17. Cloud Computing

Practical 1: Deploying owncloud server in Kali Linux

You need a 64 Bit Kali Linux and XAMPP Server for deploying the owncloud server.

1. Make sure your default installed Apache Web server and MySQL DB servers are not running. To check run the following commands:

service apache2 status
service mysql status

If they are active and running, stop them by entering following commands:

service apache2 stop
service mysql stop

2. Download the latest version of owncloud server from the official link https://owncloud.org/install/

3. Extract the downloaded zip in XAMPP server /opt/lampp/htdocs

4. Provide full access for extracted folder by entering following command:

chmod 777 /opt/lampp/htdocs/owncloud/*

Alternatively you can right click on the folder from graphical interface and do it from permissions menu.

5. Launch XAMPP Server and start all servers from it. To do that enter following commands in terminal:

cd /opt/lampp/
./manager-x64

It will show XAMPP Server windows from that click on start all servers and wait for all servers to be active.

6. Open Mozilla Firefox Web Browser and enter localhost/owncloud
This will open the web interface of the owncloud and then we need to configure it.

7. Provide the username and password you need to use and likewise it will take some time to setup

8. Once you get logged in, you can have usual functionalities like uploading files and downloading them like storage services offers such as Dropbox, Google Drive, Onedrive etc.

Note: You can also access the online demonstration of ownload server by logging in to following URL:

https://demo.owncloud.org/index.php/login

Default credentials you can use:

Username: admin
Password: admin

9. Once your owncloud server is deployed successfully, you can analyse the functionalities with the help of Web App proxy tools such as BurpSuite, OWASP ZAP, Paros etc. You can also run Vulnerability assessment scan using Vega, Nessus etc.