

Apache - Setup Magento2

This is to install Magento2 on a RedHat 9 RHEL server

Follow these instructions [HERE](#) but do not go past the MariaDB installation section of the document.

Once installed then continue with the following:

```
# Install MySQL
sudo dnf install -y mariadb-server mariadb

# Install PHP 8.3 via Remi with Magento-required extensions
sudo dnf install -y https://rpms.remirepo.net/enterprise/remi-release-9.rpm
sudo dnf module reset php -y
sudo dnf module enable php:remi-8.2 -y

# Core stack + almost all required extensions
sudo dnf install -y \
    httpd mod_ssl php php-cli php-pear php-devel php-gmp php-imagick php-redis php-memcached php-mysqli \
    php php-fpm php-mysqlnd php-opcache php-gd php-intl php-mbstring php-bcmath php-json php-iconv php-
soap php-curl \
    php-zip php-xml php-sodium php-dom php-simplexml php-xmlwriter php-xsl php-sockets php-ctype php-fileinfo
php-filter \
    php-hash php openssl php-pcre php-pdo php-spl php-tokenizer php-zlib php-exif php-gettext php-bz2 php-
calendar php-libxml

# Install Elasticsearch (required by Magento 2.4+)
sudo rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch
sudo tee /etc/yum.repos.d/elasticsearch.repo << 'REPO'
[elasticsearch]
name=Elasticsearch repository
baseurl=https://artifacts.elastic.co/packages/7.x/yum
gpgcheck=1
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch
enabled=1
REPO
```

```
sudo dnf install -y elasticsearch
```

```
# Configure MySQL
```

```
sudo systemctl enable --now mariadb
```

```
sudo mysql 'SQL'
```

```
CREATE DATABASE magento CHARACTER SET utf8mb4;
```

```
CREATE USER 'magento'@'localhost' IDENTIFIED BY 'MagentoPass456!';
```

```
CREATE USER 'magento'@'%' IDENTIFIED BY 'MagentoPass456!';
```

```
GRANT ALL PRIVILEGES ON magento.* TO 'magento'@'localhost';
```

```
GRANT ALL PRIVILEGES ON magento.* TO 'magento'@'%';
```

```
FLUSH PRIVILEGES;
```

```
SQL
```

```
# Configure Elasticsearch
```

```
sudo systemctl enable --now elasticsearch
```

```
# Verify Elasticsearch is running
```

```
curl -s http://localhost:9200
```

```
# Tune PHP for Magento
```

```
sudo tee /etc/php.d/99-magento.ini << 'PHP'
```

```
memory_limit = 4G
```

```
max_execution_time = 180
```

```
max_input_time = 180
```

```
post_max_size = 128M
```

```
upload_max_filesize = 128M
```

```
date.timezone = America/New_York
```

```
opcache.enable=1
```

```
opcache.memory_consumption=512
```

```
opcache.interned_strings_buffer=24
```

```
opcache.max_accelerated_files=20000
```

```
opcache.revalidate_freq=0
```

```
PHP
```

```
# Install Composer if not already present
```

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
```

```
php composer-setup.php --install-dir=/usr/local/bin --filename=composer
```

```
# Create the Magento project
```

```
# You will need Magento authentication keys from marketplace.magento.com
```

```
cd /var/www/html
```

```
sudo composer create-project --repository-url=https://repo.magento.com/ \  
magento/project-community-edition magento2
```

```
# Set file permissions
```

```
sudo chown -R apache:apache /var/www/html/magento2
```

```
find /var/www/html/magento2 -type d -exec chmod 755 {} \;
```

```
find /var/www/html/magento2 -type f -exec chmod 644 {} \;
```

```
sudo chmod -R 775 /var/www/html/magento2/{var,generated,pub/static,pub/media,app/etc}
```

```
sudo chmod 755 /var/www/html/magento
```

```
# Install Magento 2
```

```
cd /var/www/html/magento2
```

```
bin/magento setup:install \
```

```
--base-url=http://www.houseestatesales.com/ \
```

```
--db-host=localhost \
```

```
--db-name=magento \
```

```
--db-user=magento \
```

```
--db-password='MagentoPass456!' \
```

```
--admin-firstname=Admin \
```

```
--admin-lastname=User \
```

```
--admin-email=steve.ling@sflservicesllc.com \
```

```
--admin-user=admin \
```

```
--admin-password='Admin456!' \
```

```
--language=en_US \
```

```
--currency=USD \
```

```
--timezone=America/New_York \
```

```
--use-rewrites=1 \
```

```
--search-engine=elasticsearch8
```

```
# After install → set production mode & compile
```

```
bin/magento deploy:mode:set production
```

```
bin/magento setup:di:compile
```

```
bin/magento setup:static-content:deploy -f
```

```
bin/magento cache:clean
```

```
# Configure Apache Site
```

```
sudo tee /etc/httpd/conf.d/magento.conf << 'APACHE'
```

```
<VirtualHost *:80>
```

ServerName www.houseestatesales.com

ServerAlias houseestatesales.com

DocumentRoot /var/www/html/magento2

<Directory "/var/www/html/magento2">

Options -Indexes +FollowSymLinks

AllowOverride All

Require all granted

</Directory>

Magento performance recommendations

<IfModule mod_expires.c>

ExpiresActive On

ExpiresDefault "access plus 1 year"

</IfModule>

ErrorLog /var/log/httpd/magento_error.log

CustomLog /var/log/httpd/magento_access.log combined

</VirtualHost>

APACHE

Enable-Start Apache

sudo systemctl enable --now httpd

sudo systemctl status httpd

Revision #8

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