Documentation

User Story 3: Create a script for user-data , Setup a Webserver

Description:

This script installs MariaDB, PHP, configures a WordPress database, downloads and configures WordPress.

Task 1: Create a file to store user-data script and name it user-data.sh

- Run this command to create and edit the file:
  nano user-data.sh

Task 2: Open the file and write the following script:

#! /bin/bash

#Setup Wordpress:

#This script installs MariaDB, PHP, configures a WordPress database, #downloads and #configures WordPress.

#Install MariaDB, PHP and necessary tools

sudo yum install -y httpd mariadb-server php php-mysqlnd unzip

#Start Apache service and enable it on system startup

sudo systemctl start httpd sudo systemctl enable httpd

#Start MariaDB service and enable it on system startup

#sudo systemctl start mariadb sudo systemctl enable mariadb

#Create WordPress database, user, and grant privileges

sudo mysql -e "CREATE DATABASE wordpress;"

sudo mysql -e "CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'wppassword';"

sudo mysql -e "GRANT ALL PRIVILEGES ON wordpress.* TO 'wpuser'@'localhost';"

sudo mysql -e "FLUSH PRIVILEGES;"

#Download, unzip, and configure WordPress in the webroot

cd /var/www/html sudo curl -LO https://wordpress.org/latest.zip

sudo unzip latest.zip sudo mv -f wordpress/* ./

#Copy the sample WordPress configuration file and update the database credentials

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

sudo sed -i 's/database_name_here/wordpress/' wp-config.php

sudo sed -i 's/username_here/wpuser/' wp-config.php

sudo sed -i 's/password_here/wppassword/' wp-config.php

#Enable PHP 8.0

sudo amazon-linux-extras enable php8.0

#Restart Apache service to apply changes

sudo service httpd restart

Task 3: Save the file

- To save the file after editing it with `nano`, follow these steps:

  1. Press `Ctrl + O` (the letter "O", not zero) to write the changes to the file.

  2. You'll be prompted to confirm the filename. Press `Enter` to confirm and save the file with the same name.

  3. Press `Ctrl + X` to exit `nano` and return to the terminal.

  After following these steps, your changes will be saved in the `user-data.sh` file.

Task 4: Add this command to your EC2 instance creation code:

```
user_data = file("user-data.sh")
```

In this way when the EC2 instance starts up, it will automatically run the user data script.