# 1.Create 2 Sec.Group:

​

Wordpress\_Instance\_Sec\_group: SSH 22, HTTP 80, Mysql/Aurora 3306 > anywhere(0:/00000)

RDS\_database\_Sec\_Group: Mysql/Aurora 3306 > anywhere (0:/00000)

​

# 2.Create RDS mysql instance.

​

# 3.Create EC2 that is installed LAMP with user data seen below for Wordpress app.

​

#!/bin/bash

​

yum update -y

amazon-linux-extras install -y lamp-mariadb10.2-php7.2 php7.2

yum install -y httpd

systemctl start httpd

systemctl enable httpd

wget https://wordpress.org/latest.tar.gz

tar -xzf latest.tar.gz

sudo cp -r wordpress/\* /var/www/html/

cd /var/www/html/

cp wp-config-sample.php wp-config.php

chown -R apache /var/www

chgrp -R apache /var/www

chmod 775 /var/www

find /var/www -type d -exec sudo chmod 2775 {} \;

find /var/www -type f -exec sudo chmod 0664 {} \;

systemctl restart httpd

​

# 4. Paste the DNS of EC2 instance to the browser

Error establishing a database connection

​

# 5. Check the httpd status

sudo systemctl status httpd

​

# 6. Check the PHP version

php --version

#(you'll see HP 7.2.30)

​

# 7. Check the mariadb status

sudo systemctl status mariadb

#(you'll see mariadb not found)

​

# 8. Install mariadb

sudo yum install -y mariadb-server

​

# 9. Start mariadb service

sudo systemctl start mariadb

​

# 10. Enable mariadb service, so that mariadb service will be activated on restarts

sudo systemctl enable mariadb

​

# 11. Setup secure installation of MariaDB

sudo mysql\_secure\_installation

​

# 12. Connect mysql terminal without password anymore

mysql -u root -p

​

# 13.Show that test db is gone.

SHOW databases;

​

# 14. Select msql and List the users defined in the server

USE mysql;

​

SELECT Host, User, Password FROM user;

​

# 15. Create new database named "clarusway";

CREATE DATABASE clarusway;

​

# 16. Show newly created database

SHOW DATABASES;

​

# 17. Create a user named "admin";

CREATE USER admin IDENTIFIED BY 'Pl123456789';

​

# 18. Grant permissions to the user "admin" for database "clarusway"

GRANT ALL ON clarusway.\* TO admin IDENTIFIED BY 'Pl123456789' WITH GRANT OPTION;

​

# 19. Update privileges

FLUSH PRIVILEGES;

​

# 20. List the users defined.

SELECT Host, User, Password FROM user;

​

# 21. Close the mysql terminal

EXIT;

​

# 22. Go to the "cd /var/www/html/" to secure config file before change

​

cd /var/www/html/

sudo cp wp-config-sample.php wp-config.php

​

# 23. Change the config file for database assosiation

sudo nano wp-config.php

​

#define( 'DB\_NAME', 'clarusway' );

​

#define( 'DB\_USER', 'admin' );

​

#define( 'DB\_PASSWORD', 'Pl123456789' );

​

Ctrl X and Y

sudo systemctl restart httpd

​

# 24. Check the browser. You'll see the home page of Wordpress

# enter pasword,user name etc...

​

# 25. Login databse again for upload an tables

mysql -u admin -p

​

# 26. Show databases and Select the database "clarusway"

SHOW DATABASES;

USE clarusway;

​

# 27. Create a table named "store"

​

CREATE TABLE `store` (

`store\_id` int(11) NOT NULL,

`address` varchar(50) NOT NULL,

`city` varchar(50) NOT NULL,

`state` varchar(50) NOT NULL,

PRIMARY KEY (`store\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_unicode\_ci;

​

# 28. Insert some data into the table named "store"

​

INSERT INTO `store` VALUES (1,'03 Reinke Trail','Cincinnati','OH');

INSERT INTO `store` VALUES (2,'5507 Becker Terrace','New York City','NY');

INSERT INTO `store` VALUES (3,'54 Northland Court','Richmond','VA');

INSERT INTO `store` VALUES (4,'08 South Crossing','Cincinnati','OH');

INSERT INTO `store` VALUES (5,'553 Maple Drive','Minneapolis','MN');

INSERT INTO `store` VALUES (6,'23 North Plaza','Aurora','CO');

INSERT INTO `store` VALUES (7,'9658 Wayridge Court','Boise','ID');

INSERT INTO `store` VALUES (8,'9 Grayhawk Trail','New York City','NY');

INSERT INTO `store` VALUES (9,'16862 Westend Hill','Knoxville','TN');

INSERT INTO `store` VALUES (10,'4 Bluestem Parkway','Savannah','GA');

​

# 29. Create a table named "Client"

​

CREATE TABLE `client` (

`client\_id` int(11) NOT NULL,

`first\_name` varchar(50) NOT NULL,

`last\_name` varchar(50) NOT NULL,

PRIMARY KEY (`client\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_unicode\_ci;

​

# 30. Insert some data into the table named "client"

​

INSERT INTO `client` VALUES (37270,'Yovonnda','Magrannell');

INSERT INTO `client` VALUES (33391,'Darcy','Nortunen');

INSERT INTO `client` VALUES (37851,'Sayer','Matterson');

INSERT INTO `client` VALUES (40448,'Mindy','Crissil');

INSERT INTO `client` VALUES (56274,'Keriann','Alloisi');

INSERT INTO `client` VALUES (63196,'Alaster','Scutchin');

INSERT INTO `client` VALUES (67009,'North','de Clerc');

INSERT INTO `client` VALUES (67370,'Elladine','Rising');

INSERT INTO `client` VALUES (68249,'Nisse','Voysey');

INSERT INTO `client` VALUES (72540,'Guthrey','Iacopetti');

INSERT INTO `client` VALUES (72913,'Kass','Hefferan');

INSERT INTO `client` VALUES (75900,'Virge','Goodrum');

INSERT INTO `client` VALUES (76196,'Mirilla','Janowski');

INSERT INTO `client` VALUES (80529,'Lynde','Aronson');

​

# 31. Show newly created tables;

SHOW tables;

​

# 32. Check the tables

SELECT \* FROM store;

SELECT \* FROM client;

​

# 33. Exit from database

EXIT;

​

# 34. Connect to the RDS instance to create "clarusway" database with HOST

mysql -u admin -h [your-own-RDS-endpoint] -p

​

# 35. Show databases and select "mysql"

SHOW DATABASES;

USE mysql;

​

# 36. Create new database named "clarusway";

CREATE DATABASE clarusway;

​

# 37. Show newly created database and exit

SHOW DATABASES;

EXIT;

​

# 38.Create Messanger Instance and connce with SSH:

#Sec group: ssh-mysql aurora:0/00000 (or Wordpress\_Instance\_sec\_group )

#userdata:

#!/bin/sh

​

yum update -y

yum install -y https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm

yum install -y mysql-community-client

​

​

# 39. Create dumb of "clarusway" database via connecting from "Messenger EC2" to the "Database Instance"

mysqldump -u admin -h [your-own-database-instance-DNS] -p clarusway > clarusway.sql

​

# 40. Transfer the dumb file to the RDS instance

mysql -u admin -h [your-own-RDS-endpoint] -p clarusway < clarusway.sql

​

# 41. Loging for checking "clarusway"

mysql -u admin -h [your-own-RDS-endpoint] -p

USE clarusway;

SHOW tables;

SELECT \* FROM client;

SELECT \* FROM store;

​

# 42. Go to the Workbrech and connect;

SELECT \* FROM clarusway.client;

SELECT \* FROM clarusway.store;