# Course: DevOps

# Project: e-commerce application on Centos System

[**Introduction**](https://github.com/kodekloudhub/learning-app-ecommerce#introduction)

This is a sample e-commerce application built for learning purposes.

Here's how to deploy it on CentOS systems:

[**Deploy Pre-Requisites**](https://github.com/kodekloudhub/learning-app-ecommerce#deploy-pre-requisites)

1. Install FirewallD

*sudo yum install -y firewalld*

*sudo service firewalld start*

*sudo systemctl enable firewalld*

[**Deploy and Configure Database**](https://github.com/kodekloudhub/learning-app-ecommerce#deploy-and-configure-database)

1. Install MariaDB

sudo yum install -y mariadb-server

sudo vi /etc/my.cnf

sudo service mariadb start

sudo systemctl enable mariadb

1. Configure firewall for Database

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

sudo firewall-cmd --reload

1. Configure Database

$ mysql

MariaDB > CREATE DATABASE ecomdb;

MariaDB > CREATE USER 'ecomuser'@'localhost' IDENTIFIED BY 'ecompassword';

MariaDB > GRANT ALL PRIVILEGES ON \*.\* TO 'ecomuser'@'localhost';

MariaDB > FLUSH PRIVILEGES;

ON a multi-node setup remember to provide the IP address of the web server here: 'ecomuser'@'web-server-ip'

1. Load Product Inventory Information to database

Create the db-load-script.sql

cat > db-load-script.sql <<-EOF

USE ecomdb;

CREATE TABLE products (id mediumint(8) unsigned NOT NULL auto\_increment,Name varchar(255) default NULL,Price varchar(255) default NULL, ImageUrl varchar(255) default NULL,PRIMARY KEY (id)) AUTO\_INCREMENT=1;

INSERT INTO products (Name,Price,ImageUrl) VALUES ("Laptop","100","c-1.png"),("Drone","200","c-2.png"),("VR","300","c-3.png"),("Tablet","50","c-5.png"),("Watch","90","c-6.png"),("Phone Covers","20","c-7.png"),("Phone","80","c-8.png"),("Laptop","150","c-4.png");

EOF

Run sql script

mysql < db-load-script.sql

[**Deploy and Configure Web**](https://github.com/kodekloudhub/learning-app-ecommerce#deploy-and-configure-web)

1. Install required packages

sudo yum install -y httpd php php-mysql

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

sudo firewall-cmd --reload

1. Configure httpd

Change DirectoryIndex index.html to DirectoryIndex index.php to make the php page the default page

sudo sed -i 's/index.html/index.php/g' /etc/httpd/conf/httpd.conf

1. Start httpd

sudo service httpd start

sudo systemctl enable httpd

1. Download code

sudo yum install -y git

git clone https://github.com/kodekloudhub/learning-app-ecommerce.git /var/www/html/

1. Update index.php

Update [index.php](https://github.com/kodekloudhub/learning-app-ecommerce/blob/13b6e9ddc867eff30368c7e4f013164a85e2dccb/index.php" \l "L107) file to connect to the right database server. In this case localhost since the database is on the same server.

sudo sed -i 's/172.20.1.101/localhost/g' /var/www/html/index.php

<?php

$link = mysqli\_connect('172.20.1.101', 'ecomuser', 'ecompassword', 'ecomdb');

if ($link) {

$res = mysqli\_query($link, "select \* from products;");

while ($row = mysqli\_fetch\_assoc($res)) { ?>

ON a multi-node setup remember to provide the IP address of the database server here.

sudo sed -i 's/172.20.1.101/localhost/g' /var/www/html/index.php

1. Test

curl http://localhost