NextCloud Installation :

- NextCloud, a perfect alternative to Owncloud cloud storage software.
- It has both opensource community edition plus enterprise edition
- Users can install the NextCloud community server edition on their PC or server to create their own personal in-house local cloud storage.
- The NextCloud client is available for Windows, Linux, macOS, and smartphone platforms iOS and Android.
- So, it is cross-platform cloud storage with a modular architecture that's capabilities can be extended using the plugins or extension provided by NextCloud.
- There are more than 200 extensions such as calendars (CalDAV), contacts (CardDAV), URL shortening suite, streaming media (Ampache), bookmarking service, image gallery, RSS feed reader, document viewer tools, browser-based text editor, connection to Dropbox, Google Drive & Amazon S3 and many more .

Installation prerequisite :

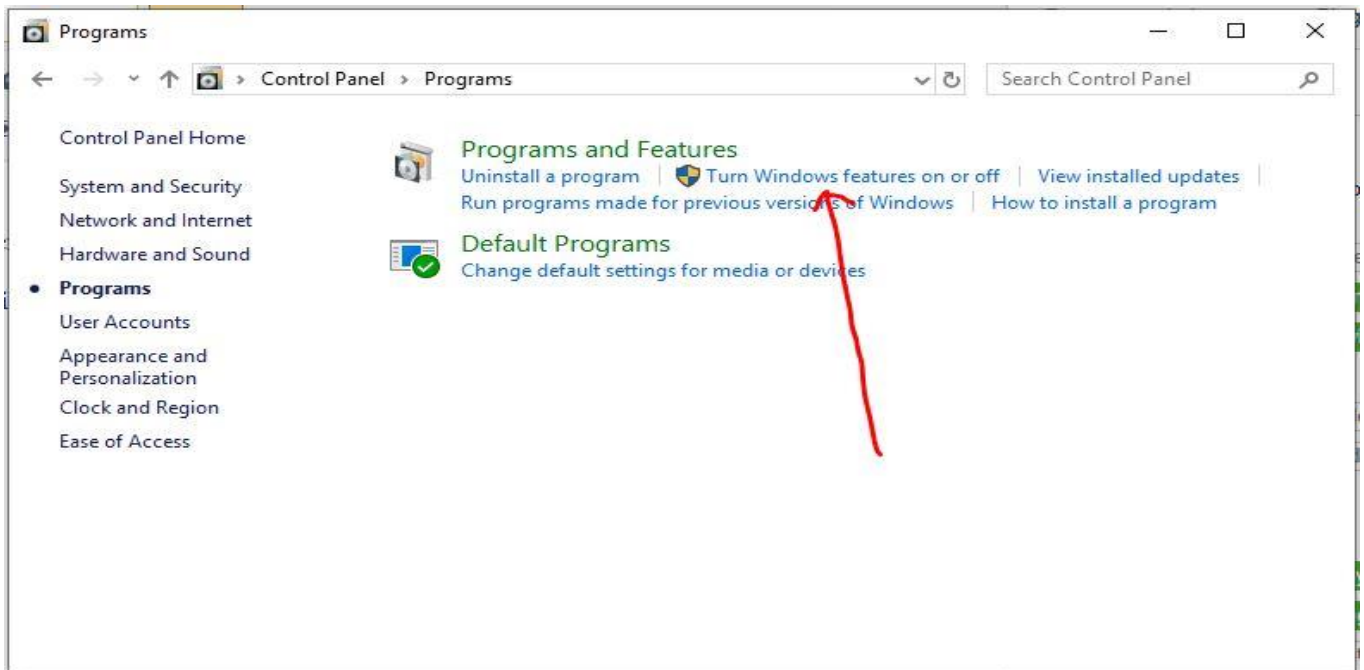- Windows 10 WSL
- Php –Xampp Server
- Maria DB / MySQL DB
- Apache

Installation Steps :

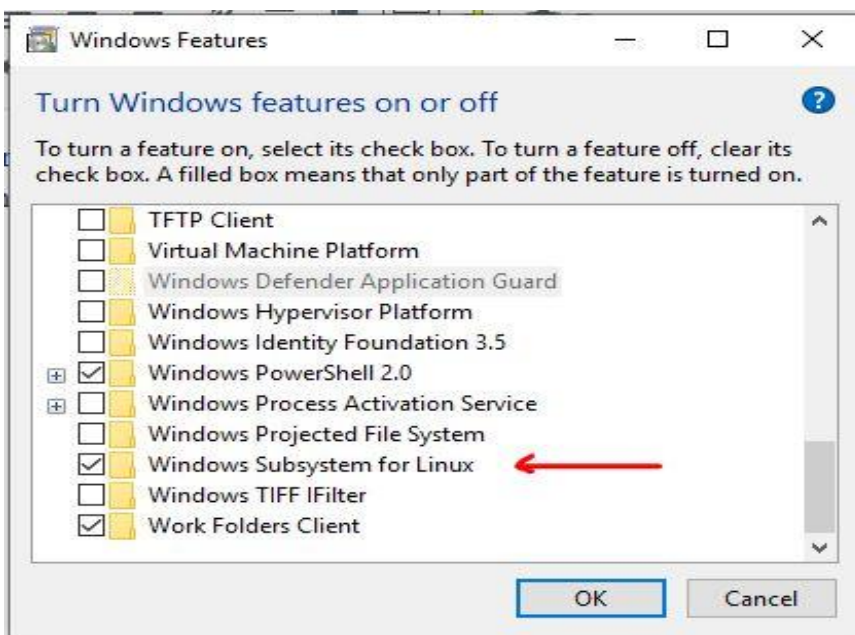### Step 1: Install the WSL (Windows Subsystem Linux) feature on Windows 10.

- Open **Control Panel**
- Click on **Programs** option
- Select the **Turn Windows features Turn on or off**
- Scroll down and find **Windows SubSystem for Linux**
- When it appears to select its **checkbox** and click on **the OK** button.
- In a few minutes, the **Windows Subsystem for Linux (ASL)** will automatically get **installed** on the system.
- After installation, click the **Restart Now** button.
- Now open Microsoft Windows store and search for Linux
- Install any of the available open-source Linux apps on Windows 1

Detailed Steps with screenshot :

a. Click on the **Start menu** of Windows and navigate to open the control panel.
b. From the Control Panel, first click on the "**Turn Windows features on or off**" option. One can also search directly for it from the Search box of Windows.
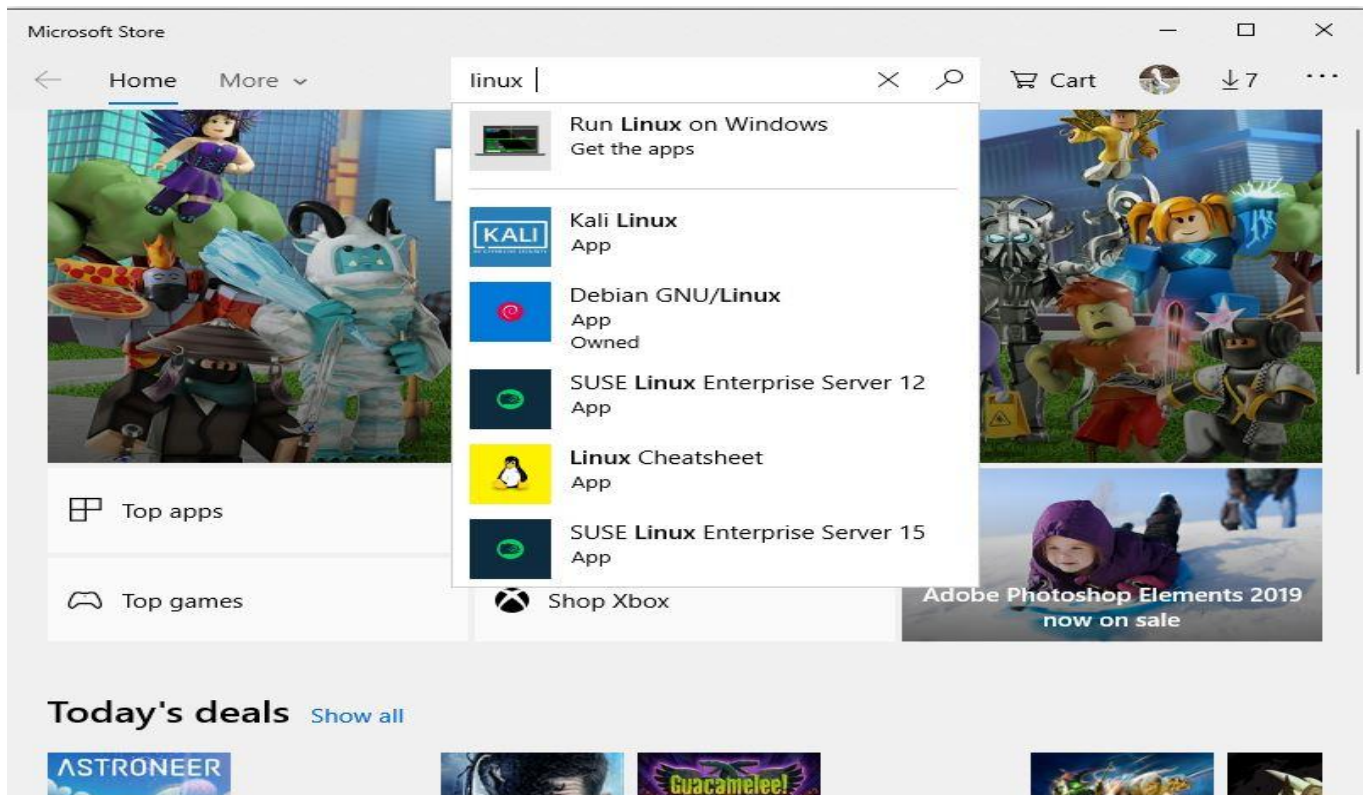
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c. Scroll down and you will find an option **Windows Subsystem for Linux.** A box is given in front of that click on that to check and then the **OK** button to install the WSL on Windows 10.
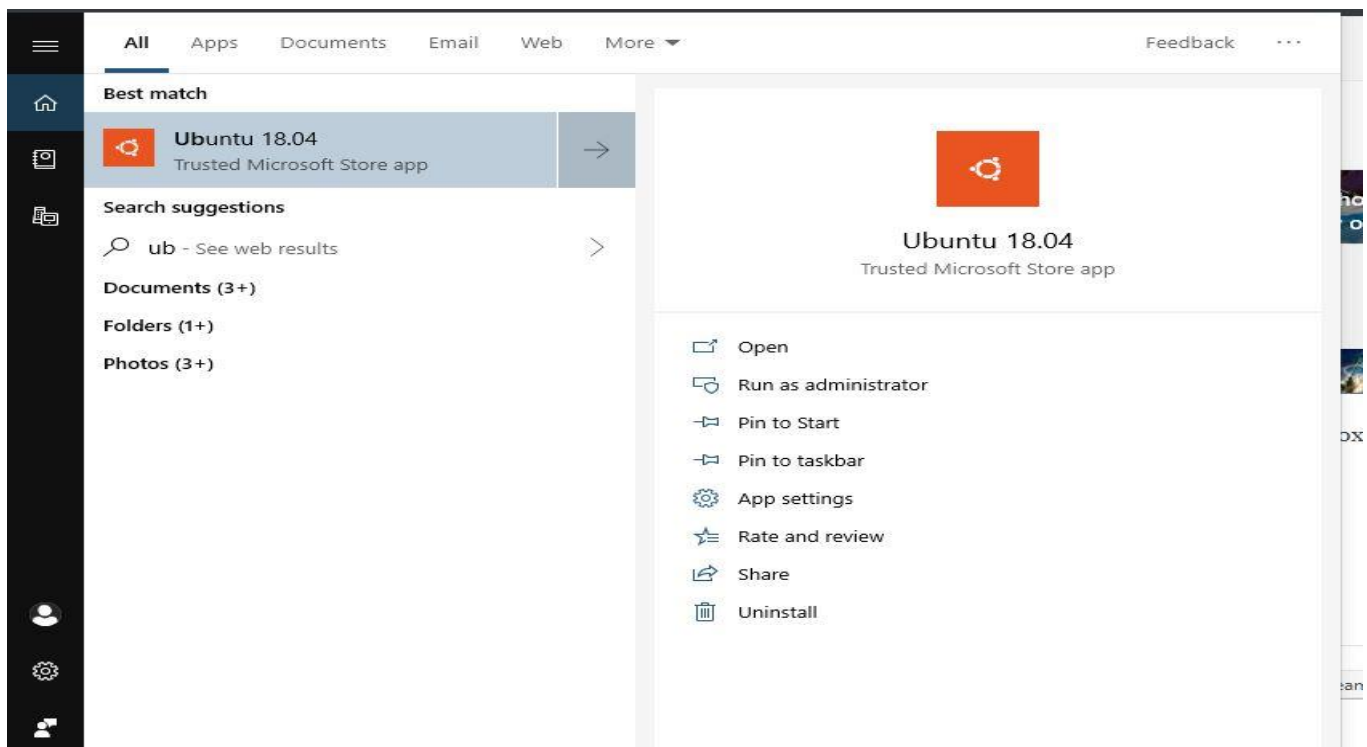

d. When it asks to restart the system do that.
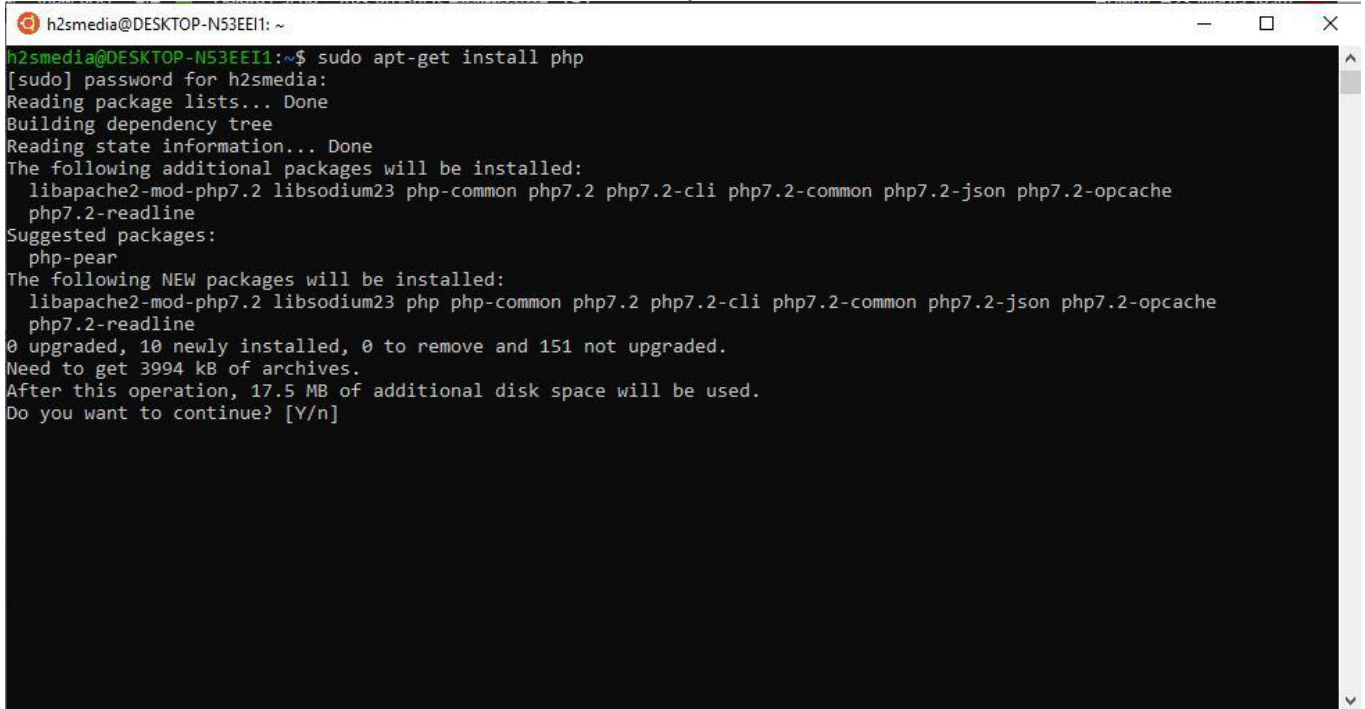**e.** After the installation, go to the **Microsoft store** and download the Linux app to play with.
f. When you search for the term Linux: Run Linux of Windows, Debian, Ubuntu, OpenSuse enterprise server, Kali Linux environments will appear. Choose the one you want to work with to download and install. Here we are installing Ubuntu 18.04.

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g. Once we installed Ubuntu or other Linux apps on Windows then just go to search box and type its name. For example, we have installed Ubuntu, so we typed Ubuntu.

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h. As soon as you open the bash of Ubuntu on Windows you can run the native Linux commands directly on Windows 10 systems. You can now setup Apache (LAMP) web server without the need of WAMP or XAMPP like servers. All the files of the Linux apps will save on your C Drive without any contradiction with Windows files.
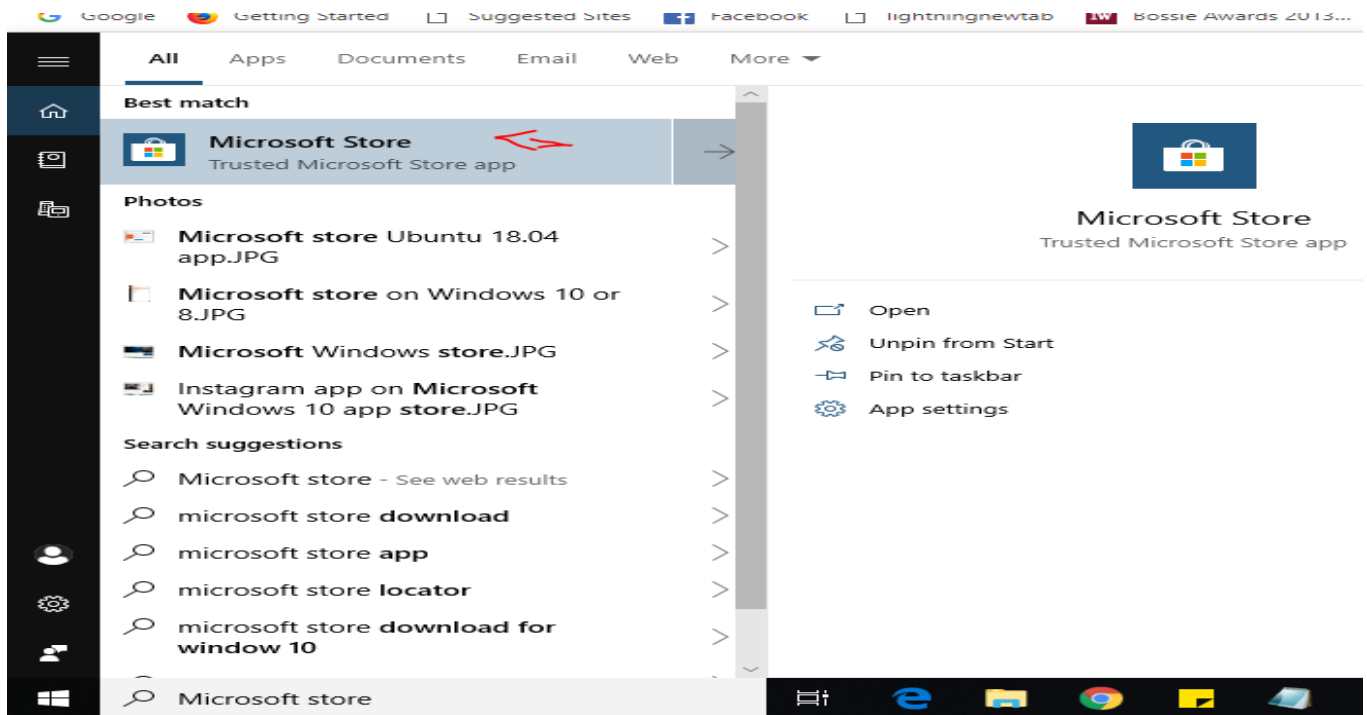
```
h2smedia@DESKTOP-N53EEI1: ~                                              —    □    ×

h2smedia@DESKTOP-N53EEI1:~$ sudo apt-get install php
[sudo] password for h2smedia:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.2 libsodium23 php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache
  php7.2-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php7.2 libsodium23 php php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache
  php7.2-readline
0 upgraded, 10 newly installed, 0 to remove and 151 not upgraded.
Need to get 3994 kB of archives.
After this operation, 17.5 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```
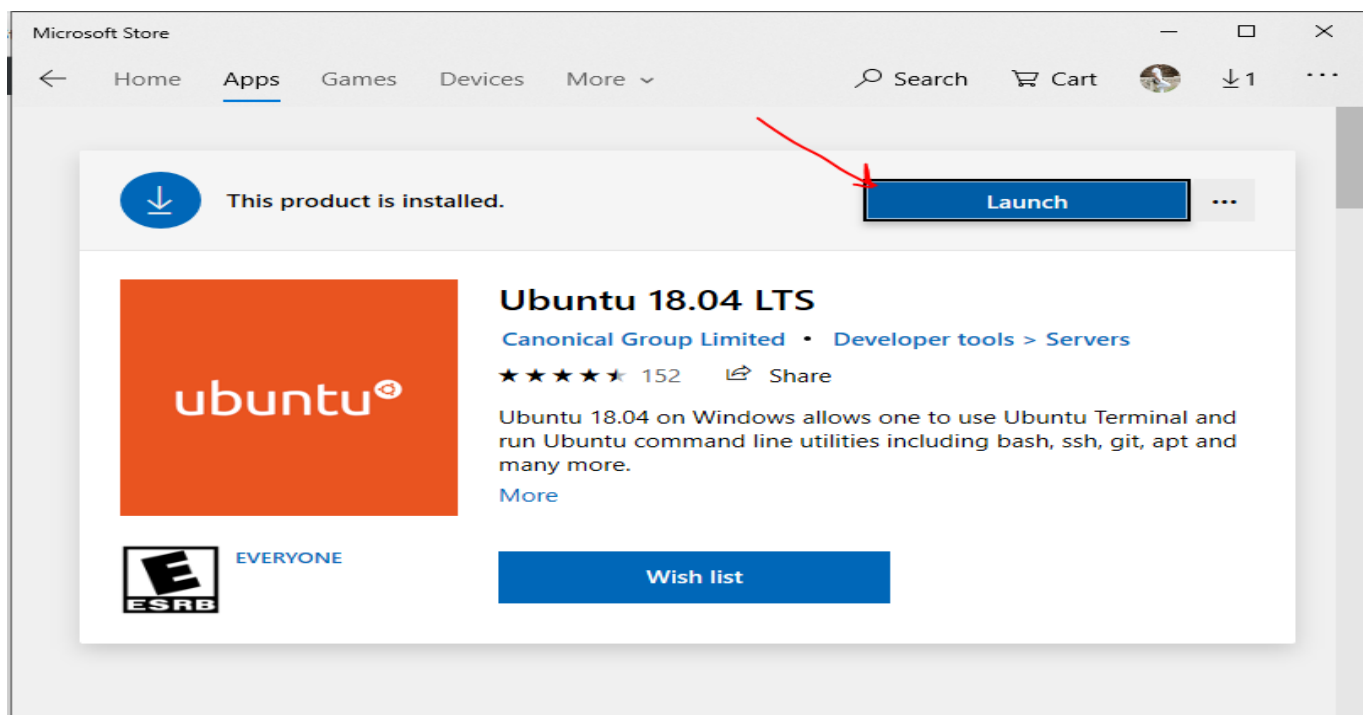
So, in this way, anyone can enable the subsystem for Linux on Windows to test different Linux commands without compromising much on hardware resources.

Step 2: Get Linux environment app from the Microsoft store

To **install NextCloud on Windows 10**, first, we need a Linux app from the Microsoft store. Go to the Windows search box and type Microsoft store as it appears, click on it and search for **Ubuntu 18**.

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The store will show the Ubuntu 18 app, select and install it. and then use the **launch** button.
When you Launch the Ubuntu Linux environment it will take some time to get set up.

Step 3: Install Apache+PHP+MySQL/MariaDB for NextCloud

sudo passwd root
su root

apt-get update && apt-get upgrade

sudo apt install apache2
sudo apt install mysql-server
sudo apt-get install php7.2 apache2 libapache2-mod-php7.2
sudo apt-get install php7.2-gd php7.2-json php7.2-mysql php7.2-curl php7.2-mbstring
sudo apt-get install php7.2-intl php-imagick php7.2-xml php7.2-zip php7.2-dom

Step 4: Download & Install NextCloud server on Windows 10

sudo apt install unzip
wget https://download.nextcloud.com/server/releases/nextcloud-19.0.1.zip

if the download not working then copy the link from here: https://nextcloud.com/install/#instructions-server

ls

Step 5: Extract NextCloud server files

unzip nextcloud-19.0.1.zip

Step 6: Copy the Nextcloud files to the Apache web directory

- After extracting, it's time to move nextcloud folder to /var/www/html. The command is:

sudo mv nextcloud /var/www/html/nextcloud/

- Create a data folder inside the copied folder

sudo mkdir /var/www/html/nextcloud/data

- Set the permission to the nextcloud directory

sudo chown -R www-data:www-data /var/www/html/nextcloud/
sudo chmod -R 755 /var/www/html/nextcloud

Step 7: Create a new configuration file called nextcloud.conf

Now, we will create an Apache configuration file for NextCloud to tell Apache how to let users access our cloud storage. For this purpose, manually create a configuration file named nextcloud.conf.

sudo nano /etc/apache2/sites-available/nextcloud.conf

<VirtualHost *:80>

DocumentRoot /var/www/html/nextcloud/

Alias /nextcloud "/var/www/html/nextcloud/"

<Directory /var/www/html/nextcloud/>
Options +FollowSymlinks
AllowOverride All
Require all granted
<IfModule mod_dav.c>
Dav off
</IfModule>
SetEnv HOME /var/www/html/nextcloud
SetEnv HTTP_HOME /var/www/html/nextcloud
</Directory>

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>

sudo nano /etc/apache2/apache2.conf
AcceptFilter http none
AcceptFilter https none

- Enable the newly created site:

sudo service apache2 reload
sudo service apache2 start
sudo a2ensite nextcloud.conf
sudo service apache2 restart
apt-get update && apt-get upgrade

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- Enable the following modules for proper Nextcloud working.

sudo a2enmod rewrite
sudo a2enmod headers
sudo a2enmod env
sudo a2enmod dir
sudo a2enmod setenvif
sudo a2enmod mime

sudo service apache2 stop
sudo service apache2 start

Step 9: Create MySQL/MariaDB database for NextCloud

sudo service mysql start
sudo mysql

CREATE DATABASE nextdb;
GRANT ALL ON nextdb.* to 'divya'@'localhost' IDENTIFIED BY 'divya';
FLUSH PRIVILEGES;

Step 10 – Setup and Configuring NetCloud server on Windows 10

Finally, go to your browser and type **http://localhost/nextcloud** or **http://127.0.01/nextcloud**.

It will guide you to create an admin account and database setup page of NextCloud.

Enter the username and password which you want to assign to the **Admin** account for Next cloud and then below that enter the details of the database we have created above and click on the **Finish Setup** button.

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