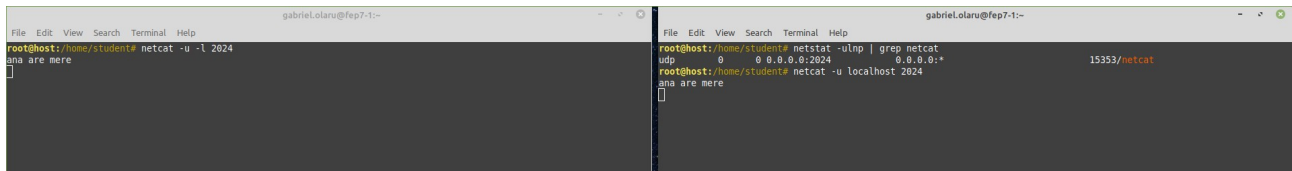


Lab 10 ReLe

Olaru Gabriel Iulian, 334 CC

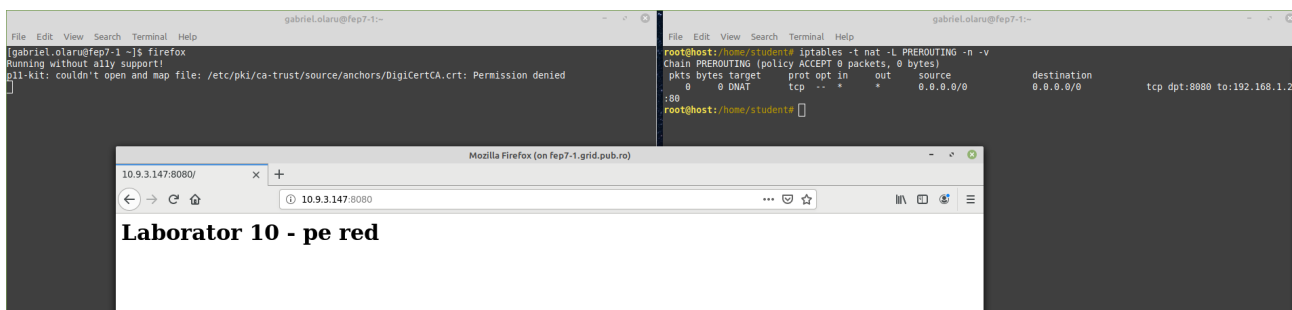
EX 1:



The image shows two terminal windows. The left window shows a netcat listener on port 1234, receiving a connection from 10.9.3.147. The right window shows a netcat listener on port 15353, receiving a connection from 10.9.3.147. Both windows show the IP address and the text 'ana are mere'.

```
gabriel.olaru@fep7-1:~  
root@host:/home/student# netcat -u -l 1234  
10.9.3.147:1234: ana are mere  
root@host:/home/student#  
  
gabriel.olaru@fep7-1:~  
root@host:/home/student# netstat -ulnp | grep netcat  
tcp        0      0 0.0.0.0:15353 0.0.0.0:*        LISTENING 15353/netcat  
root@host:/home/student# netcat -u localhost 1234  
10.9.3.147:1234: ana are mere  
root@host:/home/student#
```

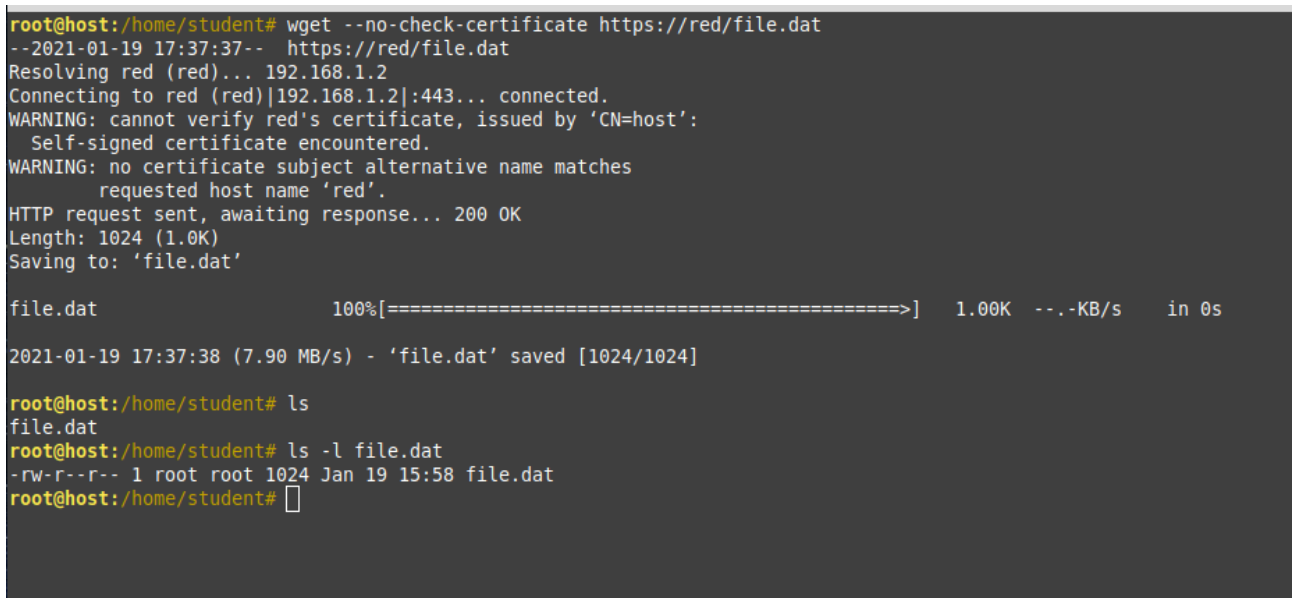
EX 2:



The image shows two terminal windows and a Firefox browser window. The left terminal window shows the installation of Firefox. The right terminal window shows the installation of iptables and the configuration of a rule to allow traffic from 10.9.3.147 to port 8080. The Firefox browser window shows the URL 10.9.3.147:8080 and the text 'Laborator 10 - pe red'.

```
gabriel.olaru@fep7-1:~  
[gabriel.olaru@fep7-1 ~]$ firefox  
Running without ally support!  
glib-kits: couldn't open and map file: /etc/pki/ca-trust/source/anchors/DigiCertCA.crt: Permission denied  
root@host:/home/student#  
  
gabriel.olaru@fep7-1:~  
root@host:/home/student# iptables -t nat -L PREROUTING -n -v  
Chain PREROUTING (policy ACCEPT 0 packets, 0 bytes)  
pkts bytes target prot opt in out source destination  
0 0 DNAT tcp -- * * 0.0.0.0/0 0.0.0.0/0 tcp dpt:8080 to:192.168.1.2:80  
root@host:/home/student#  
  
Mozilla Firefox (on fep7-1.grid.pub.ro)  
10.9.3.147:8080/  
10.9.3.147:8080  
Laborator 10 - pe red
```

EX3:



The image shows a terminal window with the following commands and output:

```
root@host:/home/student# wget --no-check-certificate https://red/file.dat  
--2021-01-19 17:37:37-- https://red/file.dat  
Resolving red (red)... 192.168.1.2  
Connecting to red (red)|192.168.1.2|:443... connected.  
WARNING: cannot verify red's certificate, issued by 'CN=host':  
Self-signed certificate encountered.  
WARNING: no certificate subject alternative name matches  
requested host name 'red'.  
HTTP request sent, awaiting response... 200 OK  
Length: 1024 (1.0K)  
Saving to: 'file.dat'  
  
file.dat 100%[=====] 1.00K --.-KB/s in 0s  
2021-01-19 17:37:38 (7.90 MB/s) - 'file.dat' saved [1024/1024]  
  
root@host:/home/student# ls  
file.dat  
root@host:/home/student# ls -l file.dat  
-rw-r--r-- 1 root root 1024 Jan 19 15:58 file.dat  
root@host:/home/student#
```

EX4:

```
folder/mobile/Google/Nexus7/ 100%[=====>]      989  --.-KB/s   in 0s
2021-01-19 17:39:06 (39.7 MB/s) - 'folder/mobile/Google/Nexus7/index.html?C=D;O=D.tmp' saved [989/989]

Removing folder/mobile/Google/Nexus7/index.html?C=D;O=D.tmp since it should be rejected.

FINISHED --2021-01-19 17:39:06--
Total wall clock time: 0.8s
Downloaded: 143 files, 141K in 0.004s (38.5 MB/s)
root@host:/home/student# tree folder
folder
├── embedded
│   ├── Qualcomm
│   │   ├── Krait
│   │   │   └── info.txt
│   │   └── Scorpion
│   │       └── info.txt
│   └── TI
│       ├── OMAP3
│       │   └── info.txt
│       └── OMAP4
│           └── info.txt
└── mobile
    ├── Apple
    │   ├── iPadAir
    │   │   └── info.txt
    │   └── iPhone5S
    │       └── info.txt
    └── Google
        ├── Nexus4
        │   └── info.txt
        └── Nexus7
            └── info.txt

14 directories, 8 files
root@host:/home/student#
```

EX5:

```
root@host:/home/student# wget http://localhost/login.php?name=Lab10&email=rl@pub.ro
--2021-01-19 17:40:51--  http://localhost/login.php?name=Lab10&email=rl@pub.ro
Resolving localhost (localhost)... 127.0.0.1
Connecting to localhost (localhost)|127.0.0.1|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 76 [text/html]
Saving to: 'login.php?name%2F=Lab10&email=rl@pub.ro'

login.php?name%2F=Lab10&emai 100%[=====>]      76  --.-KB/s   in 0s
2021-01-19 17:40:51 (2.11 MB/s) - 'login.php?name%2F=Lab10&email=rl@pub.ro' saved [76/76]

root@host:/home/student# ls
file.dat  folder  'login.php?name%2F=Lab10&email=rl@pub.ro'
root@host:/home/student# cat login.php?name%2F=Lab10&email=rl@pub.ro
<html>
<body>

Welcome <br>
Your email address is: rl@pub.ro</body>
</html>
root@host:/home/student#
```

EX6:

```
root@host:/home/student# curl http://red/index.html
<h1>Laborator 10 - pe red</h1>
root@host:/home/student# curl icanhazip.com
141.85.241.165
root@host:/home/student#
```

EX7:

```
root@host:/home/student# curl ftp://red/download/file-10M.dat
Warning: Binary output can mess up your terminal. Use "--output -" to tell
Warning: curl to output it to your terminal anyway, or consider "--output
Warning: <FILE>" to save to a file.
root@host:/home/student# 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  82.6M    0 --:--:-- --:--:-- --:--:--  83.3M
root@host:/home/student# ls -l file-10M.dat
-rw-r--r-- 1 root root 10485760 Jan 19 17:45 file-10M.dat
root@host:/home/student# wget ftp://reddownload/file-10M.dat
--2021-01-19 17:46:10-- ftp://reddownload/file-10M.dat
=> 'file-10M.dat.1'
Resolving reddownload (reddownload)... failed: Name or service not known.
wget: unable to resolve host address 'reddownload'
root@host:/home/student# wget ftp://red/download/file-10M.dat
--2021-01-19 17:46:16-- ftp://red/download/file-10M.dat
=> 'file-10M.dat.1'
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.1          100%[=====] 10.00M  --.-KB/s   in 0.1s

2021-01-19 17:46:16 (80.6 MB/s) - 'file-10M.dat.1' saved [10485760]
root@host:/home/student#
```

EX8:

```
File Edit View Search Terminal Help
root@host:/home/student# curl -u "ana:student" ftp://red/ana-ftp-file-5M.dat -o file.5M
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 5120k  100 5120k    0     0  30.3M    0 --:--:-- --:--:-- --:--:--  30.1M
root@host:/home/student# ls -l file.5M
ls: cannot access 'file.5M': No such file or directory
root@host:/home/student# ls
file-10M.dat  file-10M.dat.1  file.5M  file.dat  folder  'login.php?name%2F=Lab10&email=rl@pub.ro'
root@host:/home/student# ls -l file.5M
-rw-r--r-- 1 root root 5242880 Jan 19 17:47 file.5M
root@host:/home/student#
```

EX9:

```
corina@host:~$ mail
"/home/corina/Maildir": 1 message 1 new      17/423  Invitatie la film
? 1
Return-Path: <bogdan@host>
X-Original-To: corina@host
Delivered-To: corina@host
Received: by host (Postfix, from userid 1003)
        id 789E422C33; Tue, 19 Jan 2021 17:52:23 +0000 (UTC)
Subject: Invitatie la film
To: <corina@host>
X-Mailer: mail (GNU Mailutils 3.4)
Message-Id: <20210119175223.789E422C33@host>
Date: Tue, 19 Jan 2021 17:52:23 +0000 (UTC)
From: bogdan@host

Buna, Corina!

Vii la filmul "Ender's Game"?

Bogdan
? q
Saved 1 message in /home/corina/mbox
Held 0 messages in /home/corina/Maildir
corina@host:~$
```

```
bogdan@host:~$ mail -s "Invitatie la film" corina
Cc:
Buna, Corina!

Vii la filmul "Ender's Game"?

Bogdan
bogdan@host:~$
```

```
1 of 3,182 < >
Hello World! Inbox x
? bogdan@host 7:55 PM (0 minutes ago) ☆ ↶ ⋮
to me ▾
Hello World!
Reply Forward
```

```
bogdan@host:~$ mail -s "Hello World!" iulianolaru249@gmail.com
Cc:
Hello World!
bogdan@host:~$
```

EX10:

```
10p] Port forwarding | X Instances - OpenStack Dash X Hello - iulianolaru249@gm X +
s://mail.google.com/mail/u/0/#inbox/FMfcgxwKkbjLZ ... ☆
Search mail
Hello Inbox x
? root <bogdan.georgescu@rl.cs.pub.ro> 8:02 PM (2 minutes ago) ☆ ↶ ⋮
to me ▾
world

? root <bogdan.georgescu@rl.cs.pub.ro> 8:04 PM (0 minutes ago) ☆ ↶ ⋮
to me ▾
asd
Reply Forward
```

```
root@host:/home/student# mail -r bogdan.georgescu@rl.cs.pub.ro -s "Hello" iulianolaru249@gmail.com
Cc:
asd
root@host:/home/student# snail -r bogdan.georgescu@rl.cs.pub.ro -s "Hello2" iulianolaru249@gmail.com
asd
Command 'snail' not found, did you mean:
  command 'sail' from deb bsdgames
  command 'snmail' from deb sn
  command 's-nail' from deb s-nail
Try: apt install <deb name>
root@host:/home/student# s-nail -r bogdan.georgescu@rl.cs.pub.ro -s "Hello2" iulianolaru249@gmail.com
asd
dsa
"D
-----
Envelope contains:
From: bogdan.georgescu@rl.cs.pub.ro
To: iulianolaru249@gmail.com
Subject: Hello2
Send this message [yes/no, or recompose]? yes
root@host:/home/student#
```