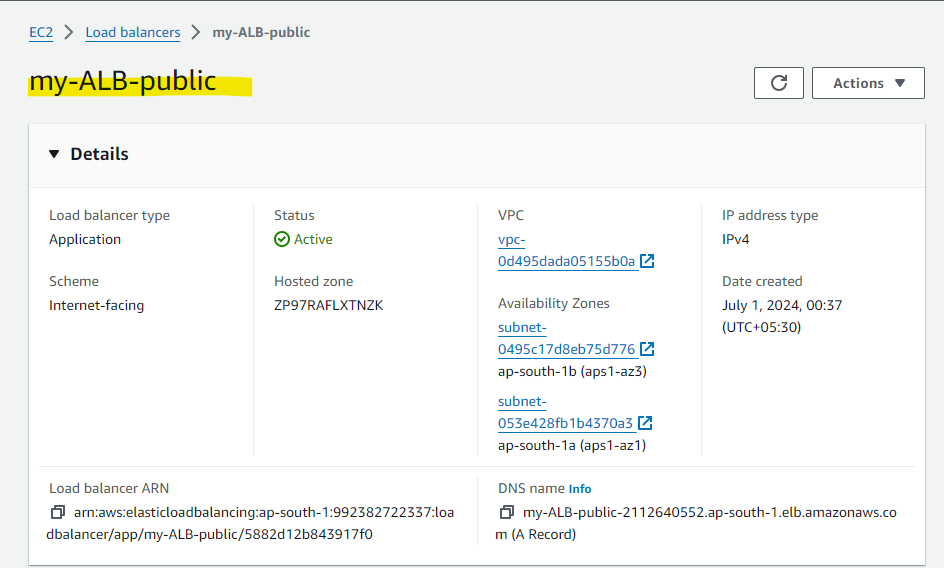
  
  
Let’s connect our RDS MySQL with db endpoint,  
  


Once connected, lets create a DB under mysql   
A black background with white text

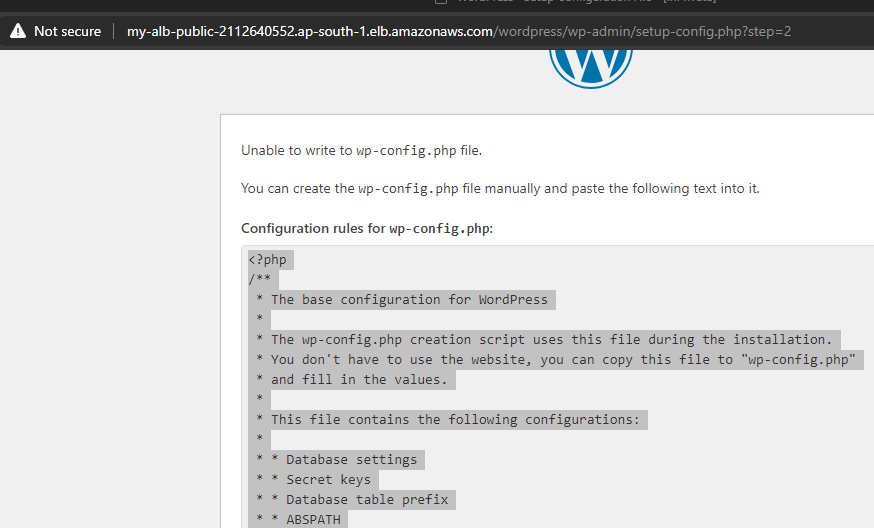
Description automatically generated

Now download wordpress cd /tmp  
wget https://wordpress.org/latest.tar.gz

next unzip (if installation is needed please install unzip first) tar -xvf latest.tar.gz

Move wordpress folder to apache document root sudo mv wordpress/ /var/www/html  
  
Next we will create an image of the first instance,  
  
  
Let’s Create ALB into public subnet (internet facing) and connect to both application instances with help of target groups (into private subnet).  
\*\* Allow traffics from ALB into application instance  
\*\* Allow traffics from application towards DB  
  
  
  
  
  
  
Copy paste the DNS name into browser will lead to the web page as shown below,  
A screenshot of a computer

Description automatically generated  
  
A screenshot of a computer

Description automatically generated  
  
Now copy below configuration and write it under /worpress path with file name as wp-config.php  
  
  
  
  
A computer screen with blue and white text

Description automatically generated

Next we can click on installation

A screenshot of a computer

Description automatically generated

Successfully we have launched our wordpress site. 😊

A screenshot of a computer

Description automatically generated  
  
  
  
Created an html file to check the working of load balancer across instance.  
  
  
  
  
  
A computer screen with a number and text

Description automatically generated with medium confidence

A black and white screen with white text

Description automatically generated