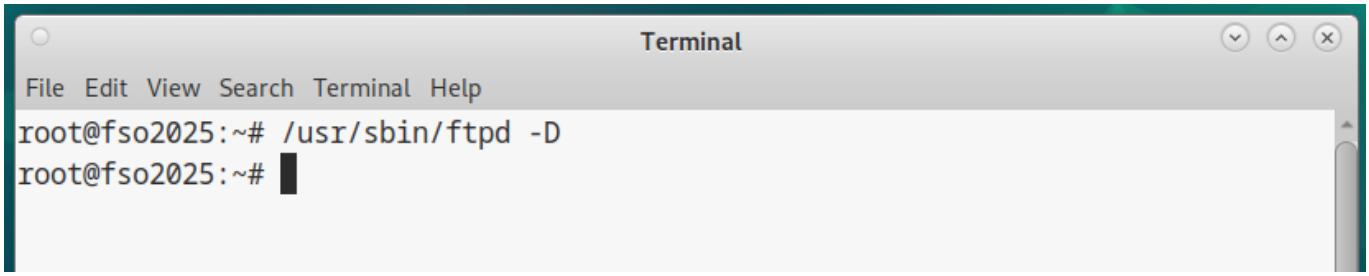
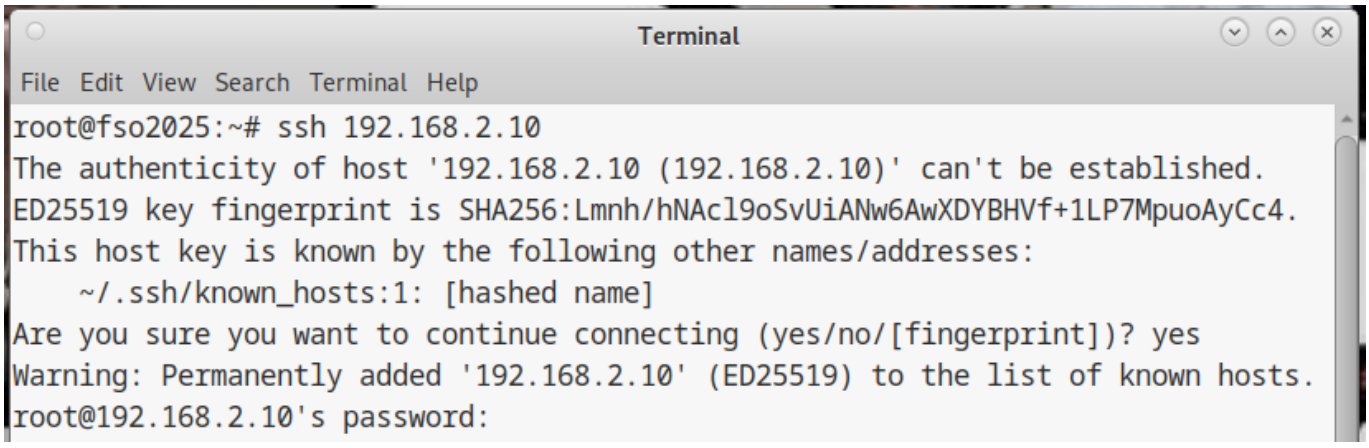
[FORT] Práctica 5: Control de Acceso a nivel de aplicación

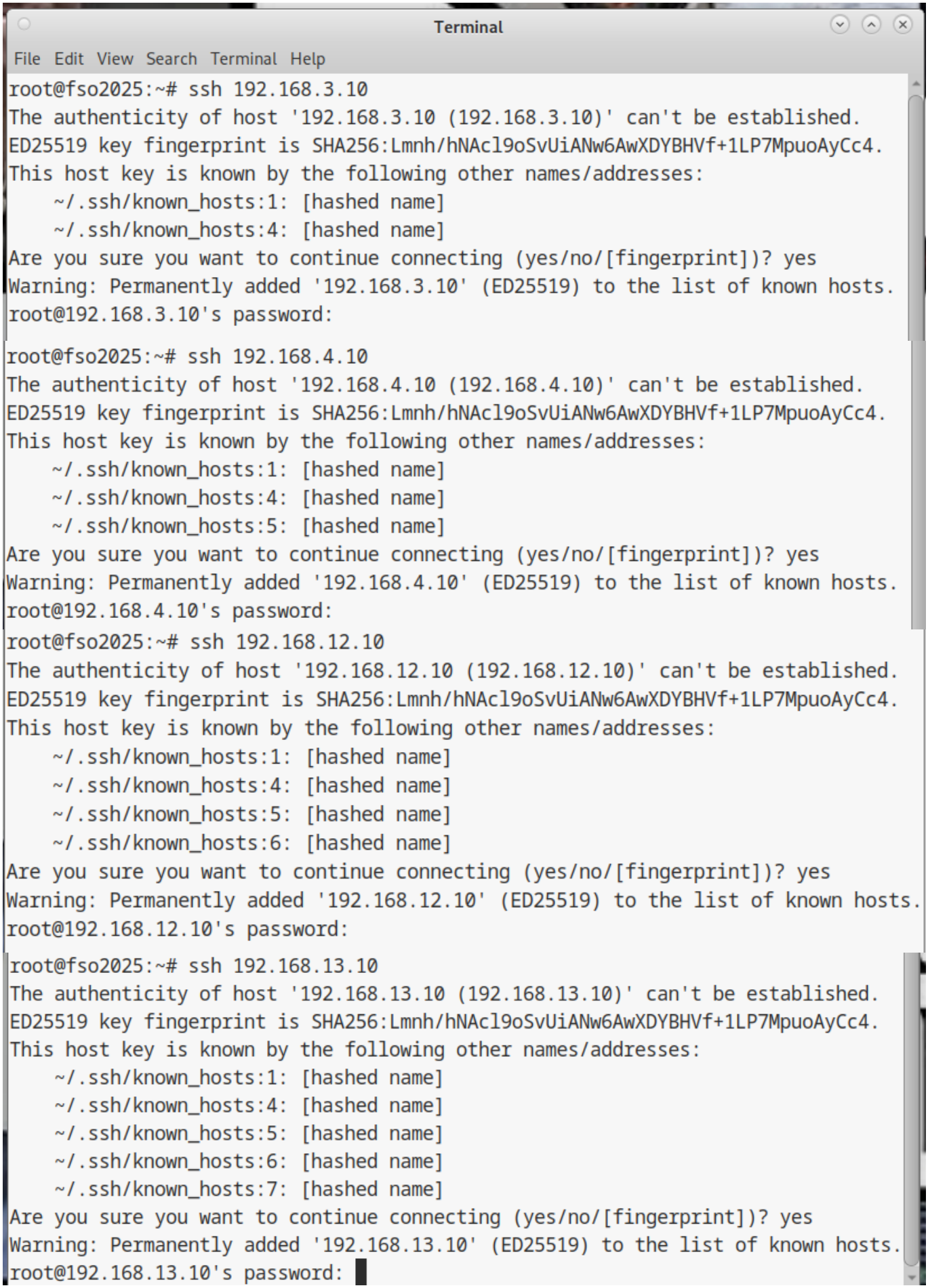
1. Habilita los servicios FTP en MAQUINA1 ejecutando /usr/sbin/ftp -D



2. Revisa las conexiones ftp y ssh de MAQUINA2 a MAQUINA1 usando las direcciones de red locales

Comprobación de SSH:




Terminal
File Edit View Search Terminal Help
root@fso2025:~# ssh 192.168.3.10
The authenticity of host '192.168.3.10 (192.168.3.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:1: [hashed name]
~/.ssh/known_hosts:4: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.3.10' (ED25519) to the list of known hosts.
root@192.168.3.10's password:
root@fso2025:~# ssh 192.168.4.10
The authenticity of host '192.168.4.10 (192.168.4.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:1: [hashed name]
~/.ssh/known_hosts:4: [hashed name]
~/.ssh/known_hosts:5: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.4.10' (ED25519) to the list of known hosts.
root@192.168.4.10's password:
root@fso2025:~# ssh 192.168.12.10
The authenticity of host '192.168.12.10 (192.168.12.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:1: [hashed name]
~/.ssh/known_hosts:4: [hashed name]
~/.ssh/known_hosts:5: [hashed name]
~/.ssh/known_hosts:6: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.12.10' (ED25519) to the list of known hosts.
root@192.168.12.10's password:
root@fso2025:~# ssh 192.168.13.10
The authenticity of host '192.168.13.10 (192.168.13.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:1: [hashed name]
~/.ssh/known_hosts:4: [hashed name]
~/.ssh/known_hosts:5: [hashed name]
~/.ssh/known_hosts:6: [hashed name]
~/.ssh/known_hosts:7: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.13.10' (ED25519) to the list of known hosts.
root@192.168.13.10's password:

```
root@fso2025:~# ssh 192.168.14.10
The authenticity of host '192.168.14.10 (192.168.14.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:1: [hashed name]
    ~/.ssh/known_hosts:4: [hashed name]
    ~/.ssh/known_hosts:5: [hashed name]
    ~/.ssh/known_hosts:6: [hashed name]
    ~/.ssh/known_hosts:7: [hashed name]
    ~/.ssh/known_hosts:8: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.14.10' (ED25519) to the list of known hosts.
root@192.168.14.10's password:
```

Comprobación ftp

```
Terminal
File  Edit  View  Search  Terminal  Help
root@fso2025:~# ftp
ftp   ftpd
root@fso2025:~# ftp 192.168.2.10
Connected to 192.168.2.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.2.10:root):
```

```
root@fso2025:~# ftp 192.168.3.10
Connected to 192.168.3.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.3.10:root):
```

```
Terminal
File  Edit  View  Search  Terminal  Help
root@fso2025:~# ftp 192.168.4.10
Connected to 192.168.4.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.4.10:root):

root@fso2025:~# ftp 192.168.12.10
Connected to 192.168.12.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.12.10:root):
```

```
root@fso2025:~# ftp 192.168.13.10
Connected to 192.168.13.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.13.10:root):

root@fso2025:~# ftp 192.168.14.10
Connected to 192.168.14.10.
220 fso2025.nowhere.org FTP server (GNU inetutils 2.4) ready.
Name (192.168.14.10:root):
```

3. Configura rcpwrappers (/etc/hosts.allow y /etc/hosts.deny) en MAQUINA1 para:

Aceptar todas las conexiones ftp excepto las que vienen de

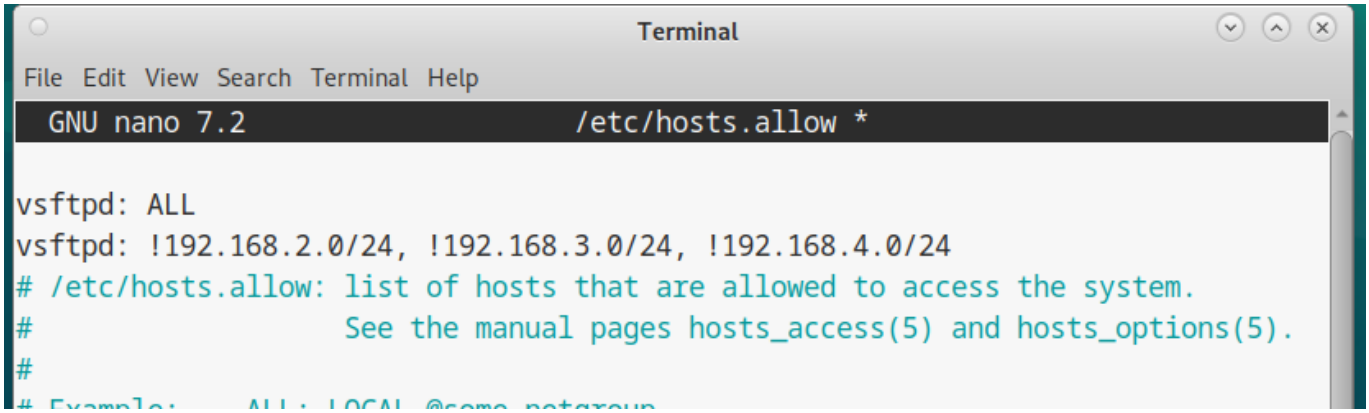
- 192.168.2.X
- 192.168.3.X
- 192.168.4.X

Rechazar todas las conexiones ssh que vienen de:

- 192.168.12.x
- 192,168.13.x
- 192.168.14.X

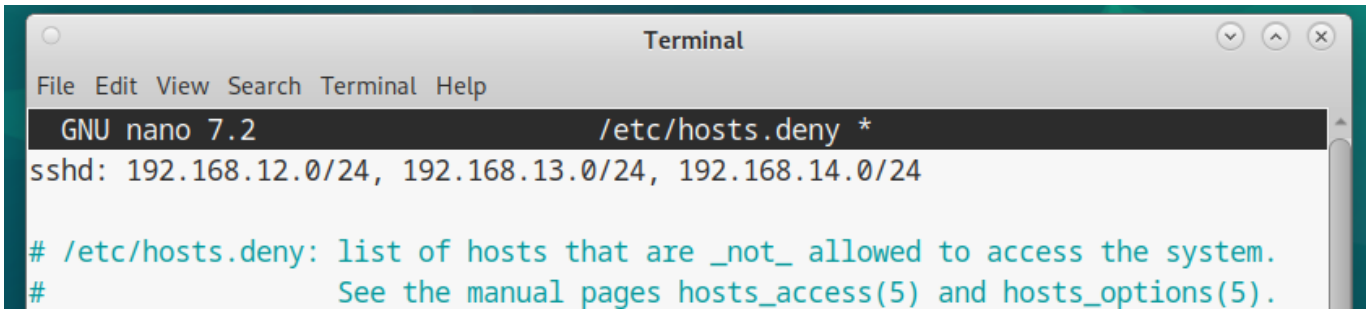
Comenzamos editando el archivo /etc/hosts.allow para aceptar todas las conexiones menos las indicadas con las siguientes líneas:

```
vsftpd: ALL #Se permite todo el tráfico FTP
vsftpd: !192.168.2.0/24, !192.168.3.0/24, !192.168.4.0/24 #Se bloquean los rangos indicados para conexiones FTP
```



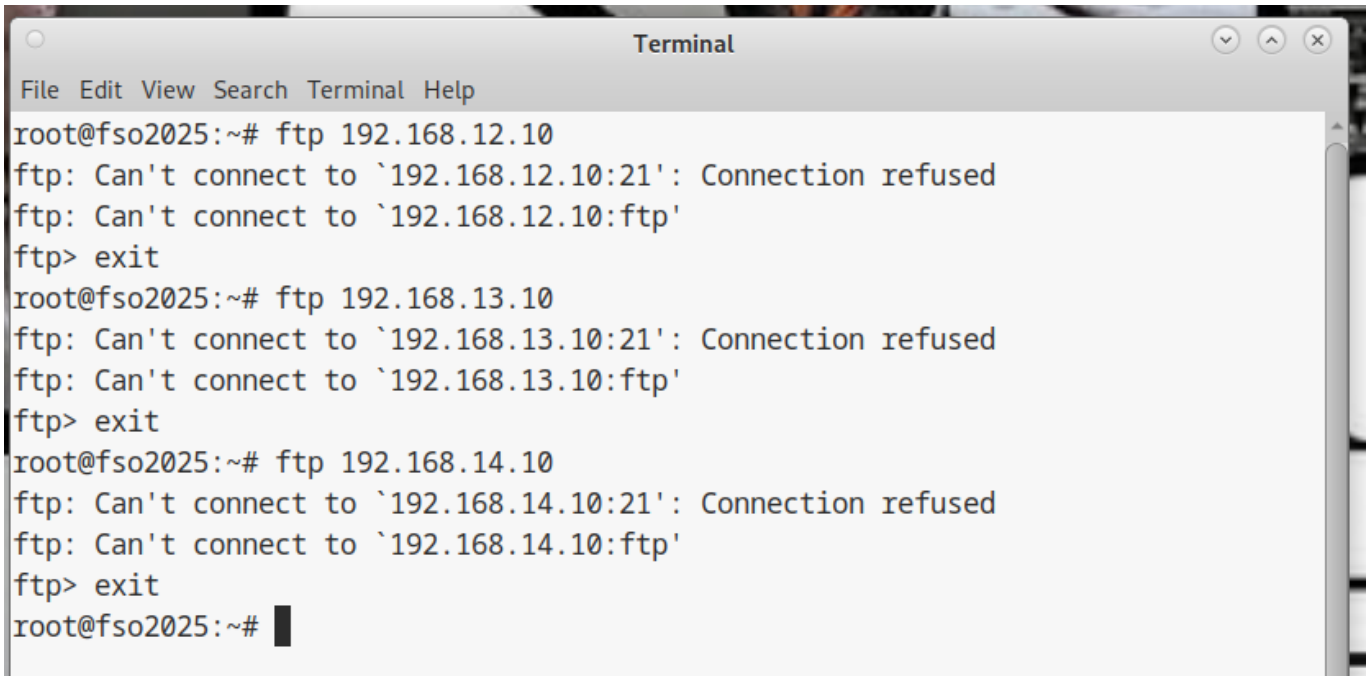
Tras eso procedemos a editar el archivo /etc/hosts.deny para bloquear las conexiones indicadas con las siguientes líneas:

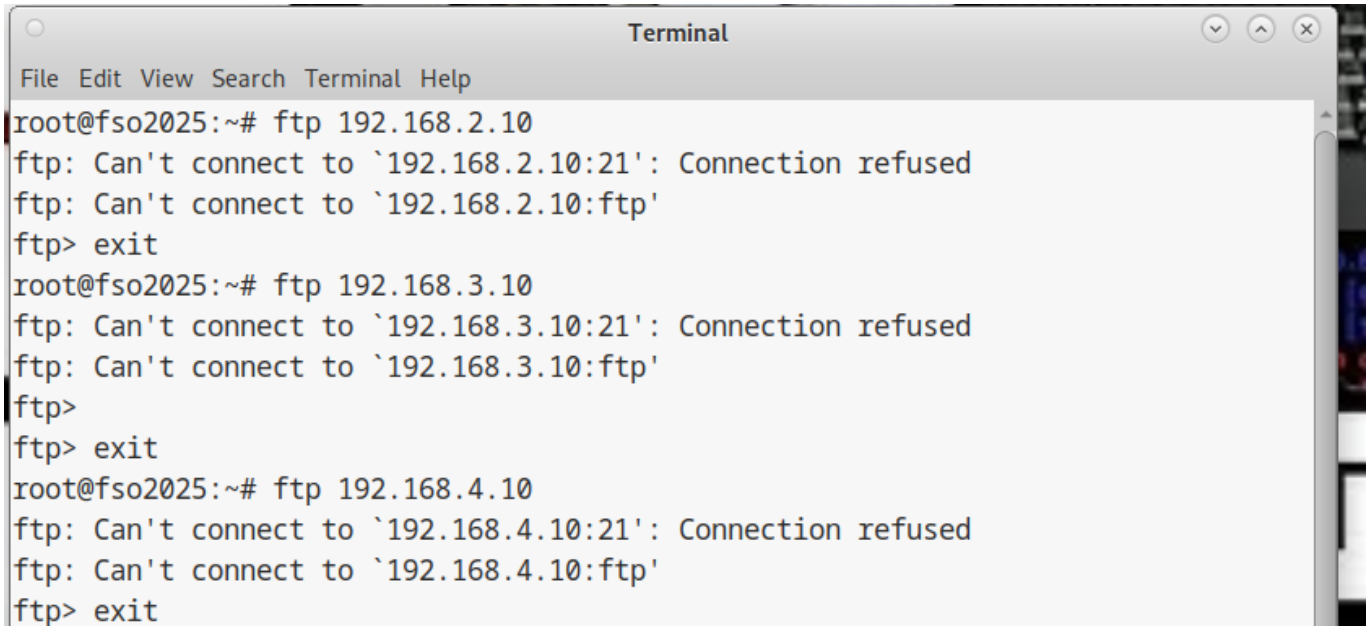
```
sshd: 192.168.12.0/24, 192.168.13.0/24, 192.168.14.0/24 #Se bloquea el SSH para las direcciones indicadas
```



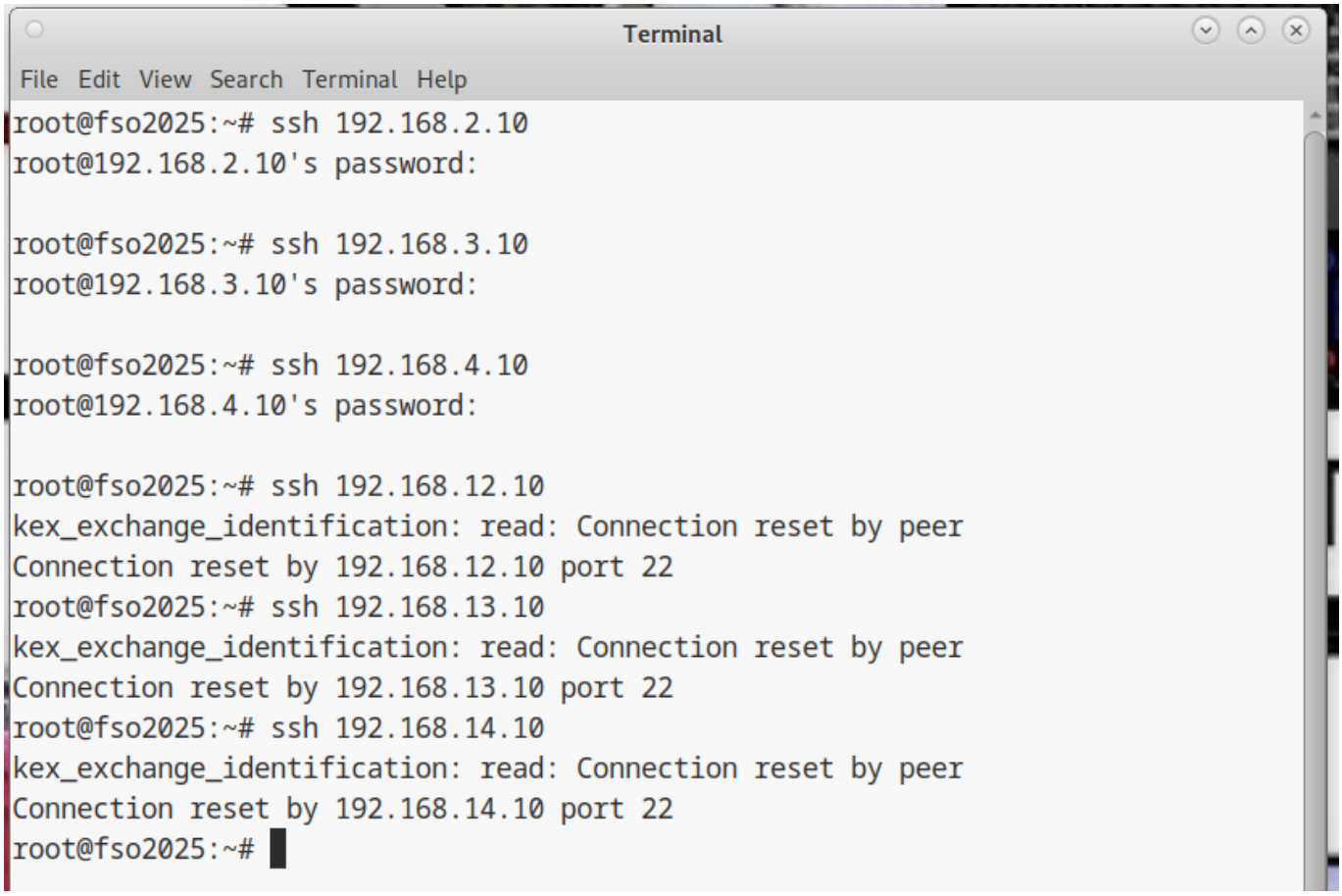
4. Revisa las conexiones ftp y ssh desde MAQUINA2 a MAQUINA1

Comenzamos revisando las conexiones FTP:



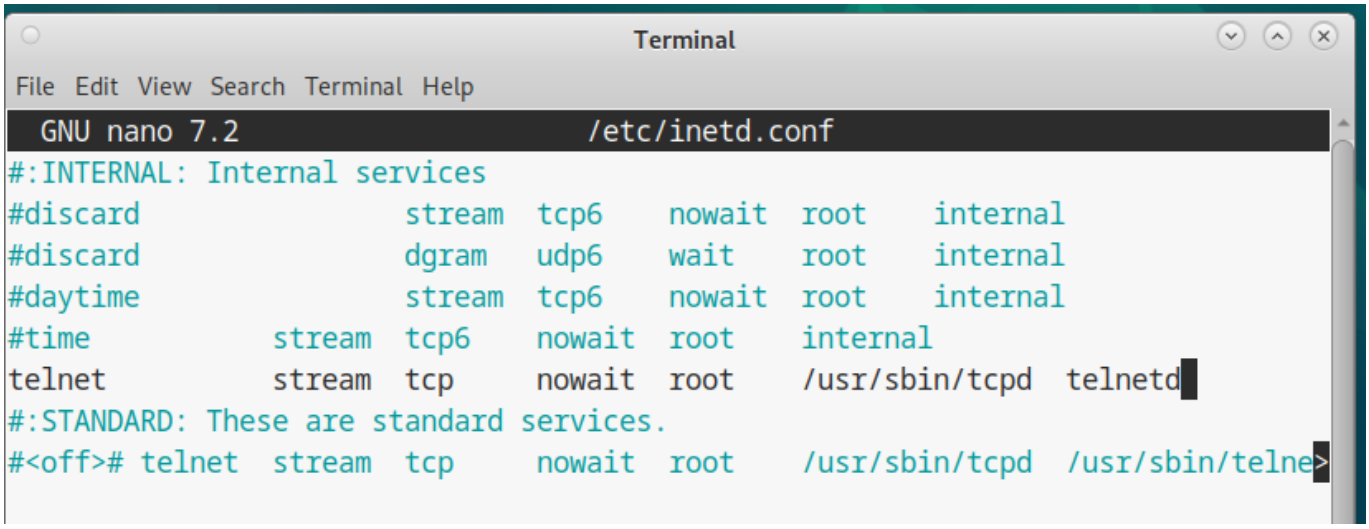


Tras eso revisamos las conexiones ssh:

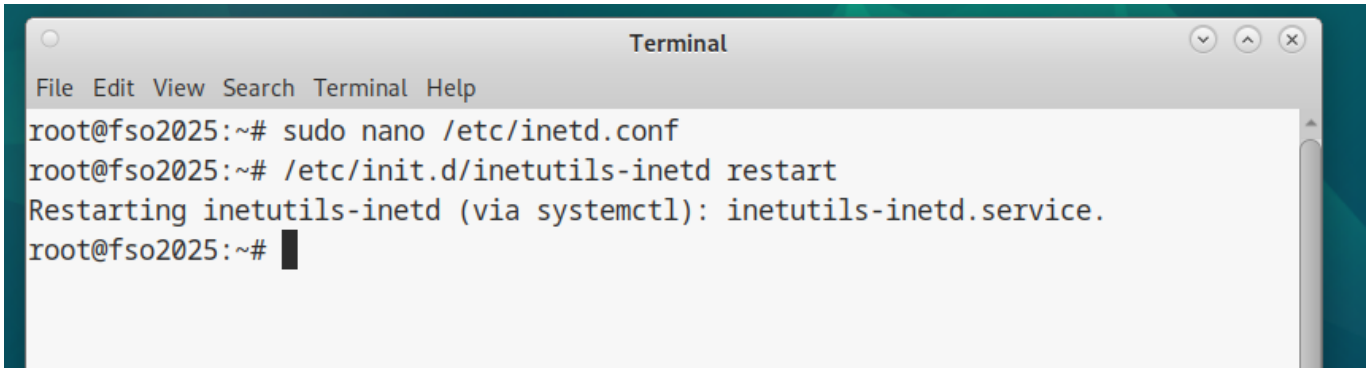


5. En MAQUINA1 habilita los servicios telnet añadiendo la siguiente línea a /etc/inetd.conf

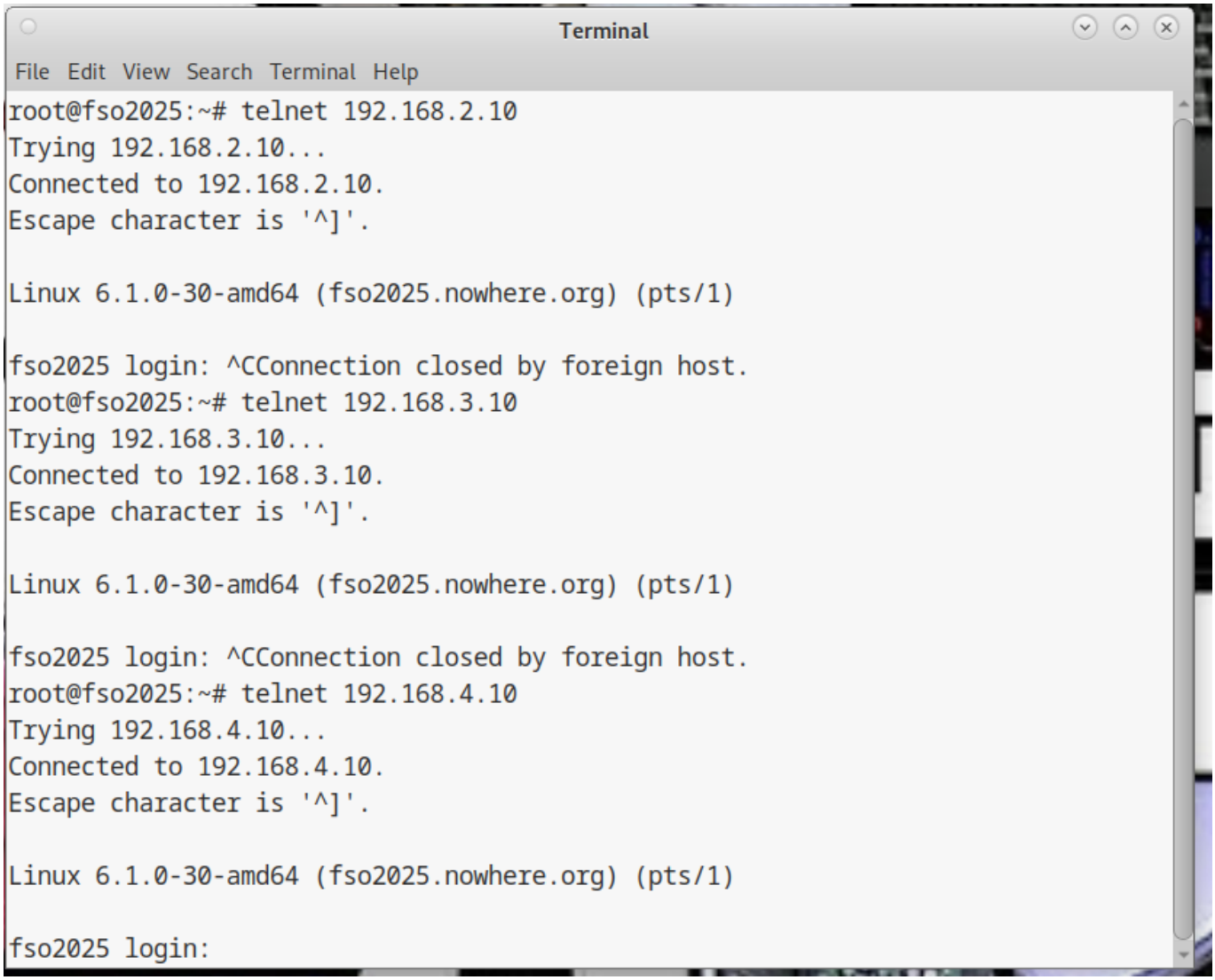
```
telnet      stream     tcp nowait root /usr/sbin/tcpd    telnetd
```

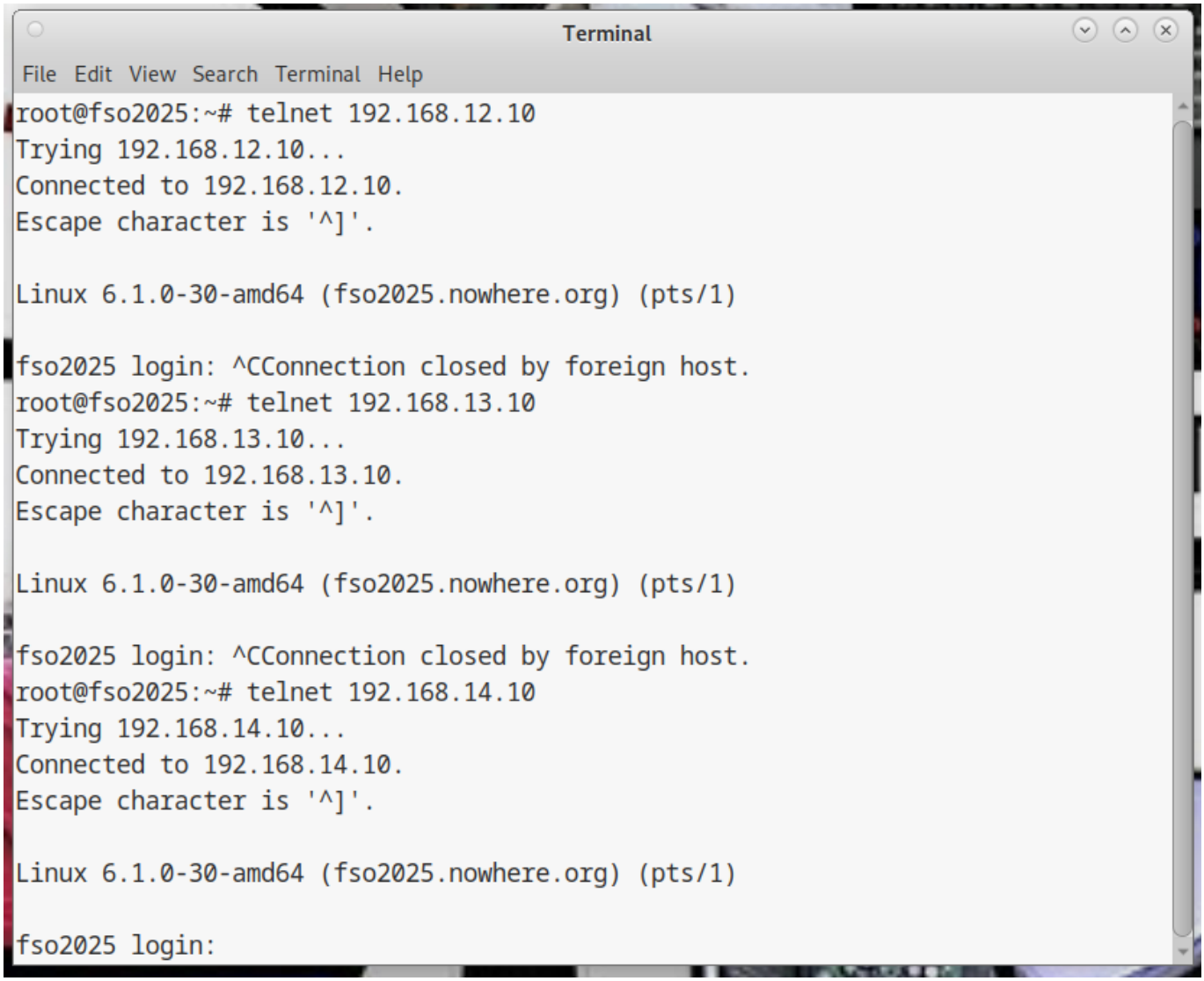


6. Reinicia inetd (/etc/init.d/inetutils-inetd restart, systemctl restart inetutils-inetd.service kill -HUP pid_de_inetd)



7. Revisa la conexión telnet de MAQUINA2 a MAQUINA1

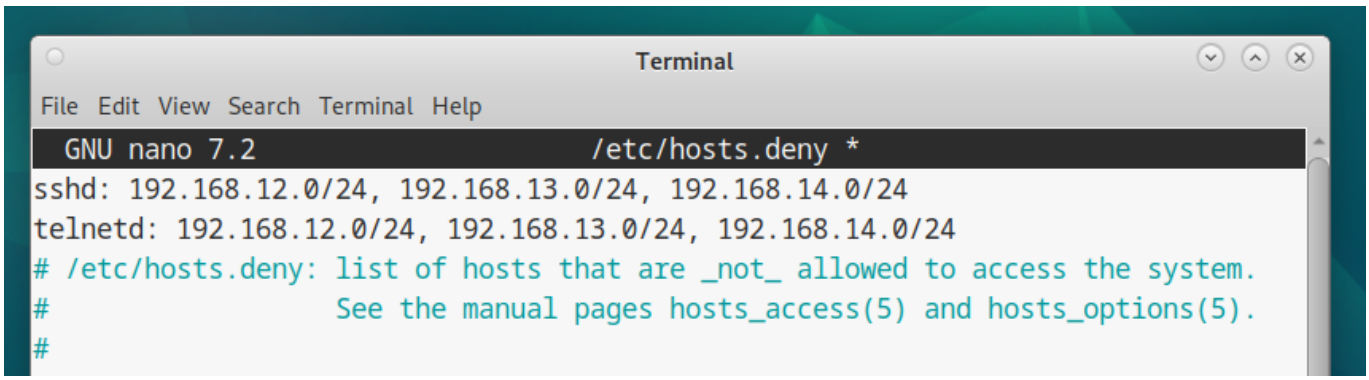

Terminal
File Edit View Search Terminal Help
root@fso2025:~# telnet 192.168.2.10
Trying 192.168.2.10...
Connected to 192.168.2.10.
Escape character is '^]'.
Linux 6.1.0-30-amd64 (fso2025.nowhere.org) (pts/1)
fso2025 login: ^CConnection closed by foreign host.
root@fso2025:~# telnet 192.168.3.10
Trying 192.168.3.10...
Connected to 192.168.3.10.
Escape character is '^]'.
Linux 6.1.0-30-amd64 (fso2025.nowhere.org) (pts/1)
fso2025 login: ^CConnection closed by foreign host.
root@fso2025:~# telnet 192.168.4.10
Trying 192.168.4.10...
Connected to 192.168.4.10.
Escape character is '^]'.
Linux 6.1.0-30-amd64 (fso2025.nowhere.org) (pts/1)
fso2025 login:



8. Configura tcpwrappers para rechazar todas las conexiones telnet desde 192.168.12.X, 192.168.13.X y 192.168.14.X

Configuramos /etc/hosts.deny con las siguientes líneas:

```
telnetd: 192.168.12.0/24, 192.168.12.0/24, 192.168.13.0/24
```



9. Revisa la comunicación telnet desde MAQUINA2 hasta MAQUINA1