#!/bin/bash

#Logging activities

exec > >(tee /var/log/userdata.log) 2>&1

#Updating my system and installing all LAMP components

sudo yum update -y

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

sudo yum install -y httpd mariadb-server wget php-mbstring

#Starting Apache and MariaDB services and enabling them to start at boot

sudo systemctl start httpd

sudo systemctl enable httpd

sudo systemctl start mariadb

sudo systemctl enable mariadb

#Setting correct ownership and permissions for Apache

sudo usermod -a -G apache ec2-user

sudo chown -R ec2-user:apache /var/www

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

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

#Setting MySQL root password and securing MariaDB installation

sudo mysql -e "ALTER USER 'root'@'localhost' IDENTIFIED BY 'Stackinc@12';"

sudo mysql -e "FLUSH PRIVILEGES;"

sudo mysql -e "DELETE FROM mysql.user WHERE User='';"

sudo mysql -e "DROP DATABASE IF EXISTS test;"

sudo mysql -e "FLUSH PRIVILEGES;"

#Downloading and setting up phpMyAdmin

wget https://www.phpmyadmin.net/downloads/phpMyAdmin-latest-all-languages.tar.gz

mkdir /var/www/html/phpMyAdmin

tar -xvzf phpMyAdmin-latest-all-languages.tar.gz -C /var/www/html/phpMyAdmin --strip-components 1

rm phpMyAdmin-latest-all-languages.tar.gz

#Creating my WordPress database and user

sudo mysql -u root -pStackinc@12 <<EOF

CREATE DATABASE IF NOT EXISTS wordpress\_sam\_db;

CREATE USER IF NOT EXISTS 'wordpress-sam'@'localhost' IDENTIFIED BY 'Stackinc@12';

GRANT ALL PRIVILEGES ON wordpress\_sam\_db.\* TO 'wordpress-sam'@'localhost';

FLUSH PRIVILEGES;

EOF

#Downloading and configuring WordPress

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

tar -xzf latest.tar.gz

mkdir /var/www/html/blog

sudo cp wordpress/wp-config-sample.php /var/www/html/blog/wp-config.php

sudo rm latest.tar.gz

#Configuring my WordPress database details in wp-config.php

sudo sed -i "s/database\_name\_here/wordpress\_sam\_db/" /var/www/html/blog/wp-config.php

sudo sed -i "s/username\_here/wordpress-sam/" /var/www/html/blog/wp-config.php

sudo sed -i "s/password\_here/Stackinc@12/" /var/www/html/blog/wp-config.php

#Generate my unique WordPress salts and keys dynamically and inject them into wp-config.php

SALT=$(curl -s https://api.wordpress.org/secret-key/1.1/salt/)

sudo sed -i "/AUTH\_KEY/d" /var/www/html/blog/wp-config.php

sudo sed -i "/SECURE\_AUTH\_KEY/d" /var/www/html/blog/wp-config.php

sudo sed -i "/LOGGED\_IN\_KEY/d" /var/www/html/blog/wp-config.php

sudo sed -i "/NONCE\_KEY/d" /var/www/html/blog/wp-config.php

sudo sed -i "/AUTH\_SALT/d" /var/www/html/blog/wp-config.php

sudo sed -i "/SECURE\_AUTH\_SALT/d" /var/www/html/blog/wp-config.php

sudo sed -i "/LOGGED\_IN\_SALT/d" /var/www/html/blog/wp-config.php

sudo sed -i "/NONCE\_SALT/d" /var/www/html/blog/wp-config.php

echo "$SALT" | sudo tee -a /var/www/html/blog/wp-config.php > /dev/null

#Copying WordPress files to the blog directory

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

#Permitting WordPress to use permalinks

sudo sed -i 's/AllowOverride None/AllowOverride All/g' /etc/httpd/conf/httpd.conf

#Setting correct ownership and permissions for Apache

sudo chown -R apache:apache /var/www

sudo chmod -R 755 /var/www

sudo chmod g+s /var/www

#Restarting the Apache web server to pick up the new group and permissions

sudo systemctl restart httpd

#Installing WP-CLI for WordPress management

sudo curl -O https://raw.githubusercontent.com/wp-cli/builds/gh-pages/phar/wp-cli.phar

sudo chmod +x wp-cli.phar

sudo mv wp-cli.phar /usr/local/bin/wp

#Fetching my public IP from instance metadata

PUBLIC\_IP=$(curl -s http://checkip.amazonaws.com)

#Automatically setting up WordPress site with WP-CLI

wp core install --url="http://$PUBLIC\_IP/blog" --title="Samuel’s Victory Domain" --admin\_user="maestro5" --admin\_password="Stackinc@12" --admin\_email="samyfedyrob.sf@gmail.com" --path=/var/www/html/blog

#Reiterating permissions

cd /var/www/html

sudo find . -type d -exec chmod 0755 {} \;

sudo find . -type f -exec chmod 0644 {} \;

sudo chown -R ec2-user:apache .

sudo chmod -R g+w .

sudo chmod g+s .

#Installing and activating WordPress theme

wp theme install twentytwenty --activate

#Restarting Apache and MariaDB services to fully capture commands

sudo systemctl restart httpd

sudo systemctl restart mariadb