## HTTP e HTTPS

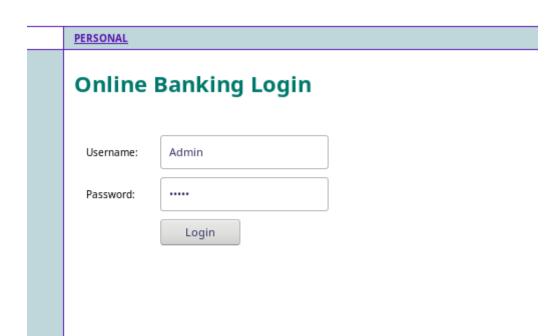
Lancio il comando ip address per vedere le mie config. di rete.

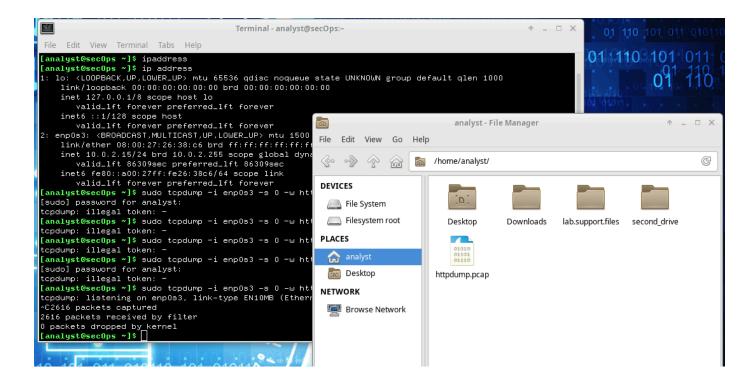
```
Terminal - analyst@secOps:~
     Edit View Terminal Tabs
[analyst@secOps ~]$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:26:38:c6 brd ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
       valid_lft 86309sec preferred_lft 86309sec
    inet6 fe80::a00:27ff:fe26:38c6/64 scope link
       valid_lft forever preferred_lft forever
[analyst@secOps ~]$
```

metto in ascolto il tcpdump col comando sudo tcpdump -i enp0s3 -s 0 -w httpdump.pcap

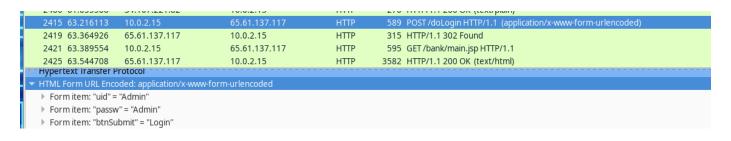
```
[analyst@secOps ~]$ sudo tcpdump -i enpOs3 -s O -w httpdump.pcap
tcpdump: listening on enpOs3, link-type EN1OMB (Ethernet), capture size 262144 bytes
```

vado su una pagina login suggerita dal laboratorio mi loggo e poi stoppo l'ascolto dalla console.





Ottengo le credenziali del login dal file di WireShark, task completa.

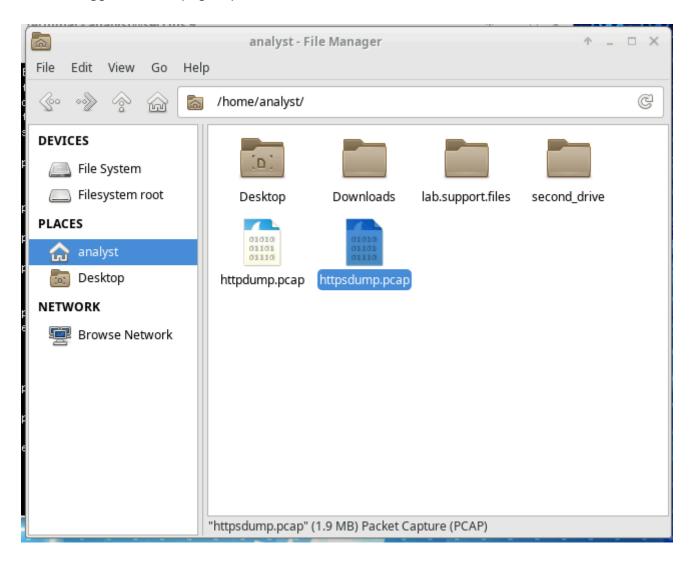


## **HTTPS**

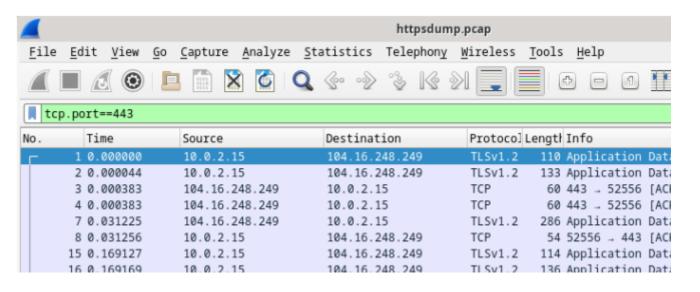
Stessa cosa ho fatto qui, ho avviato l'ascolto tcp dump.

```
Terminal - analyst@secOps:~
File
     Edit View Terminal Tabs Help
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: enpOs3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:26:38:c6 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
       valid_lft 86309sec preferred_lft 86309sec
    inet6 fe80::a00:27ff:fe26:38c6/64 scope link
       valid_lft forever preferred_lft forever
[analyst@secOps ~]$ sudo topdump -i enpOs3 -s O -w httpdump.pcap
[sudo] password for analyst:
topdump: illegal token:
[analyst@secOps ~]$ sudo tcpdump -i enpOs3 -s O -w httpdump.pcap
tcpdump: illegal token:
[analyst@secOps ~]$ sudo tcpdump -i enpOs3 -s O -w httpdump.pcap
tcpdump: illegal token:
[analyst@secOps ~]$ sudo tcpdump –i enpOs3 –s O –w httpdump.pcap
[sudo] password for analyst:
topdump: illegal token:
[analyst@secOps ~]$ sudo topdump -i enp0s3 -s 0 -w httpdump.pcap
tcpdump: listening on enpOs3, link-type EN1OMB (Ethernet), capture size 262144 bytes
^C2616 packets captured
2616 packets received by filter
O packets dropped by kernel
[analyst@secOps ~]$ sudo tcpdump -i enpOs3 -s O -w httpdump.pcap
[sudo] password for analyst:
 analyst@secOps ~]$ sudo tcpdump -i enpOs3 -s O -w httpsdump.pcap
[sudo] password for analyst:
tcpdump: listening on enpOs3, link–type EN1OMB (Ethernet), capture size 262144 bytes
```

Mi sono loggato ad una pagina protetta HTTPS con un mio account ed ho ottenuto il file.



Ho analizzato i pacchetti per vedere se riuscissi anche qua a leggere i dati del login ma nulla TLS ha funzionato bene ;)



▼ TLSv1.2 Record Layer: Application Data Protocol: http-over-tls

Content Type: Application Data (23)

Version: TLS 1.2 (0x0303)

Length: 51

Encrypted Application Data: 7fa9037731c6e38e6213aacc15a0a7281f94046fdb237be9...