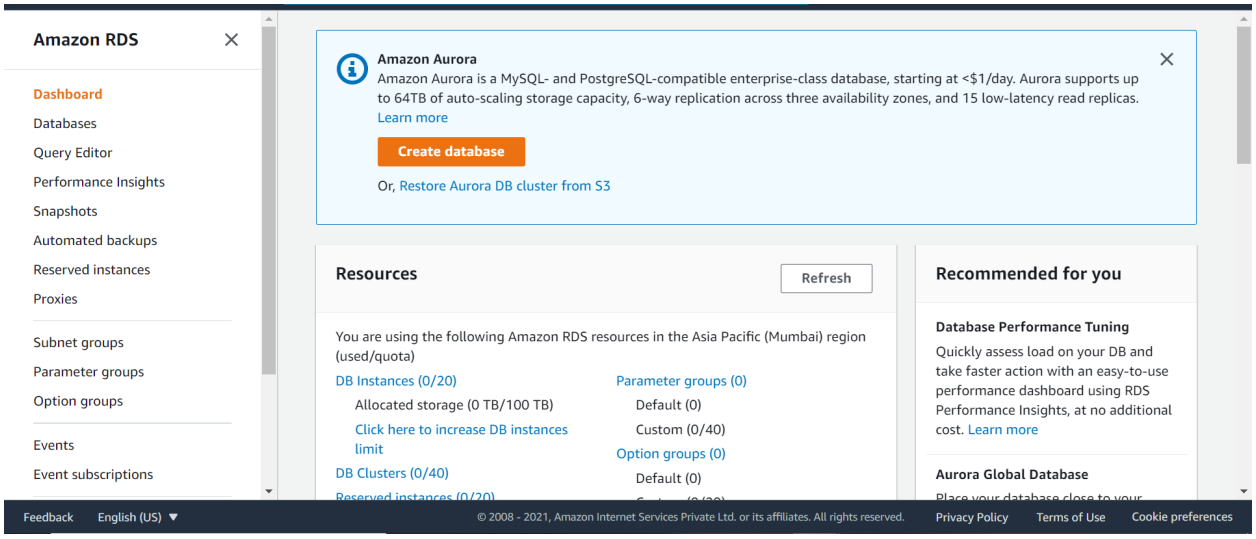
MySQL server using AWS RDS

Task Description

- Create an AWS EC2 instance
- Configure the instance with Apache Webserver.
- Download php application name "WordPress".
- As WordPress stores data at the backend in MySQL Database server. Therefore, you need to setup a MySQL server using AWS RDS service using Free Tier.
- Provide the endpoint/connection string to the WordPress application to make it work.
-

Step 1 :- Creating the MySQL RDS

- **Click on Create database.**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Subnet groups
Parameter groups
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Event subscriptions
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Amazon Aurora is a MySQL- and PostgreSQL-compatible enterprise-class database, starting at <$1/day. Aurora supports up to 64TB of auto-scaling storage capacity, 6-way replication across three availability zones, and 15 low-latency read replicas.
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Refresh
You are using the following Amazon RDS resources in the Asia Pacific (Mumbai) region (used/quota)
DB Instances (0/20)
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Click here to increase DB instances limit
DB Clusters (0/40)
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Default (0)
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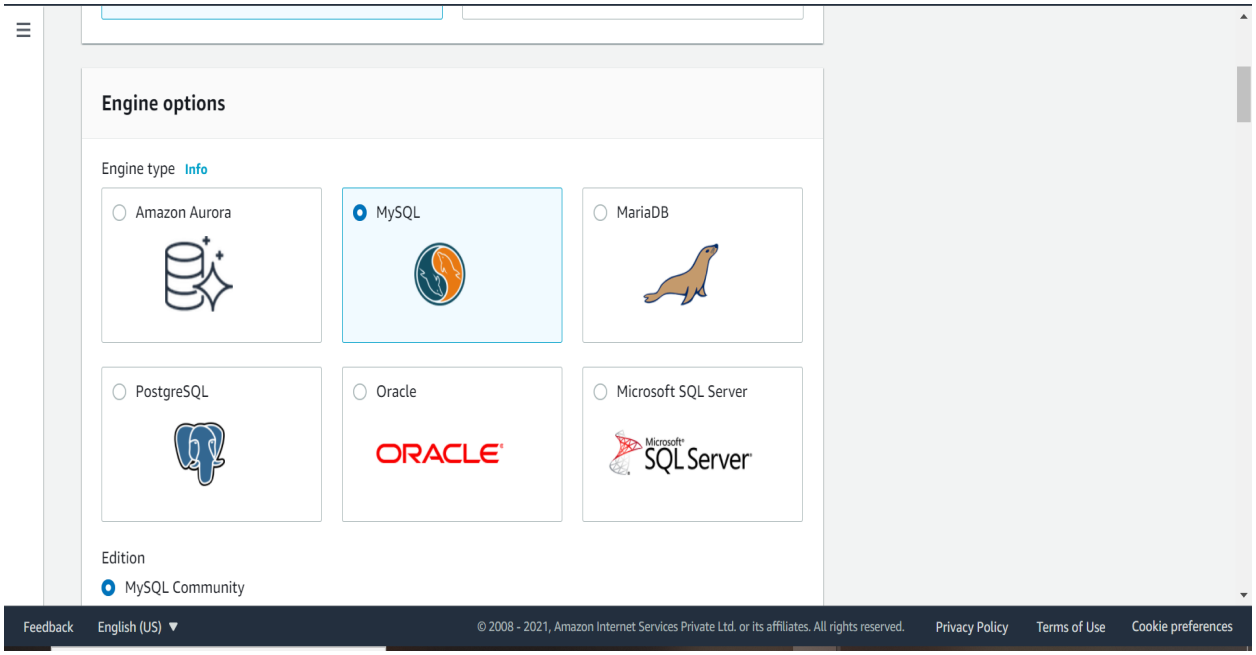
Engine options
Engine type Info
Amazon Aurora
MySQL
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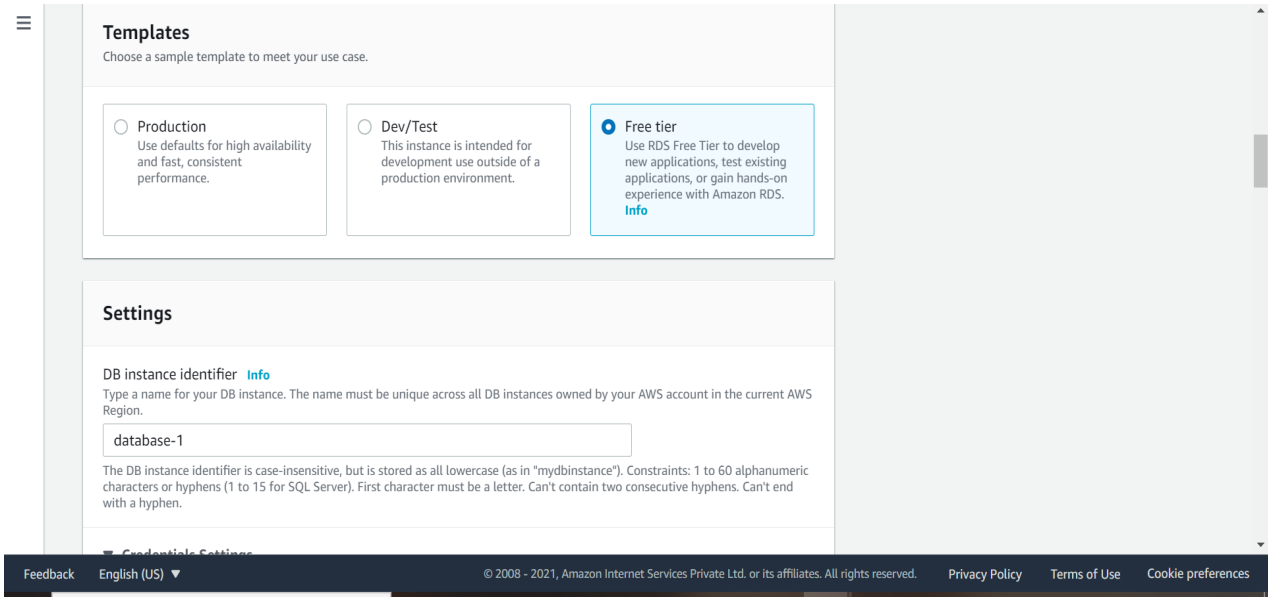
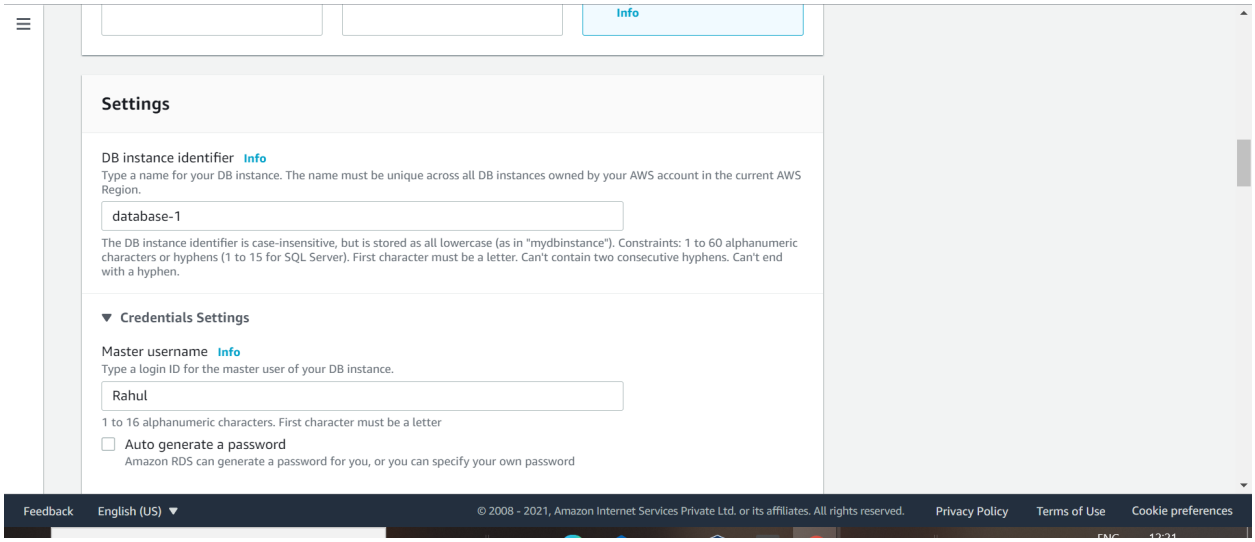
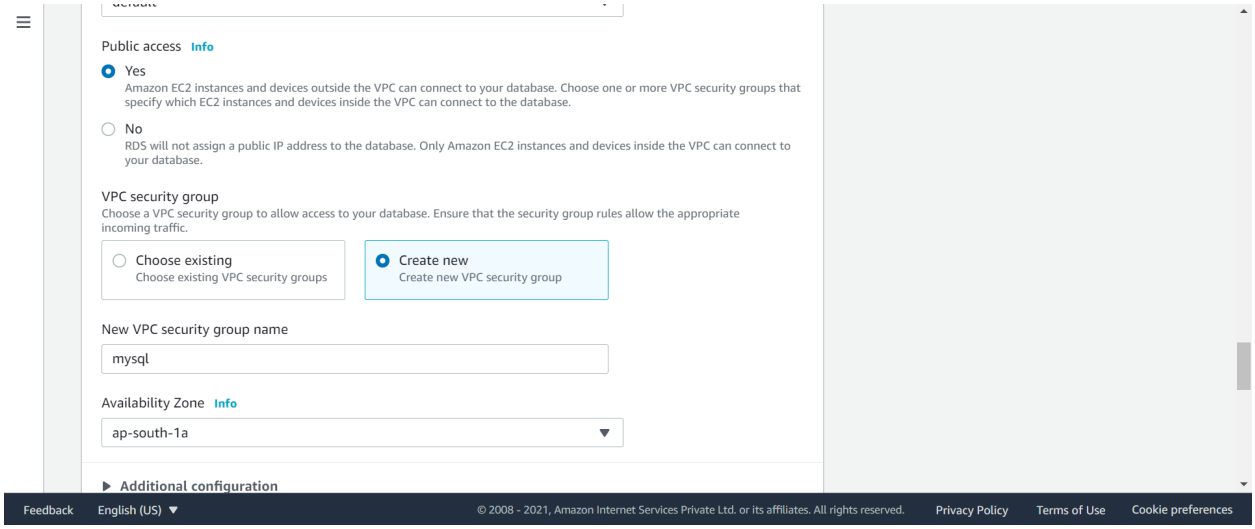


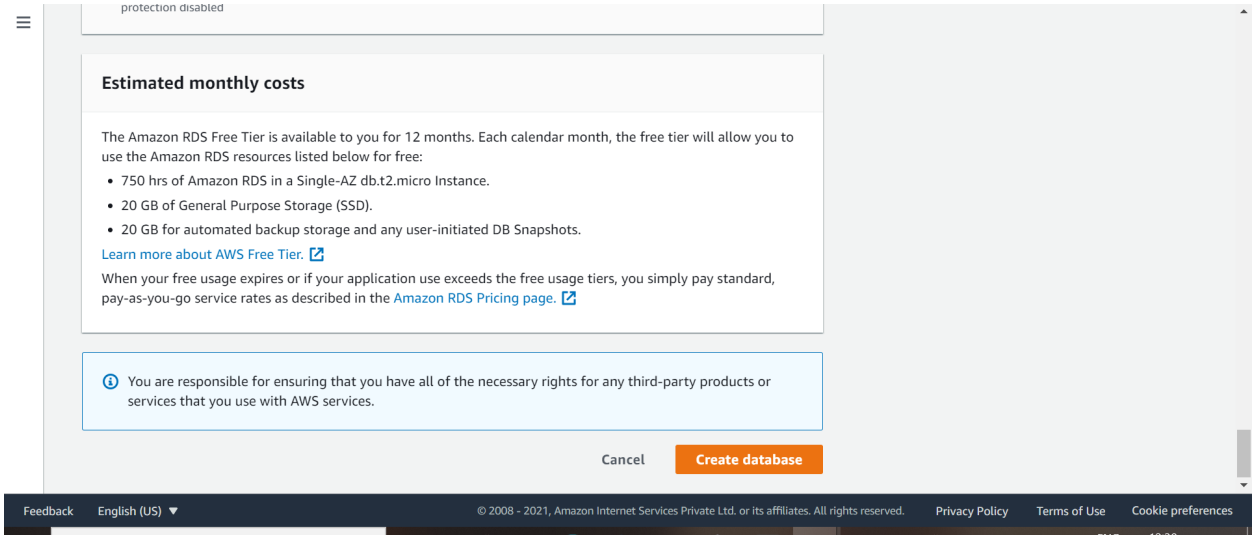
- **Name your database**

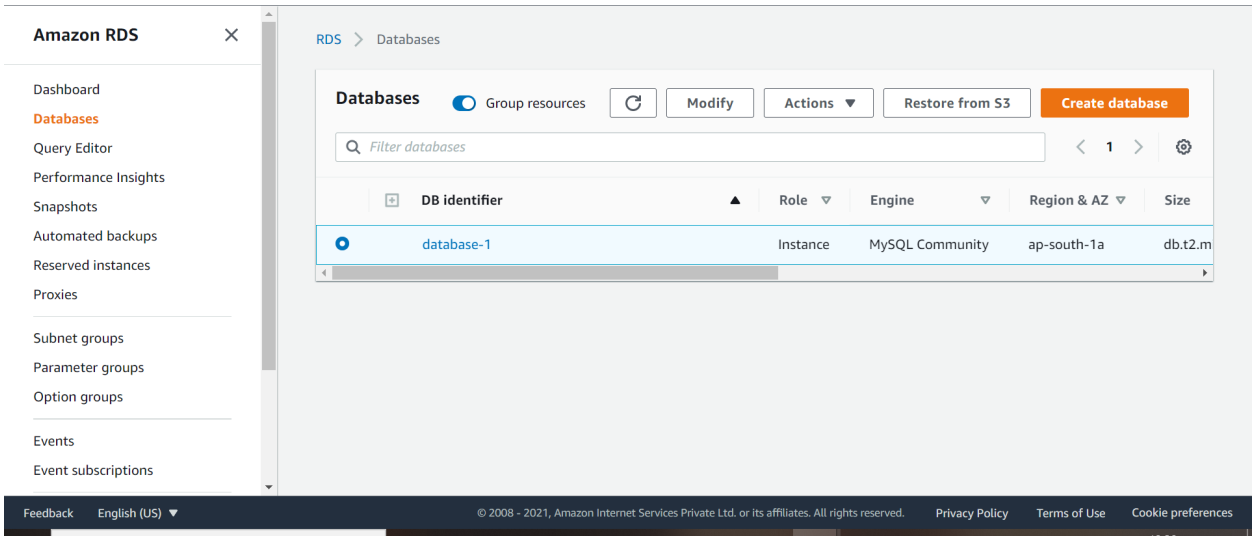


- **Leave rest of setting default. and In the Public access select yes otherwise you won't be able to connect to WordPress.**
- **Choose the security group if you have already created any , otherwise you can create new one.**

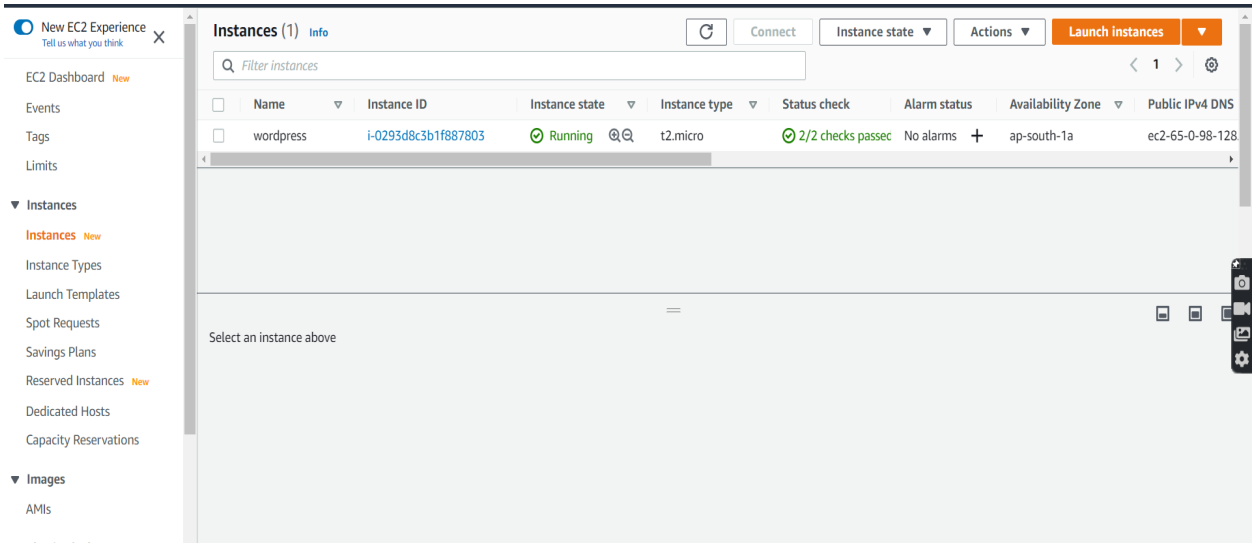


- **Now click on create database.**

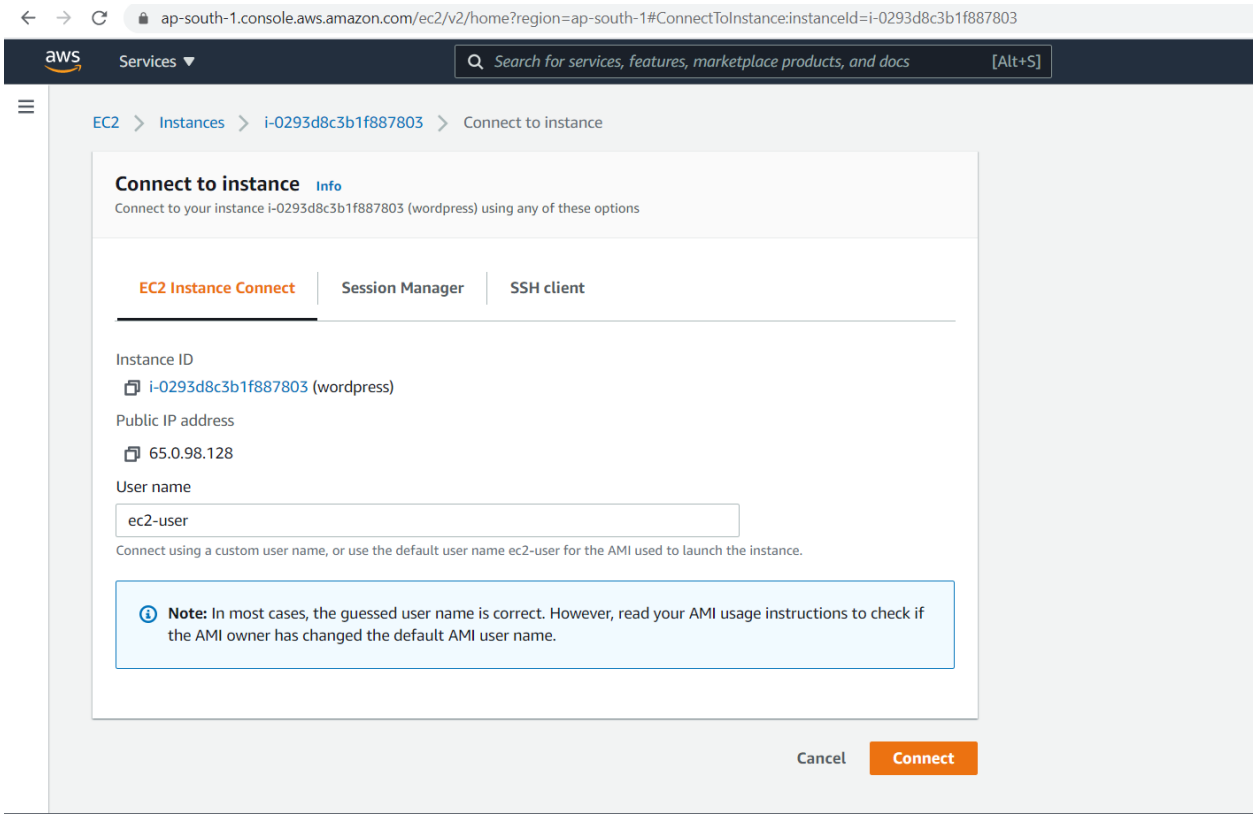




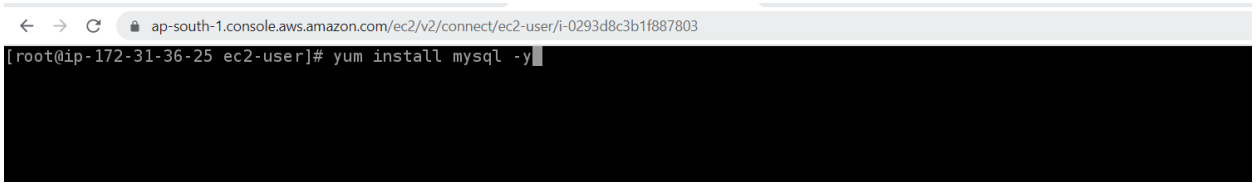
Step 2:- Launch an ec2 instance and configure WordPress.



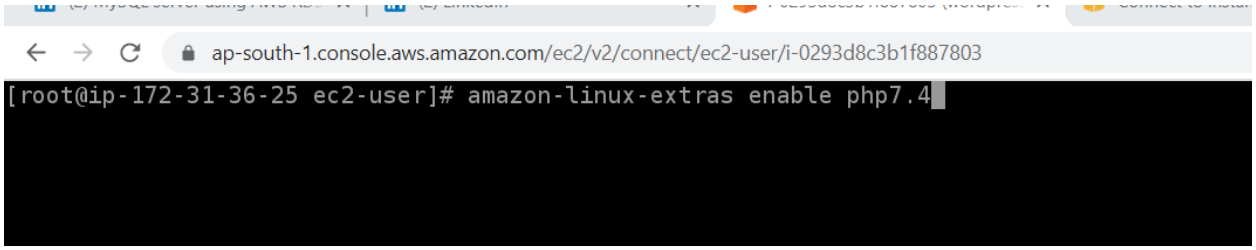
- **Select the instance and click on connect to connect to your ec2 instance.**



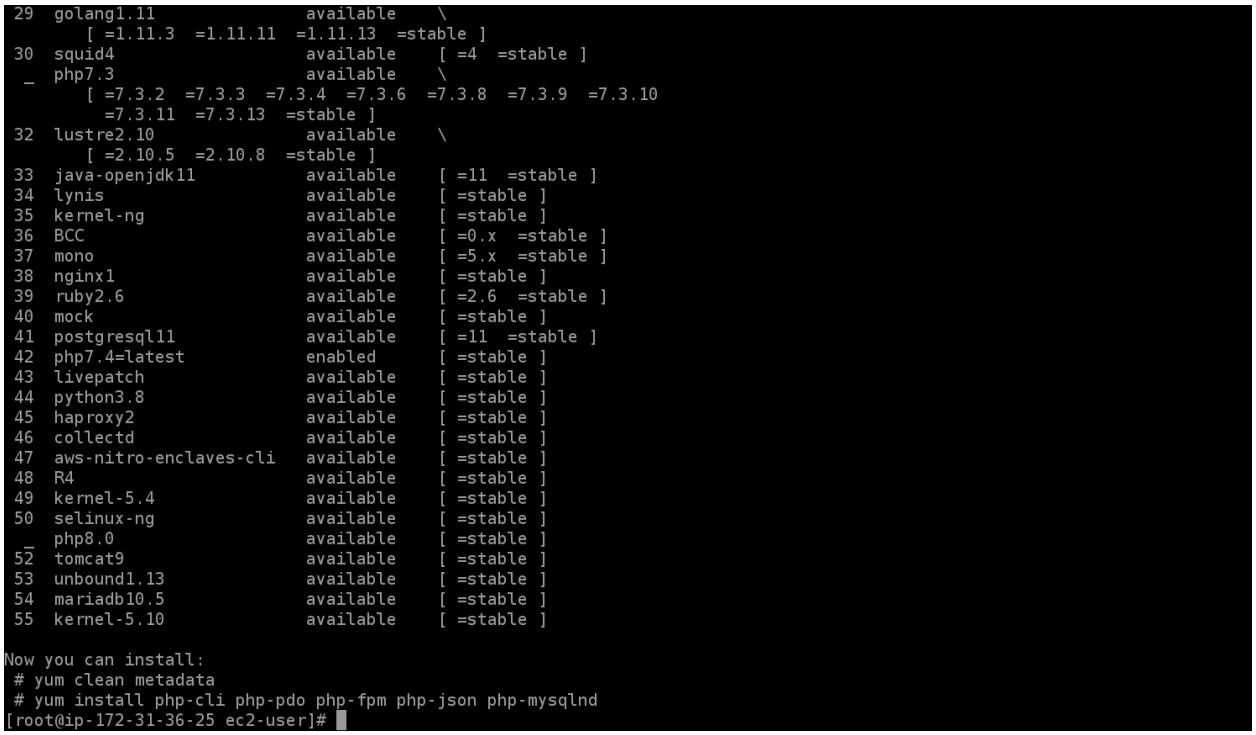
- **run <u>"sudo su - root"</u> to become root user so that you can run all the command with root privilege.**
- **To setup the WordPress we need to install some software.**
- **<u>"yum install httpd -y"</u> and <u>"yum install mysql -y"</u> to install httpd and mysql.**



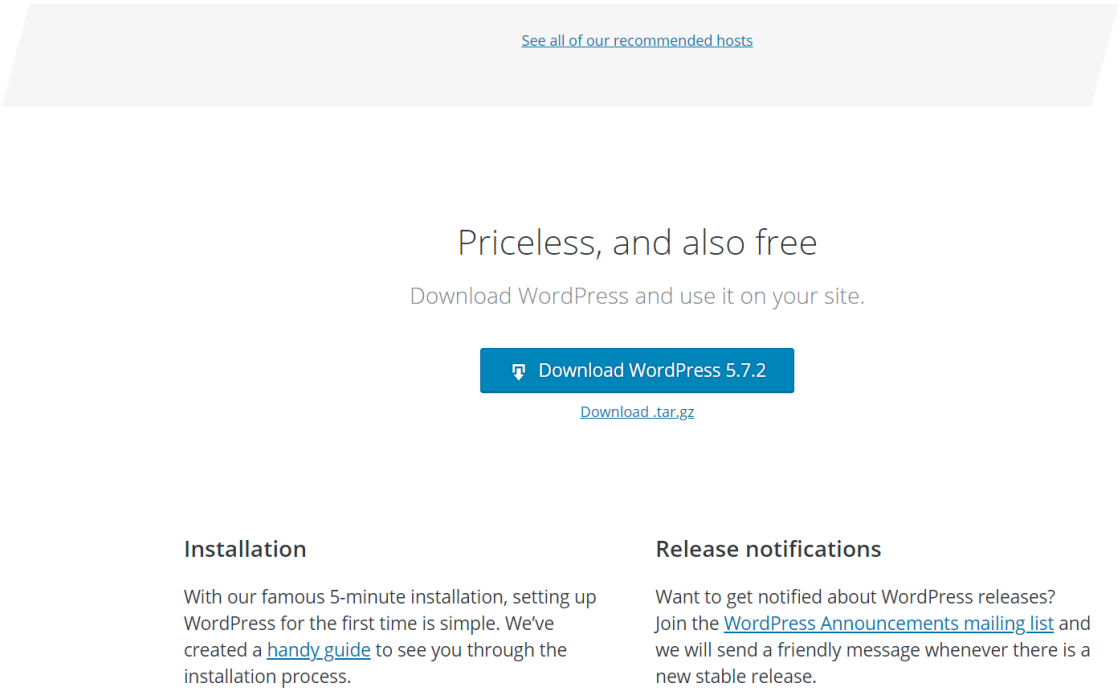
- **Run <u>"amazon-linux-extras enable php7.4"</u> command to get command to install php.**



- **Run those two command given in the above image to install php.**

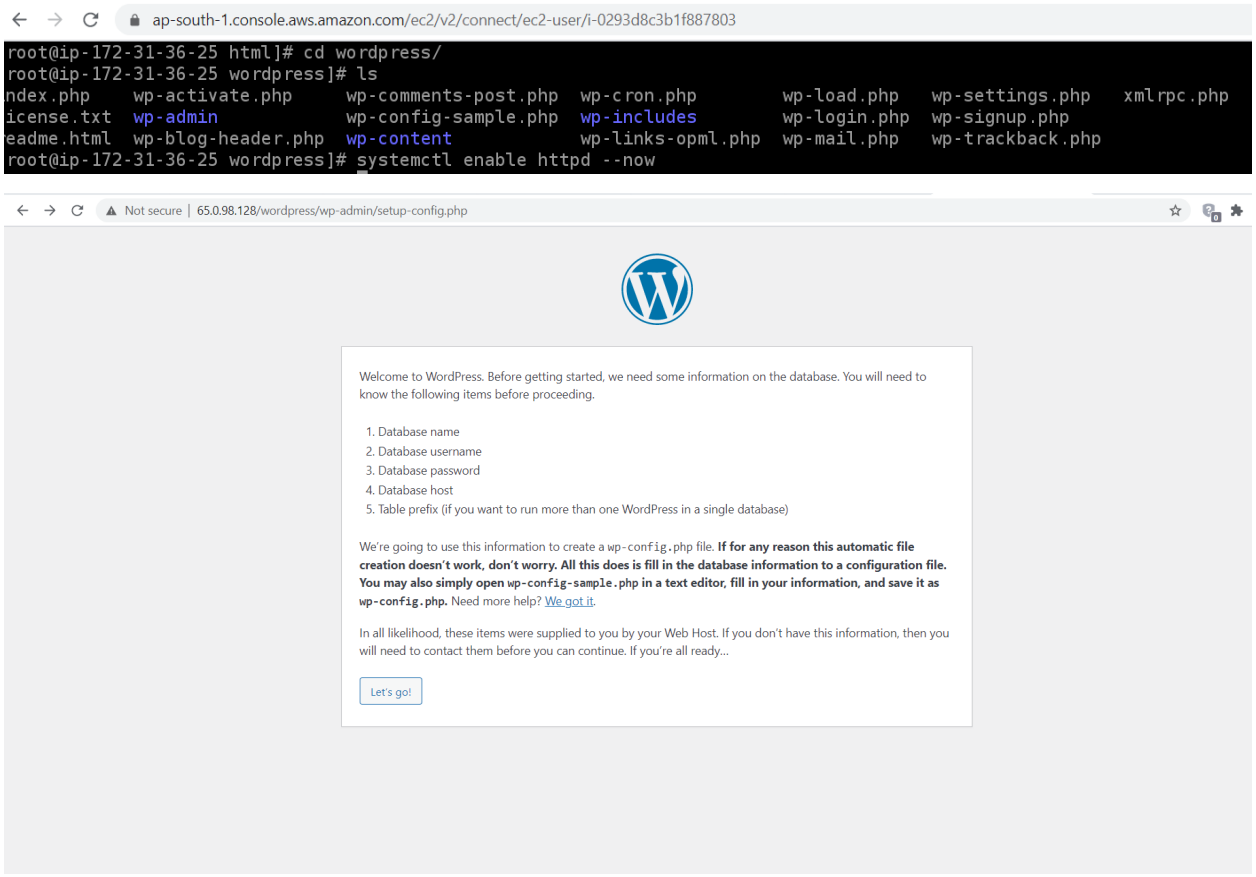


- **Now go to the official site of WordPress https://wordpress.org/download/ and copy the download link.**



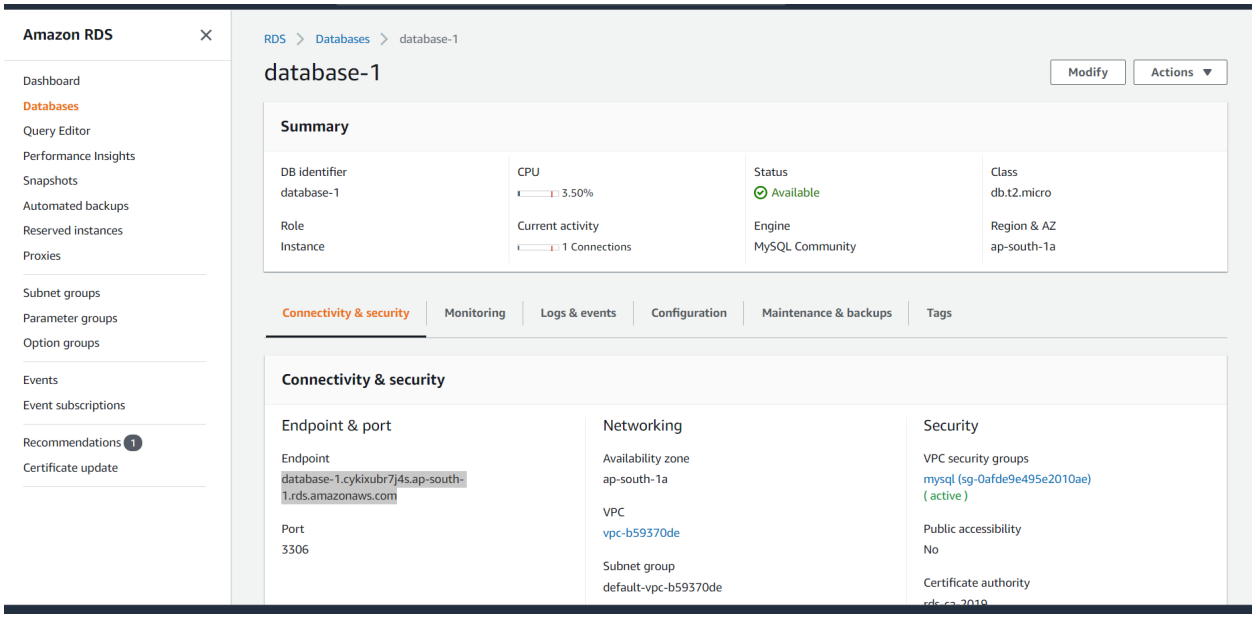
- **go to the "cd /var/www/html/" folder.**
- **Run the "wget https://wordpress.org/latest.tar.gz" command to download the wordpress software.**
- **and "tar -xf latest.tar.gz" to unzip the Wordpress software.**

- **Enable the httpd service. and enter your public IP of ec2 instance on browser followed by your wordpress folder "publicIP/worpress".**



Step 3 :- Check your RDS MySQL database connectivity.

- **Copy your database endpoint**



- **Run the below command to connect your database. enter your correct endpoint , user and password in this command.**

```
[root@ip-172-31-36-25 wordpress]# mysql -h database-1.cykixubr7j4s.ap-south-1.rd
s.amazonaws.com -u Tushar -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.23 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
4 rows in set (0.00 sec)
```

So as you can see we have successfully connected to the mysql database now here you can run mysql command to check database and tables.

THANK YOU.