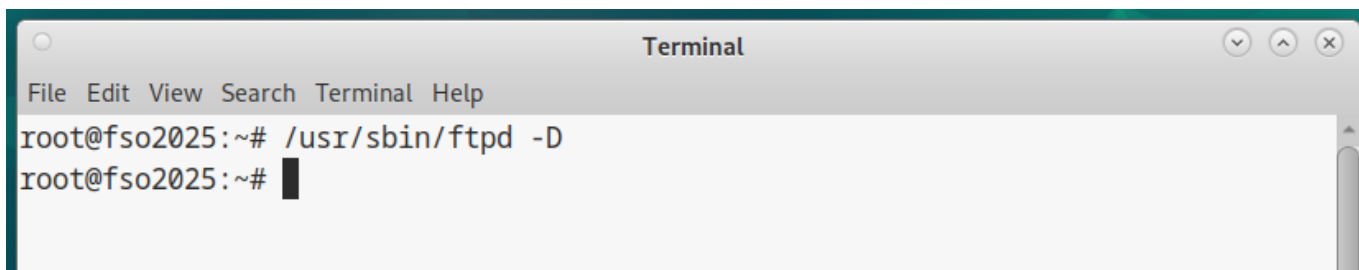


[FORT] Práctica 5: Control de Acceso a nivel de aplicación

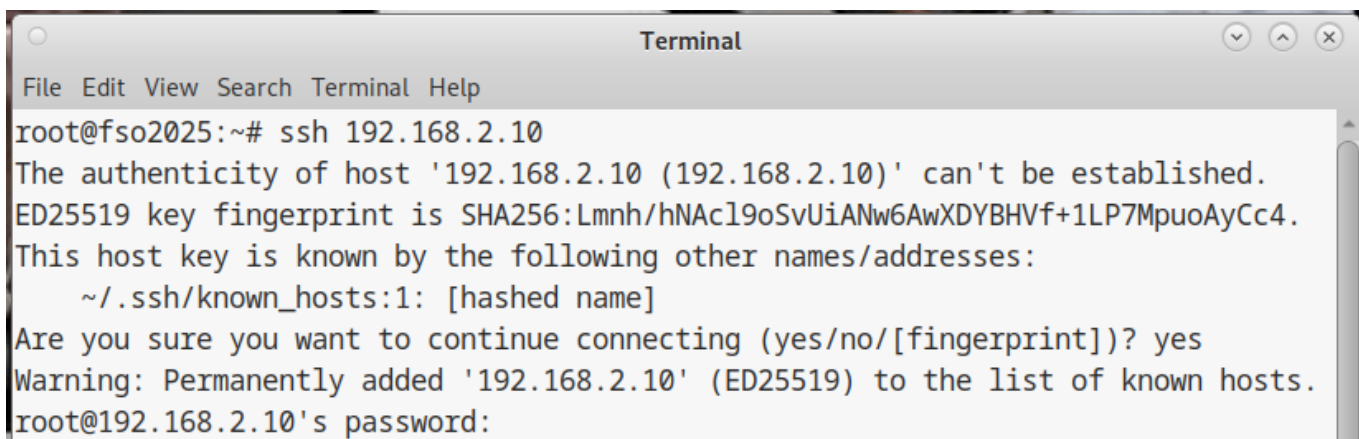
1. Habilita los servicios FTP en MAQUINA1 ejecutando `/usr/sbin/ftpd -D`



```
Terminal
File Edit View Search Terminal Help
root@fso2025:~# /usr/sbin/ftpd -D
root@fso2025:~#
```

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 192.168.2.10
The authenticity of host '192.168.2.10 (192.168.2.10)' 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]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.2.10' (ED25519) to the list of known hosts.
root@192.168.2.10's password:
```

```
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:

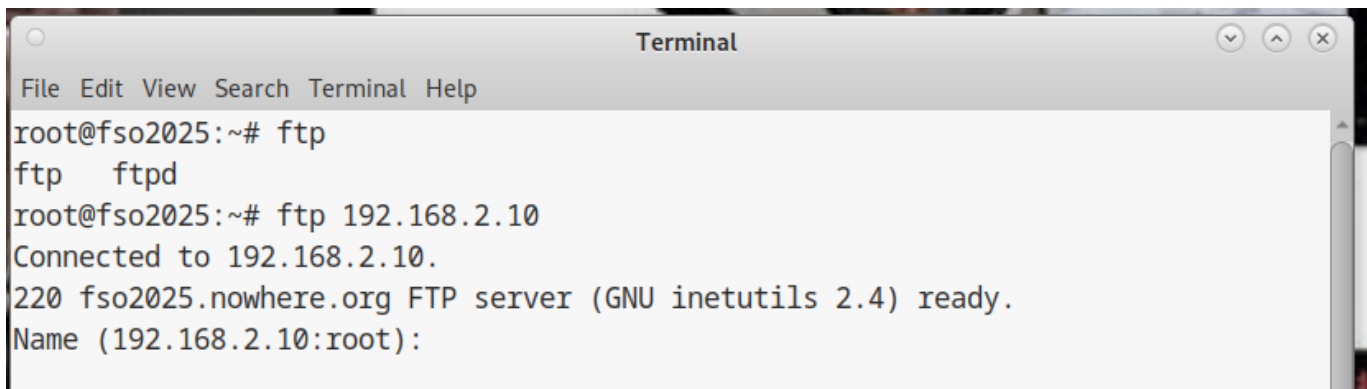
root@fso2025:~# ssh 192.168.4.10
The authenticity of host '192.168.4.10 (192.168.4.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpuoAyCc4.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: [hashed name]
  ~/.ssh/known_hosts:4: [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: █
```

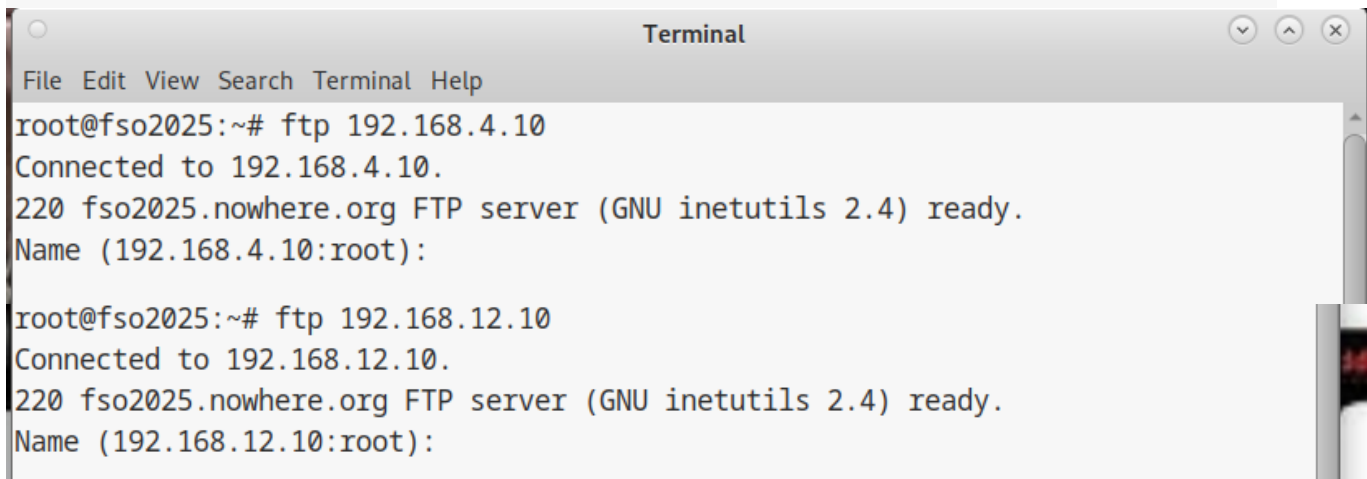
```
root@fso2025:~# ssh 192.168.14.10
The authenticity of host '192.168.14.10 (192.168.14.10)' can't be established.
ED25519 key fingerprint is SHA256:Lmnh/hNAcl9oSvUiANw6AwXDYBHVf+1LP7MpAoAyCc4.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: [hashed name]
  ~/.ssh/known_hosts:4: [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 rcppwrappers (/etc/hosts.allow y /etc/hosts.deny) en MAQUINA1 para:

Aceptar todas las conexiones ftp excepto las que vienen de

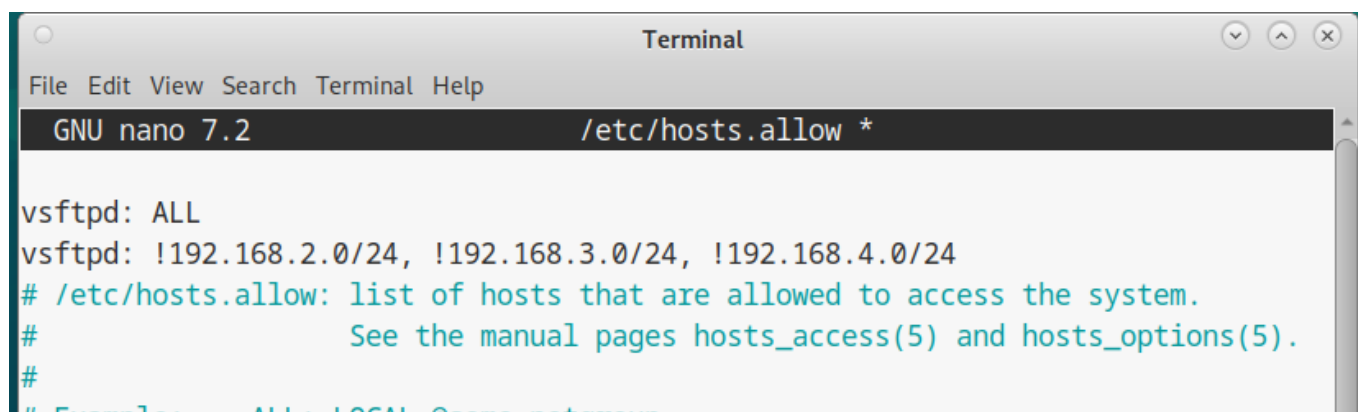
- 192.168.2.X
- 192.168.3.X
- 192.168.4.X

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

```
Terminal
File Edit View Search Terminal Help
GNU nano 7.2 /etc/hosts.deny *
sshd: 192.168.12.0/24, 192.168.13.0/24, 192.168.14.0/24
# /etc/hosts.deny: list of hosts that are _not_ allowed to access the system.
# See the manual pages hosts_access(5) and hosts_options(5).
```

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

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