

Extra Exercises

Contenido

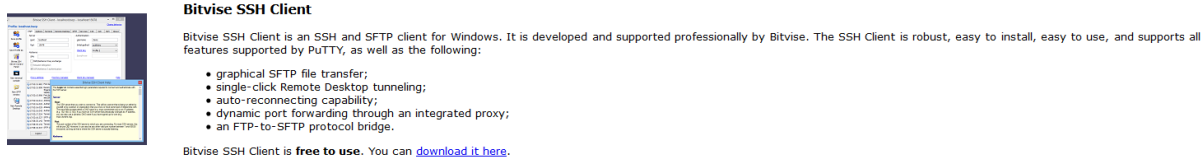
SSH SESSION FROM WINDOWS TO UBUNTU (PUTTY).....	3
COPYING FILES (WinSCP).....	7

SSH SESSION FROM WINDOWS TO UBUNTU (PUTTY)

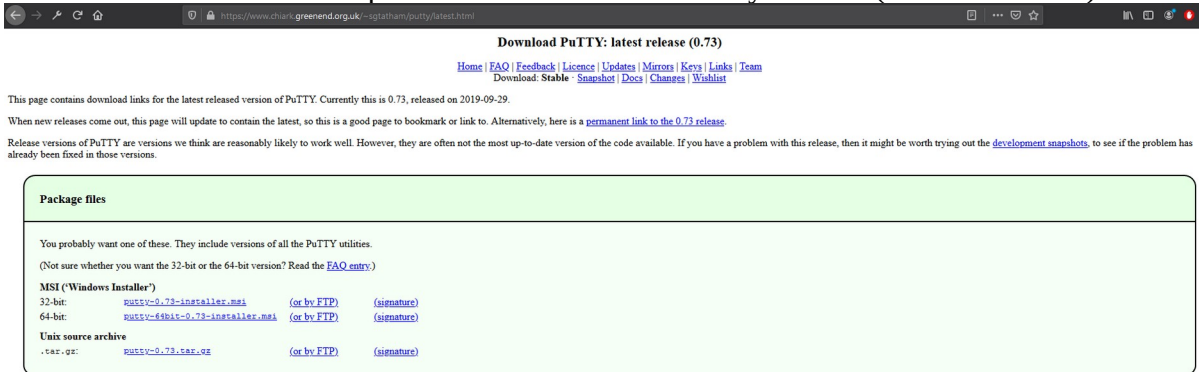
1. Go to <https://www.putty.org/>



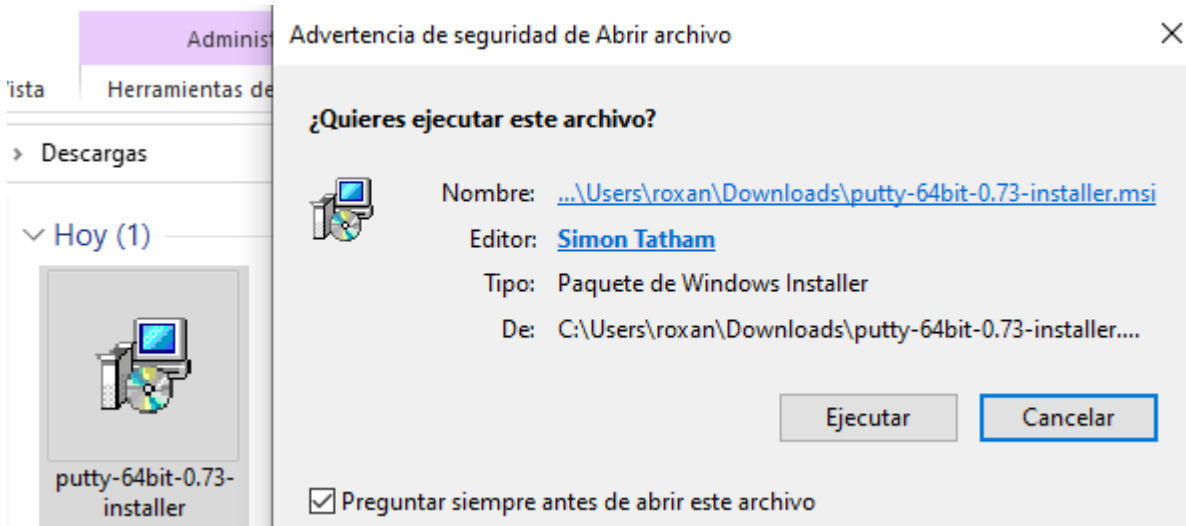
Below suggestions are independent of the authors of PuTTY. They are *not* to be seen as endorsements by the PuTTY project.



2. Click on download option and then select necessary version (I choose 64 bits)



3. Go where installer is allocated and execute it.



4. Once PuTTY is installed. Open VM and is necessary to check if ssh service is available by “sudo systemctl status ssh”.

```
rotz@rotz-VirtualBox:~$ sudo systemctl status ssh
Unit ssh.service could not be found.
```

5. By now service is not available, type “sudo apt-get install ssh” (most of the times ssh-client is installed by default and ssh-server is not). Then, type “s” or “y” (depending on language) to download ssh-server

```
rotz@rotz-VirtualBox:~$ sudo apt-get install ssh
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
  openssh-server
Paquetes sugeridos:
  molly-guard monkeysphere ssh-askpass
Se instalarán los siguientes paquetes NUEVOS:
  openssh-server ssh
0 actualizados, 2 nuevos se instalarán, 0 para eliminar y 97 no actualizados.
Se necesita descargar 5 072 B/382 kB de archivos.
Se utilizarán 1 647 kB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] s
```

6. Now if we run “sudo systemctl status ssh” we can see the following

```
rotz@rotz-VirtualBox:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-06-08 11:09:27 CDT; 29s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
  Main PID: 5863 (sshd)
    Tasks: 1 (limit: 2284)
   Memory: 1.1M
    CGroup: /system.slice/ssh.service
            └─5863 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

jun 08 11:09:27 rotz-VirtualBox systemd[1]: Starting OpenBSD Secure Shell server...
jun 08 11:09:27 rotz-VirtualBox sshd[5863]: Server listening on 0.0.0.0 port 22.
jun 08 11:09:27 rotz-VirtualBox sshd[5863]: Server listening on :: port 22.
jun 08 11:09:27 rotz-VirtualBox systemd[1]: Started OpenBSD Secure Shell server.
```

7. With “netstat -tln” we can see the needed port (22) to ssh session

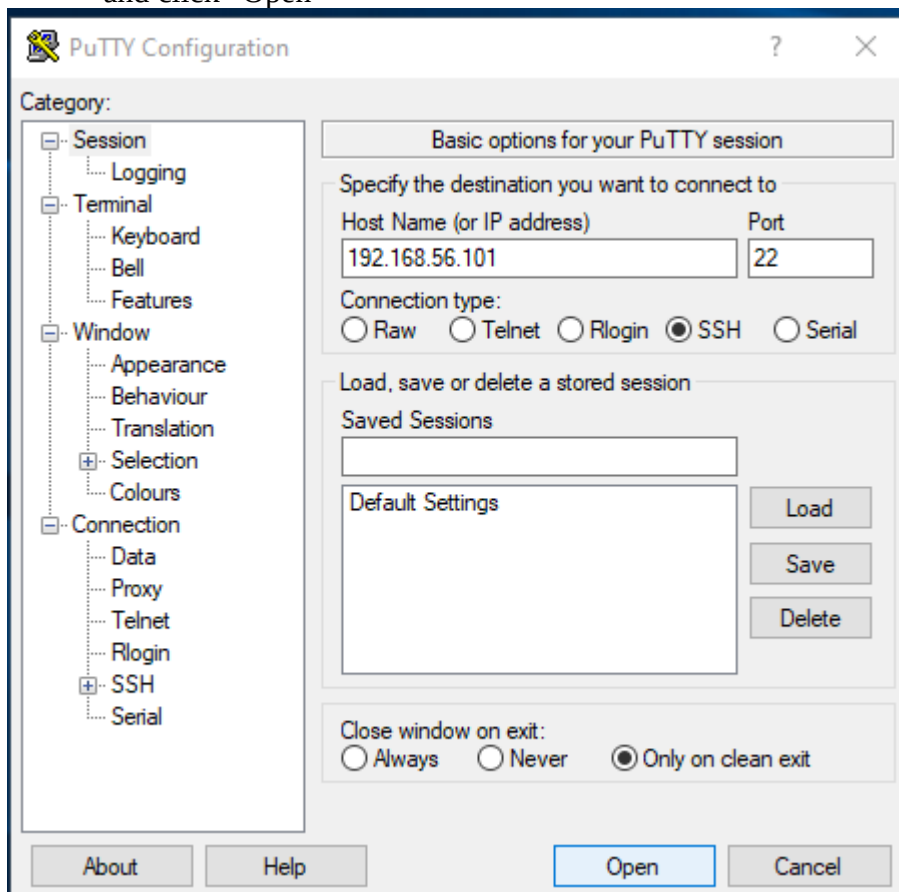
```
rotz@rotz-VirtualBox:~$ netstat -tln
(No todos los procesos pueden ser identificados, no hay información de propiedad del proceso
no se mostrarán, necesita ser superusuario para verlos todos.)
Conexiones activas de Internet (solo servidores)
Proto Recib Envíad Dirección local      Dirección remota    Estado      PID/Program name
tcp    0      0 127.0.0.53:53        0.0.0.0:*            ESCUCHAR    -
tcp    0      0 0.0.0.0:22          0.0.0.0:*            ESCUCHAR    -
tcp    0      0 127.0.0.1:631       0.0.0.0:*            ESCUCHAR    -
tcp6   0      0 :::22              :::*                ESCUCHAR    -
tcp6   0      0 :::1:631           :::*                ESCUCHAR    -
```

- Run “ifconfig” to get VM IP address in order to establish ssh session on Host side.
(192.168.56.101)

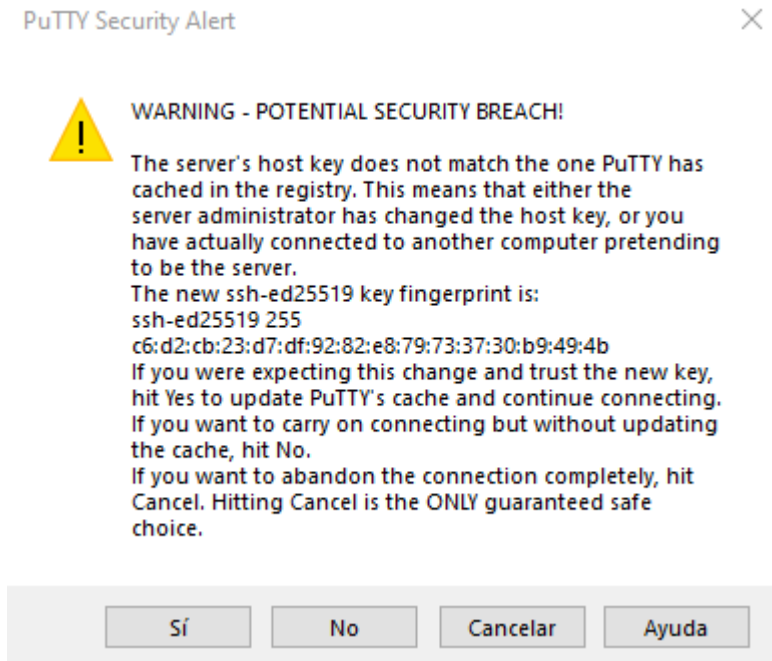
```
rotz@rotz-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::dda4:bc8a:67ca:8a10 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:7a:56:43 txqueuelen 1000 (Ethernet)
    RX packets 903 bytes 1140828 (1.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 708 bytes 51618 (51.6 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::2775:d020:c292:db97 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:25:aa:6d txqueuelen 1000 (Ethernet)
    RX packets 203 bytes 21851 (21.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 84 bytes 12758 (12.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- Open PuTTY on Windows and type guest IP address (192.168.56.101), port (22), select on SSH and click “Open”



10. Warning will appear, click “Yes” to continue.



11. A console will open type user and password (from Ubuntu VM) for session to be opened.

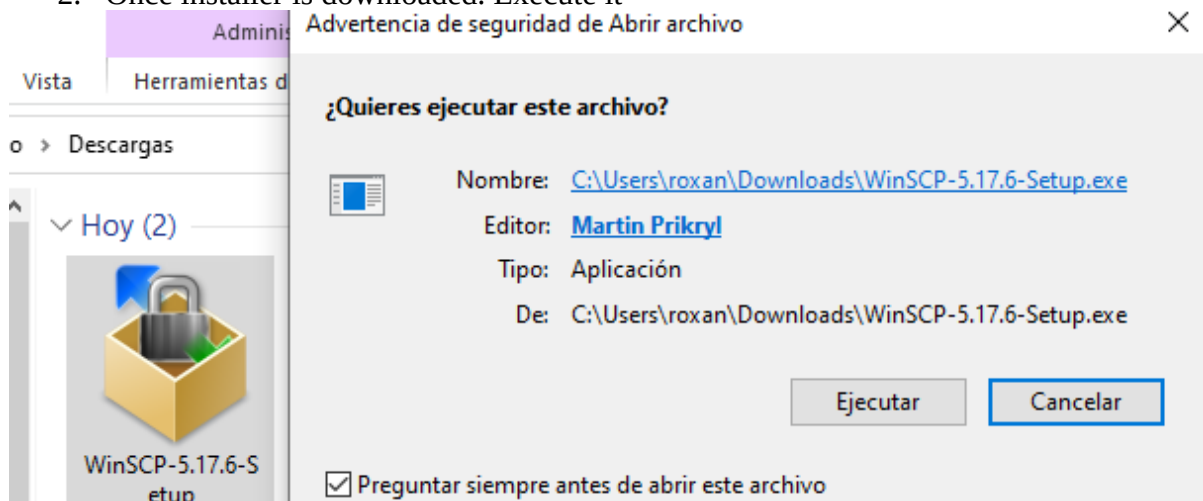


COPYING FILES (WinSCP)

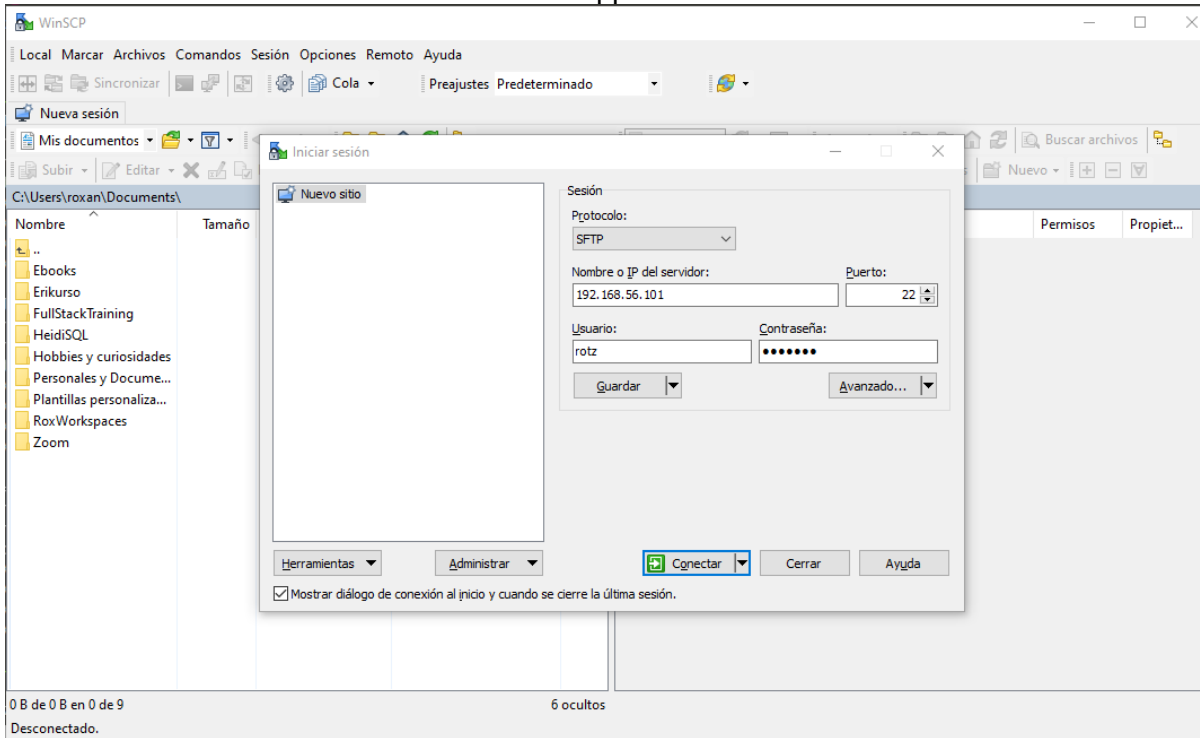
1. With open ssh session, download WinSCP on Windows Machine going to <https://winscp.net/eng/download.php>



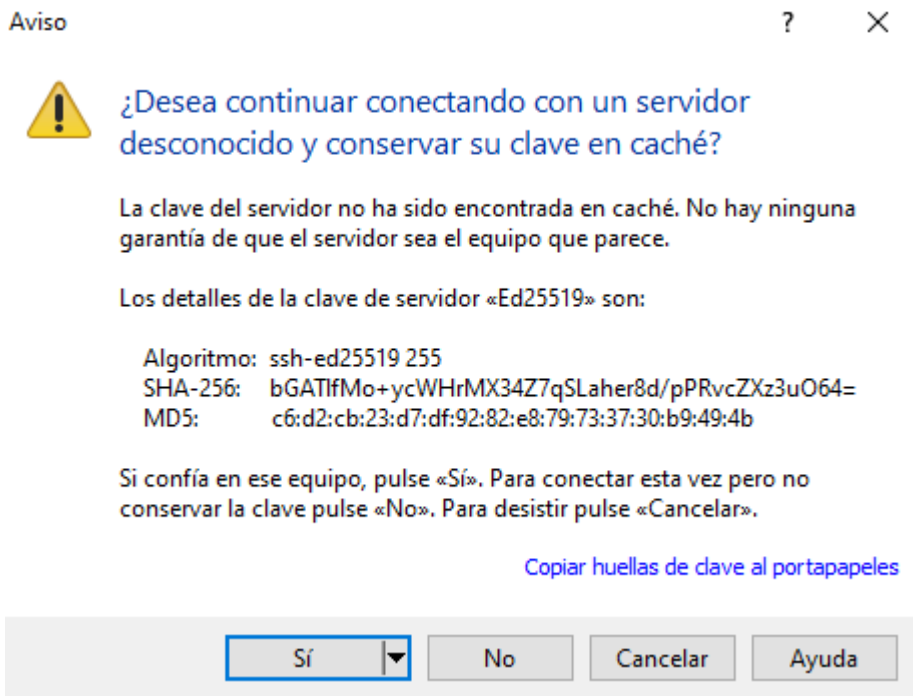
2. Once installer is downloaded. Execute it



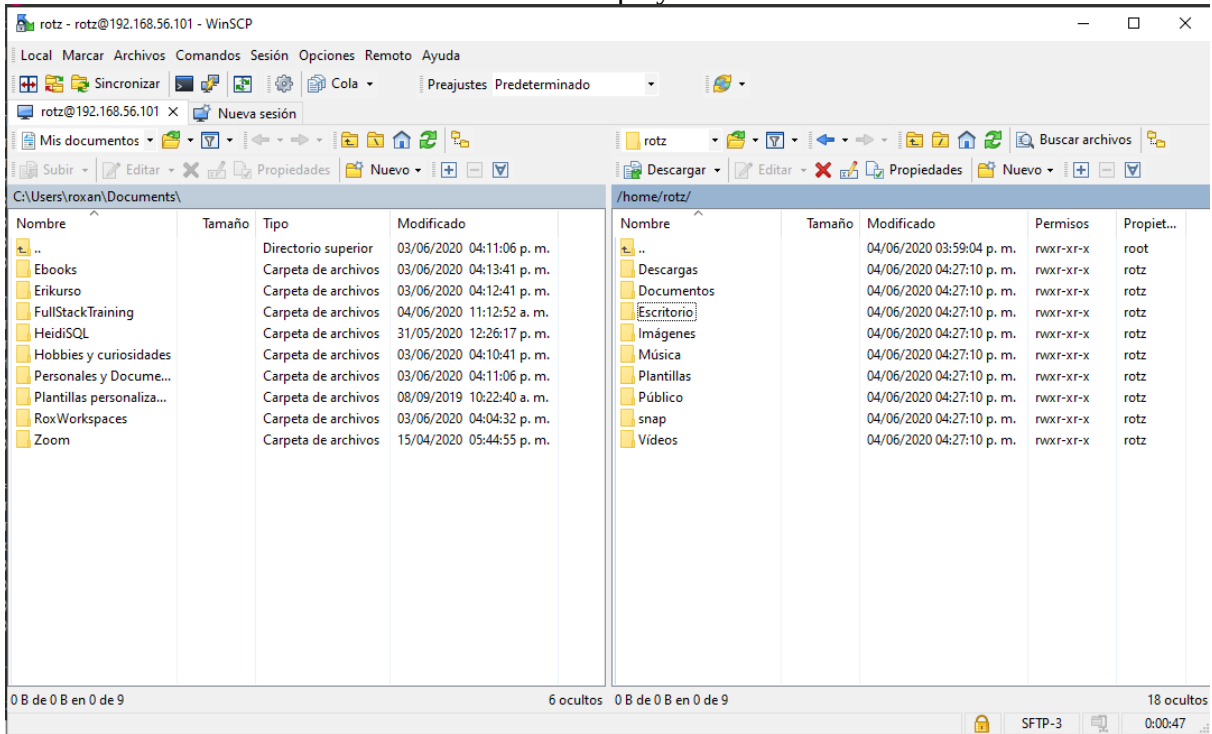
3. With WinSCP credentials should be supplied to connect Virtual Machine.



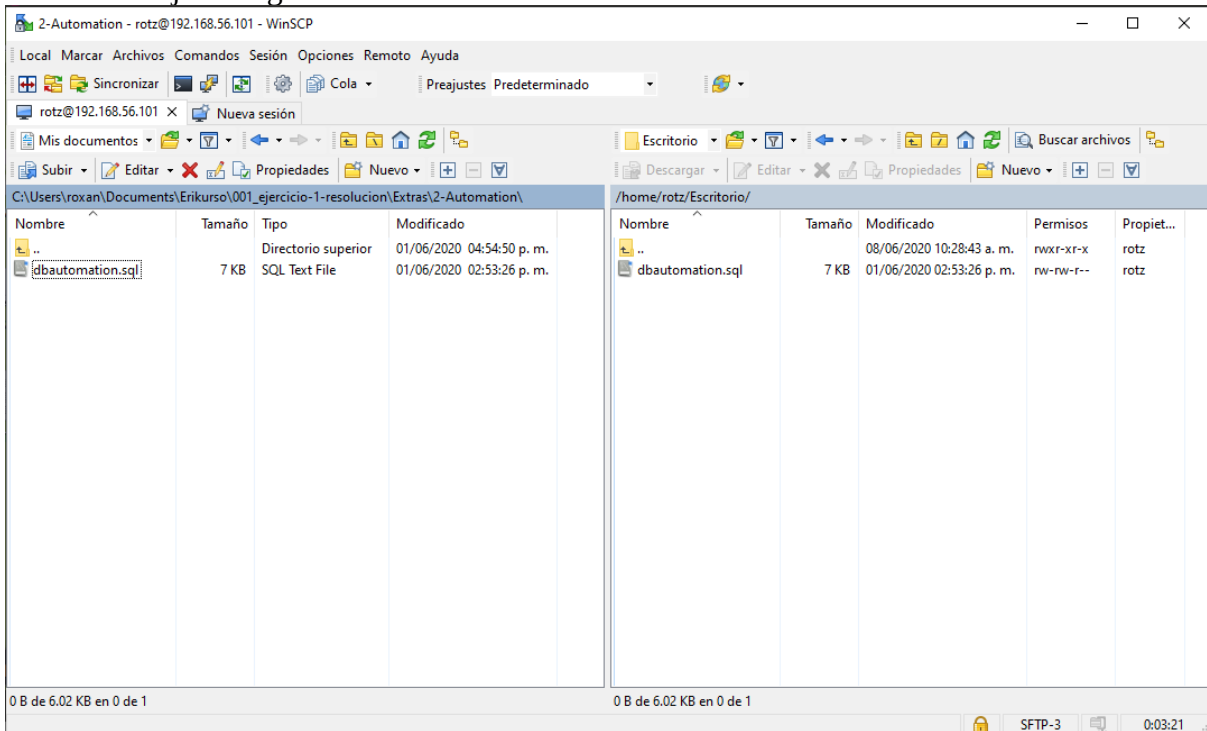
4. Click "Yes"



5. Windows and ubuntu screens will be displayed



6. Now just drag file from one screen to the other



7. Back to virtual machine, we can see file on Desktop.

