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Guillermo Bellettini Seguridad

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## Instalamos el software proftpd

```
[root@localhost ~]# dnf install proftpd
Última comprobación de caducidad de metadatos hecha hace 3:16:33, el lun 23 oct 2023 16:00:09.
El paquete proftpd-1.3.8a-1.fc38.x86_64 ya está instalado.
Dependencias resueltas.
Nada por hacer.
¡Listo!
[root@localhost ~]#
```

#### Activamos el servicio

```
[root@localhost ~1# systemctl status proftpd
  proftpd.service - ProFTPD FTP Server
   Loaded: loaded (/usr/lib/systemd/system/proftpd.service; disabled; preset: disabled)
     Drop-In: /usr/lib/systemd/system/service.d

-10-timeout-abort.conf
       Active: active (running) since Mon 2023-10-23 19:18:34 CEST; 13s ago
      Process: 3002 ExecStartPre=/usr/sbin/proftpd --configtest (code=exited, status=0/SUCCESS)
    Main PID:
                   3003 (proftpd)
                   1 (limit: 2293)
        Tasks:
       Memory:
                   3.5M
           CPÚ: 77ms
                   /system.slice/proftpd.service

-3003 "proftpd: (accepting connections)"
       CGroup:
oct 23 19:18:33 localhost.localdomain systemd[1]: Starting proftpd.service - ProFTPD FTP Server...
oct 23 19:18:33 localhost.localdomain proftpd[3002]: Checking syntax of configuration file
oct 23 19:18:33 localhost.localdomain proftpd[3002]: 2023-10-23 19:18:33,929 localhost.localdomain proftpd[3002]: mod_t
oct 23 19:18:34 localhost.localdomain systemd[1]: Started proftpd.service - ProFTPD FTP Server.
oct 23 19:18:34 localhost.localdomain proftpd[3003]: 2023-10-23 19:18:34,038 localhost.localdomain proftpd[3003]: mod_tl
oct 23 19:18:34 localhost.localdomain proftpd[3003]: daemon[3003] 127.0.0.1: ProFTPD 1.3.8a (maint) (built Mon Oct 9 202
[root@localhost ~]# systemctl enable proftpd
Created symlink /etc/systemd/system/multi-user.target.wants/proftpd.service → /usr/lib/systemd/system/proftpd.service.
[root@localhost ~]# systemctl status proftpd
  proftpd.service - ProFTPD FTP Server
       Loaded: loaded (/usr/lib/systemd/system/proftpd.service; enabled; preset: disabled)
      Drop-In: /usr/lib/systemd/system/service.d
                    └10-timeout-abort.conf
       Active: active (running) since Mon 2023-10-23 19:18:34 CEST; 52s ago
    Main PID: 3003 (proftpd)
         Tasks: 1 (limit: 2293)
       Memory: 3.5M
           CPÚ: 79ms
       CGroup: /system.slice/proftpd.service

-3003 "proftpd: (accepting connections)"
oct 23 19:18:33 localhost.localdomain systemd[1]: Starting proftpd.service - ProFTPD FTP Server...
oct 23 19:18:33 localhost.localdomain proftpd[3002]: Checking syntax of configuration file
oct 23 19:18:33 localhost.localdomain proftpd[3002]: 2023-10-23 19:18:33,929 localhost.localdomain proftpd[3002]: mod_t
oct 23 19:18:34 localhost.localdomain systemd[1]: Started proftpd.service - ProFTPD FTP Server.
oct 23 19:18:34 localhost.localdomain proftpd[3003]: 2023-10-23 19:18:34,038 localhost.localdomain proftpd[3003]: mod_tl
oct 23 19:18:34 localhost.localdomain proftpd[3003]: daemon[3003] 127.0.0.1: ProFTPD 1.3.8a (maint) (built Mon Oct 9 202
lines 1-18/18 (END)
```

#### Instalamos sevicio ssh

```
Troot@localhost ~1# dnf install openssh-server
Última comprobación de caducidad de metadatos hecha hace 3:23:24, el lun 23 oct 2023 16:00:09.
El paquete openssh-server-9.0p1-14.fc38.1.x86_64 ya está instalado.
Dependencias resueltas.
Nada por hacer.
¡Listo!
[root@localhost ~]# _
```

#### Vemos el estado del servicio

#### Instalamos el servicio telnet

```
[root@localhost ~]# dnf install telnet-server
última comprobación de caducidad de metadatos hecha hace 3:27:24, el lun 23 oct 2023 16:00:09.
Dependencias resueltas.
                                                Arquitectura
                                                                                      Versión
Instalando:
 telnet-server
                                                x86_64
                                                                                       1:0.17-88.fc38
Resumen de la transacción
Instalar 1 Paquete
Tamaño total de la descarga: 37 k
Tamaño instalado: 58 k
¿Está de acuerdo [s/N]?: s
Descargando paquetes:
telnet-server-0.17-88.fc38.x86_64.rpm
Total
Ejecutando verificación de operación
Verificación de operación exitosa.
Ejecutando prueba de operaciones
Prueba de operación exitosa.
Ejecutando operación
  Preparando
  Instalando
                         : telnet-server-1:0.17-88.fc38.x86_64
  Ejecutando scriptlet: telnet-server-1:0.17-88.fc38.x86_64
```

#### Habilitamos el servicio

```
[root@localhost ~1# systemctl start telnet.socket
[root@localhost ~1# systemctl enable telnet.socket
Created symlink /etc/systemd/system/sockets.target.wants/telnet.socket + /usr/lib/systemd/system/telnet.socket.
[root@localhost ~1# systemctl status telnet.socket
    telnet.socket - Telnet Server Activation Socket
    Loaded: loaded (/usr/lib/systemd/system/telnet.socket; enabled; preset: disabled)
    Active: active (listening) since Mon 2023-10-23 19:30:05 CEST; 54s ago
    Docs: man:telnetd(8)
    Listen: [::1:23 (Stream)
Accepted: 0; Connected: 0;
    Tasks: 0 (limit: 2293)
    Memory: 8.0%
    CPU: Ims
    CGroup: /system.slice/telnet.socket

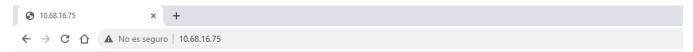
oct 23 19:30:05 localhost.localdomain systemd[1]: Listening on telnet.socket - Telnet Server Activation Socket.
[root@localhost ~1#
```

#### Vemos el servicio HTTP

#### Vemos la lista

```
[root@localhost ~]# firewall-cmd --list-all
FedoraServer (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3
  sources:
  services: cockpit dhcpv6-client ftp http ntp ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@localhost ~]#
```

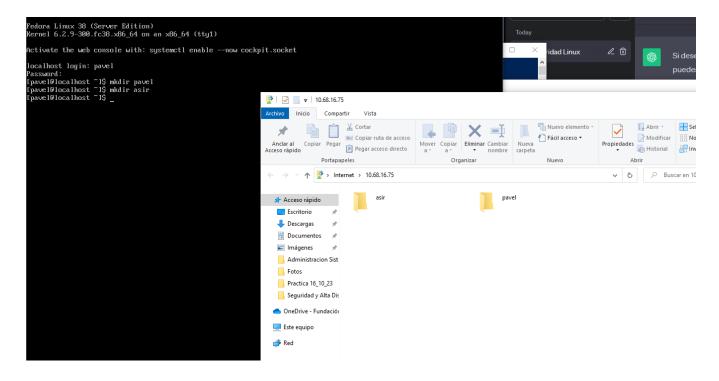
### Accedemos a los servicios



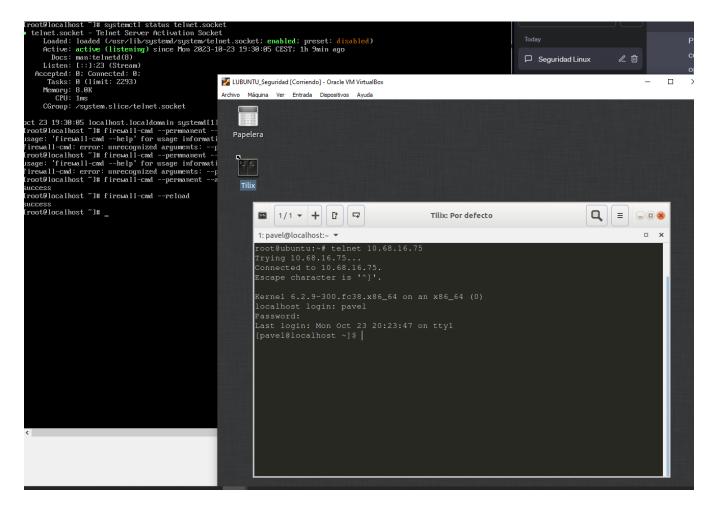
## Bienvenidos a la clase del mejor profe, Guillermo Bellettini

Firmado Pavel

### Conexión FTP



### Conexión Telnet



#### Conexión SSH

```
[root@localhost ~]# systemctl status sshd
     sshd.service - OpenSSH server daemon
         Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; preset: enabled)
Drop-In: /usr/lib/systemd/system/service.d
                            └-10-timeout-abort.conf
           Active: active (running) since Mon 2023-10-23 16:03:35 CEST; 5h 12min ago
              Docs: man:sshd(8)
                           man:sshd_config(5)
      Main PID: 774 (sshd)
Tasks: 1 (limit: 2293)
           Memory: 4.4M
                CPÚ: 481ms
          CGroup: /system.slice/sshd.service

-774 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
oct 23 16:03:35 localhost systemd[1]: Started sshd.service - OpenSSH server daemon.
oct 23 18:10:35 localhost.localdomain sshd[1722]: error: kex_exchange_identification: read: Connection reset by peer
oct 23 18:10:35 localhost.localdomain sshd[1722]: Connection reset by 10.68.17.221 port 53425
oct 23 19:55:57 localhost.localdomain sshd[3263]: error: kex_exchange_identification: client sent invalid protocol ide
oct 23 19:55:57 localhost.localdomain sshd[3263]: banner exchange: Connection from 10.68.16.116 port 56084: invalid fo
oct 23 19:56:26 localhost.localdomain sshd[3264]: error: kex_exchange_identification: client sent invalid protocol ide
oct 23 19:56:26 localhost.localdomain sshd[3264]: banner exchange: Connection from 10.68.16.116 port 56088: invalid fo
oct 23 19:26:26 localhost.localdomain sshd[3808]: Connection reset by 10.68.18.178 port 58732 [preauth]
oct 23 21:14:07 localhost.localdomain sshd[3815]: Accepted password for pavel from 10.68.18.178 port 58745 ssh2
oct 23 21:14:07 localhost.localdomain sshd[3815]: pam_unix(sshd:session): session opened for user pavel(uid=1000) by (
Iroot@localhost ~1# __
 oct 23 16:03:35 localhost systemd[1]: Started sshd.service - OpenSSH server daemon.
 C:\Users\nicolas.ballesteros>ssh -p22 pavel@10.68.16.75
 The authenticity of host '10.68.16.75 (10.68.16.75)' can't be established.
 ECDSA key fingerprint is SHA256:fz/xc3p1KHtQ/t2BOkWTbqo7wrZz58krIuGhKBbG+iY.
 Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.68.16.75' (ECDSA) to the list of known hosts.
 pavel@10.68.16.75's password:
Last login: Mon Oct 23 20:42:37 2023 from ::ffff:10.68.16.116
 [pavel@localhost ~]$
```

## Bloqueamos los servicios

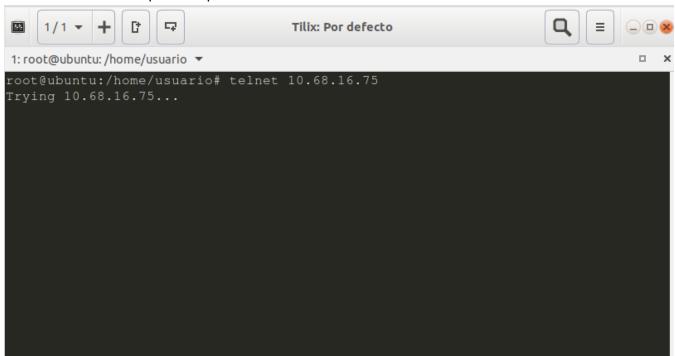
Listado de las reglas de iptable con comando sudo iptables -L

```
[rootOlocalhost ~l# iptables -L
Chain INPUT (policy ACCEPT)
           prot opt source
                                         destination
target
           tcp -- anywhere
DROP
                                         anywhere
                                                               tcp dpt:telnet
Chain FORWARD (policy ACCEPT)
target
           prot opt source
                                         destination
Chain OUTPUT (policy ACCEPT)
                                         destination
target
          prot opt source
[root@localhost ~]# _
```

### **Bloqueamos Telnet**

```
[root@localhost ~]# iptables -A INPUT -p tcp --dport 23 -j DROP
[root@localhost ~]# _
```

Ponemos el comando para bloquear telnet



No se puede conectar

```
[root@localhost ~]# iptables -L
Chain INPUT (policy ACCEPT)
target
            prot opt source
                                              destination
DROP
            tcp -- anywhere
                                             anywhere
                                                                     tcp dpt:telnet
Chain FORWARD (policy ACCEPT)
target
            prot opt source
                                             destination
Chain OUTPUT (policy ACCEPT)
            prot opt source
target
                                             destination
[root@localhost ~1# _
```

#### Bloqueamos ssh

```
[root@localhost ~]# iptables -A INPUT -s 10.68.16.75 -p tcp --dport 22 -j DROP
[root@localhost ~]# _

target prot opt source destination
[root@localhost ~]# iptables -A INPUT -p tcp --dport 22 -j DROP
```

#### Guardamos los cambios

```
[root@localhost ~]# iptables -L
Chain INPUT (policy ACCEPT)
          prot opt source
target
                                         destination
DROP
                   anywhere
                                         anywhere
          tcp --
                                                              tcp dpt:telnet
DROP
                    localhost.localdomain anywhere
                                                                tcp dpt:ssh
          tcp
DROP
                   localhost.localdomain anywhere
                                                                tcp dpt:ssh
          tcp
               -- anywhere
DROP
                                         anywhere
                                                              tcp dpt:ssh
          tcp
Chain FORWARD (policy ACCEPT)
                                         destination
target
          prot opt source
Chain OUTPUT (policy ACCEPT)
          prot opt source
                                        destination
target
[root@localhost ~1# _
```

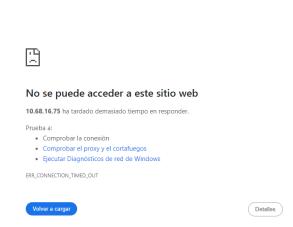
```
C:\Users\nicolas.ballesteros>ssh -p22 pavel@10.68.16.75
ssh: connect to host 10.68.16.75 port 22: Connection timed out
C:\Users\nicolas.ballesteros>
```

## **Bloqueamos HTTP**

```
[root@localhost ~]# iptables -A INPUT -p tcp --dport 80 -j DROP
[root@localhost ~]#
```

#### Accedemos a la página web para comprobar





```
[root@localhost ~]# iptables -L
Chain INPUT (policy ACCEPT)
target
            prot opt source
                                             destination
DROP
            tcp --
                      anywhere
                                             anywhere
                                                                     tcp dpt:telnet
            tcp --
                                                                       tcp dpt:ssh
DROP
                      localhost.localdomain anywhere
DROP
                      localhost.localdomain anywhere
            tcp
                                                                       tcp dpt:ssh
DROP
                      anywhere
            tcp
                                             anywhere
                                                                     tcp dpt:ssh
            tcp
                                                                     tcp dpt:http
DROP
                      anywhere
                                             anywhere
Chain FORWARD (policy ACCEPT)
            prot opt source
                                              destination
target
Chain OUTPUT (policy ACCEPT)
target prot opt source
[root@localhost ~1#
                                             destination
```

## Bloqueamos ftp

```
[root@localhost ~]# iptables -A INPUT -p tcp --dport 21 -j DROP
[root@localhost ~]# iptables -L
Chain INPUT (policy ACCEPT)
           prot opt source
                                         destination
target
DROP
           tcp -- anywhere
                                         anywhere
                                                               tcp dpt:telnet
DROP
           tcp --
                    localhost.localdomain anywhere
                                                                 tcp dpt:ssh
DROP
                    localhost.localdomain anywhere
                                                                 tcp dpt:ssh
           tcp --
DROP
                                         anywhere
                    anywhere
           tcp
                                                               tcp dpt:ssh
DROP
                    anywhere
                                         anywhere
                                                               tcp dpt:http
           tcp
DROP
                    anywhere
                                         anywhere
                                                               tcp dpt:ftp
           tcp
Chain FORWARD (policy ACCEPT)
                                         destination
target
           prot opt source
Chain OUTPUT (policy ACCEPT)
target
          prot opt source
                                         destination
[root@localhost ~]# _
```

#### Comprobamos

