Laborator 09

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Sheet

```
netcat # creare server/client de TCP/UDP
netstat # vedem pe ce porturi asculta (TCP/UDP)
        # afiseaza pagina web/resursa
curl
         # downloadeaza pagina web/resursa
wget
# FTP -> merge cu autentificare
```

Pentru a descarca un fisir/director de pe GitHub folosind curl/wget, trebuie folosit URL-ul pentru fisierul raw.

```
$ wget -O LICENSE.md
https://raw.githubusercontent.com/TrifanBogdan24/workshop-soft-
eng/refs/heads/main/LICENSE
$ wget -0 angoster-terminal-prompt-theme.json
https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-
posh/refs/heads/main/themes/agnoster.minimal.omp.json
$ curl -o avit.omp.json
https://raw.githubusercontent.com/JanDeDobbeleer/oh-my-
posh/refs/heads/main/themes/avit.omp.json
```

Task 1

In terminalul 1 (serverul):

```
root@host:~# netcat -l -u 2024
```

In terminalul 2 (clientul):

```
root@host:~$ netstat -tlnp
root@host:~$ netstat -anu
root@host:~$ echo "Un mesaj" | nc -u localhost 2024
```

Task 2

```
# Afiseaza regulile de IPTABLES
root@host:~# iptables-save

root@host:~# iptables -t nat -A PREROUTING -p tcp --dport 8080 -j DNAT --
to-destination 192.168.1.2:80

root@host:~# iptables-save
```

Apoi

Task 3

```
bogdan.trifan2412@fep8.grid.pub.ro$ wget -q http://10.9.3.64:8080
```

```
root@host:~# wget https://red/file.dat
root@host:~# wget --no-check-certificate https://red/file.dat
root@host:~# ls -alh file.dat
root@host:~# cat file.dat
```

Task 4

```
$ wget -h | grep 'recursive'
```

```
root@host:~# apt-get install tree
```

```
roo@host:~# which tree
roo@host:~# clear
roo@host:~# wget -r http://red/folder
roo@host:~# ls -a
roo@host:~# ls
roo@host:~# tree red
```

Task 5

Rezolvare (cu escapare):

```
root@host:~# wget -0 raspuns.txt "http://localhost/login.php?
name=Lab10\&email=rl@upb.ro"

root@host:~# cat raspuns.txt
<html>
<body>
Welcome Lab10\<br>
Your email address is: rl@upb.ro</body>
</html>
```

Task 6

```
root@host:~# curl http://red/index.html
<h1>Laborator 10 - pe red</h1>
root@host:~# curl icanhazip.com
141.85.150.39
root@host:~#
```

Task 7

NU rula \$ cat file-2-of-10M! (Mult text, not human-readable)

```
root@host:~# curl ftp://red/download/file-10M.dat -o file-10M.dat
 % Total
          % Received % Xferd Average Speed
                                          Time
                                                   Time
                                                           Time
Current
                             Dload Upload Total
                                                   Spent
                                                           Left
Speed
100 10.0M 100 10.0M 0 0 498M
                                       0 --:--:--
526M
root@host:~# ls -alh file-10M.dat
-rw-r--r-- 1 root root 10M Dec 5 00:16 file-10M.dat
```

```
root@host:~# # NU RULA: cat file-10M.dat
root@host:~# wget -0 file-2-of-10M ftp://red/download/file-10M.dat
--2024-12-05 00:17:49-- ftp://red/download/file-10M.dat
          => 'file-2-of-10M'
Resolving red (red)... 192.168.1.2
Connecting to red (red)|192.168.1.2|:21... connected.
Logging in as anonymous ... Logged in!
==> SYST ... done. ==> PWD ... done.
==> TYPE I ... done. ==> CWD (1) /download ... done.
==> SIZE file-10M.dat ... 10485760
==> PASV ... done. ==> RETR file-10M.dat ... done.
Length: 10485760 (10M) (unauthoritative)
file-10M.dat
                           100%
[========] 10.00M --.-KB/s
                                                                 in
0.02s
2024-12-05 00:17:49 (577 MB/s) - 'file-2-of-10M' saved [10485760]
root@host:~# ls -alh file-2-of-10M
-rw-r--r-- 1 root root 10M Dec 5 00:17 file-2-of-10M
root@host:~# diff file-2-of-10M file-10M.dat
```

Task 8

NU rula \$ ana-ftp-file-5M. dat! (Mult text, not human-readable)

Task 9

Utilitarul mail foloseste? drept prompt. Asteapta interctiune la **stdin**.

```
root@host:~# su bogdan
bogdan@host:/root$ cd ~

# Tre' sa introduci date la stdin
bogdan@host:~$ mail -s "Invitatie la film" corina
```

```
root@host:~# su corina
corina@host:/root$ cd ~

# Afiseaza mail-ul, tot la fel, interactiune la stdin
corina@host:~$ mail
corina@host:~$ ls /home/corina/mbox
corina@host:~$ ls -alh /home/corina/mbox
corina@host:~$ cat /home/corina/mbox
```

```
bogdan@host:/root$ cd ~
bogdan@host:~$ echo 'Salut' | mail -s ", merge?" corina
bogdan@host:~$ su corina
corina@host:/home/bogdan$ cd ~
corina@host:~$ mail
```

```
# Trimit mail pe localhost (sie insasi/insusi)
corina@host:~$ echo "<Mesaj>" | mail -s "<Titlu>" corina
corina@host:~$ mail
```

```
bogdan@host:~$ echo "<Mesaj>" | mail -s "<Titlu>" corina
bogdan@host:~$ su corina
corina@host:/home/bogdan$ mail
```

Task 10

Adresa de mail nipasip578@luxyss.com este o adresa temporara de mail (oferita de https://temp-mail.org/en/)

```
bogdan@host:~$ whoami
bogdan
bogdan@host:~$ echo 'Ba Bogdane, tocmai ai trimis cv din terminal\nIa
vezi\n:))' | mail -s 'Use Of Linux' $GMAIL
bogdan@host:~$ mail
```

Nu am putut sa trimit cu adresa mea de gmail; a blocat gmail-ul trimiterea.

Dar, am reusit dupa ce am obtinut o adresa de pe https://temp-mail.org/en.

```
bogdan@host:~$ echo 'Ba Bogdane, tocmai ai trimis cv din terminal\nIa vezi\n:))' | mail -s 'Use Of Linux' nipasip578@luxyss.com
```

```
bogdan@host:~$ echo 'MESAJ' | mail -s 'TITLU'
nipasip578@luxyss.combogdan@host:~$ mail
No mail for bogdan
```

```
bogdan@host:~$ which s-nail
/usr/bin/s-nail

bogdan@host:~$ echo -e "MESAJ" | s-nail -r "bogdan.georgescu@rl.cs.pub.ro"
-s "TITLU" nipasip578@luxyss.com

bogdan@host:~$ echo -e "Luni in intervalul 18:00-20:00 are loc un minunat
workshop de Rust (da da da). E de Rust. E rapid (blazzingly fast). Stim cu
toti cine preda" | s-nail -r "bogdan.georgescu@rl.cs.pub.ro" -s "Workshop"
nipasip578@luxyss.com
bogdan@host:~$
```

Task 11

Task 11 | Uploadare de fisier

```
student@host:~$ su bogdan
bogdan@host:/home/student$ cd ~
bogdan@host:~$ ls
bogdan-ftp-data-3M.dat
bogdan@host:~$ whoami
bogdan
bogdan@host:~$ curl -T ~/bogdan-ftp-data-3M.dat ftp://red/ --user
ana:student
 % Total
          % Received % Xferd Average Speed
                                             Time
                                                    Time
                                                            Time
Current
                              Dload Upload Total
                                                            Left
                                                    Spent
Speed
100 3072k 0 0 100 3072k 0 66.0M --:--:-- --:--:--
66.6M
```

Verificare:

```
root@host:/home/student# go red
student@red:~$ su ana
ana@red:/home/student$ cd ~
```

```
ana@red:~$ ls -1
ana-ftp-file-5M.dat
bogdan-ftp-data-3M.dat
```

Task 11 | Descarcare fisier uploadat

```
student@host:~$ su corina
corina@host:/home/student$ cd ~
corina@host:~$ curl -o ./bogdan-ftp-data-3M.dat ftp://red/bogdan-ftp-data-
3M.dat --user ana:student
 % Total % Received % Xferd Average Speed Time
                                                  Time
                                                          Time
Current
                             Dload Upload Total Spent
                                                          Left
Speed
100 3072k 100 3072k 0 0 65.6M 0 --:--:- --:--
66.6M
corina@host:~$ ls -1
bogdan-ftp-data-3M.dat
corina@host:~$ rm bogdan-ftp-data-3M.dat
corina@host:~$ curl -o ./bogdan-ftp-data-3M.dat ftp://red//home/ana/bogdan-
ftp-data-3M.dat --user ana:student
 % Total % Received % Xferd Average Speed Time
                                                          Time
                                                  Time
Current
                             Dload Upload Total Spent
                                                         Left
Speed
100 3072k 100 3072k 0 0 65.9M
                                       0 --:--:--
66.6M
```

Verificare:

```
root@host:/home/student# go red

student@red:~$ su ana
ana@red:/home/student$ cd ~

ana@red:~$ whoami
ana

ana@red:~$ la -1
ana-ftp-file-5M.dat
.bash_history
.bash_logout
.bashrc
```

```
bogdan-ftp-data-3M.dat
.profile

ana@red:~$ ls /home/ana/bogdan-ftp-data-3M.dat
/home/ana/bogdan-ftp-data-3M.dat

ana@red:~$ ls -1
ana-ftp-file-5M.dat
bogdan-ftp-data-3M.dat
```

Task 12

```
root@host:~# apt-get install sharutils
root@host:~# uuencode store.zip store.zip > arhiva_store.uue
root@host:~# echo "Citeste cu atentie arhiva\nArhiva nu stiu ce
contine\nChiar nu\n" | mail -s "Assignment Archive" nipasip578@luxyss.com <
arhiva_store.uue</pre>
```

```
$ uuencode file file > file.uue
$ echo <MESAJ> | mail -s <TITLU> <mail-address> < file.uue</pre>
```