**Magneto 2 Development Environment Setup**

**Step No. 1 Create a vagrant box for Ubuntu**

**Step No. 2 Install Apache2 with following command**

2.1 sudo apt-get install apache2

To check apache2 version use following command

2.2 enable the rewrite mode by running following command

sudo a2enmod rewrite

then open /etc/apache2/apache2.ini file and edit the /var/www

directory, change

AllowOverride All

2.3 apache2 –v

To check apache is working

2.4 sudo service apache2 status it should be in running state

create a file with name phpinfo.php in place in /var/www/html folder in Ubuntu and write following code in it

<?php phpinfo(); ?>

and then open browser and type 127.0.0.1/phpinfo.php. should show php information

**Step No. 3 Install PHP version 7.1.x by running the following commands**

3.1 sudo apt-get install software-properties-common

sudo add-apt-repository ppa:ondrej/php

sudo apt-get update

sudo apt-get install php7.1

3.2 Run the following command to install, required PHP module

sudo apt install php7.1 libapache2-mod-php7.1 php7.1-common php7.1-gmp php7.1-curl php7.1-soap php7.1-bcmath php7.1-intl php7.1-mbstring php7.1-xmlrpc php7.1-mcrypt php7.1-mysql php7.1-gd php7.1-xml php7.1-cli php7.1-zip

3.3 install mod rewrite

sudo a2enmod rewrite

then open /etc/apache2/apache2.ini file and edit the /var/www

directory, change

AllowOverride All

3.4 Run the following command to setup locale

locale-gen en\_US.UTF-8

export LANG=en\_US.UTF-8

export LC\_ALL=en\_US.UTF-8

3.5 To search for specific PHP module

sudo apt-cache search module\_name

sudo apt-cache search php7.1-intl

3.5 to check PHP version & installed modules in PHP

php –v

php –m

3.6 Change the following php configuration value

open php.ini file located at /etc/php/7.1/apache2/php.ini

and adjust below property

file\_uploads = On

allow\_url\_fopen = On

short\_open\_tag = On

memory\_limit = 256M

upload\_maz\_filesize = 100M

max\_execution\_time = 360

date.timezone = Asia/Dubai

3.7 after making changes restart apache2 server

sudo service apache2 restart

3.8 To get list of all installed modules in PHP issue below command

php –m

**Step No. 4 Install Mysql-Server run the following commands**

4.1 run the following commands to install mysql server

wget <http://repo.mysql.com/mysql-apt-config_0.8.9-1_all.deb>

sudo dpkg –I mysql-apt-config\_0.8.9-1\_all.deb

click OK

OR

sudo apt-get install mysql-client-5.6 mysql-client-core-5.6

sudo apt-get install mysql-server-5.6

OR

wget http://dev.mysql.com/get/mysql-apt-config\_0.6.0-1\_all.deb

sudo dpkg -i mysql-apt-config\_0.6.0-1\_all.deb

sudo apt-get update

sudo apt-get install mysql-server

for upgrade only

mysql\_upgrade --force -uroot -p

sudo apt-get update

sudo apt-get install mysql-server-5.6

mysql\_secure\_installation

mysql –u root –p

4.2 create database in mysql with name magento2

CREATE DATABASE magento2;

4.3 create user in database for magento2 with name magento2user with password m@g1t786

CREATE USER ‘magento2’@’LOCALHOST’ IDENTIFIED BY ‘m@g1t786’;

GRANT ALL ON magento2.\* to ‘magento2user’@’localhost’ IDENTIFIED BY ‘m@g1t786’ WITH GRANT OPTION;

FLUSH PRIVILEGES;

4.4 **Download & Install phpMyadmin**

Download myphpadmin from <https://www.phpmyadmin.net/downloads/>

Extract file and copy to /var/www/magento-dev.local/public

Then open browser and enter <http://localhost/phpmyadmin>

Enter username root & password m@g1t786

**Step No.5 Install GIT , CURL and COMPOSER (Option Step )**

sudo apt-get install curl git

curl –sS <https://getcomposer.org/installer> | sudo php -- --install-dir=/usr/local/bin –filename=composer

we can install composer with follow cammad as well

sudo apt-get install composer

to check composer is working run the following command

sudo composer

**Step No. 7 Downlaod Magento**

Download magento from

https://magento.com/tech-resources/download

create a folder on host system desktop with name Magento-CE-2 and put the magento software in it

now map this Magento-CE-2 folder with guest system folder with name magento\_setup\_files in vagrant file using

config.vm.synced\_folder "../Magento-CE-2","/magento\_setup\_files/"

give below permission on HTML folder /var/www/html

sudo chown –R www-data;www-data /var/www/html/

sudo chmod –R 755 /var/www/html

login to guest OS 🡪 Copy the data from magento\_setup\_files to /var/www/html folder

Creating a file in /etc/apache2/sites-available with name magento-dev.local.conf

Enter the following code in it

<VirtualHost \*:80>

# ServerName (domain) and admin email

ServerAdmin webmaster@magento-dev.local

ServerName magento-dev.local

DocumentRoot /var/www/magento-dev.local/public

# above folder of the site, we have to create this folder

# log file locations

LogLevel warn

ErrorLog /var/log/apache2/magento-dev.error.log

CustomLog /var/log/apache2/magento-dev.access.log combined

</VirtualHost>

enable the new virutalhost

from sites-availble folder location, enter following command to enable the site

sudo a2ensite magento-dev.local.conf

and to disable the default

sudo a2dissite 000-default.conf

restart the apache2 service and test the site.

Run the following command

Sudo chown –R www-data:www-data /var/www/magento-dev.local/

Step No. 6

Installing magento with sample data

Download magento 2 from magento website and extract the code to public folder in /var/www/magento-dev.local/public

Github [rizwanwakil2018@gmail.com](mailto:rizwanwakil2018@gmail.com)

sPersonal access tokens

33ce6daa8c0749a835389d7725fb356d083fc38a