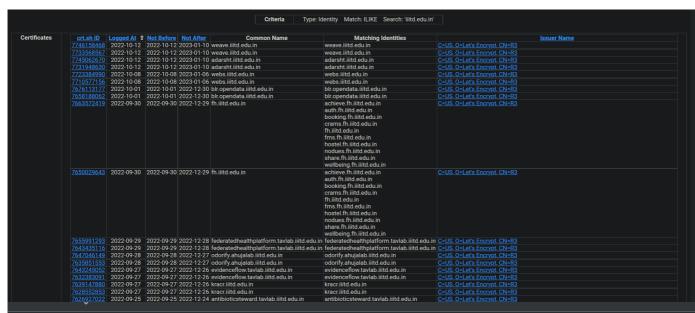
# FCS assignment - 1.1

### Q3.a

### Crt.sh



#### nik@nik-Predator-PH315-51:/mnt/sdb2/Study Material/Assignment/FCS\$ nslookup

> webs.iiitd.edu.in

Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer:
Name: webs.iiitd.edu.in
Address: 192.168.16.122
> blr.opendata.iiitd.edu.in
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:

Name: blr.opendata.iiitd.edu.in

Address: 192.168.1.234 > achieve.fh.iiitd.edu.in Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer:

Name: achieve.fh.iiitd.edu.in

Address: 192.168.1.240

> odorify.ahujalab.iiitd.edu.in
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:

Name: odorify.ahujalab.iiitd.edu.in

Address: 192.168.30.53 > kracr.iiitd.edu.in Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer: Name: kracr.iiitd.edu.in Address: 192.168.1.166

>

### **Dnsdumpster**

```
NKN-CORE-NW NKN Core Network 🔏 🏻 🗈
                                           NKN-CORE-NW NKN Core Network
                                            aida.iiitd.edu.in
                                                                                                                                                       NKN-CORE-NW NKN Core Network
                                           III ② X ⊙ ∳
http://documents.com/mites/apache/2.2.15 (Oracle)
ssh: SSH-2.0-OpenSSH_5.3
http://documents/apache/2.2.15
                                           traffickarma.iiitd.edu.in

■ ② ③ ۞ ♦

HTTP: nginx/1.14.0 (Ubuntu)

HTTP TECH: Ubuntu

nginx,1.14.0
                                                                                                                                                       NKN-CORE-NW NKN Core Network
                                           HI @ 💢 👁 🍁
HTTP: Apache/2.2.15 (Oracle)
SSH: SSH-2.0-OpenSSH_5.3
HTTP TECH: Apache,2.2.15
                                           compass.salsa.iiitd.edu.in

Ⅲ ② ☆ ② ❖
                                                                                                                                                       NKN-CORE-NW NKN Core Network
nik@nik-Predator-PH315-51:/mnt/sdb2/Study Material/Assignment/FCS$ nslookup
 > ask2014.iiitd.edu.in
                         127.0.0.53
127.0.0.53#53
Server:
Address:
Non-authoritative answer:
Name: ask2014.iiitd.edu.in
Address: 192.168.1.27
 > byld5.iiitd.edu.in
                    127.0.0.53
127.0.0.53#53
Server:
Address:
Non-authoritative answer:
Name: byld5.iiitd.edu.in
Address: 192.168.1.121
> byld5.iiitd.edu.in
Server: 127.0.0.53
Address: 127.0.0.53#53
Non-authoritative answer:
Name: byld5.iiitd.edu.in
Address: 192.168.1.121
> aida.iiitd.edu.in
                    127.0.0.53
127.0.0.53#53
 Server:
Address:
Non-authoritative answer:
Name: aida.iiitd.edu.in
Address: 192.168.1.27
> aida.iiitd.edu.in
                127.0.0.53
127.0.0.53#53
Server:
Address:
Non-authoritative answer:
Name: aida.iiitd.edu.in
Address: 192.168.1.27
> finnexia.iiitd.edu.in
Server: 127.0.0.53
Address: 127.0.0.53#53
Non-authoritative answer:
Name: finnexia.iiitd.edu.in
Address: 192.168.1.27
 > traffickarma.iiitd.edu.in
                  127.0.0.53
127.0.0.53#53
 Server:
Address:
Non-authoritative answer:
Name: traffickarma.iiitd.edu.in
 Address: 192.168.1.234
```

Below is all the ip's from the script

```
'achieve.fh.iiitd.edu.in:192.168.1.240',
'dataquality.tavlab.iiitd.edu.in:192.168.1.52',
'ciclop.raylab.iiitd.edu.in:192.168.30.176',
'crams.fh.iiitd.edu.in:192.168.1.240',
```

```
'idp.iiitd.edu.in:192.168.1.31',
 'odorify.ahujalab.iiitd.edu.in:192.168.30.53',
 'transcend.senguptalab.iiitd.edu.in:192.168.17.155',
 'merc.sbilab.iiitd.edu.in:192.168.18.110',
 'fh.iiitd.edu.in:192.168.1.240',
 'precog.iiitd.edu.in:192.168.1.17',
 'tedx.iiitd.edu.in:192.168.1.104',
 'auth.fh.iiitd.edu.in:192.168.1.240',
 'prid.iiitd.edu.in:192.168.28.124',
 'webs.iiitd.edu.in:192.168.16.122',
 'wiser.tavlab.iiitd.edu.in:192.168.1.21!
[f20a594e0568f95cc62df7ad08faa38e.png]
( resources/c785257d2d7042e496a61f6972bd340b.png)1',
 'easyscheduler.kracr.iiitd.edu.in:192.168.1.255',
 'ayushmanbharat.melange.iiitd.edu.in:192.168.2.71',
 'ea.iiitd.edu.in:198.49.23.144',
 'nodues.fh.iiitd.edu.in:192.168.1.240',
 'foobar.iiitd.edu.in:192.168.1.116',
 'eda.tavlab.iiitd.edu.in:192.168.1.52',
 'antibioticsteward.tavlab.iiitd.edu.in:192.168.1.52',
 'cosylab.iiitd.edu.in:192.168.1.92',
 'visiontoli.iiitd.edu.in:192.168.2.11',
 'odyssey.iiitd.edu.in:192.168.1.104',
 'esya.iiitd.edu.in:192.168.1.104',
 'events.iiitd.edu.in:192.168.1.121',
 'wellbeing.fh.iiitd.edu.in:192.168.1.240',
 'www.ea.iiitd.edu.in:198.49.23.144',
 'ee.kobo.melange.iiitd.edu.in:192.168.1.40',
 'byld.iiitd.edu.in:192.168.1.133',
 'opendata.iiitd.edu.in:192.168.1.234',
 'deepgraphh.ahujalab.iiitd.edu.in:192.168.30.53',
 'digest.raylab.iiitd.edu.in:192.168.30.176',
 'blr.opendata.iiitd.edu.in:192.168.1.234',
 'iiitd.edu.in:192.168.1.7',
 'booking.fh.iiitd.edu.in:192.168.1.240',
 'metabokiller.ahujalab.iiitd.edu.in:192.168.30.53',
 'ecell.iiitd.edu.in:192.168.1.27',
 'ecgdetect.sbilab.iiitd.edu.in:192.168.18.110',
 'kf.kobo.melange.iiitd.edu.in:192.168.1.40',
 'fms.fh.iiitd.edu.in:192.168.1.240',
 'byld5.iiitd.edu.in:192.168.1.121',
 'kracr.iiitd.edu.in:192.168.1.166',
 'weave.iiitd.edu.in:185.199.108.153',
```

```
'kc.kobo.melange.iiitd.edu.in:192.168.1.40',
'federatedhealthplatform.tavlab.iiitd.edu.in:192.168.1.52',
'hostel.fh.iiitd.edu.in:192.168.1.240',
'share.fh.iiitd.edu.in:192.168.1.240']
```

### Q3.b

- As mentioned in python ipynb file, I am using pycrtsh library.
- It gets all the certificates information of the website.
- After that I am storing all the sub domain in the list
- Some sub domain contains mutiple url with \n delimiter, so splitting those string and appending in res list
  - Also filtering some url which contain \*.\_\_\_\_ subdomain, because we cannot get resolve this type of domain
- · using socket resolving domain name
- and then printing all the values in the console.

## **Q3.c**

- Attacker can do ddos attack on the network using ip spoofing (using private ips), to bypass firewall.
- any it will be very difficult to protect the from these attack because we cannot know the attacker ips
- Also attacker can do man in the middle attack by hijacking the connection using servers ip (subdomain ip).
- They can also hijack user session by saying, this is new website ip (arp spoofing in router). and redirect to their version of hosted website, such that they can steal user information
- Also attacker can try to attack nameserver domain (dns) that resolves all the ips using information about private ip's.