





# Commands

	Install Firewall	<pre>\$ sudo yum install firewallld \$ sudo service firewallld start \$ sudo systemctl enable firewallld</pre>
	Install MariaDB	<pre>\$ sudo yum install mariadb-server</pre>
	Configure MariaDB	<pre>\$ sudo vi /etc/my.cnf # configure the file with the right port</pre>
	Start MariaDB	<pre>\$ sudo service mariadb start \$ sudo systemctl enable mariadb</pre>
	Configure Firewall	<pre>\$ sudo firewall-cmd --permanent --zone=public --add-port=3306/tcp \$ sudo firewall-cmd --reload</pre>
	Configure Database	<pre>\$ mysql MariaDB &gt; CREATE DATABASE ecomdb; MariaDB &gt; CREATE USER 'ecomuser'@'localhost' IDENTIFIED BY 'ecompassword'; MariaDB &gt; GRANT ALL PRIVILEGES ON *.* TO 'ecomuser'@'localhost'; MariaDB &gt; FLUSH PRIVILEGES;</pre>
	Load Data	<pre>\$ mysql &lt; db-load-script.sql</pre>

	Install httpd	<pre>\$ sudo yum install -y httpd php php-mysql</pre>
	Install php	
	Configure Firewall	<pre>\$ sudo firewall-cmd --permanent --zone=public --add-port=80/tcp \$ sudo firewall-cmd --reload</pre>
	Configure httpd	<pre>\$ sudo vi /etc/httpd/conf/httpd.conf # # configure DirectoryIndex to use index.php instead of index.html</pre>
	Start httpd	<pre>\$ sudo service httpd start \$ sudo systemctl enable httpd</pre>
	Download Code	<pre>\$ sudo yum install -y git \$ git clone https://github.com/&lt;application&gt;.git /var/www/html/ # Update index.php to use the right database address, name and credentials</pre>
	Test	<pre>\$ curl http://localhost</pre>

# Scenario

## Deployment Model- Single Node



## Deployment Model- Multi Node

172.20.1.101



172.20.1.102



MariaDB



```
$ mysql
MariaDB > CREATE DATABASE ecomdb;
MariaDB > CREATE USER 'ecomuser'@'172.20.1.102' IDENTIFIED BY 'ecompassword';
MariaDB > GRANT ALL PRIVILEGES ON *.* TO 'ecomuser'@'172.20.1.102';
MariaDB > FLUSH PRIVILEGES;
```

<?php

```
$link = mysqli_connect('172.20.1.101', 'ecomuser', 'ecompassword');

if ($link) {
    $res = mysqli_query($link, "select * from products;");
    while ($row = mysqli_fetch_assoc($res)) { ?>
```