Acceso SSH



03/10/2023

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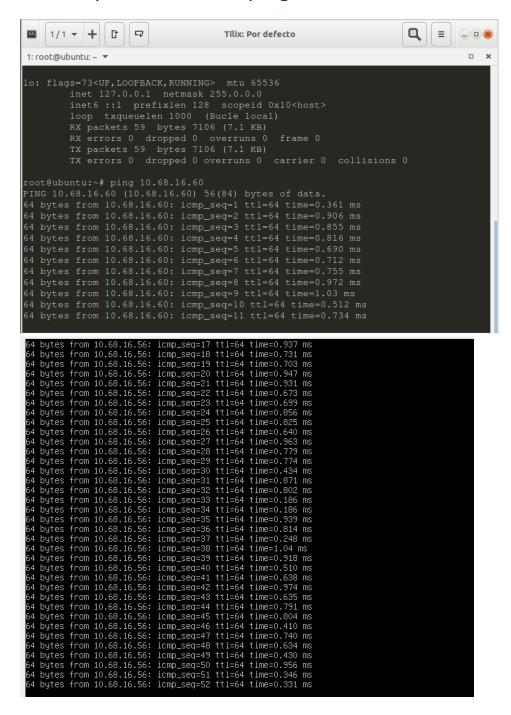
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Arrancamos las dos maquinas





Las maquinas se hacen ping entre ellas



Nos vamos a la carpeta .ssh

```
root@npa:~# cd .ssh
root@npa:~/.ssh# _
```

Esta carpeta si existe ya que estamos en un Ubuntu server

Ponemos el comando II

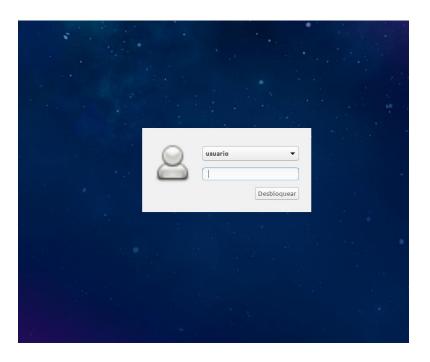
```
root@npa:~# 11
total 24
drwx----- 4 root root 4096 sep 29 18:49 ./
drwxr-xr-x 19 root root 4096 sep 29 18:35 ../
-rw-r--r-- 1 root root 3106 oct 15 2021 .bashrc
-rw-r--r-- 1 root root 161 jul 9 2019 .profile
drwx----- 3 root root 4096 sep 29 18:49 snap/
drwx----- 2 root root 4096 sep 29 18:49 .ssh/
root@npa:~# _
```

Comando more known_host

```
root@npa:~# more known_host
more: cannot open known_host: No such file or directory
root@npa:~# more known_hosts
more: cannot open known_hosts: No such file or directory
root@npa:~#
```

Se genera este fichero cuando te conectas con control remoto al servidor, en este caso no existe ya que no estoy conectado y nadie ha sido conectado por control remoto

Nos conectamos remotamente al usuario



Ponemos su IP para podernos conectar

```
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.68.16.56 netmask 255.255.252.0 broadcast 10.68.19.255
inet6 fe80::a00:27ff:febb:2dbc prefixlen 64 scopeid 0x20<link>
ether 08:00:27:bb:2d:bc txqueuelen 1000 (Ethernet)
RX packets 36951 bytes 3807414 (3.8 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 673 bytes 58355 (58.3 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Ponemos el comando ssh usuario@10.68.16.56

```
The authenticity of host '10.68.16.56
The authenticity of host '10.68.16.56 (10.68.16.56)' can't be established.
ED25519 key fingerprint is SHA256:cK85uZFXTE/KDQSpAKcEOngN2c56un7S3P8b5CjAKLA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.68.16.56' (ED25519) to the list of known hosts.
usuario@10.68.16.56's password:
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-20-generic x86_64)

* Documentation: https://lendscape.canonical.com

* Management: https://landscape.canonical.com

* Support: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

* Canonical Livepatch is available for installation.

- Reduce system reboots and improve kernel security. Activate at:
    https://ubuntu.com/livepatch

Pueden actualizarse 399 paquetes.
326 actualizaciones son de seguridad.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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

usuario@ubuntu:~$ _

usuario@ubuntu:~$ _

usuario@ubuntu:~$ _

usuario@ubuntu:~$ _

usuario@ubuntu:~$ _

usuario@ubuntu:~$ _
```

Ya estamos conectado

Ponemos el comando pwd

```
usuario@ubuntu:~$ pwd
/home/usuario
usuario@ubuntu:~$ _
```

Ponemos el comando ssh-keygen

```
root@npa:~/.ssh# ssh–keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:xs5QvuAgFV2A9jrJ3zX8irmPWatNvhFYSsheFIkrTWQ root@npa
The key's randomart image is:
----[RSA 3072]----+
     .+E++o
    0++0.
    ..+0.+ .
    ...+* +
   ...++ S..
    .=0 * .+.
     0..+.+0
       . .X o.
         B+Bo
    -[SHA256]
root@npa:~/.ssh#
```

Ponemos otra vez el comando II

```
root@npa:~/.ssh# 11
total 24
drwx----- 2 root root 4096 oct 3 16:50 ./
drwx----- 4 root root 4096 oct 3 16:49 ../
-rw----- 1 root root 0 sep 29 18:49 authorized_keys
-rw----- 1 root root 2590 oct 3 16:50 id_rsa
-rw-r--r- 1 root root 562 oct 3 16:50 id_rsa.pub
-rw----- 1 root root 364 oct 3 16:32 known_hosts
-rw-r--r- 1 root root 142 oct 3 16:32 known_hosts.old
```

Ponemos comando ssh-copy-id -i

```
pavel@npa:~/.ssh$ ssh-copy-id -i /home/pavel/.ssh/id_rsa.pub usuario@10.68.16.56
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/pavel/.ssh/id_rsa.pub"
The authenticity of host '10.68.16.56 (10.68.16.56)' can't be established.
ED25519 key fingerprint is SHA256:oKB5uZFXTE/KDQSpAKoEOngN2c56un7S3P8b5CjAKLA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are alr
eady installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to inst
all the new keys
usuario@10.68.16.56's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'usuario@10.68.16.56'"
and check to make sure that only the key(s) you wanted were added.

pavel@npa:~/.ssh$
```

Ya nos dicen que ya se ha añadido en el servidor remoto

Nos conectamos ahora sin que nos pida contraseña

```
pavel@npa:~/.ssh$ ssh usuario@10.68.16.56
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0–20–generic x86_64)

* Documentation: https://help.ubuntu.com

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Last login: Tue Oct 3 18:34:44 2023 from 10.68.16.60

usuario@ubuntu:~$ _
```

Nos deja acceder porque hemos copiado la clave publica al servidor destino

Nos vamos conectados a la carpeta .ssh y ejecutamos el comando II nos sale una carperta llamada llaves autorizadas y que tienen las claves permitidas para conectarnos al servidor

```
usuario@ubuntu:~/.ssh$ 1l
total 12
drwx----- 2 usuario usuario 4096 oct 3 19:06 ./
drwxr-xr-x 18 usuario usuario 4096 oct 3 19:06 ../
-rw----- 1 usuario usuario 563 oct 3 19:06 authorized_keys
usuario@ubuntu:~/.ssh$
```

Comando More authorized_keys

usuario@ubuntu:~/.ssh\$ more authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDP5YUFkcbgoMETwb0ZeurMsbq7pfUrdbt00F5sNFTPvwGEvH5adgMYGJ3m71+G
SolveyoDjebwuy61tbEwuxyGczTMeFA9+bq16tnEj/koy5NLbg22Pi0XGCIIQLauXUWW7VfKlkBS9nH2/lhzQSmX3cNDdyhtG9PuX
/XwYHkroQ/r870KcCVT++McudHgKTR788bGNw3fVf5nMIll3kQpmBEAaPGs0AkS0Ozt71NPtAh5ze9UwvT4BsxKgglHcOrxmHUNf
N2w1b0sPzGxsUsIqg7L7tNDs9doPrBU5Rtk0OvZibmUCr7opxYhVoP//7wuBPXoXg0E8vL2SEPixLfIvOSLsqGGE/2c9VBejYUhT
OBg/tUBE4D852iIhNxFvCoxq5wNldCD9CTOMMNkDz9yqsNDzRMteX39QMhieyFkpR0iy1E/DjUFEciA0PsfjOp+z8e1KLXK18ZGk
gEuhSPE9XU/BKNHOQCeKva8wkeaW3Aw4tH5FVadtNCpqn8Of++E= pavel@npa
usuario@ubuntu:~/.ssh\$ _

Nos sale la clave encriptada y si leemos al final nos pone el nombre del usuario pavel@npa, es el que genero las claves.