# **ASSIGNMENT – 3**

Q-1) Check which protocol service is available on the host cs.triple5.online

```
200420116059@kali:~$ sudo nmap -s0 cs.triple5.online
[sudo] password for 200420116059:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-30 06:03 UTC
Nmap scan report for cs.triple5.online (3.87.70.88)
Host is up (0.00081s latency).
rDNS record for 3.87.70.88: ec2-3-87-70-88.compute-1.amazonaws.com
PROTOCOL STATE
                               SERVICE
0
1
2
3
4
5
6
7
8
                               hopopt
            open
                               icmp
            open
            open|filtered igmp
            open
                               ggp
                               ipv4
            open
                               st
            open
            open|filtered tcp
                               cbt
            open
            open
                               egp
9
            open
                               igp
10
                               bbn-rcc-mon
            open
11
                               nvp-ii
            open
12
                               pup
            open
13
            open
                               argus
14
            open
                               emcon
15
                               xnet
            open
16
                               chaos
            open
17
            open|filtered_udp
18
                               mux
            open
19
                               dcn-meas
            open
20
                               hmp
            open
21
            open
                               prm
22
23
                               xns - idp
            open
                               trunk-1
            open
24
                               trunk-2
            open
25
                               leaf-1
            open
26
            open
                               leaf-2
27
                               rdp
            open
28
            open
                               irtp
```

29 open iso-tp4 65	open	kryptolan
30 open netblt 66	open	rvď
31 open mfe-nsp 67	open	ippc
32 open merit-inp 68	open	anydistribfs
33 open dccp 69	open	sat-mon
34 open 3pc 70	open	visa
35 open idpr 71	open	ipcv
36 open xtp 72	open	cpnx
37 open ddp 73	open	cphb
38 open idpr-cmtp 74	open	wsn
39 open tp++ 75	open	pvp
40 open il 76	open	br-sat-mon
41 open filtered ipv6 77	open	sun-nd
42 open sdrp 78	open	wb-mon
43 open ipv6-route 79	open	wb-expak
44 open ipv6-frag 80	open	iso-ip
45 open idrp 81	open	vmtp
46 open rsvp 82	open	secure-vmtp
47 open gre 83	open	vines
48 open dsp 84	open	iptm
49 open bna 85	open	nsfnet-igp
50 open esp 86	open	dgp
51 open ah 87 52 open i-nlsp 88	open	tcf
50	open	eigrp
54	open	ospfigp
FF mon mohile	open	sprite-rpc
56 anan +lan	open	larp
E7 open older	open	mtp
50 open [fi] torod inv6 icmp	open	ax.25
50 apan inve panyt	open	ipip
60 open inve ents	open	micp
61 open appliest	open	scc-sp
62 open offin	open	etherip
63 open applocal pet 98	open	encap
64 open sat-eynak 99	open	anyencrypt
100	open	gmtp

101	open	ifmp	137	open	mpls-in-ip
102	open	pnni	138	open	manet
103	open filtered	pim	139	open	hip
104	open	aris	140	open	shim6
105	open	scps	141	open	wesp
106	open	qnx	142	open	rohc
107	open	a/n	143	open	ethernet
108	open	ipcomp	144	open	unknown
109	open	snp	145	open	unknown
110	open	compaq-peer	146	open	unknown
111	open	ipx-in-ip	147	open	unknown
112	open	vrrp	148	open	unknown
113	open	pgm	149	open	unknown
114	open	any0hop	150	open	unknown
115	open	l2tp	151	open	unknown
116	open	ddx	152	open	unknown
117	open	iatp	153	open	unknown
118	open	stp	154	open	unknown
119	open	srp	155	open	unknown
120	open	uti	156	open	unknown
121	open	smp	157	open	unknown
122	open	sm	158	open	unknown
123	open	ptp	159	open	unknown
124	open	is is - ipv4	160	open	unknown
125	open	fire	161	open	unknown
126	open	crtp	162	open	unknown
127	open	crudp	163	open	unknown
128	open	sscopmce	164	open	unknown
129	open	iplt	165	open	unknown
130	open	sps	166	open	unknown
131	open	pipe	167	open	unknown
132	open	sctp	168	open	unknown
133	open	fc	169	open	unknown
134	open	rsvp-e2e-ignore	170	open	unknown
135	open	mobility-hdr	171	open	unknown
136	open	udplite	172	open	unknown

open	unknown
open	unknown
	open open open open open open open open

209	open	unknown
210	open	unknown
211	open	unknown
212	open	unknown
213	open	unknown
214	open	unknown
215	open	unknown
216	open	unknown
217	open	unknown
218	open	unknown
219	open	unknown
220	open	unknown
221	open	unknown
222	open	unknown
223	open	unknown
224	open	unknown
225	open	unknown
226	open	unknown
227	open	unknown
228	open	unknown
229	open	unknown
230	open	unknown
231	open	unknown
232	open	unknown
233	open	unknown
234	open	unknown
235	open	unknown
236	open	unknown
237	open	unknown
238	open	unknown
239	open	unknown
240	open	unknown
241	open	unknown
242	open	unknown
243	open	unknown
244	open	unknown

```
245
246
247
248
249
250
251
252
253
254
255
              open
                                    unknown
                                   unknown
unknown
unknown
unknown
unknown
              open
              open
              open
              open
              open
                                    unknown
              open
                                    unknown
experimental1
              open
              open
              open
                                    experimental2
unknown
              open
Nmap done: 1 IP address (1 host up) scanned in 1.35 seconds
```

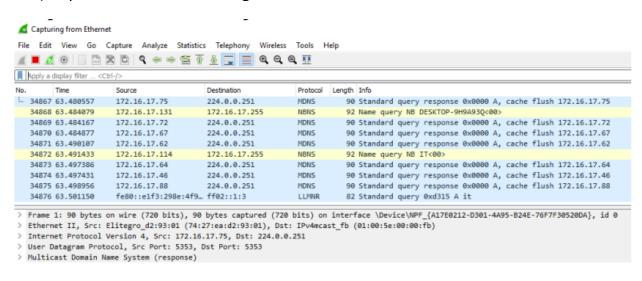
#### Q-2) Determine which services are available on the host www.scet.ac.in

```
200420116059@kali:~$ sudo nmap -sV scet.ac.in
Starting Nmap 7.92 ( <a href="https://nmap.org">https://nmap.org</a> ) at 2022-08-30 06:05 UTC
Nmap scan report for scet.ac.in (136.243.80.165)
Host is up (0.096s latency).
rDNS record for 136.243.80.165: lynx1.adaptable.services
Not shown: 987 filtered tcp ports (no-response)
             STATE SERVICE VERSION closed ftp-data open ftp Pure-FTF
PORT
20/tcp
21/tcp
                                        Pure-FTPd
               closed ssh
22/tcp
53/tcp
               open
                          domain
                                        PowerDNS
                                        Apache httpd
80/tcp
               open
                          http
110/tcp open
                          pop3
                                        Dovecot pop3d
143/tcp
              open
                          imap
                                        Dovecot imapd
443/tcp open
587/tcp open
                          ssl/http Apache httpd
                                        Exim smtpd 4.95
                          smtp
687/tcp open
                                        OpenSSH 7.4 (protocol 2.0)
                          ssh
                          imaps?
993/tcp open
995/tcp open
                          pop3s?
3306/tcp closed mysql
Service detection performed. Please report any incorrect results at <a href="https://nmap.org/submit/">https://nmap.org/submit/</a>
Nmap done: 1 IP address (1 host up) scanned in 53.83 seconds
```

## Q-3) Identify the Operating System of www.facebook.com

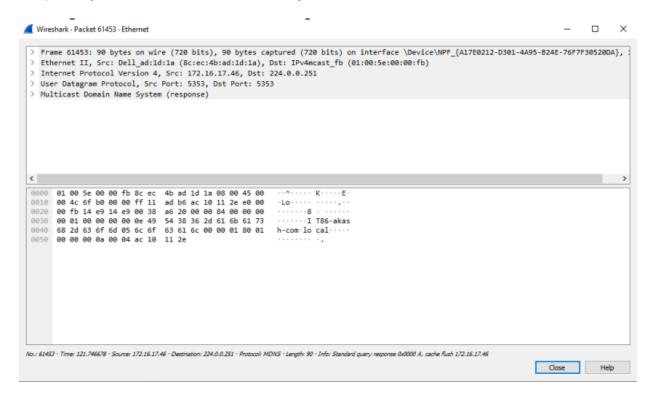
```
200420116059@kali:~$ sudo nmap -0 www.facebook.com
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-30 06:10 UTC
Nmap scan report for www.facebook.com (31.13.66.35)
Host is up (0.00060s latency).
Other addresses for www.facebook.com (not scanned): 2a03:2880:f103:181:face:b00c:0:25de
rDNS record for 31.13.66.35: edge-star-mini-shv-01-iad3.facebook.com
Not shown: 996 filtered tcp ports (no-response)
PORT
            STATE SERVICE
80/tcp
                      http
            open
443/tcp open https
843/tcp closed unknown
5222/tcp closed xmpp-client
Device type: general purpose
Running (JUST GUESSING): FreeBSD 11.X (86%)
OS CPE: cpe:/o:freebsd:freebsd:11.0
Aggressive OS guesses: FreeBSD 11.0-RELEASE (86%), FreeBSD 11.2-STABLE (86%)
No exact OS matches for host (test conditions non-ideal).
OS detection performed. Please report any incorrect results at <a href="https://nmap.org/submit/">https://nmap.org/submit/</a>
Nmap done: 1 IP address (1 host up) scanned in 8.39 seconds
```

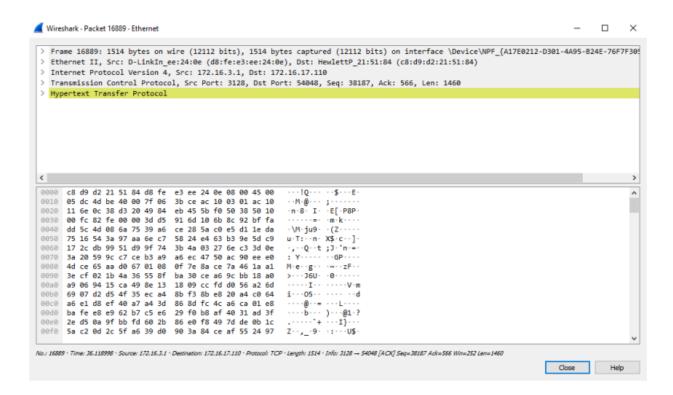
#### Q-4) Capture Live Packets using Wire shark.



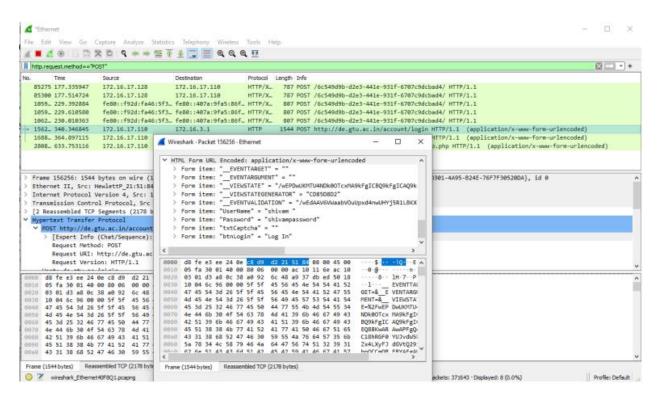
```
0000 01 00 5e 00 00 fb 74 27 ea d2 93 01 08 00 45 00 ·····t' ····E
0010 00 4c 22 23 00 00 ff 11 fb 26 ac 10 11 4b e0 00 ···"* ····* ···· ··· ··· ···
0020 00 fb 14 e9 14 e9 00 38 a6 e7 00 00 84 00 00 00 ··· ···*
0030 00 01 00 00 00 00 e4 9 54 37 35 2d 61 6b 61 73
0040 68 2d 63 6f 6d 05 6c 6f 63 61 6c 00 00 01 80 01 h-com·lo cal·····
0050 00 00 00 00 00 00 04 ac 10 11 4b
```

### Q-5) Analyze the contents of various protocols.





Q-6) Try to obtain the username and password of an insecure website using Wire shark.



## Q-7) Demonstrate the usage of hping.

```
200420116059@kali:~$ sudo hping3 -c 4 -n -i 2 www.gtu.ac.in
[sudo] password for 200420116059:

HPING www.gtu.ac.in (eth0 65.1.31.76): NO FLAGS are set, 40 headers + 0 data bytes

--- www.gtu.ac.in hping statistic ---
4 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms
```