Dated 15.05.2024

Hands on RDS database

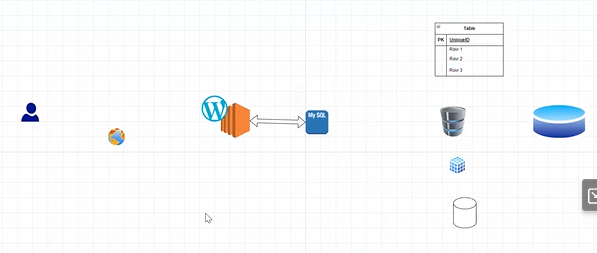
1 - Launch a RDS instance

2 - Launch a Amazon Linux 2 EC2 instance & Install Wordpress automatically using Userdata

3 - Establish a connection between RDS to EC2

4 - Try to test the connection

5 - Create a Page in wordpress



Create a SG with the Port Number >>> SSH, HTTP, ALL TCP, Custom TCP 3306 ( Port Number for MySQL)

Go to AWS Console and Select the Frankfurt Region .( for free tier MySQL database )

Then Go to the Security Group

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Click on Create SG

Then add all the inbound rules SSH, HTTP, ALL TCP, Custom TCP 3306

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SG-RDS created

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Check the inbound rules again

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Launch a RDS instance (Standard create)

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Select creation Method as Standard create

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Select engine as MySQL

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Templates >>> Free Tier ( Select MySQL database )

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DB Identifier - mahesh

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Give username - mahesh

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Credentials management >>> Self Managed

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Master pwd - mahesh123

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Select the db.t3.micro Instance

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Storage >>> 20 GB

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Storage autoscaling >> extract

Autoscaling - uncheck

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Connectivity >>> Don’t connect to an EC2 compute resource

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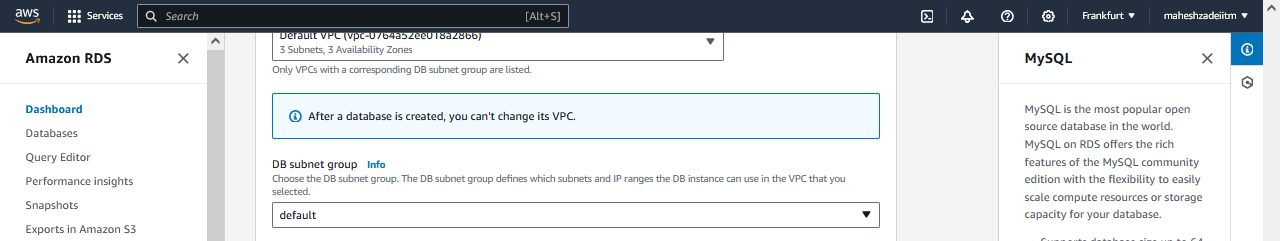
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Select VPC

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DB Subnet group default



Public Access - NO

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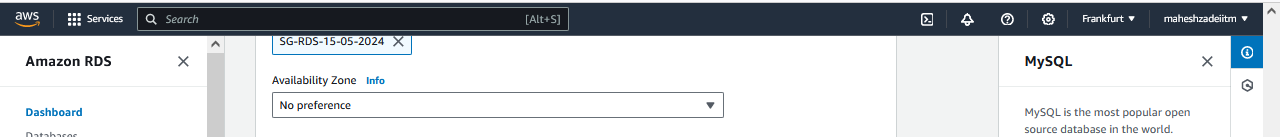
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SG - Select dedicated SG which created above

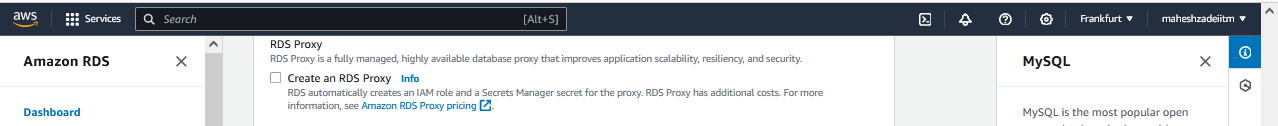
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Availability Zone - Public Subnet Zone from your VPC ( No preference)



RDS Proxy >>> Leave it



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Extract - Additional configuration

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Database authentication >>> Password authentication

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Monitoring >>> Leave it

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Additional configuration >>>> Extract -

Initial DB name - mahesh

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Disable - Automatic Backup ( uncheck )



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No Maintenance - Disable

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Create a DB

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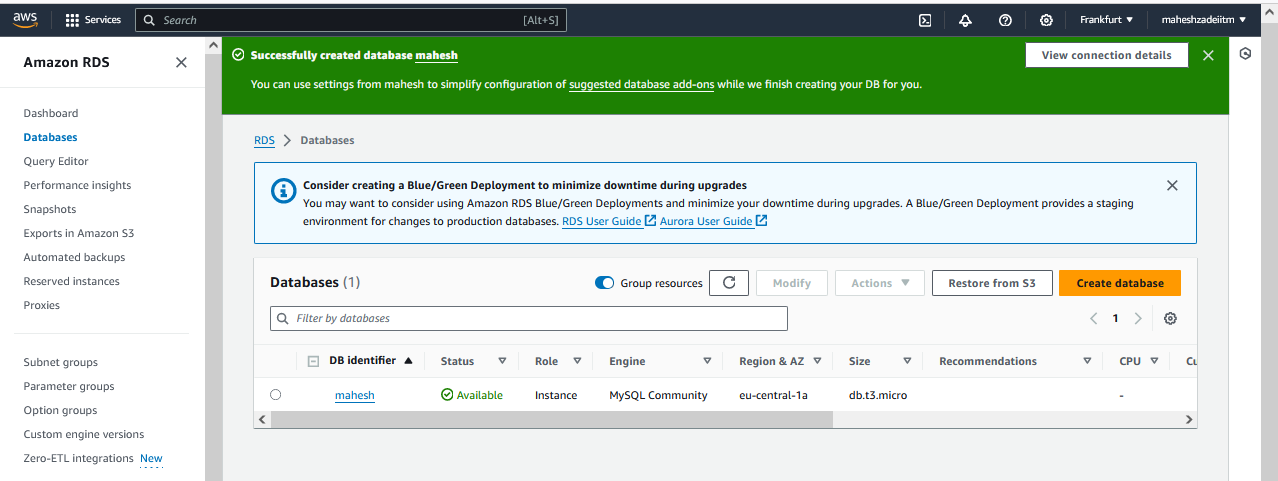
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Click on close

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Database Started creating wait till created .



Pls make a note of endpoints

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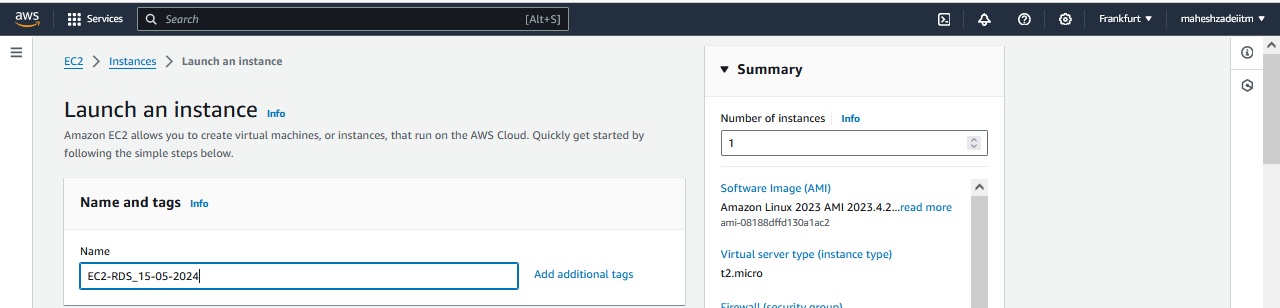
Below endpoint

mahesh.c9u2w60m8w4q.eu-central-1.rds.amazonaws.com

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Launch a EC2 >>>>



Amazon Linux 2

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Choose VPC ( Here I select default and Public IP enabled )

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Enable Public IP

SG - Use the same SG that you have created above

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Extract Advanced >>> Update user data as below

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Go to user data below and paste the below user data for word-press application

#!/bin/bash

yum update -y

amazon-linux-extras install -y php7.2

yum install -y httpd

systemctl start httpd

systemctl enable httpd

cd /var/www/html

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

tar -xzf latest.tar.gz

cp -r wordpress/\* ./

chmod -R 755 wp-content

chown -R apache:apache wp-content

Launch EC2

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Copy public IP of the EC2 instance and paste I browser.

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Description automatically generated

Test Wordpress is launched or not >>> copy your Public IP and check in explorer

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Now do the Integration steps below

DB Name - mahesh

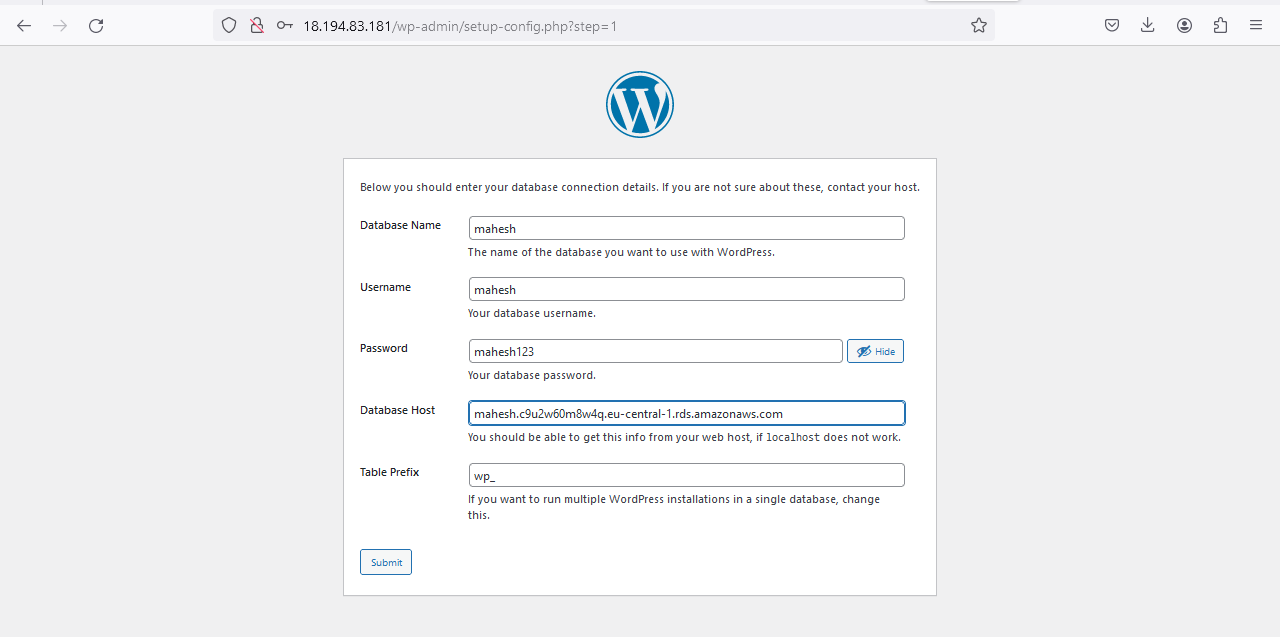
username - mahesh

password - mahesh123

databasehost - DB endpoint

Remain default

Submit >>>> Integration test



Click on Submit

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login to the EC2

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cd /var/www/html

ls

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### NO config file,( wp-config.php) lets create it

sudo nano wp-config.php

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Copy from wordpress app

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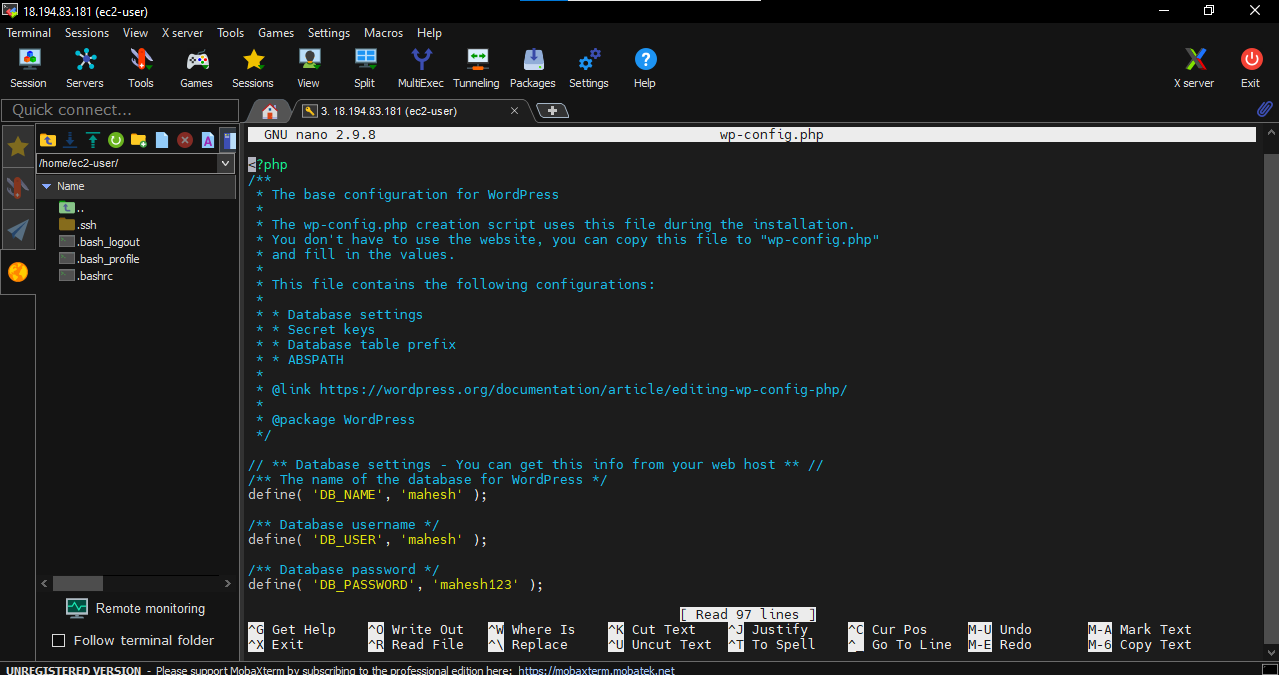
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update the one which you can see in wordpress page

Ctrl + X

Y

enter

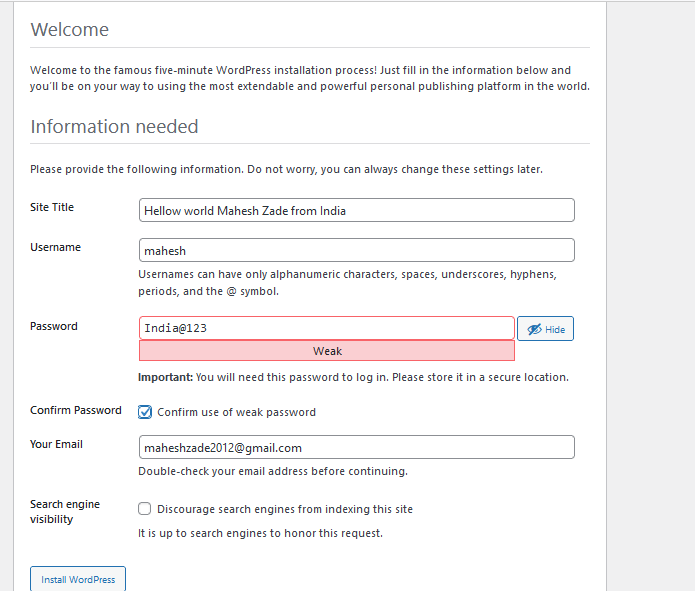


Test the connectivity from wordpress

Run the installation

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Click on login

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Type user name and password you have given abaove

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Go to post >>> add new post

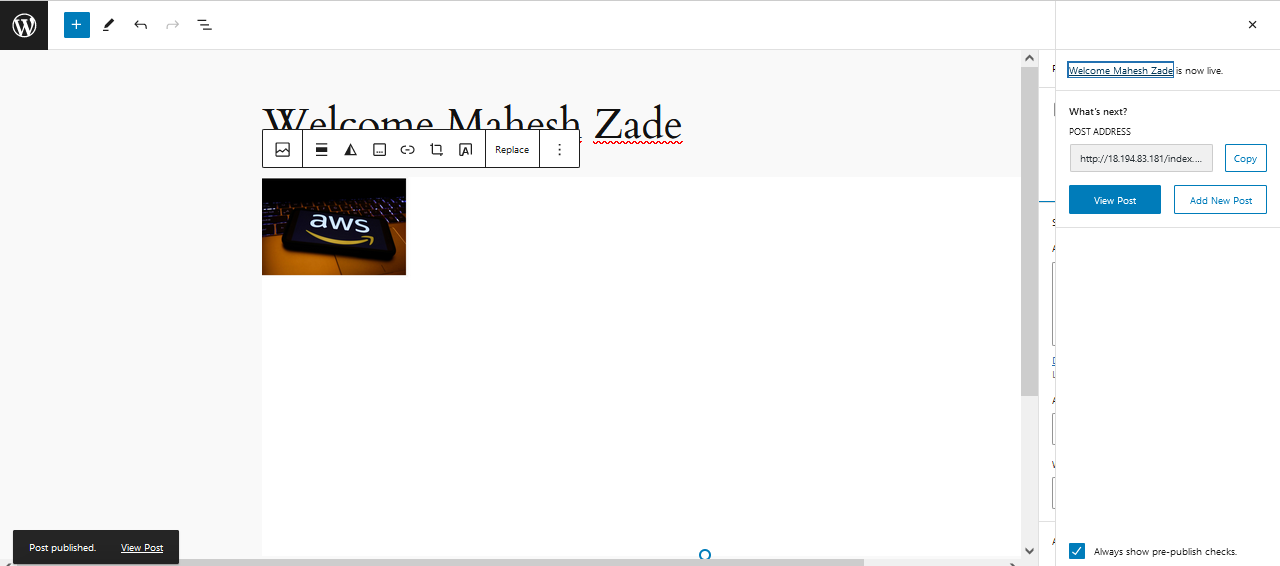
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Close welcome block editor

Add a tiltle

Now Click on publish



Copy URL from right side of the dashboard

<http://18.194.83.181/index.php/2024/05/15/welcome-mahesh-zade/>

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Now my WordPress application is launch on RDS ( MySQL) successfully

Pls check and confirm

Thanks

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