

1. Generamos la key ssh con la siguiente comanda:
`ssh-keygen -t rsa -b 4096 -C "your_email@example.com"`

```
dani@archdani ~/.ssh % ssh-keygen -t rsa -b 4096 -C "your_email@example.com" :(\nGenerating public/private rsa key pair.\nEnter file in which to save the key (/home/dani/.ssh/id_rsa):\nEnter passphrase (empty for no passphrase):\nEnter same passphrase again:\nYour identification has been saved in /home/dani/.ssh/id_rsa.\nYour public key has been saved in /home/dani/.ssh/id_rsa.pub.\nThe key fingerprint is:\nSHA256:9fdTsiPAR0zDvAd+7bpfKXgC+7hSs3V2w8gD+K0h+N0 your_email@example.com\nThe key's randomart image is:\n+---[RSA 4096]-----+\n|\n|..|\n|..|\n|++|\n|=*O|\n|So++=.|\n|. +==+0.B|\n|o.*=B+=o+|\n|. ooooEoo|\n|.O..O+|\n+-----[SHA256]-----+
```

Generating a new SSH key

MAC | WINDOWS | LINUX

After you've checked for existing SSH keys, you can g then add it to the ssh-agent.

If you don't already have an SSH key, you must genera already have an SSH key, check for existing keys.

If you don't want to reenter your passphrase every time the SSH agent, which manages your SSH keys and re

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2. Enviamos la clave al servidor y nos conectamos automaticamente:
`sudo ssh-copy-id -i ~/.ssh/id_rsa.pub funky@funkyserver`
`ssh funky@funkyserver`

```
dani@archdani ~/.ssh % sudo ssh-copy-id -i ~/.ssh/id_rsa.pub funky@funkyserver\n/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/dani/.ssh/id_rsa.pub"\nfunkyserver16\n/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed\n/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys\nfunky@funkyserver's password:\nNumber of key(s) added: 1\n\nNow try logging into the machine, with: "ssh 'funky@funkyserver'" and check to make sure that only the key(s) you wanted were added.\n\ndani@archdani ~/.ssh % ssh funky@funkyserver\nWelcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-96-generic x86_64)\n\n * Documentation:  https://help.ubuntu.com\n * Management:    https://landscape.canonical.com\n * Support:        https://ubuntu.com/advantage\n\nPodeu actualitzar 114 paquets.\n0 actualitzacions són actualitzacions de seguretat.\n\nLast login: Fri Oct 6 17:30:22 2017\nfunky@funkyserver:~$
```

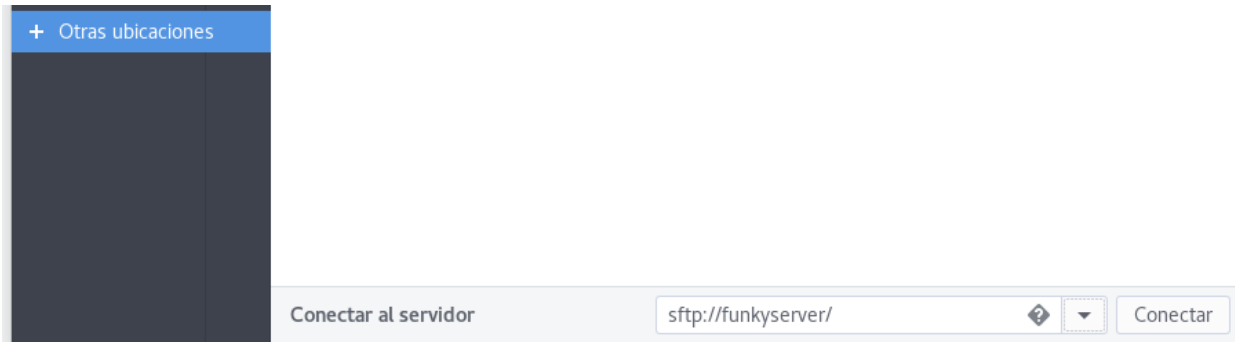
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```

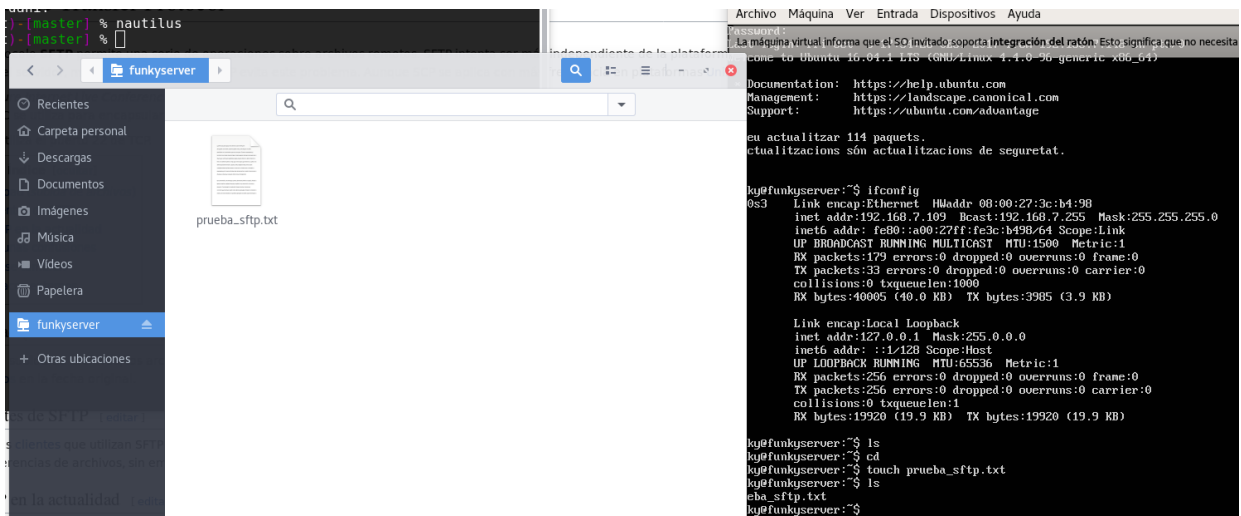
3.1 Acceder y navegar con nautilus por el servidor.

Te vas al nautilus y en la barra de la izquierda te aparece “otras ubicaciones”.

Le das click y escribes “sftp://funkyserver” y le das enter para acceder.



Una vez estamos dentro, creamos un archivo de prueba y comprobamos que desde el cliente se puede visualizar.



3.2 Copiamos un archivo desde nuestra maquina al servidor.

Del cliente al servidor:

```
dani@archdani ~ (git) - [master] % scp pruebaaa.txt funky@funkyserver:~/pruebaaa.txt 100% 0 0.0KB/s 00:00
```

Del servidor al cliente:

```
1 dani@archdani ~ (git) - [master] % scp funky@funkyserver:~/prueba_sftp.txt . : (prueba_sftp.txt 100% 0 0.0KB/s 00:00)
```

3.3 Subir carpeta con todo lo de dentro.

```
1 dani@archdani ~ (git)-[master] % scp -r PhpstormProjects/m07 funky@funkyserver:~/
pre-receive.sample 100% 544 683.5KB/s 00:00
pre-push.sample 100% 1348 1.6MB/s 00:00
applypatch.sample 100% 478 636.7KB/s 00:00
pre-applypatch.sample 100% 424 684.6KB/s 00:00
post-update.sample 100% 189 255.2KB/s 00:00
pre-rebase.sample 100% 4898 4.7MB/s 00:00
prepare-commit-msg.sample 100% 1239 1.1MB/s 00:00
pre-commit.sample 100% 1642 1.6MB/s 00:00
update.sample 100% 3610 3.0MB/s 00:00
commit-msg.sample 100% 896 865.1KB/s 00:00
exclude 100% 240 245.1KB/s 00:00
master 100% 41 42.7KB/s 00:00
master 100% 41 40.5KB/s 00:00
COMMIT_EDITMSG 100% 38 34.9KB/s 00:00
HEAD 100% 23 23.3KB/s 00:00
index 100% 225 219.4KB/s 00:00
master 100% 655 673.2KB/s 00:00
master 100% 450 422.6KB/s 00:00
HEAD 100% 655 560.7KB/s 00:00
description 100% 73 78.4KB/s 00:00
config 100% 275 254.8KB/s 00:00
a63f8c1f6f77c6ea7493e58de6caa7414d664b 100% 152 125.6KB/s 00:00
```

4.1 Editamos el archivo sshd_config que hay en el servir con la siguiente orden: sudo nano /etc/ssh/sshd_config

```
GNU nano 2.5.3 Fitxer: /etc/s
La máquina virtual informa que el SO invitado soporta integrac
# Package generated configuration file
# See the sshd_config(5) manpage for details

# What ports, IPs and protocols we listen for
Port 1022_
# Use these options to restrict which interfaces
#ListenAddress ...
```

```
1 dani@archdani ~ (git)-[master] % scp -P 1022 pruebaaa.txt funky@funkyserver:~/ :(
pruebaaa.txt 100% 0 0.0KB/s 00:00
```

4.2 Le damos acceso al usuario james solamente.

Añadir esta linea al fichero nombrado en el punto anterior.

```
AllowUsers james
```

Creamos el usuario james y le damos una passwd:

```
sudo useradd james
```

```
sudo passwd james
```

Intentamos pasar un archivo con funky:

Nos pide la contraseña y nos dice permiso denegado.

```
dani@archdani ~ (git)-[master] % scp -P 1022 pruebaaa.txt funky@funkyserver:~/
funky@funkyserver's password:
Permission denied, please try again.
```

Intentamos pasarlo ahora con james:

```
dani@archdani ~ (git)-[master] % scp -P 1022 pruebaaa.txt james@funkyserver:~/
james@funkyserver's password:
pruebaaa.txt 100% Controlador de ancho de banda: 0.0KB/s 00:00
```

4.3 Denegamos acceso a un rango de ip's:

en el servidor añadimos al archivo “/etc/hosts.deny” la linea “sshd:
192.168.7.0/255.255.255.0”

Probamos a pasar un archivo y no nos deja, tambien probamos a acceder al servidor y no
deja. (he vuelto a permitir el acceso con el usuario funky).

```
dani@archdani ~ (git)-[master] % scp -P 1022 pruebaaa.txt james@funkyserver:~/
ssh_exchange_identification: read: Connection reset by peer
lost connection: rict SSH login using SSH keys to a particular IP address ...
1 dani@archdani ~ (git)-[master] % ssh funky@funkyserver Tradueix aquesta pàgina : 0
ssh: connect to host funkyserver port 22: Connection refused less. Posted on
255 dani@archdani ~ (git)-[master] % ssh -P 1022 funky@funkyserver : 0
ssh: connect to host 1022 port 22: Invalid argument
255 dani@archdani ~ (git)-[master] % ssh -p 1022 funky@funkyserver : 0
ssh_exchange_identification: read: Connection reset by peer InM...
255 dani@archdani ~ (git)-[master] % ssh -p 1022 funky@funkyserver Tradueix aquesta pàgina
```