## **Magento Installation Report**

*Magento* is a free e-commerce platform that helps businesses build and run online stores Magento uses PHP and a MySQL database, which are common technologies for creating online shops. This makes it a popular choice for businesses that want to sell things on the internet.

For installing magento these are some prerequisites need to follow:

* SQL
* Apache
* Elastic search
* Composer

**Step 1: Install Apache2**

1. **Update the local package index by running following command;**

sudo apt update

1. **Install Apache2:**

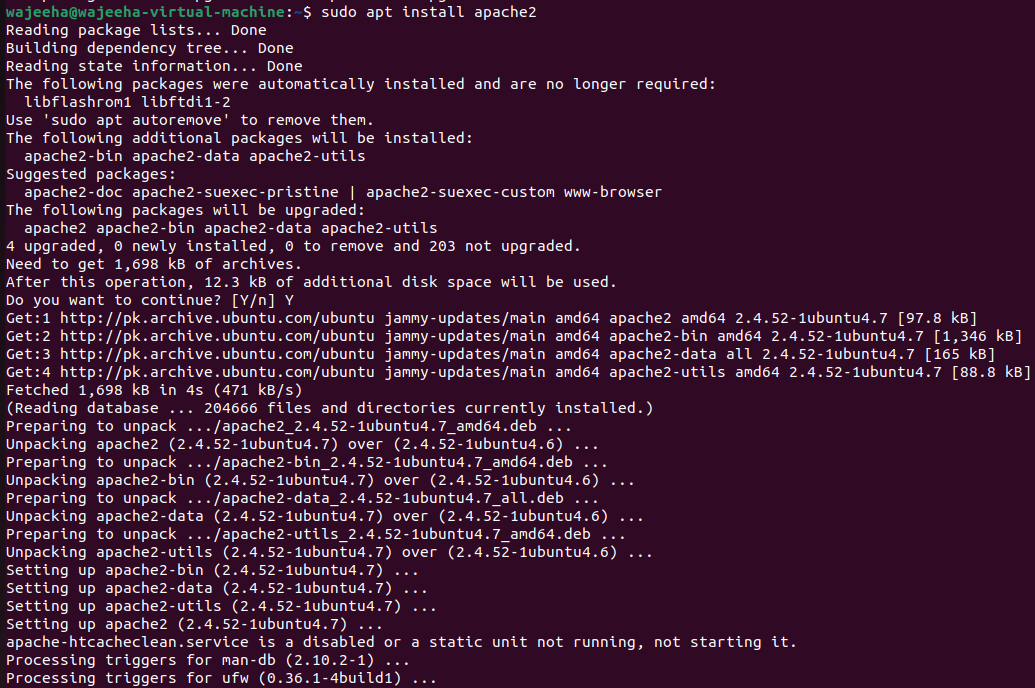
sudo apt install apache2

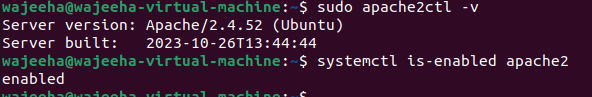
1. **Verify the installed Apache version:**

sudo apache2ctl -v

1. **Enable Apache2 to start automatically:**

systemctl is-enabled apache2





**Step 2: Install MySQL and Create Database for Magento2**

1. **Install MySQL:**

sudo apt install mysql-server

1. **Secure MySQL installation:**

sudo mysql\_secure\_installation

1. **Configure password access for the MySQL root account.**

|  |  |
| --- | --- |
|  | * sudo mysql * SELECT user,authentication\_string,plugin,host FROM mysql.user; |

* ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'MySQL@#12345';

1. **Create a new MySQL user for Magento 2.**

* mysql -u root -p
* CREATE USER 'magento2'@'localhost' IDENTIFIED BY 'MySQL@#12345';
* ALTER USER 'magento2'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'MySQL@#12345';

1. **Grant all privileges to the Magento 2 user.**

GRANT ALL PRIVILEGES ON \*.\* TO 'magento2'@'localhost' WITH GRANT OPTION;

1. **Create the Magento 2 database.**

* mysql -u magento2 -p
* CREATE DATABASE magento2;

**Step 3: Install PHP and Required Extensions**

1. **Update repositories:**

sudo apt update

1. **Install PHP 7.4 and necessary packages:**

sudo apt install php7.4 libapache2-mod-php php-mysql

1. **Install PHP modules required for Magento 2.4.**

|  |  |
| --- | --- |
| sudo apt install php7.4-bcmath php7.4-intl php7.4-soap php7.4-zip php7.4-gd php7.4-json  php7.4-curl php7.4-cli php7.4-xml php7.4-xmlrpc php7.4-gmp php7.4-common  **To reload apacahe:**  sudo systemctl reload apache2 |  |

**Step 4: Install and Configure Elasticsearch**

1. **Install OpenJDK 17 (Java).**

sudo apt install openjdk-17-jdk

1. **Import the GPG key for Elasticsearch packages.**

* sudo apt install curl
* sudo curl -sSfL https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo gpg --no-default-keyring --keyring=gnupg-ring:/etc/apt/trusted.gpg.d/magento.gpg –import

1. **Add the Elasticsearch repository to the system.**

* sudo sh -c 'echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" > /etc/apt/sources.list.d/elastic-7.x.list'

1. **Update the package and install Elasticsearch.**

* sudo apt update
* sudo apt install elasticsearch

1. **Start and enable the Elasticsearch service.**

sudo systemctl daemon-reload

1. **Configure Elasticsearch settings in elasticsearch.yml.**

* sudo nano /etc/elasticsearch/elasticsearch.yml

1. **Test Elasticsearch using curl.**

sudo systemctl start elasticsearch.service

**Step 5: Install Composer**

1. **Download the Composer installer.**

* curl -sS https://getcomposer.org/installer -o composer-setup.php
* sudo php composer-setup.php --install-dir=/usr/bin --filename=composer composer.

**Step 6: Download and Install Magento 2**

1. **Change to the Magento 2 install directory.**

Go to html folder by running this command

**cd /var/www/html**

1. **Create a new Composer project for Magento 2.4.**

sudo composer create-project --repository-url=https://repo.magento.com/ magento/project-community-edition=2.4.3 magento2

1. **Use Magento Marketplace access keys for authentication.**
2. **Download Magento 2 using Composer.**

php bin/magento setup:install --base-url=http://manal.magento.com --db-host=localhost --db-name=magento2 --db-user=magento2 --db-password=@123456 --admin-firstname=Admin --admin-lastname=Admin --admin-email=admin@admin.com --admin-user=admin --admin-password=Admin@123456 --language=en\_US --currency=USD --timezone=America/Chicago --backend-frontname=admin --search-engine=elasticsearch7 --elasticsearch-host=localhost --elasticsearch-port=9200

1. **Set file permissions for Magento 2.**

* sudo find var generated vendor pub/static pub/media app/etc -type f -exec chmod g+w {} +
* sudo find var generated vendor pub/static pub/media app/etc -type d -exec chmod g+ws {} +
* sudo chown -R user\_name:www-data .
* sudo chmod u+x bin/magento

**ERRORS:**

