Lunes 21 febrero 2022

```
sebas@SebasUbuntuPC:~$ sudo docker run -it --name serverssh -p 2222:22 ubuntu:20.04 [sudo] contraseña para sebas: root@b745d39277f0:/#
```

```
root@b745d39277f0:/# apt update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1557 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [974 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [25.8 kB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [841 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1134 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1984 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [1042 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [29.4 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [50.8 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [24.8 kB]
Fetched 21.1 MB in 5s (4345 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
13 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@b745d39277f0:/#
```

```
root@b745d39277f0:/# ls

bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var

root@b745d39277f0:/# apt install ssh

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:
```

```
root@b745d39277f0:/# service ssh start

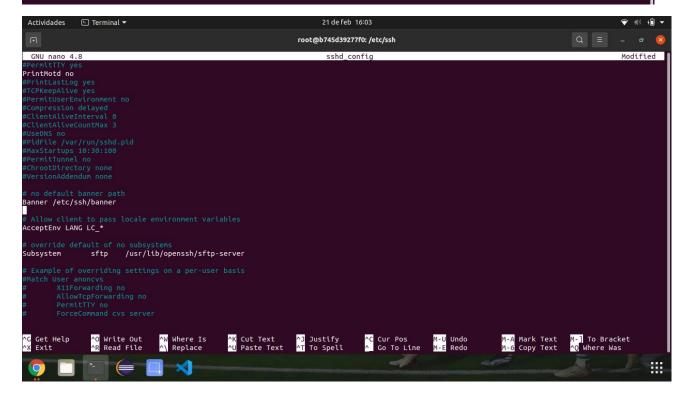
* Starting OpenBSD Secure Shell server sshd
root@b745d39277f0:/# service ssh status

* sshd is running
root@b745d39277f0:/#
```

```
root@b745d39277f0:/# cd /etc/ssh
root@b745d39277f0:/etc/ssh# ls
moduli ssh_config.d ssh_host_ecdsa_key.pub ssh_host_ed25519_key.pub ssh_host_rsa_key.pub sshd_config
ssh_config ssh_host_ecdsa_key ssh_host_ed25519_key ssh_host_rsa_key ssh_import_id sshd_config.d
root@b745d39277f0:/etc/ssh#
```

```
root@b745d39277f6:/etc/ssh# apt install nano
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
    hunspell
The following NEW packages will be installed:
    nano
    upgraded, 1 newly installed, 0 to remove and 12 not upgraded.
    Need to get 269 kB of archives.
    After this operation, 886 kB of additional disk space will be used.
    Get:! http://archive.ubuntu.com/ubuntu focal/main amd64 nano amd64 4.8-lubuntu1 [269 kB]
    Fetched 269 kB in 08 (923 kB/s)
    debconf: delaying package configuration, since apt-utils is not installed
    Selecting previously unselected package nano.
    (Reading database ... 12088 files and directories currently installed.)
    Preparing to unpack .../nano 4.8-lubuntu1 ...
    update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
    update-alternatives: using /bin/nano to provide /usr/share/man/mani/editor.i.gz because associated file /usr/share/man/mani/nano.i.gz (of link group editor) doesn't exist
    root@b745d39277f0:/etc/ssh#

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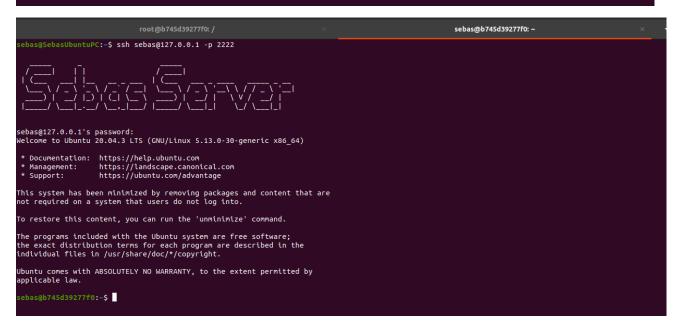
Contraseña = sebas

```
root@b745d39277f0:/etc/ssh# adduser sebas
Adding user `sebas' ...
Adding new group `sebas' (1000) ...
Adding new user `sebas' (1000) with group `sebas' ...
Creating home directory `/home/sebas' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for sebas
Enter the new value, or press ENTER for the default
         Full Name []:
         Room Number []:
         Work Phone []:
         Home Phone []:
         Other []:
Is the information correct? [Y/n] y
root@b745d39277f0:/etc/ssh#
```

```
sebas@SebasUbuntuPC:~$ sudo docker start serverssh
[sudo] contraseña para sebas:
serverssh
sebas@SebasUbuntuPC:~$
sebas@SebasUbuntuPC:~$ ssh sebas@127.0.0.1 -p 2222
The authenticity of host '[127.0.0.1]:2222 ([127.0.0.1]:2222)' can't be established.
ECDSA key fingerprint is SHA256:+TLeIaZa3AzN3Z+JIKtyjEzEqcwU9SyeErr6mBewpoM.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[127.0.0.1]:2222' (ECDSA) to the list of known hosts.
Connection closed by 127.0.0.1 port 2222
sebas@SebasUbuntuPC:~$
```

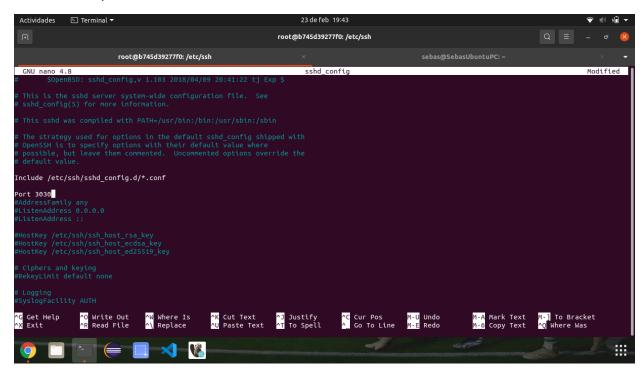
Miércoles 23 febrero 2022

```
start: unrecogntzed service
sebas@SebasUbuntuPC:~$ sudo docker exec -it serverssh /bin/bash
root@b745d39277f0:/# service start ssh
start: unrecognized service
root@b745d39277f0:/# service ssh start
 * Starting OpenBSD Secure Shell server sshd
root@b745d39277f0:/# service ssh status
 * sshd is running
root@b745d39277f0:/#
```



2.-Modificar el puerto

Cambiamos el puerto al 3030



```
sebas@SebasUbuntuPC:~$ sudo docker inspect serverssh
[sudo] contraseña para sebas:
[
```

```
"EndpointID": "2cb0c82fc25119c47d039c9e58b857ac
"Gateway": "172.17.0.1",
"GlobalIPv6Address": "",
"GlobalIPv6PrefixLen": 0,
"IPAddress": "172.17.0.2",
"IPPrefixLen": 16,
"IPv6Gateway": "",
"MacAddress": "02:42:ac:11:00:02".
```

```
root@b745d39277f0:/etc/ssh# service ssh restart

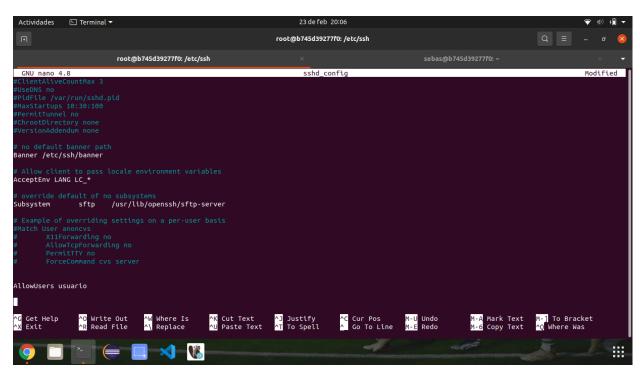
* Restarting OpenBSD Secure Shell server sshd
root@b745d39277f0:/etc/ssh# service ssh status

* sshd is running
root@b745d39277f0:/etc/ssh#
```

3.- Limitar el uso de servicio a determinados usuarios

Contraseña: usuario

```
100L@D745U3921710; /ELC/SSII
root@b745d39277f0:/etc/ssh# adduser usuario
Adding user `usuario' ...
Adding new group `usuario' (1001) ...
Adding new user `usuario' (1001) with group `usuario' ...
Creating home directory `/home/usuario' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for usuario
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@b745d39277f0:/etc/ssh#
```



root@b745d39277f0:/etc/ssh# service ssh restart
 * Restarting OpenBSD Secure Shell server sshd
root@b745d39277f0:/etc/ssh# service ssh status
 * sshd is running
root@b745d39277f0:/etc/ssh#



4.- Limitar el uso de servicios a determinados grupos de usuarios.

root@b745d39277f0:/etc/ssh# groupadd grupossh root@b745d39277f0:/etc/ssh#

```
root@b745d39277f0:/etc/ssh# groupadd grupossh
root@b745d39277f0:/etc/ssh# usermod -G grupossh usuario
root@b745d39277f0:/etc/ssh# adduser usuario2
Adding user `usuario2' ...
Adding new group `usuario2' (1003) ...
Adding new user `usuario2' (1002) with group `usuario2' ...
Creating home directory `/home/usuario2' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for usuario2
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@b745d39277f0:/etc/ssh# usermod -G grupossh usuario2
root@b745d39277f0:/etc/ssh#
```

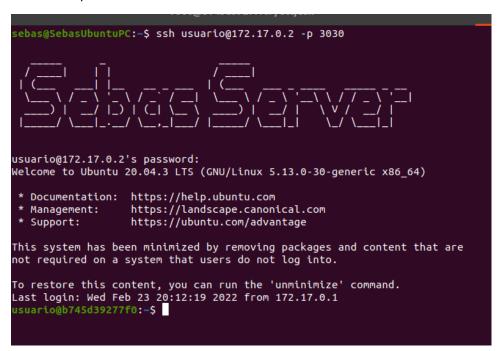
```
root@b745d39277f0:/etc/ssh# adduser usuario3
Adding user `usuario3' ...
Adding new group `usuario3' (1004) ...
Adding new user `usuario3' (1003) with group `usuario3' ...
Creating home directory `/home/usuario3' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for usuario3
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@b745d39277f0:/etc/ssh#
```

#AllowUsers usuario

AllowGroups grupossh

root@b745d39277f0:/etc/ssh# service ssh restart
 * Restarting OpenBSD Secure Shell server sshd
root@b745d39277f0:/etc/ssh# service ssh status
 * sshd is running
root@b745d39277f0:/etc/ssh#

Usuario --> permitido



Usuario 2 --> permitido

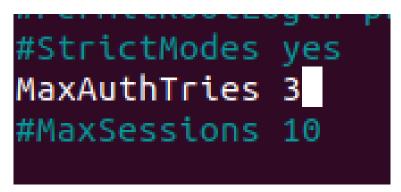
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

usuario2@b745d39277f0:~\$

Usuario 3 --> no permitido

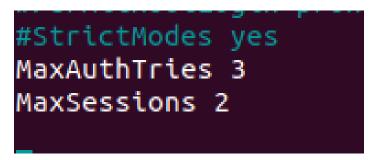
5.- Modificar el servidor SSH para que el numero maximo de intentos de login sea 3.

En el archivo de configuración sshd_config, ponemos MaxAuthTries y el nº de veces que queremos. En este caso será 3.



6.- Modificar el servidor SSH para que el numero maximo de usuarios a la vez en el sistema sea 2.

En el archivo de configuración sshd_config, ponemos MaxSessions y el nº de veces que queremos. En este caso será 2.



7.- Modificar el servidor SSH para que el tiempo de espera sea de 2 min.

En el archivo de configuración sshd_config, ponemos LoginGraceTime y el nº de minutos que queremos. En este caso será 2 min.

LoginGraceTime 2m #PermitRootLogin prohibit-password #StrictModes yes