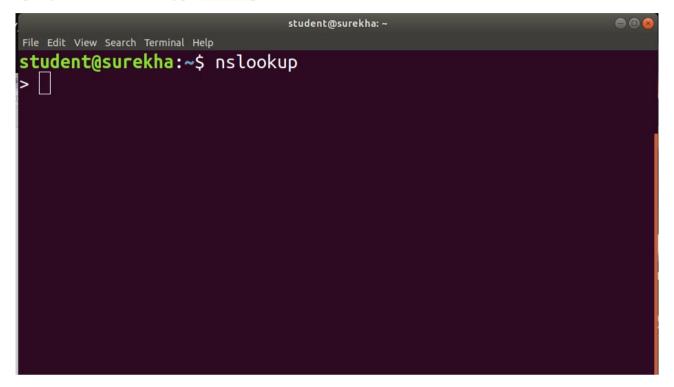
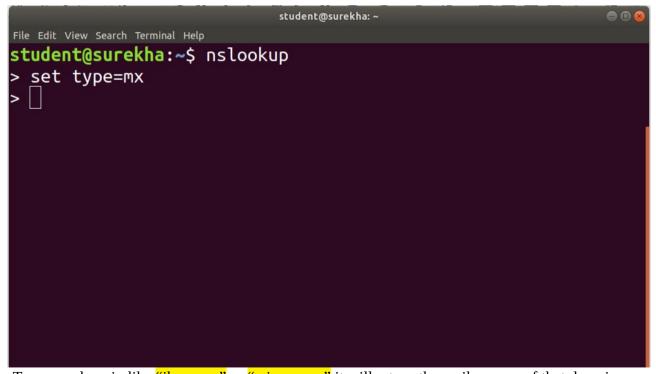
1] Find out the mail servers of the following domain: ibm.com wipro.com

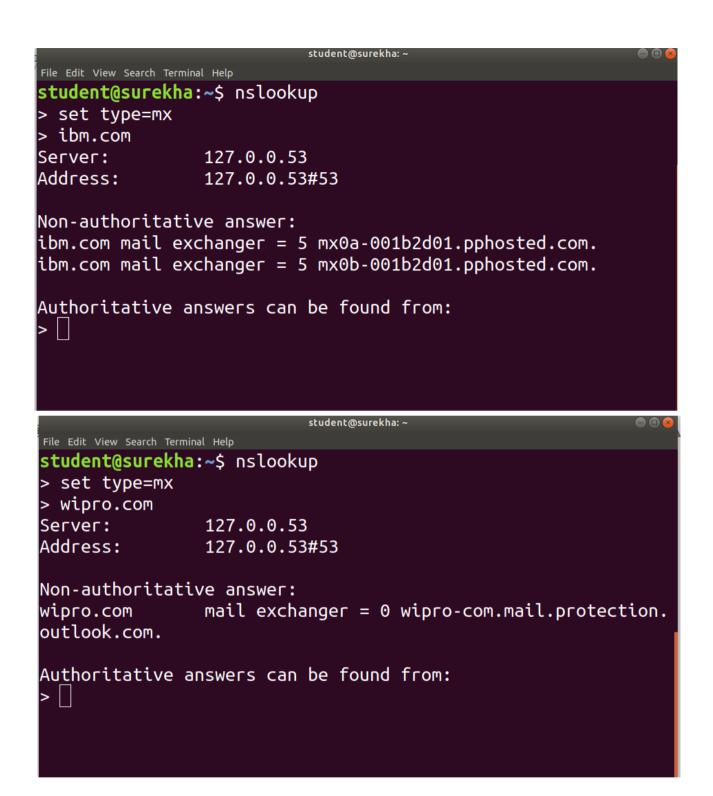
to find the mail servers of a domain open your terminal and type nslookup



type set type=mx this will cause nslookup to return only mail exchange records from the dns servers.



Type any domain like "ibm.com" or "wipro.com" it will return the mail servers of that domain



2]find the locations, where these email servers are hosted

to know the location of the mail servers first we should know the ip address of that mail server for that we use dnrecon tool.

Open terminal and type dnsrecon -d <domain name>

```
kali@kali: ~
                                                                                                    _ _ ×
File Actions Edit View Help
         1:-$ dnsrecon -d wipro.com
[*] Performing General Enumeration of Domain: wipro.com
    All nameservers failed to answer the DNSSEC query for wipro.com
          SOA ns1.webindia.com 50.16.170.116
          NS ns1.webindia.com 50.16.170.116
          NS ns1.webindia.com 64:ff9b::3210:aa74
          NS ns4.webindia.com 54.66.0.69
          NS ns4.webindia.com 64:ff9b::3642:45
          NS ns2.webindia.com 34.235.29.171
          NS ns2.webindia.com 64:ff9b::22eb:1dab
          MX wipro-com.mail.protection.outlook.com 104.47.124.36
          MX wipro-com.mail.protection.outlook.com 104.47.126.36
          MX wipro-com.mail.protection.outlook.com 64:ff9b::682f:7c24
[*]
          MX wipro-com.mail.protection.outlook.com 64:ff9b::682f:7e24
          A wipro.com 209.11.159.61
          AAAA wipro.com 64:ff9b::d10b:9f3d
[*]
          TXT _domainkey.wipro.com t=y; o=~;
[*] Enumerating SRV Records
[+] {'type': 'SRV', 'name': '_sip._tcp.wipro.com', 'target': 'vexpe1.wipro.com', 'addre'ss': '203.91.199.67', 'port': '5060'}
[+] {'type': 'SRV', 'name': '_sip._tcp.wipro.com', 'target': 'vexpe1.wipro.com', 'addre'ss': '64:ff9b::cb5b:c743', 'port': '5060'}
```

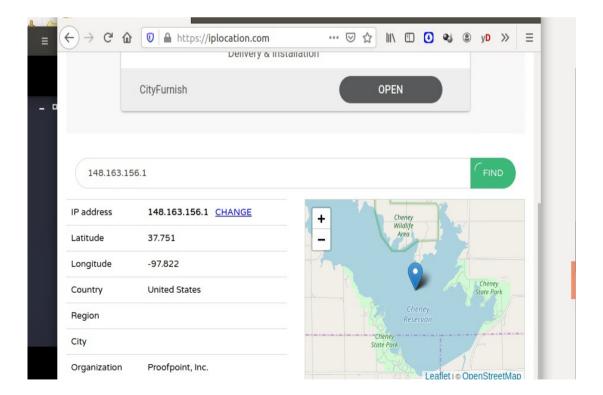
```
kali@kali: ~
                                                                      File Actions
              Edit View Help
  iakali:~$ dnsrecon -d ibm.com
[*] Performing General Enumeration of Domain: ibm.com
   All nameservers failed to answer the DNSSEC query for ibm.com
[*]
        SOA asia3.akam.net 23.211.61.64
[*]
        NS eur5.akam.net 23.74.25.64
        Bind Version for 23.74.25.64 b'26721.46'
        NS eur5.akam.net 64:ff9b::174a:1940
        NS ns1-99.akam.net 193.108.91.99
        Bind Version for 193.108.91.99 b'32321.36'
        NS ns1-99.akam.net 2600:1401:2::63
        NS eur2.akam.net 95.100.173.64
        Bind Version for 95.100.173.64 b'27579.237'
        NS eur2.akam.net 64:ff9b::5f64:ad40
        NS usc2.akam.net 184.26.160.64
         Bind Version for 184.26.160.64 b'15863.60'
        NS usc2.akam.net 64:ff9b::b81a:a040
[*]
        NS usw2.akam.net 184.26.161.64
        Bind Version for 184.26.161.64 b'36740.177'
        NS usw2.akam.net 64:ff9b::b81a:a140
```

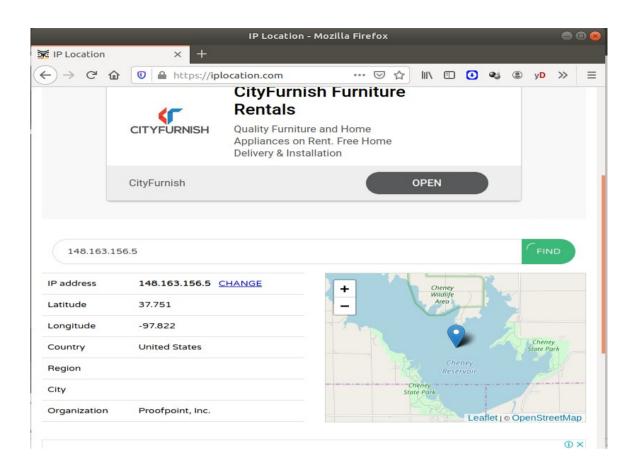
```
kali@kali: ~
                                                                         File
     Actions
              Edit
                    View
                          Help
        NS usc2.akam.net 64:ff9b::b81a:a040
        NS usw2.akam.net 184.26.161.64
        Bind Version for 184.26.161.64 b'36740.177'
        NS usw2.akam.net 64:ff9b::b81a:a140
        NS ns1-206.akam.net 193.108.91.206
        Bind Version for 193.108.91.206 b'32321.4'
        NS ns1-206.akam.net 2600:1401:2::ce
        NS usc3.akam.net 96.7.50.64
        Bind Version for 96.7.50.64 b'27452.222'
        NS usc3.akam.net 64:ff9b::6007:3240
        NS asia3.akam.net 23.211.61.64
        Bind Version for 23.211.61.64 b'33393.119'
        NS asia3.akam.net 64:ff9b::17d3:3d40
        MX mx0a-001b2d01.pphosted.com 148.163.156.1
        MX mx0b-001b2d01.pphosted.com 148.163.158.5
        MX mx0a-001b2d01.pphosted.com 64:ff9b::94a3:9c01
        MX mx0b-001b2d01.pphosted.com 64:ff9b::94a3:9e05
         AAAA ibm.com 64:ff9b::812a:260a
```

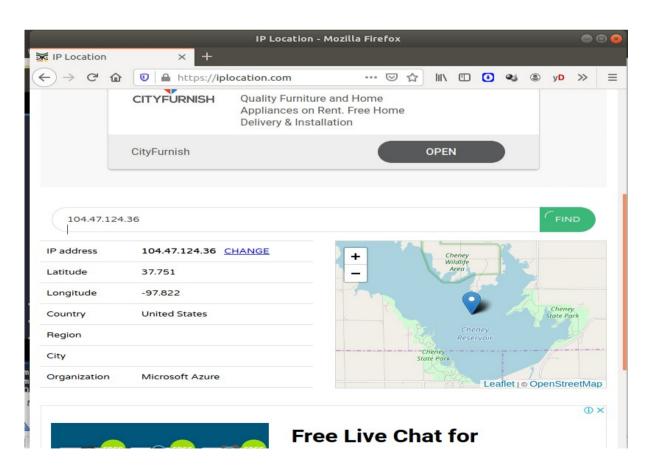
the sentence starting with mx are the mail servers.

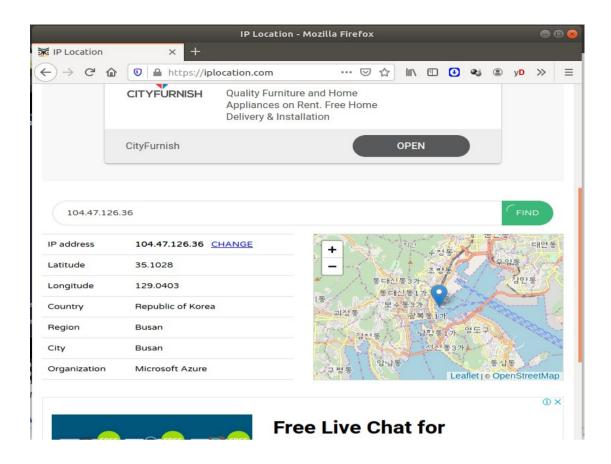
Now we got the mail servers ip addresses

open browser and search for "iplocation.com" there type the ip and it will give the location of that.





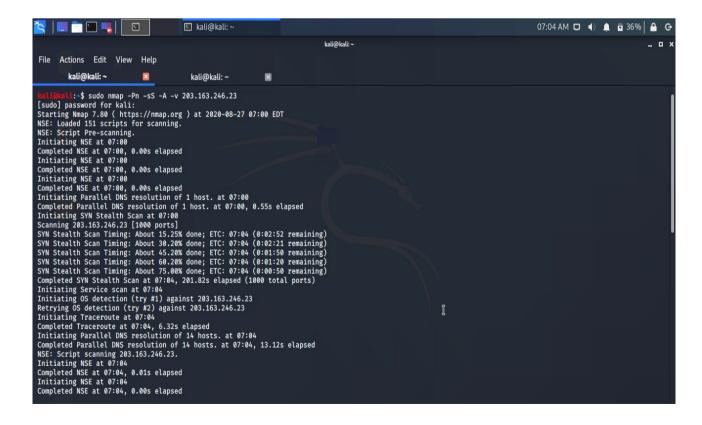


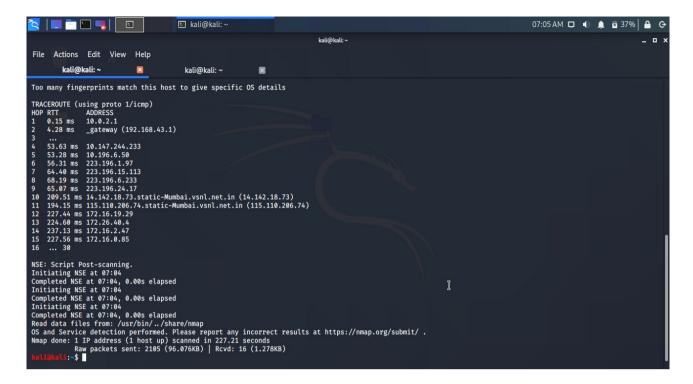


3]scan and find out port numbers open 203.163.264.23

to scan the open ports we use nmap tool.

Open your terminal and type sudo nmap -Pn -sS -A -v 203.163.246.23

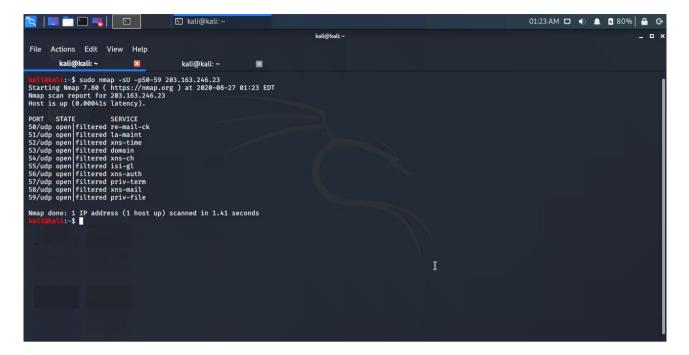




sudo nmap -sF -g 25 -oN firewallreport.txt 203.163.246.23



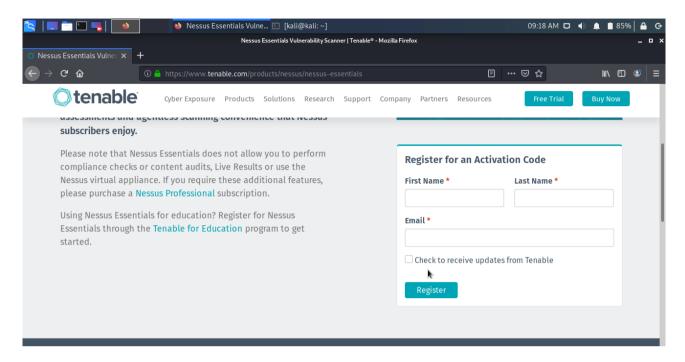
the server is protected by the firewall so to get the open ports we try another command sudo nmap -sU -p50-59 203.163.246.23



we can also use a tool called red hawk to know the open ports commands to install and run red hawk
1.git clone https://github.com/Tuhinshubhra/RED_HAWK
2.cd RED_HAWK
3.php rhawk.php
enter the ip or domain name then find the open ports.

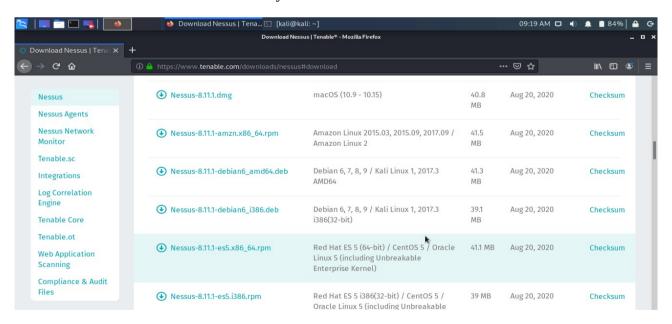
4]install nessus in a vm and scan your laptop/desktop for CVE

first of all we should install nessus open browser and search https://www.tenable.com/products/nessus-home register there for activation code

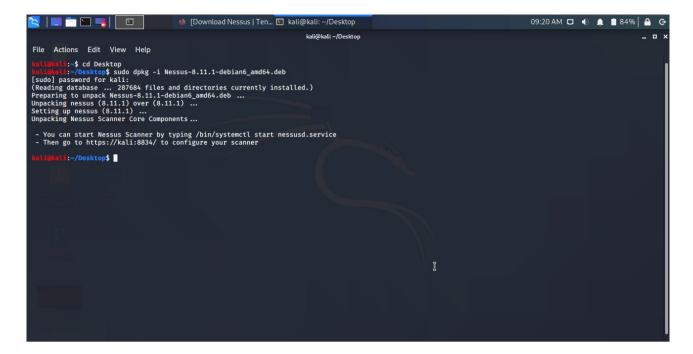


you will get an email with activation code.

Open https://www.tenable.com/downloads/nessus#download
download the file which is suitable for your os

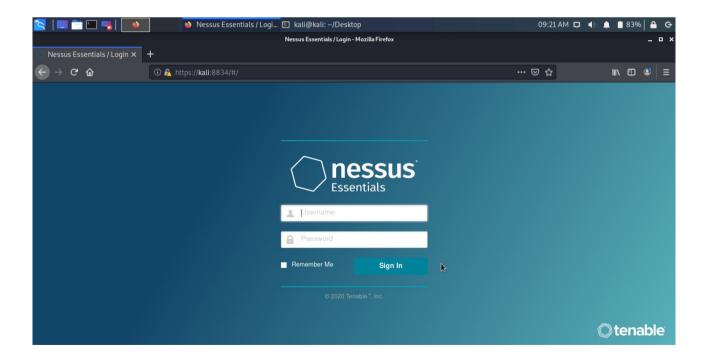


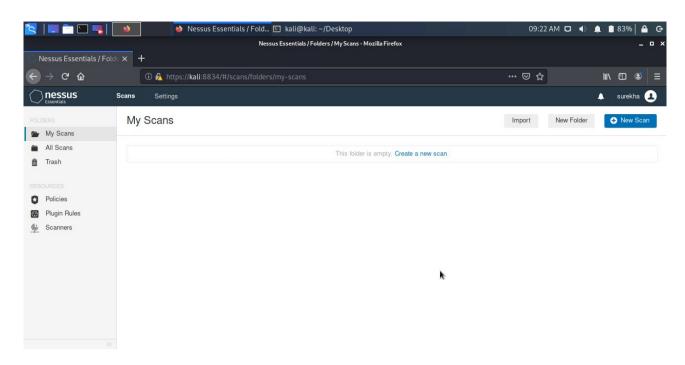
open your terminal and navigate to the folder where you have the downloaded file. And enter <a href="dpkg-i < file name">dpkg-i < file name>



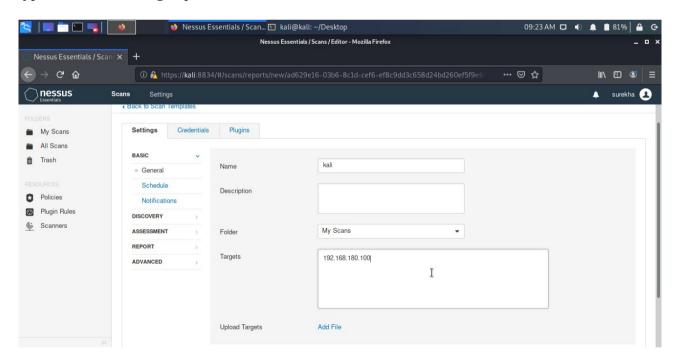
now type the cammand which you get in the terminal prompt.for me it is /bin/systemctl start nessusd.service

open browser and type https://kali:8834/ there you should enter your activation code then you can set your username and password. Login to you account with your details.

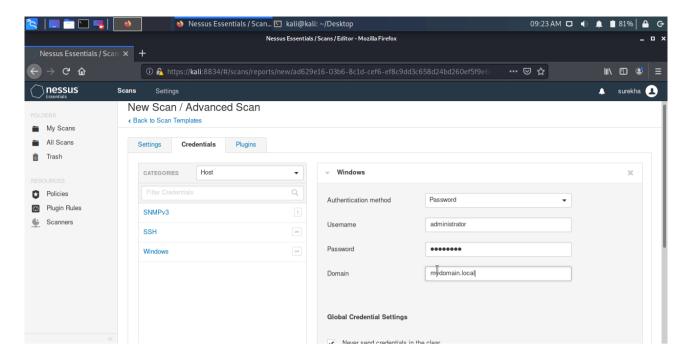




Click on new scan type the name and target ip address



go to credential and give the details



save the state and launch it.

It will take some time to run and will give the results.

