

# How to Install Magento 2 on AlmaLinux

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Magento is a free and open source e-commerce platform written in PHP. It is simple, easy to use, customizable, and allows you to host your online store within minutes. You can host multiple stores on a single server and manage them using a single interface. Magento is one of the most widely used e-commerce platforms in the world due to its many features.

This article will show you how to install Magento 2 with Apache and Let's Encrypt SSL on AlmaLinux.

## Prerequisites

1. A server running AlmaLinux.
2. A root password is configured on the server.

## Install Apache, MariaDB and PHP

Magento uses MariaDB as database and runs on web server . So first install Apache web server and MariaDB server package with following command:

```
dnf install httpd mariadb-server -y
```

After installing both packages, start the Apache and MariaDB services, enabling them to start on system reboot:

```
systemctl start httpd mariadb systemctl enable httpd mariadb
```

Next, you will need to install PHP and other required extensions on your server. By default, the latest version of PHP is not included in the AlmaLinux default repositories. Therefore, you will need to add the EPEL and Remi PHP repositories to your system. You can install both with the following command:

```
rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```

Next, reset the default PHP repository and enable the PHP7.4 repository using the following command:

```
dnf module reset php dnf module install php:remi-7.4
```

Next, install PHP with all the necessary extensions using the following command:

```
dnf install php php-cli php-soap php-pdo php-bcmath php-mysqlnd php-opcache php-
```

After installation, edit the `php.ini` file and make some recommended changes:

```
nano /etc/php.ini
```

Change the following values:

```
memory_limit = 1024M upload_max_filesize = 200M zlib.output_compression = On max_
```

Save and close the file when you are finished.

## Create database for Magento

First, secure your MariaDB installation and set the MariaDB root password using the following command:

```
mysql_secure_installation
```

Answer all the questions as shown below:

```
Enter current password for root (enter for none): Set root password? [Y/n] Y New
```

Once done, log in to MariaDB using the following command:

```
mysql -u root -p
```

After logging in, create a database and user for Magento using the following command:

```
MariaDB [(none)]> CREATE DATABASE magento2; MariaDB [(none)]> GRANT ALL ON magento2
```

Next, flush privileges and exit MariaDB with the following command:

```
MariaDB [(none)]> flush privileges; MariaDB [(none)]> exit;
```

## Download Magento 2

Before downloading Magento 2, you will need to install Composer on your system.

Run the following command to install Composer:

```
curl -sS https://getcomposer.org/installer | php
```

You will see the following result:

```
All settings correct for using Composer Downloading. Composer (version 2.1.3) su
```

Next, move the Composer binary file to the system location using the following command:

```
mv composer.phar /usr/local/bin/composer
```

Next, verify the Composer version:

```
composer --version
```

Output:

```
Composer version 2.1.3 2021-06-09 16:31:20
```

```
Next, change the directory to Apache webroot  
cd /var/www/html/ wget https://github.com/magento/magento2/archive/2.3.zip
```

Once Magento 2 is downloaded, extract the downloaded file using the following command:

```
unzip 2.3.zip
```

Next, rename the extracted folder to magento2:

```
mv magento2-2.3 magento2
```

Next, change directory to magento2 and update composer using the following command:

```
cd magento2 composer update composer install
```

Next, create a cron job for Magento:

```
./bin/magento cron:install
```

Next, list all cron jobs for Magento using the following command:

```
crontab -l
```

You will see the following result:

```
#~ MAGENTO START f73db5f5dcf223372d4c9fab56bef0c1730eece898fad5cbee0c313b46b0dd1
```

Next, set proper permissions and ownership for the magento2 directory:

```
chown -R apache:apache /var/www/html/magento2 chmod -R 755 /var/www/html/magento2
```

## Apache Configuration for Magento 2

Next, you will need to create an Apache virtual host configuration file for Magento 2. You can create this file using the following command:

```
nano /etc/httpd/conf.d/magento.conf
```

Add the following lines:

```
ServerAdmin admin@example.com ServerName magento.example.com DocumentRoot /var/www/html/magento2
```

Save and close the file, then restart the Apache service to apply the configuration changes:

```
systemctl restart httpd
```

You can check Apache status with the following command:

```
systemctl status httpd
```

You will get the following result:

```
? httpd.service - The Apache HTTP Server Loaded: loaded (/usr/lib/systemd/systemd/systemd)
```

## Firewall Configuration

Next, you will need to allow ports 80 and 443 through the firewall . You can allow them with the following command:

```
firewall-cmd --permanent --add-service=http firewall-cmd --permanent --add-service=https
```

Next, reload the firewall service to apply the changes:

```
firewall-cmd --reload
```

## Install Magento 2

Next, you will need to perform the Magento 2 installation from the command line interface. Since the Magento web installation wizard has been removed since version 2.3.7.

Change directory to Magento2 and run the following command to complete the installation:

```
cd /var/www/html/magento2/ bin/magento setup:install --admin-firstname="Hitesh" --admin-lastname="Sharma"
```

After successful installation, you will get the following result:

```
[Progress: 701 / 706] Installing admin user. [Progress: 702 / 706] Caches clearing
```

## Access Magento 2 web UI

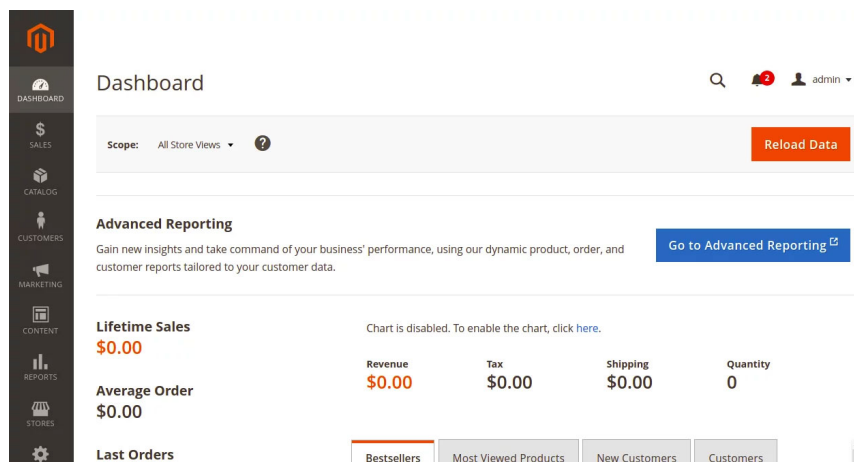
Now, you can access the Magento 2 web UI using the URL [http://magento.example.com/admin\\_j6pqhm](http://magento.example.com/admin_j6pqhm). If you encounter any exception errors on the web browser, you will need to run the following command to resolve the issue:

```
cd /var/www/html/magento2 php bin/magento setup:upgrade php bin/magento setup:di
```

Now, refresh the Magento website. You should see the Magento login page:



Provide admin username, password and click **Sign in** button . You will see Magento dashboard on the following page:



## Secure Magento2 with Let's Encrypt SSL

Next, you will need to install the Certbot client to install Let's Encrypt SSL for Magento. You can install it with the following command:

```
dnf install epel-release -y dnf install letsencrypt python3-certbot-apache
```

Next, get and install the SSL certificate for your lets domain using the following command:

```
certbot --apache -d magento.example.com
```

You will be asked to provide an email address and accept the terms of service:

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log Plugins selected: Authen
```

Once your website is secured with Let's Encrypt SSL. You can proceed to the next step.

That's it! You have successfully installed Magento 2 with apache and Let's Encrypt SSL on AlmaLinux 8. Now, you can create your own online store from the Magento dashboard.

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