

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.**

Amazon RDS

Dashboard

Databases

Query Editor

Performance Insights

Snapshots

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Events

Event subscriptions

Amazon Aurora

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.
[Learn more](#)

Create database

Or, [Restore Aurora DB cluster from S3](#)

Resources

Refresh

You are using the following Amazon RDS resources in the Asia Pacific (Mumbai) region (used/quota)

DB Instances (0/20)

Allocated storage (0 TB/100 TB)

[Click here to increase DB instances limit](#)

Parameter groups (0)

Default (0)

Custom (0/40)

Option groups (0)

Default (0)

Custom (0/60)

DB Clusters (0/40)

Reserved instances (0/20)

Recommended for you

Database Performance Tuning

Quickly assess load on your DB and take faster action with an easy-to-use performance dashboard using RDS Performance Insights, at no additional cost. [Learn more](#)

Aurora Global Database

Place your database close to your

Feedback

English (US)

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Engine options

Engine type [Info](#)


☐ Amazon Aurora




☒ MySQL




☐ MariaDB




☐ PostgreSQL



☐ Oracle



☐ Microsoft SQL Server



Edition

☒ MySQL Community

Feedback

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Templates

Choose a sample template to meet your use case.

☐ Production
Use defaults for high availability and fast, consistent performance.

☐ Dev/Test
This instance is intended for development use outside of a production environment.

☒ Free tier
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Credentials Settings

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- **Name your database**

Settings

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ **Credentials Settings**

Master username [Info](#)
Type a login ID for the master user of your DB instance.

Rahul

1 to 16 alphanumeric characters. First character must be a letter

☐ **Auto generate a password**
Amazon RDS can generate a password for you, or you can specify your own password

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- **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.**

Public access [Info](#)

☒ **Yes**
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

☐ **No**
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

☐ **Choose existing**
Choose existing VPC security groups

☒ **Create new**
Create new VPC security group

New VPC security group name

mysql

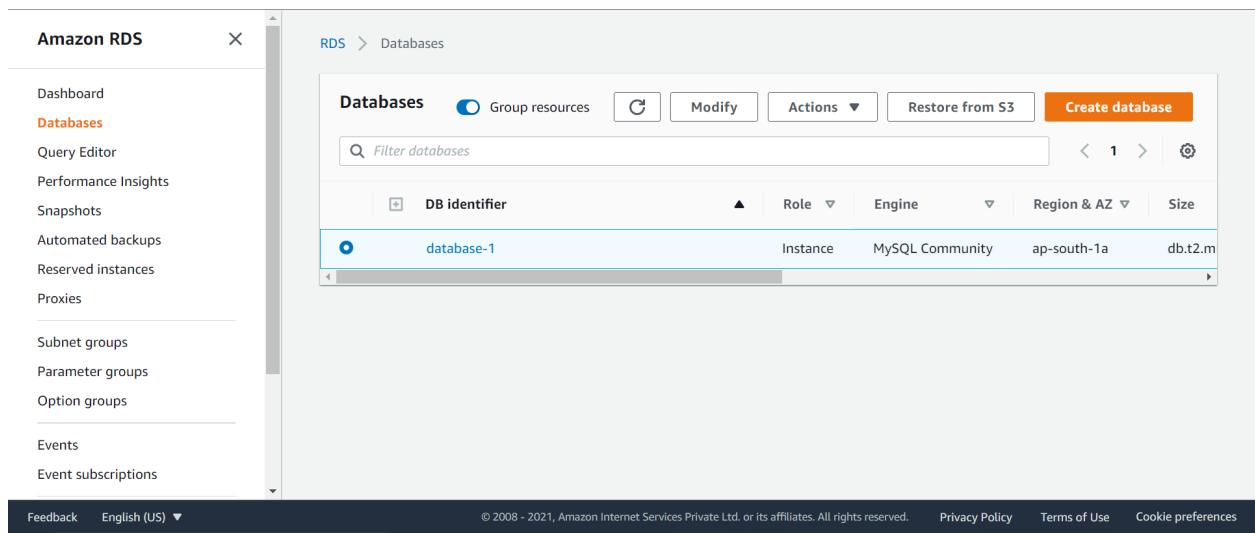
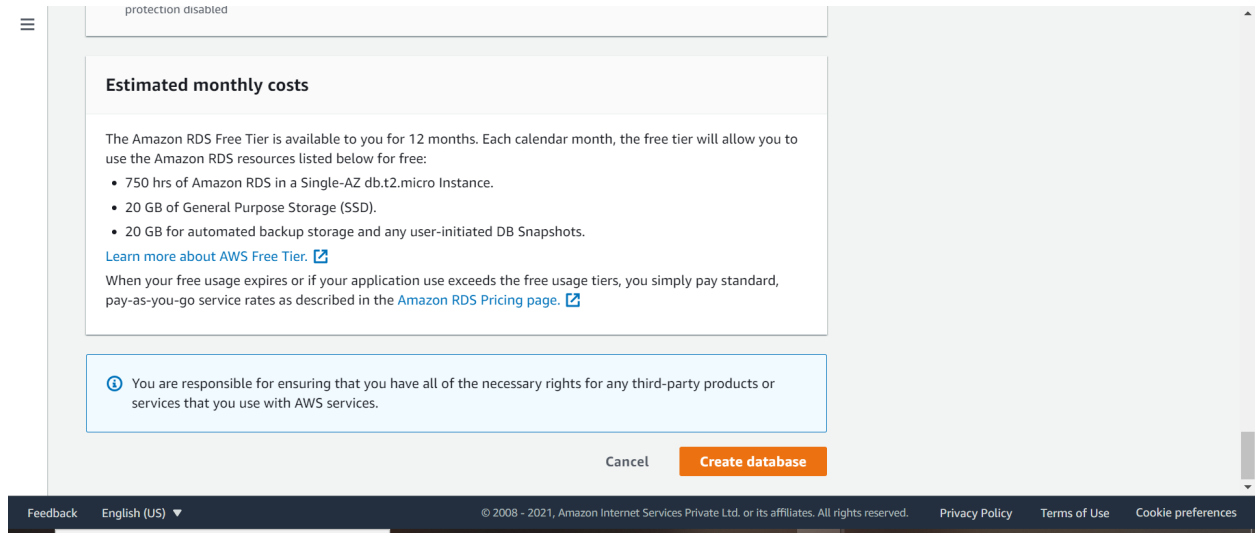
Availability Zone [Info](#)

ap-south-1a ▼

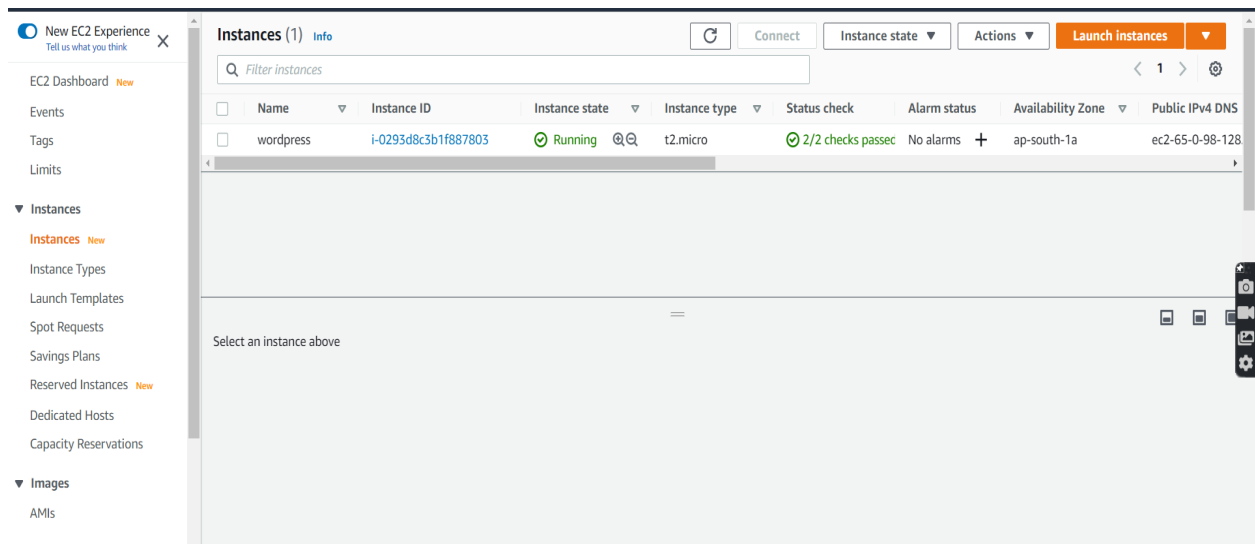
► **Additional configuration**

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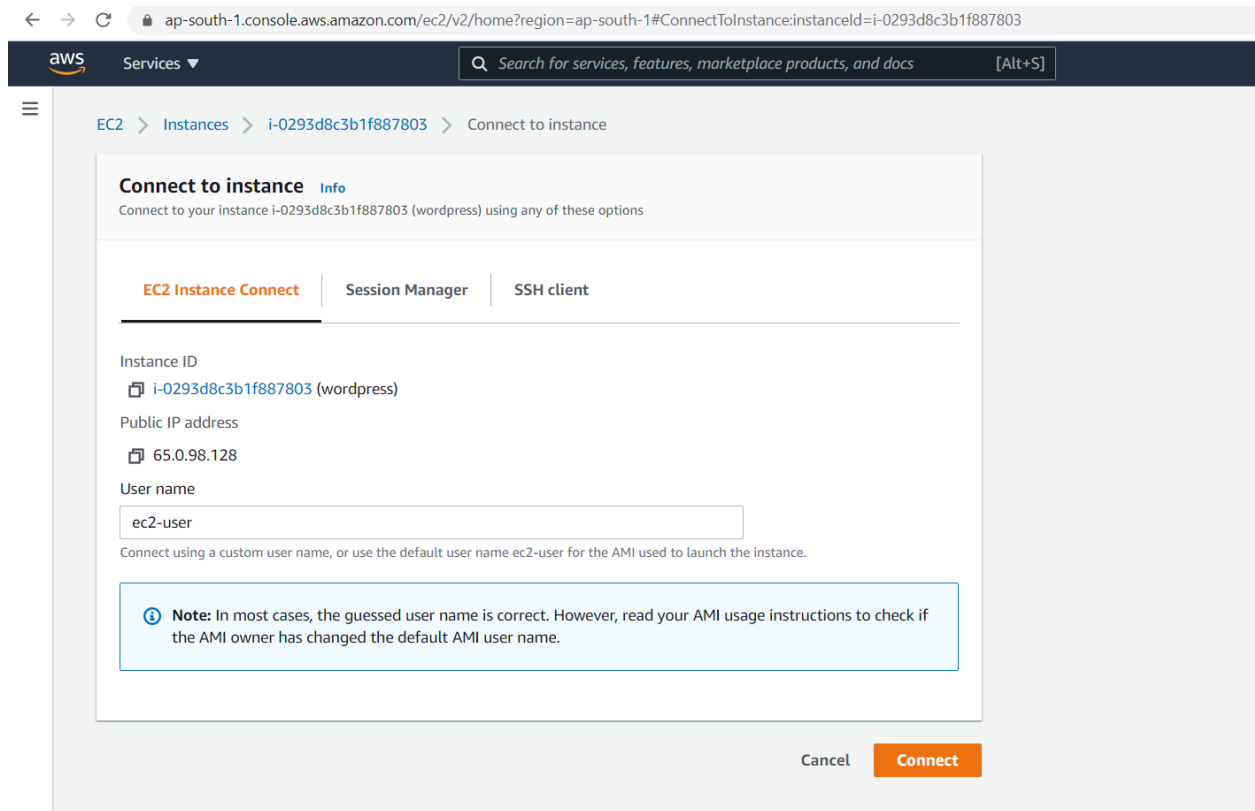
- Now click on create database.



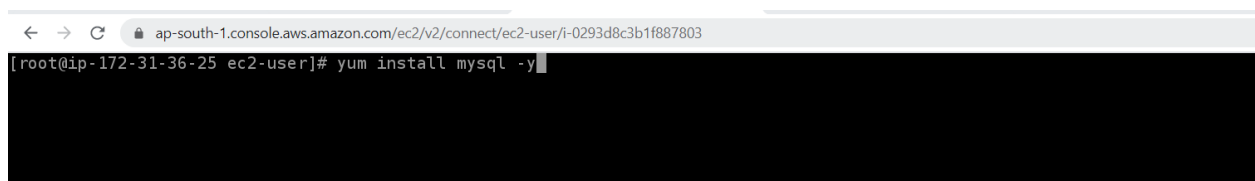
Step 2:- Launch an ec2 instance and configure WordPress.



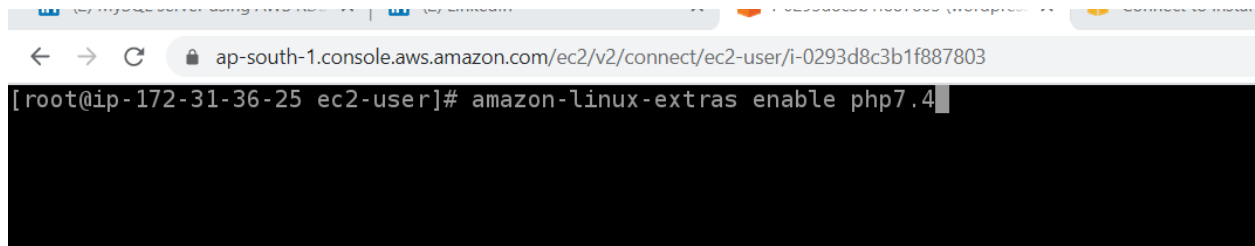
- **Select the instance and click on connect to connect to your ec2 instance.**



- run **"sudo su - root"** 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.
- **"yum install httpd -y"** and **"yum install mysql -y"** to install httpd and mysql.



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



The screenshot shows a web browser window with the address bar displaying 'ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0293d8c3b1f887803'. Below the browser window, a terminal window is open, showing a root prompt at 'ip-172-31-36-25 ec2-user'. The command 'amazon-linux-extras enable php7.4' has been entered and is highlighted with a cursor at the end.

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


```

29 golang1.11          available \
   [ =1.11.3 =1.11.11 =1.11.13 =stable ]
30 squid4              available [ =4 =stable ]
   php7.3              available \
   - [ =7.3.2 =7.3.3 =7.3.4 =7.3.6 =7.3.8 =7.3.9 =7.3.10
     =7.3.11 =7.3.13 =stable ]
32 lustre2.10          available \
   [ =2.10.5 =2.10.8 =stable ]
33 java-openjdk11      available [ =11 =stable ]
34 lynis               available [ =stable ]
35 kernel-ng           available [ =stable ]
36 BCC                 available [ =0.x =stable ]
37 mono                available [ =5.x =stable ]
38 nginx1              available [ =stable ]
39 ruby2.6             available [ =2.6 =stable ]
40 mock                available [ =stable ]
41 postgresql11        available [ =11 =stable ]
42 php7.4=latest        enabled [ =stable ]
43 livepatch           available [ =stable ]
44 python3.8           available [ =stable ]
45 haproxy2            available [ =stable ]
46 collectd            available [ =stable ]
47 aws-nitro-enclaves-cli available [ =stable ]
48 R4                  available [ =stable ]
49 kernel-5.4          available [ =stable ]
50 selinux-ng          available [ =stable ]
   php8.0              available [ =stable ]
52 tomcat9             available [ =stable ]
53 unbound1.13         available [ =stable ]
54 mariadb10.5         available [ =stable ]
55 kernel-5.10         available [ =stable ]

Now you can install:
# yum clean metadata
# yum install php-cli php-pdo php-fpm php-json php-mysqlnd
[root@ip-172-31-36-25 ec2-user]#

```

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

[See all of our recommended hosts](#)

Priceless, and also free

Download WordPress and use it on your site.

Download WordPress 5.7.2

[Download .tar.gz](#)

Installation

With our famous 5-minute installation, setting up WordPress for the first time is simple. We've created a [handy guide](#) to see you through the installation process.

Release notifications

Want to get notified about WordPress releases? Join the [WordPress Announcements mailing list](#) and we will send a friendly message whenever there is a new stable release.

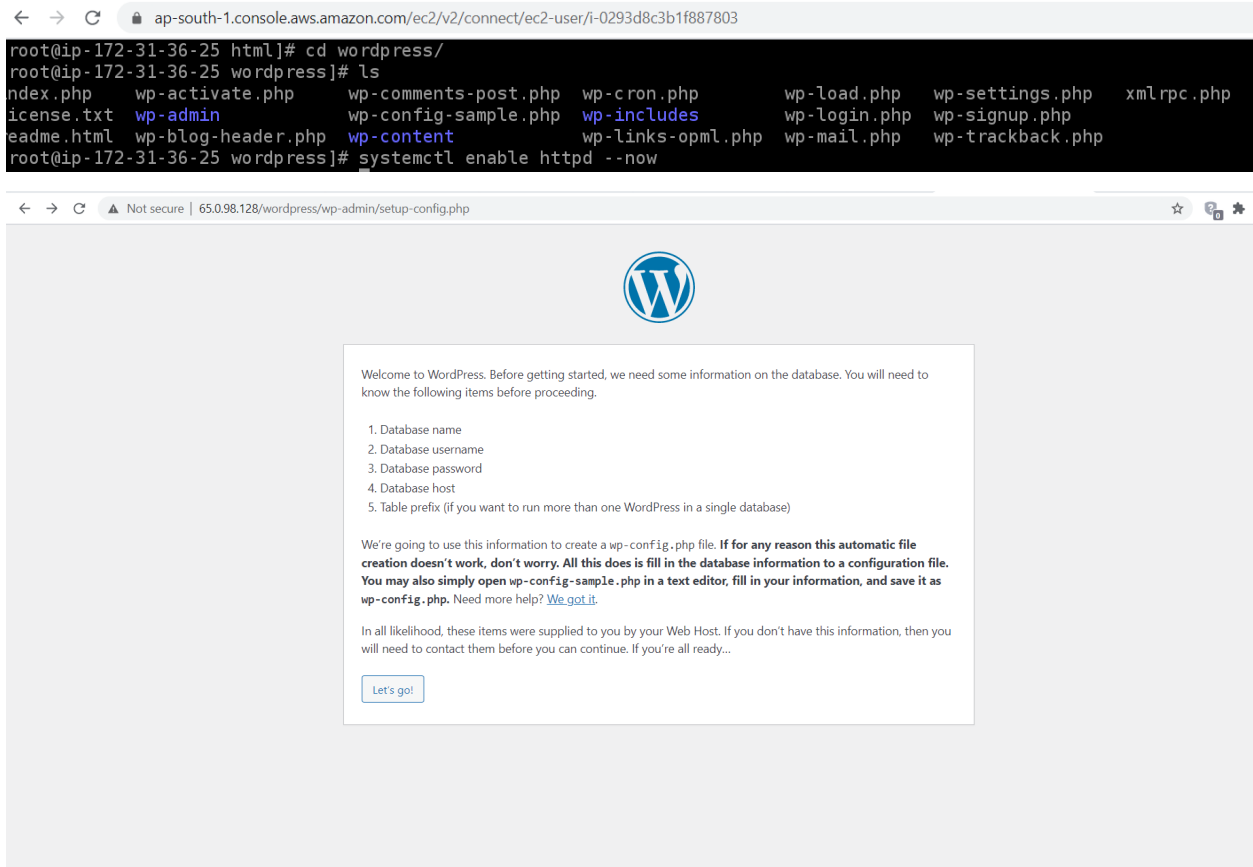
- go to the **"cd /var/www/html/"** folder.
- Run the **"wget https://wordpress.org/latest.tar.gz"** command to download the wordpress software.
- and **"tar -xf latest.tar.gz"** to unzip the Wordpress software.

```
[root@ip-172-31-36-25 ec2-user]# cd /var/www/html
[root@ip-172-31-36-25 html]#
[root@ip-172-31-36-25 html]# wget https://wordpress.org/latest.tar.gz
```

i-0293d8c3b1f887803 (wordpress)

Public IPs: 65.0.98.128 Private IPs: 172.31.36.25

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



Step 3 :- Check your RDS MySQL database connectivity.

- Copy your database endpoint

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.