

# [FORT] Práctica 6: Mantenimiento

Se mantiene la configuración de red de la práctica 5.

## Preparación

**La MAQUINA1 tiene un container corriendo SSH en el puerto 222. El puerto 222 se redirige al container**

Primero creamos un script con el código que se nos ha proporcionado:

```
GNU nano 7.2                                script.sh *
#!/usr/sbin/nft -f
#en esta maquina la direccion del container es 10.0.3.200
table ip nat {
    chain PREROUTING { #redirigimos conexiones externas alssh al container
        type nat hook prerouting priority dstnat; policy accept;
        ip daddr {192.168.2.10, 192.168.3.10, 192.168.4.10} tcp dport {222} log
        ip daddr {192.168.12.10, 192.168.13.10, 192.168.14.10} tcp dport {222} log
        ip daddr {192.168.2.10, 192.168.3.10, 192.168.4.10} tcp dport {222} dnat to 10.0.3.2
        ip daddr {192.168.12.10, 192.168.13.10, 192.168.14.10} tcp dport {222} dnat to 10.0.
    }
}
```

y lo hacemos ejecutable con el siguiente comando:

```
sudo chmod +x /etc/nftables/script.sh
```

## Instala Syslogd en el container

Primero debemos revisar el nombre del container con el comando:

```
lxc-ls
```

```
root@fso2025:~# lxc-ls
deb
```

En este caso el container se llama deb y podemos arrancarlo (en caso de que esté apagado) con el con el siguiente comando:

```
lxc-start -f -n deb
```

Una vez levantado el container nos podemos conectar a este con:

```
lxc-attach -n deb
```

```
root@fso2025:~# lxc-attach -n deb
root@deb:~#
```

una vez dentro del container instalamos syslogd:

```
root@deb:~# apt install inetutils-syslogd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  inetutils-syslogd
0 upgraded, 1 newly installed, 0 to remove and 18 not upgraded.
Need to get 84.2 kB of archives.
After this operation, 171 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian stable/main amd64 inetutils-syslogd amd64 2:2.4-2+deb12u1 [84.2 kB]
Fetched 84.2 kB in 0s (533 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package inetutils-syslogd.
(Reading database ... 12198 files and directories currently installed.)
Preparing to unpack .../inetutils-syslogd_2%3a2.4-2+deb12u1_amd64.deb ...
Unpacking inetutils-syslogd (2:2.4-2+deb12u1) ...
Setting up inetutils-syslogd (2:2.4-2+deb12u1) ...
```

## 1. Crea claves RSA para los usuarios user001, user002 y user003 en Maquina2. user003 debe estar protegido por una passphrase

Para crear las claves RSA para los usuarios usamos el siguiente comando logueados desde sus cuentas:

```
ssh-keygen -t rsa -b 4096 -f ~/.ssh/id_rsa
```

```

user001@fso2025:~$ ssh-keygen -t rsa -b 4096 -f ~/.ssh/id_rsa
Generating public/private rsa key pair.
Created directory '/home/user001/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/user001/.ssh/id_rsa
Your public key has been saved in /home/user001/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:jpxSbVuCOevsFVzeBW0cc4GZIOFNJBkxazmP65gGdFM user001@fso2025
The key's randomart image is:
+---[RSA 4096]-----+
|      B*+oo*oo|
|      .E0  =+o |
|      .*... .. |
|      . B.o+. . |
|      . * S.o.. |
|      + B =.    |
|      . * +.    |
|      + o+      |
|      .=o .     |
+----[SHA256]-----+
root@fso2025:~# su - user002
user002@fso2025:~$ ssh-keygen -t rsa -b 4096 -f ~/.ssh/id_rsa
Generating public/private rsa key pair.
Created directory '/home/user002/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/user002/.ssh/id_rsa
Your public key has been saved in /home/user002/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:oPQw1wFtjVBqLg5RVPZshC0yp3Tghba9Vcu45WndzSw user002@fso2025
The key's randomart image is:
+---[RSA 4096]-----+
|  .++*B+o      |
|  o*o=*=.o     |
|  .o=O=o=+ .   |
|  ooO.oo +     |
|  . o ooS+ o . + |
|  o .. . + . E +|
|  .      .      |
|                |
|                |
+----[SHA256]-----+

```

En el caso de user003, a diferencia que con los anteriores usuarios, no dejaremos la passphrase vacía:

```
user003@fso2025:~$ ssh-keygen -t rsa -b 4096 -f ~/.ssh/id_rsa
Generating public/private rsa key pair.
Created directory '/home/user003/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/user003/.ssh/id_rsa
Your public key has been saved in /home/user003/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:B6MjijtbtLJsBSVEHimfm/waqx4JhNlBf2Zuoxq8RqKc user003@fso2025
The key's randomart image is:
+---[RSA 4096]-----+
| ..o.. o          |
| . + . o .        |
| .++ . . .oo      |
| o* .. ..oo       |
| + o.o.o S .      |
| oB o=o . .       |
| Oo*ooo           |
| +X+  oo          |
| E*   .o.         |
+----[SHA256]-----+
```

## 2. Habilita el acceso a MAQUINA1 desde MAQUINA2 para los usuarios del 001 al 003

**Notas para ejercicio 5:** syslogd: para aceptar los logs ay que poner -r, para que los reenvíe hay que ponerle -h. Archivos importantes a modificar:

```
cd /etc/init.d/
sudo nano inetutils-syslogd
sudo nano /etc/default/inetutils-syslogd
```

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