Lab 9

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

```
bogdan.trifan2412@fep8.grid.pub.ro$ curl http://10.9.3.64:8080
<h1>Laborator 10 - pe red</h1>


bogdan.trifan2412@fep8.grid.pub.ro$ wget http://10.9.3.64:8080
--2024-12-04 23:50:38--  http://10.9.3.64:8080/
Connecting to 10.9.3.64:8080... connected.
HTTP request sent, awaiting response... 200 OK
Length: 31 [text/html]
Saving to: 'index.html'

index.html                    100%
[===========================================>]      31  --.-KB/s    in 0s

2024-12-04 23:50:38 (2.13 MB/s) - 'index.html' saved [31/31]
```

```
bogdan.trifan2412@fep8.grid.pub.ro$ cat index.html
<h1>Laborator 10 - pe red</h1>
```

Task 3

```
bogdan.trifan2412@fep8.grid.pub.ro$ curl http://10.9.3.64:8080
<h1>Laborator 10 - pe red</h1>


bogdan.trifan2412@fep8.grid.pub.ro$ wget http://10.9.3.64:8080
--2024-12-04 23:50:38--  http://10.9.3.64:8080/
Connecting to 10.9.3.64:8080... connected.
HTTP request sent, awaiting response... 200 OK
Length: 31 [text/html]
Saving to: 'index.html'

index.html                       100%
[=========================================>]      31  --.-KB/s     in 0s

2024-12-04 23:50:38 (2.13 MB/s) - 'index.html' saved [31/31]

bogdan.trifan2412@fep8.grid.pub.ro$ cat index.html
<h1>Laborator 10 - pe red</h1>
```

```
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

```
root@host:~# wget -O ciudat.txt http://localhost/login.php?
name=Lab10&email=rl@upb.ro
root@host:~# cat ciudat.txt
<html>
<body>
Welcome Lab10<br>
Your email address is: </body>
</html>
```

Rezolvare (cu escapare):

```
root@host:~# wget -O 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 -O 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)

```
root@host:~# curl -o ana-ftp-file-5M.dat ftp://red/ana-ftp-file-5M.dat --
user ana:student
  % Total    % Received % Xferd  Average Speed   Time    Time     Time
Current
                                 Dload  Upload   Total   Spent    Left
Speed
100 5120k  100 5120k    0      0   96.8M        0 --:--:-- --:--:-- --:--:--
98.0M
root@host:~# ls -alh ana-ftp-file-5M.dat
-rw-r--r-- 1 root root 5.0M Dec  5 00:21 ana-ftp-file-5M.dat
root@host:~# # NU RULA: cat ana-ftp-file-5M.dat
```

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.combogdan@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:~$
```