

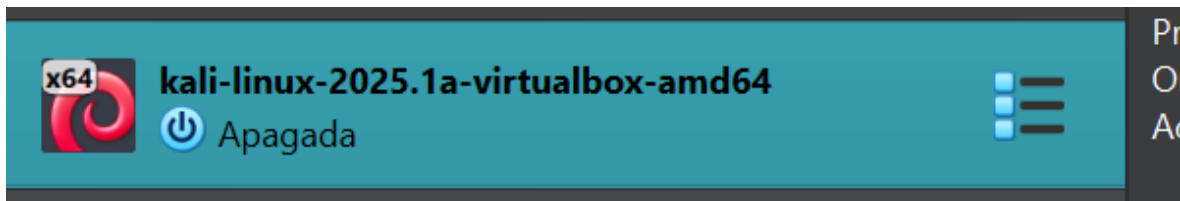
LABORATORIO 6

CIBERSEGURIDAD

FABIAN ANDRES BENJUMEA

**UNIVERSIDAD POPULAR DEL CESAR
VALLEDUPAR
2025**

Máquina virtual



```
root@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
└─$ su -  
Password:  
su: Authentication failure  
(kali@kali)-[~]  
└─$ su -  
Password:  
(root@kali)-[~]  
#  
(root@kali)-[~]  
# netstate -tule  
Command 'netstate' not found, did you mean:  
  command 'netstat' from deb net-tools  
Try: apt install <deb name>  
(root@kali)-[~]  
# netstat -tule  
Active Internet connections (only servers)  
Proto Recv-Q Send-Q Local Address           Foreign Address         State       User        Inode  
(root@kali)-[~]  
# apt update  
Hit:1 http://http.kali.org/kali kali-rolling InRelease  
7 packages can be upgraded. Run 'apt list --upgradable' to see them.  
(root@kali)-[~]  
#
```

```
(root@kali)-[~]
# apt update
Hit:1 http://http.kali.org/kali kali-rolling InRelease
7 packages can be upgraded. Run 'apt list --upgradable' to see them.

(root@kali)-[~]
# ufw enable
Command 'ufw' not found, but can be installed with:
apt install ufw
Do you want to install it? (N/y)Y
apt install ufw
The following packages were automatically installed and are no longer required:
  icu-devtools  libgeos3.13.0  liblbfgsb0  libpython3.12-stdlib  python3.12-tk
  libflac12t64  libglapi-mesa  libpoppler145  libpython3.12t64  ruby-zeitwerk
  libfuse3-3  libicu-dev  libpython3.12-minimal  python3-setproctitle  strongswan
Use 'apt autoremove' to remove them.

Installing:
  ufw

Suggested packages:
  rsyslog

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 7
  Download size: 169 kB
  Space needed: 880 kB / 63.5 GB available

Get:1 http://kali.download/kali kali-rolling/main amd64 ufw all 0.36.2-9 [169 kB]
Fetched 169 kB in 1s (176 kB/s)
Preconfiguring packages ...
Selecting previously unselected package ufw.
(Reading database ... 416528 files and directories currently installed.)
Preparing to unpack .../archives/ufw_0.36.2-9_all.deb ...
Unpacking ufw (0.36.2-9) ...
Setting up ufw (0.36.2-9) ...
Creating config file /etc/ufw/before.rules with new version
Creating config file /etc/ufw/before6.rules with new version
Creating config file /etc/ufw/after.rules with new version
Creating config file /etc/ufw/after6.rules with new version
update-rc.d: We have no instructions for the ufw init script.
update-rc.d: It looks like a non-network service, we enable it.
Created symlink '/etc/systemd/system/multi-user.target.wants/ufw.service' -> '/usr/lib/systemd/system/ufw.service'.
Processing triggers for kali-menu (2025.2.0) ...
Processing triggers for man-db (2.13.0-1) ...

(root@kali)-[~]
#
```

```
(root@kali)-[~]
# ufw enable
Firewall is active and enabled on system startup

(root@kali)-[~]
```

```
(root@kali)-[~]
# ufw status
Status: active
```

```
root@kali: ~
File Actions Edit View Help
(root@kali)-[~]
# iptables -L
Chain INPUT (policy DROP)
target prot opt source destination
ufw-before-logging-input all -- anywhere anywhere
ufw-before-input all -- anywhere anywhere
ufw-after-input all -- anywhere anywhere
ufw-after-logging-input all -- anywhere anywhere
ufw-reject-input all -- anywhere anywhere
ufw-track-input all -- anywhere anywhere

Chain FORWARD (policy DROP)
target prot opt source destination
ufw-before-logging-forward all -- anywhere anywhere
ufw-before-forward all -- anywhere anywhere
ufw-after-forward all -- anywhere anywhere
ufw-after-logging-forward all -- anywhere anywhere
ufw-reject-forward all -- anywhere anywhere
ufw-track-forward all -- anywhere anywhere

Chain OUTPUT (policy ACCEPT)
target prot opt source destination
ufw-before-logging-output all -- anywhere anywhere
ufw-before-output all -- anywhere anywhere
ufw-after-output all -- anywhere anywhere
ufw-after-logging-output all -- anywhere anywhere
ufw-reject-output all -- anywhere anywhere
ufw-track-output all -- anywhere anywhere

Chain ufw-after-forward (1 references)
target prot opt source destination

Chain ufw-after-input (1 references)
target prot opt source destination
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:netbios-ns
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:netbios-dgm
ufw-skip-to-policy-input tcp -- anywhere anywhere tcp dpt:netbios-ssn
ufw-skip-to-policy-input tcp -- anywhere anywhere tcp dpt:microsoft-ds
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:bootps
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:bootpc
ufw-skip-to-policy-input all -- anywhere anywhere ADDRTYPE match dst-type BROADCAST

Chain ufw-after-logging-forward (1 references)
target prot opt source destination
LOG all -- anywhere anywhere limit: avg 3/min burst 10 LOG level warn prefix "[UFW
BLOCK] "
```

```
(root@kali)-[~]
# ufw default deny incoming
Default incoming policy changed to 'deny'
(be sure to update your rules accordingly)
```

```
(root@kali)-[~]
# ufw default allow outgoing
Default outgoing policy changed to 'allow'
(be sure to update your rules accordingly)
```

```
(root@kali)-[~]  
# iptables -P INPUT DROP  
  
(root@kali)-[~]  
# iptables -P OUTPUT ACCEPT
```

```
(root@kali)-[~]  
# ufw allow ssh  
Rule added  
Rule added (v6)  
  
(root@kali)-[~]  
# ufw allow ssh  
Skipping adding existing rule  
Skipping adding existing rule (v6)  
  
(root@kali)-[~]  
#
```

```
(root@kali)-[~]  
# ufw allow http  
Rule added  
Rule added (v6)  
  
(root@kali)-[~]  
# ufw allow https  
Rule added  
Rule added (v6)  
  
(root@kali)-[~]  
#
```

Try `iptables -h` or `iptables --help` for more information.

```
(root@kali)-[~]  
# iptables -A INPUT -p tcp --dport 22 -j ACCEPT  
  
(root@kali)-[~]  
# iptables -A INPUT -p tcp --dport 80 -j ACCEPT  
  
(root@kali)-[~]  
# iptables -A INPUT -p tcp --dport 443 -j ACCEPT  
  
(root@kali)-[~]  
#
```



```
(root@kali)-[~]
# ufw status numbered
Status: active
```

	To	Action	From
[1]	22/tcp	ALLOW IN	Anywhere
[2]	80/tcp	ALLOW IN	Anywhere
[3]	443	ALLOW IN	Anywhere
[4]	22/tcp (v6)	ALLOW IN	Anywhere (v6)
[5]	80/tcp (v6)	ALLOW IN	Anywhere (v6)
[6]	443 (v6)	ALLOW IN	Anywhere (v6)

```
(root@kali)-[~]
```

```
(root@kali)-[/home/kali]
# iptables -L
```

```
Chain INPUT (policy DROP)
target prot opt source destination
ufw-before-logging-input all -- anywhere anywhere
ufw-before-input all -- anywhere anywhere
ufw-after-input all -- anywhere anywhere
ufw-after-logging-input all -- anywhere anywhere
ufw-reject-input all -- anywhere anywhere
ufw-track-input all -- anywhere anywhere
ACCEPT tcp -- anywhere anywhere tcp dpt:ssh
ACCEPT tcp -- anywhere anywhere tcp dpt:http
ACCEPT tcp -- anywhere anywhere tcp dpt:https

Chain FORWARD (policy DROP)
target prot opt source destination
ufw-before-logging-forward all -- anywhere anywhere
ufw-before-forward all -- anywhere anywhere
ufw-after-forward all -- anywhere anywhere
ufw-after-logging-forward all -- anywhere anywhere
ufw-reject-forward all -- anywhere anywhere
ufw-track-forward all -- anywhere anywhere

Chain OUTPUT (policy ACCEPT)
target prot opt source destination
ufw-before-logging-output all -- anywhere anywhere
ufw-before-output all -- anywhere anywhere
ufw-after-output all -- anywhere anywhere
ufw-after-logging-output all -- anywhere anywhere
ufw-reject-output all -- anywhere anywhere
ufw-track-output all -- anywhere anywhere

Chain ufw-after-forward (1 references)
target prot opt source destination

Chain ufw-after-input (1 references)
target prot opt source destination
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:netbios-ns
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:netbios-dgm
ufw-skip-to-policy-input tcp -- anywhere anywhere tcp dpt:netbios-ssn
ufw-skip-to-policy-input tcp -- anywhere anywhere tcp dpt:microsoft-ds
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:bootps
ufw-skip-to-policy-input udp -- anywhere anywhere udp dpt:bootpc
ufw-skip-to-policy-input all -- anywhere anywhere ADDRTYPE match dst-type BROADCAST

Chain ufw-after-logging-forward (1 references)
```

```
(root@kali)-[/home/kali]
# ufw allow from 192.168.1.5
Rule added
(root@kali)-[/home/kali]
```

```
(root@kali)-[/home/kali]
# ufw deny from 192.168.1.5
Rule updated
```

```
(root@kali)-[/home/kali]
# iptables -A INPUT -s 192.168.1.5 -j DROP

(root@kali)-[/home/kali]
# iptables -A INPUT -s 192.168.1.5 -j ACCEPT
```

```
(root@kali)-[/home/kali]
# iptables -L
Chain INPUT (policy DROP)
target     prot opt source                destination
fw-before-logging-input all -- anywhere              anywhere
fw-before-input all -- anywhere              anywhere
fw-after-input all -- anywhere              anywhere
fw-after-logging-input all -- anywhere              anywhere
fw-reject-input all -- anywhere              anywhere
fw-track-input all -- anywhere              anywhere
ACCEPT     tcp  --  anywhere              anywhere            tcp dpt:ssh
ACCEPT     tcp  --  anywhere              anywhere            tcp dpt:http
ACCEPT     tcp  --  anywhere              anywhere            tcp dpt:https
DROP       all  --  192.168.1.5            anywhere
ACCEPT     all  --  192.168.1.5            anywhere

Chain FORWARD (policy DROP)
target     prot opt source                destination
fw-before-logging-forward all -- anywhere              anywhere
```