Deploy a Ecommerce website - LAMP stack application: (Linux, Apache, MariaDB, PHP)

To access the application code: github.com/kodekloudhub/learning-app-ecommerce

**1. Linux: Identify a system on which we will deploy this application – Linux CentOS**

**- Install Firewall:**

sudo yum install firewalld

sudo service firewalld starts

sudo systemctl enable firewalld

**2. MariaDB:**

**– Install MariaDB:** sudo yum install mariadb-server

**- Configure MariaDB:** sudo vi /etc/my.cnf #configure the file with the right port (my.cnf=conf file 4 sql)

**- Start MariaDB:** sudo service mariadb start

**- Enable MariaDB**: sudo systemctl enable mariadb

**- Configure firewall:**

*a. Add firewall rule to allow access to sql port 3306:*

sudo firewall-cmd --permanent --zone=public --add-port=3306/tcp

*b . Reload firewall to apply the rule:*

sudo firewall-cmd –reload

*c. Verify the firewall rules:*

sudo firewall-cmd --list-all

**- Configure database( connect to DB, create database, user, grant privileges, flush privileges):**

mysql

CREATE DATABASE ecomdb;

CREATE USER ’ecomuser’@’localhost’ IDENTIFIED BY ’ecompassword’;

GRANT ALL PRIVILEGES ON \*.\* TO ‚’ecomuser’@’localhost’;

FLUSH PRIVILEGES;

**- Load Data:**

mysql < db-load-script.sql (https://github.com/kodekloudhub/learning-app-ecommerce/blob/master/assets/db-load-script.sql)

**3&4. Apache and partially PHP:**

**- Install httpd and PHP:** sudo yum install –y httpd php php-mysqlnd

**- Configure firewall:**

*a. Add firewall rule to allow access to sql port 3306:*

sudo firewall-cmd --permanent --zone=public --add-port=80/tcp

*b . Reload firewall to apply the rule:*

sudo firewall-cmd --reload

**- Configure httpd: sudo vi /etc/httpd/conf/httpd.conf**

# we have to configure DirectoryIndex to use index.php instead of index.html (as our php cod is in index.php file)

sed –i ’s/index.html/index.php/g’ /etc/httpd/conf/httpd.conf

**- Start httpd service and enable it:**

sudo service httpd start

sudo systemctl enable httpd

**4. PHP – download all the source code for our application and configure it to work with apache and php:**

- Download code:

sudo yum install -y git

git clone [repo url] /var/ww/html/ #update index.php to use the right database address, name and credentials

- Test:

curl <http://localhost>

This example is deployed on a single node, however, in a real environment they would be set up on two different nodes, a node/Database Server for MariaDB and one node/Web Server for apache and php.

Most instructions are the same, the only difference is the configuration on the connectivity:

**- on the web server the index.php file must be modified with the ip address of the database server:**

$link = mysqli\_conect(’IP address’, ’user’, ’password, ’database;);

tot cu sed

**- on the database server, instead of localhost while configuring the user and access, we have to provide the ip address of the webserver.**

tot cu sed