



Faculty of Business and Information Technology
INFR 2600U: Intro. To Computer Security
Lab 1- Fall 2023

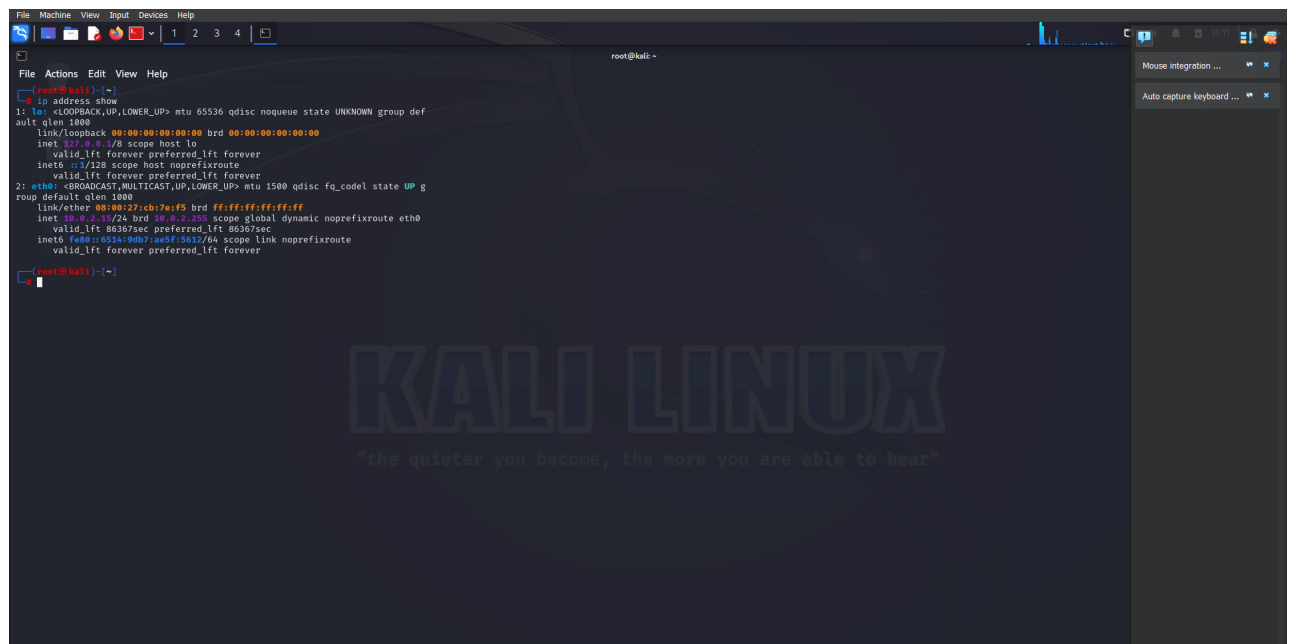
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1. MAC Address Spoofing

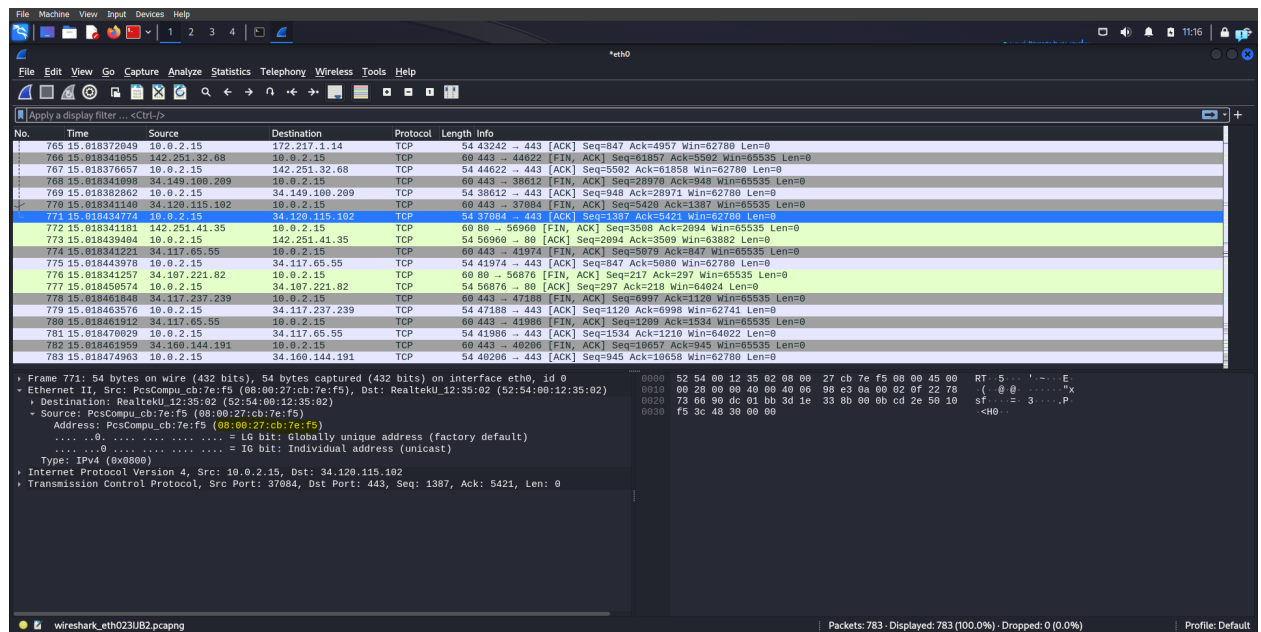
1.1



IP Address: 10.0.2.15

MAC: 08:00:27:cb:7e:f5

1.2



1.3

No.	Time	Source	Destination	Protocol	Length	Info
583	13.486332140	10.0.2.15	142.251.32.68	TCP	54	45776 → 443 [RST] Seq=5347 Win=0 Len=0
584	13.411568839	142.251.33.162	10.0.2.15	TCP	60	443 → 42646 [FIN, ACK] Seq=5769 Ack=1419 Win=65535 Len=0
585	13.411557923	10.0.2.15	142.251.33.162	TCP	54	4244 → 443 [ACK] Seq=1115 Win=5771 Win=65535 Len=0
586	13.41499357	142.251.32.66	10.0.2.15	TCP	60	443 → 36552 [FIN, ACK] Seq=5831 Ack=1426 Win=65535 Len=0
587	13.414526477	10.0.2.15	142.251.32.66	TCP	54	36552 → 443 [ACK] Seq=1426 Ack=5832 Win=62780 Len=0
588	13.414498509	142.251.41.66	10.0.2.15	TCP	60	443 → 59608 [FIN, ACK] Seq=8161 Ack=1784 Win=65535 Len=0
589	13.414541802	10.0.2.15	142.251.41.66	TCP	54	59608 → 443 [ACK] Seq=1704 Ack=8162 Win=62780 Len=0
590	13.41499642	172.217.1.14	10.0.2.15	TCP	60	443 → 59632 [FIN, ACK] Seq=4956 Ack=847 Win=65535 Len=0
591	13.414548669	10.0.2.15	172.217.1.14	TCP	54	59632 → 443 [ACK] Seq=847 Ack=4957 Win=62780 Len=0
592	13.414498094	142.251.33.163	10.0.2.15	TCP	60	443 → 48516 [FIN, ACK] Seq=4867 Ack=847 Win=65535 Len=0
593	13.414556961	10.0.2.15	142.251.33.163	TCP	54	48516 → 443 [ACK] Seq=847 Ack=4968 Win=62780 Len=0
594	13.41499741	142.251.41.35	10.0.2.15	TCP	60	88 → 45634 [FIN, ACK] Seq=4210 Ack=2513 Win=65535 Len=0
595	13.414564793	10.0.2.15	142.251.41.35	TCP	54	45634 → 88 [ACK] Seq=2513 Ack=4211 Win=63882 Len=0
596	13.41449785	34.107.221.82	10.0.2.15	TCP	60	88 → 60302 [FIN, ACK] Seq=217 Ack=297 Win=65535 Len=0
597	13.414575267	10.0.2.15	34.107.221.82	TCP	54	60302 → 88 [ACK] Seq=297 Ack=218 Win=64024 Len=0
598	13.415269925	34.117.65.55	10.0.2.15	TCP	60	443 → 43554 [FIN, ACK] Seq=5879 Ack=847 Win=65535 Len=0
599	13.415305459	10.0.2.15	34.117.65.55	TCP	54	43554 → 443 [ACK] Seq=847 Ack=5080 Win=62780 Len=0
600	13.41498237	34.117.65.55	10.0.2.15	TCP	60	443 → 43572 [FIN, ACK] Seq=1184 Ack=1540 Win=65535 Len=0
601	13.419425223	10.0.2.15	34.117.65.55	TCP	54	43572 → 443 [ACK] Seq=1540 Ack=1155 Win=64022 Len=0

Frame 585: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface eth0, id 0
Ethernet II, Src: PcsCompu_08:ae:11 (08:00:27:0e:ae:11), Dst: RealtekU_12:35:02 (52:54:00:12:35:02)
Destination: RealtekU_12:35:02 (52:54:00:12:35:02)
Source: PcsCompu_08:ae:11 (08:00:27:0e:ae:11)
Address: PcsCompu_08:ae:11 (08:00:27:0e:ae:11)
...0... = IG bit: Globally unique address (factory default)
...0... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.0.2.15, Dst: 142.251.33.162
Transmission Control Protocol, Src Port: 42646, Dst Port: 443, Seq: 1419, Ack: 5778, Len: 0

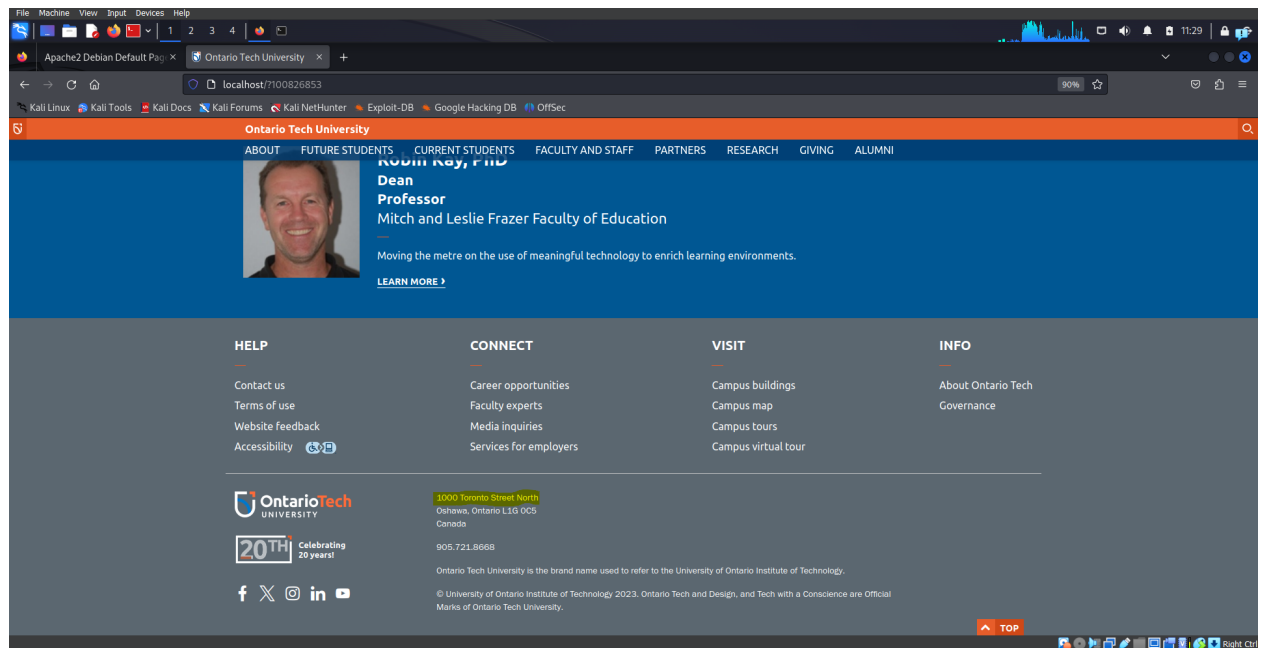
2. Website Spoofing

2.1

```
File Actions Edit View Help
root@kali: ~
root@kali:~# apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.24.0-1).
nginx set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@kali:~# systemctl start nginx
root@kali:~# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; disabled; preset: disabled)
   Active: active (running) since Tue 2023-09-19 11:21:30 EDT; 12s ago
     Docs: man:nginx(8)
    Process: 7737 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Process: 7738 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 7748 (nginx)
      Tasks: 3 (limit: 2265)
     Memory: 4.3M
           CPU: 13ms
    CGroup: /system.slice/nginx.service
            └─7740 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
              └─7741 "nginx: worker process"
                └─7742 "nginx: worker process"

Sep 19 11:21:30 kali systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Sep 19 11:21:30 kali systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
root@kali:~#
```

2.3



3. DNS Spoofing and Traffic Redirection

