

1. Install Ubuntu on Windows Store

- a. Search Ubuntu on the Windows Store and install. "Turn Windows features on or off" in the Windows search bar and ensure that "Windows Subsystem for Linux" is turned on before restarting your machine.
- b. Check this link if any error -
<https://www.how2shout.com/how-to/solve-wslregisterdistribution-failed-with-error-0x800701bc.html>

2. Install Apache

- a. `sudo apt update`
- b. `sudo apt install apache2`
- c. `sudo ufw app list`
- d. `sudo ufw app info "Apache Full"`
- e. `sudo ufw allow "Apache Full"`

3. Start Apache

- a. `/etc/init.d/apache2 start`
- b. `ip addr show eth0 | grep inet | awk '{ print $2; }' | sed 's/\/.*$//'` ⇒ This will give your server ip
- c. Check if apache is running ⇒ http://your_server_ip

4. Check System Requirements of Magento

- a. <https://devdocs.magento.com/guides/v2.4/install-gde/system-requirements.html>

5. Install MySQL

- a. `sudo apt install mysql-server`

6. Start Mysql

- a. `sudo /etc/init.d/mysql start`
- b. `sudo mysql`
- c. `create database magento243;`
- d. `show databases;`

- e. `CREATE USER username@localhost IDENTIFIED BY 'userpassword';`
- f. `GRANT ALL PRIVILEGES ON magento243.* TO username@localhost;`
- g. `FLUSH PRIVILEGES;`
- h. `exit`
- i. Check with your mysql user for DB access \Rightarrow `mysql -u username -p -h 127.0.0.1`
- j. `show databases;`
- k. `exit`

7. Install PHP 7.4

- a. `sudo add-apt-repository ppa:ondrej/php`
- b. `sudo apt-get update`
- c. `sudo apt install php7.4`
- d. `sudo apt install php7.4 php7.4-gd php7.4-intl php7.4 php7.4-pdo php7.4-mysqlnd php7.4-opcache php7.4-xml php7.4-mysql php7.4-mbstring php7.4-bcmath php7.4-json php7.4-iconv php7.4-curl php7.4-dom php7.4-zip zip unzip -y`
- e. `sudo apt-get install php7.4-soap`
- f. `sudo a2enmod php7.4`
- g. `sudo service apache2 restart`
- h. `php -v`

8. Install Elasticsearch (I have installed v7.6)

- a. `apt-get -y update`
- b. `apt-get install -y openjdk-8-jdk`
- c. `wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-7.6.0-amd64.deb`
- d. `wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-7.6.0-amd64.deb.sha512`

- e. `shasum -a 512 -c elasticsearch-7.6.0-amd64.deb.sha512`
- f. `sudo dpkg -i elasticsearch-7.6.0-amd64.deb`
- g. `/etc/init.d/elasticsearch start`
- h. Check \Rightarrow `http://localhost:9200`

9. Install Magento 2.3.4

- a. Change from current user to root user \Rightarrow `sudo -s`
- b. Go to directory \Rightarrow `cd /var/www/html/`
- c. Create directory \Rightarrow `mkdir magento243`
- d. `sudo composer create-project`
`--repository-url=https://repo.magento.com/`
`magento/project-community-edition=2.4.3-p2 magento243/`
`--no-secure-http`
- e. It will ask for keys. Go to -
<https://marketplace.magento.com/customer/accessKeys/>
- f. Copy the public and private keys and continue installation
- g. Install composer if required \Rightarrow `sudo apt install composer`
- h. `sudo nano /etc/apache2/ports.conf` \Rightarrow Change port 80 to 8080
- i. `Sudo nano /etc/apache2/apache2.conf` and do the below change
`<Directory /var/www/>`
 Options Indexes FollowSymLinks
 AllowOverride All
 Require all granted
`</Directory>`
- j. `sudo /etc/init.d/elasticsearch start`
- k. `sudo /etc/init.d/apache2 start`
- l. `sudo /etc/init.d/mysql start`
- m. When completed go to magento243 directory \Rightarrow `cd magento243`
- n. `sudo php bin/magento setup:install`
`--base-url=http://localhost:8080/magento243/`

- base-url-secure="https://localhost:8080/magento243/"
- db-host=localhost --db-name=magento243
- db-user=username --db-password=userpassword
- admin-firstname=admin --admin-lastname=admin
- admin-email=admin@admin.com --admin-user=admin
- admin-password=abcd.1234 --backend-frontname=admin
- language=en_US --currency=USD
- timezone=America/Chicago
- search-engine=elasticsearch7
- elasticsearch-host=localhost --elasticsearch-port=9200
- o. `chmod -R 777 var/ vendor/ pub/ generated/ app/`
- p. `php bin/magento indexer:reindex`
- q. `php bin/magento cache:clean`
- r. `php bin/magento setup:static-content:deploy -f`
- s. `chmod -R 777 var/ pub/ vendor/ generated/ app/`
- t. Make the changes in Root folder .htaccess ⇒
 RewriteEngine on
 RewriteCond %{REQUEST_URI} !^pub/
 RewriteCond %{REQUEST_URI} !^/setup/
 RewriteCond %{REQUEST_URI} !^/update/
 RewriteCond %{REQUEST_URI} !^/dev/
 RewriteRule .* pub/\$0 [L]
 DirectoryIndex index.php
- u. Add the following in pub folder .htaccess file inside
 <IfModule mod_rewrite.c> tag ⇒
 RewriteCond %{HTTP_HOST} ^localhost:8080\$
 RewriteCond %{REQUEST_URI} !^/magento243/pub/
 RewriteCond %{REQUEST_FILENAME} !-f
 RewriteCond %{REQUEST_FILENAME} !-d
 RewriteRule ^(.*)\$ /magento243/pub/\$1
 RewriteCond %{HTTP_HOST} ^localhost:8080\$
 RewriteRule ^(/)?\$ magento243/pub/index.php [L]

- v. `sudo a2enmod rewrite`
- w. `/etc/init.d/elasticsearch start`
- x. `/etc/init.d/apache2 start`
- y. `/etc/init.d/mysql start`
- z. Check ⇒ `http://localhost:8080/magento243/index.php/`

