Extra Exercises

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SSH SESSION FROM WINDOWS TO UBUNTU (PUTTY)

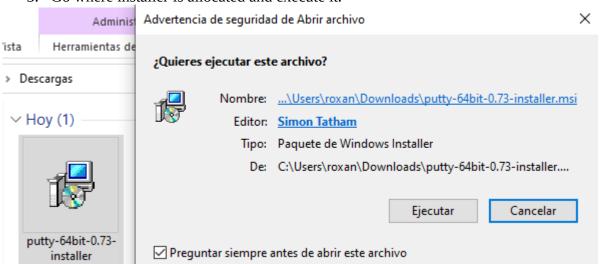




2. Click on download option and then select necessary version (I choose 64 bits)



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

```
otz@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

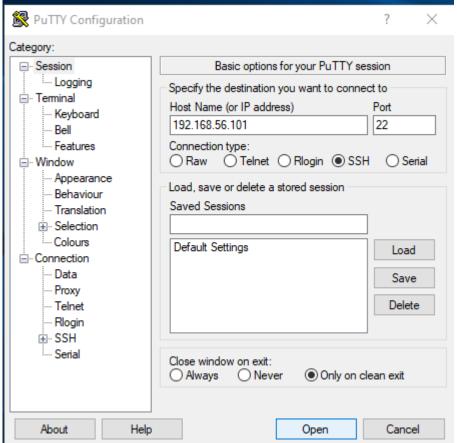
```
otz@rotz-VirtualBox:~$ sudo systemctl status ssh
ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2020-06-08 11:09:27 CDT; 29s ago
       Docs: man:sshd(8)
              man:sshd_config(5)
   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.
iun 08 11:09:27 rotz-VirtualBox svstemd[1]: Started OpenBSD Secure Shell serv
```

```
7. With "netstat -tpln" we can see the needed port (22) to ssh session otz@rotz-VirtualBox:-$ netstat -tpln
(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 Enviad Dirección local
                                                Dirección remota
                                                                           Estado
                                                                                         PID/Program name
                 0 127.0.0.53:53
                                                                            ESCUCHAR
tcp
                                                0.0.0.0:*
                 0 0.0.0.0:22
0 127.0.0.1:631
0 :::<mark>22</mark>
                                                0.0.0.0:*
                                                                            ESCUCHAR
                                                 0.0.0.0:*
                                                                            ESCUCHAR
                                                                            ESCUCHAR
tcp6
tcp6
                  0 ::1:631
                                                                            ESCLICHAR
```

8. 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 <mark>192.168.56.101</mark>  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
```

9. Open PuTTY on Windows and type guest IP address (192.168.56.101), port (22), select on SSH and click "Open"



PuTTY Security Alert



WARNING - POTENTIAL SECURITY BREACH!

The server's host key does not match the one PuTTY has cached in the registry. This means that either the server administrator has changed the host key, or you have actually connected to another computer pretending to be the server.

The new ssh-ed25519 key fingerprint is:

ssh-ed25519 255

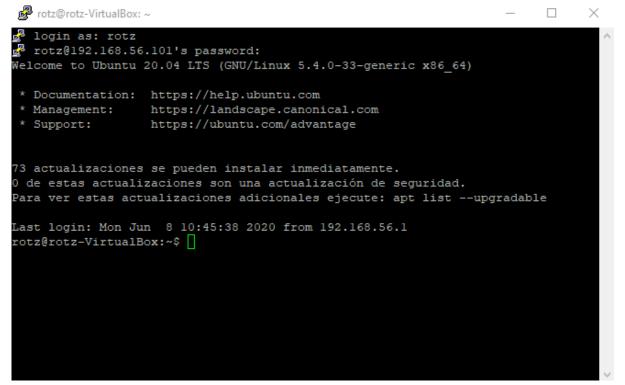
c6:d2:cb:23:d7:df:92:82:e8:79:73:37:30:b9:49:4b

If you were expecting this change and trust the new key, hit Yes to update PuTTY's cache and continue connecting. If you want to carry on connecting but without updating the cache, hit No.

If you want to abandon the connection completely, hit Cancel. Hitting Cancel is the ONLY guaranteed safe choice.

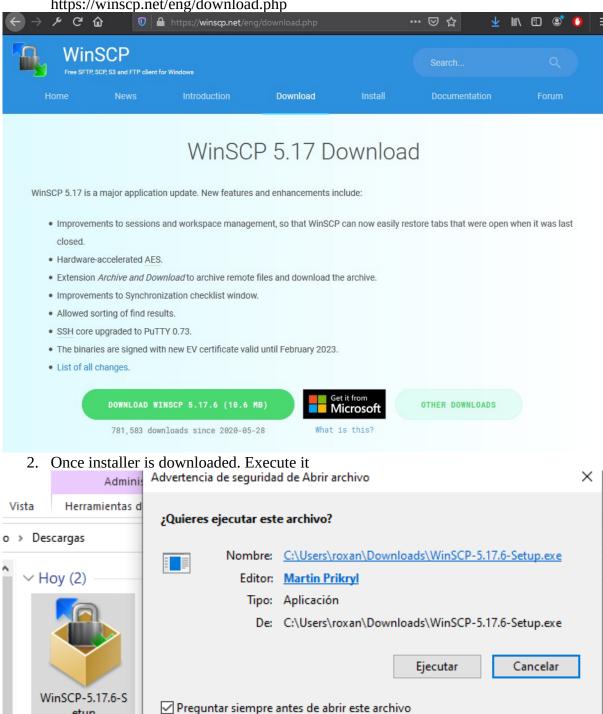


11. A console will open type user and password (from Ubuntu VM) for session to be opened.

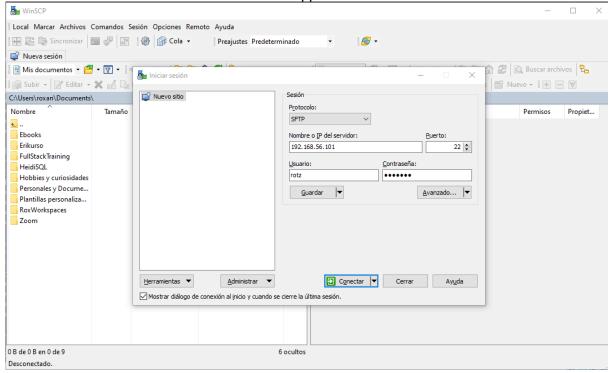


COPYING FILES (WinSCP)

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



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



4. Click "Yes"

Aviso ? X



¿Desea continuar conectando con un servidor desconocido y conservar su clave en caché?

La clave del servidor no ha sido encontrada en caché. No hay ninguna garantía de que el servidor sea el equipo que parece.

Los detalles de la clave de servidor «Ed25519» son:

Algoritmo: ssh-ed25519 255

SHA-256: bGATIfMo+ycWHrMX34Z7qSLaher8d/pPRvcZXz3uO64=

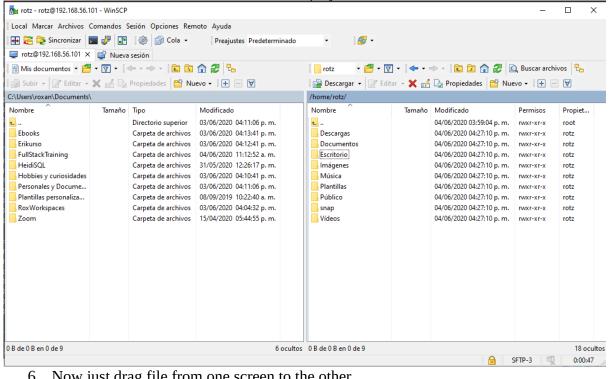
MD5: c6:d2:cb:23:d7:df:92:82:e8:79:73:37:30:b9:49:4b

Si confía en ese equipo, pulse «Sí». Para conectar esta vez pero no conservar la clave pulse «No». Para desistir pulse «Cancelar».

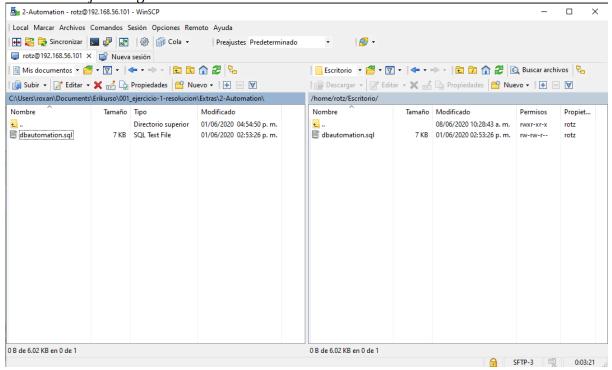
Copiar huellas de clave al portapapeles



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.

