

DEPLOYING WORDPRESS APPLICATION USING RDS

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WHAT IS WORDPRESS?

- WordPress is a popular open-source content management system (CMS) used for creating and managing websites and blogs.
- It provides a user-friendly interface and a wide range of customizable themes and plugins, making it accessible for both beginners and experienced web developers.
- It is built using PHP programming language and utilizes a MySQL or MariaDB database to store website content and settings

DOCKER:

- * Docker is an operating system for containers. Similar to how a virtual machine virtualizes (removes the need to directly manage) server hardware, containers virtualize the operating system of a server.

- * Docker is installed on each server and provides simple commands you can use to build, start, or stop containers.

DOCKER-COMPOSE:

- * Docker Compose is a tool that was developed to help define and share multi-container applications.

- * With Compose, we can create a YAML file to define the services and with a single command, can spin everything up or tear it all down.

CONNECTING TO RDS

- Create two instances , one is public instance and one is private instance.
- Public instance is for wordpress and private instance is for database.
- Now connect to public instance first.
- Then connect to private instance through public instance. This process is called bastian host
- Create an RDS with MySql engine.
- In private instance install MySql and connect to RDS after entering into MySql create a user and give all privileges to the user,by using the
- commands:
- `CREATE USER 'new_user'@'localhost' IDENTIFIED BY 'password';`
- `GRANT ALL PRIVILEGES ON *.* TO 'new_user'@'localhost';`
- After that exit from the MySql and also from private instance.

INSTALLATIONS

- Now in public instance install Wordpress and extract the tar files using following commands respectively:
- `wget https://wordpress.org/latest.tar.gz` and `tar -xvf latest.tar.gz`
- Now copy the `wp-config-sample.php` to `wp-config.php`
- Now install PHP using the command `sudo amazon-linux-extras | grep php`. And enable it by using command `sudo amazon-linux-extras enable php7.4`.
- Now install, enable and start MariaDB by using the following commands.
- `sudo yum -y install mariadb-server`
- `sudo systemctl enable mariadb`
- `sudo systemctl start mariadb`

- Now install, enable and start httpd by using following commands.
- Sudo yum -y install httpd.
- Sudo systemctl enable httpd.
- Sudo systemctl start httpd.
- Now copy all the wordpress files into root directory of httpd which is /var/www/html.
- After that restart httpd.

OUTPUT :

- Now browse the public ip of public instance and check the output. It will show the wordpress web page.

