## Laboratorio 7: Configuración de un Firewall en un Entorno de Red

## Máquina virtual



## Entramos como usuario root:

```
File Actions Edit View Help

(kali@ kali)-[~]

Susure Authentication failure

(kali@ kali)-[~]

Susure Susu
```

```
apt update
Hit:1 http://htp.kali.org/kali kali-rolling InRelease
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
Ufw enable
Command 'ufw' not found, but can be installed with:
apt install ufw
apt install utw
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:
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.
Receiving previously unselected package drw.

(Reading database ... 416528 files and directories currently installed.)

Preparing to unpack .../archives/ufw_0.36.2-9_all.deb ...

Jnpacking 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.

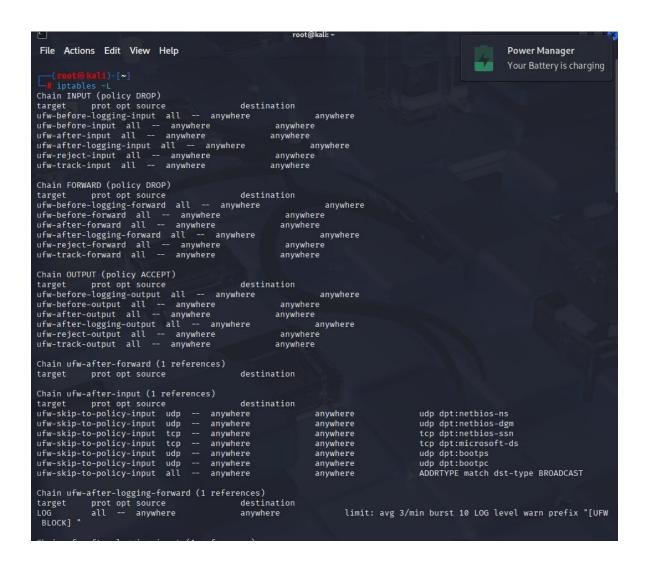
update-rc.d: It looks like a non-network service, we enable it.

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) ...
              ufw enable
   Firewall is active and enabled on system startup
```

```
# ufw status
Status: active
```



```
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)-[~]
```

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

# ufw allow http

Rule added

Rule added (v6)

(Yoot@ kali)-[~]

# ufw allow https

Rule added

Rule added

Rule added

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

```
ufw status numbered
Status: active
                                Action
                                             From
 1] 22/tcp
                                 ALLOW IN
                                             Anywhere
 2] 80/tcp
3] 443
                                 ALLOW IN
                                             Anywhere
                                 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)
```

```
)-[/home/kali]
Chain INPUT (policy DROP)
target prot opt source desting
ufw-before-logging-input all -- anywhere
ufw-after-input all -- anywhere
                                                            destination
                                                                                      anywhere
                                                                         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 anywhere anywhere anywhere anywhere anywhere anywhere
                                                                                        tcp dpt:ssh
tcp dpt:http
tcp dpt:https
Chain FORWARD (policy DROP)
                                                              destination
ufw-before-logging-forward all -- anywhere
                                                                                         anywhere
ufw-before-forward all -- anywhere
ufw-after-forward all -- anywhere
ufw-after-logging-forward all -- anywhere
                                                                            anywhere
                                                                           anywhere
                                                                                      anvwhere
ufw-reject-forward all -- anywhere
ufw-track-forward all -- anywhere
                                                                            anywhere
                                                                           anywhere
Chain OUTPUT (policy ACCEPT)
target prot opt source destina
ufw-before-logging-output all -- anywhere
ufw-before-output all -- anywhere
ufw-after-output all -- anywhere
                                                                                       anywhere
                                                                           anywhere
                                                                         anywhere
ufw-after-logging-output all -- anywhere
                                                                                   anywhere
ufw-reject-output all -- anywhere
ufw-track-output all -- anywhere
                                                                           anywhere
                                                                         anywhere
Chain ufw-after-forward (1 references) target prot opt source
                                                              destination
Chain ufw-after-input (1 references)
 target prot opt source
                                                              destination
target prot opt source dest:
ufw-skip-to-policy-input udp -- anywhere
ufw-skip-to-policy-input tcp -- anywhere
ufw-skip-to-policy-input tcp -- anywhere
ufw-skip-to-policy-input udp -- anywhere
ufw-skip-to-policy-input udp -- anywhere
ufw-skip-to-policy-input all -- anywhere
                                                                                      anywhere
                                                                                                                      udp dpt:netbios-ns
                                                                                      anywhere
                                                                                                                       udp dpt:netbios-dgm
                                                                                      anywhere
                                                                                                                       tcp dpt:netbios-ssn
                                                                                      anywhere
                                                                                                                       tcp dpt:microsoft-ds
                                                                                     anywhere
                                                                                                                       udp dpt:bootps
                                                                                      anywhere
                                                                                                                       udp dpt:bootpc
                                                                                                                       ADDRTYPE match dst-type BROADCAST
                                                                                      anywhere
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
```

```
)-[/home/kali]
hain INPUT (policy DROP)
arget prot opt source
                                             destination
fw-before-logging-input all -- anywhere
                                                              anywhere
fw-before-input all -- anywhere fw-after-input all -- anywhere
                                                     anywhere
                                                    anywhere
fw-after-logging-input all -- anywhere
                                                             anywhere
fw-reject-input all -- anywhere
fw-track-input all -- anywhere
                                                    anywhere
                                                   anywhere
CCEPT tcp -- anywhere
CCEPT tcp -- anywhere
CCEPT tcp -- anywhere
                                   anywhere
anywhere
                                                                   tcp dpt:ssh
tcp dpt:http
                                                                    tcp dpt:https
                                            anywhere
          all -- 192.168.1.5
all -- 192.168.1.5
CCEPT
ROP
                                              anywhere
                                              anywhere
hain FORWARD (policy DROP)
                                              destination
arget prot opt source
```