

Alumne (nom i cognoms):

Activitat 8. SCP

Documenteu amb captures de pantalla les comandes executades i les comprovacions realitzades.

Per realitzar aquesta pràctica és necessari un intercanvi de claus públiques entre els alumnes.

Creeu una estructura amb una carpeta /home/usuari local/teu nom i 2 fitxers:

- teu_nom.txt
- teu_nom.pdf

```
adgo@m7ubuserver:~/adrian$ ls
adrian.pdf adrian.txt
adgo@m7ubuserver:~/adrian$ sudo chown adgo:adgo /home/adgo/adrian/
```

Amb un company de classe, realitzeu un exemple de còpia per a cada exercici.

1. Copiar un arxiu .pdf des de la carpeta de la màquina local a la carpeta de la màquina remota.

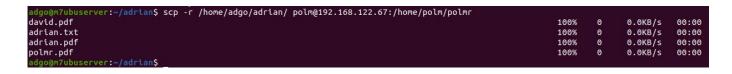
```
adgo@m7ubuserver:~/adrtan$ scp /home/adgo/adrtan/adrtan.pdf polm@192.168.122.67:/home/polm/polmr/
adrian.pdf
adgo@m7ubuserver:~/adrtan$

adgo@m7ubuserver:~/adrtan$ ls
adrian.pdf adrian.txt david.pdf polmr.pdf
adgo@m7ubuserver:~/adrian$
```

2. Copiar un arxiu .txt des de la carpeta de la màquina remota a la carpeta de la màquina local.

```
adgo@m7ubuserver:~/adrian$ scp polm@192.168.122.67:/home/polm/polmr.txt /home/adgo/adrian
polmr.txt
100% 0 0.0KB/s 00:00
adgo@m7ubuserver:~/adrian$ _
```

3. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina local a la carpeta de la màquina remota.



4. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina remota a la carpeta de la màquina local.

adgo@m7ubuserver:~/adrian\$ scp -r polm@192.168.122.67:/home/polm/polmr/ /home/adgo/adrian				
david.txt	100%	0	0.0KB/s	00:00
david.pdf	100%	0	0.0KB/s	00:00
adrian.txt	100%	0	0.0KB/s	00:00
adrian.pdf	100%	0	0.0KB/s	00:00
polmr.txt	100%	0	0.0KB/s	00:00
david.txt	100%	0	0.0KB/s	00:00
david.pdf	100%	0	0.0KB/s	00:00
polmr.txt	100%	0	0.0KB/s	00:00
polmr.pdf	100%	0	0.0KB/s	00:00
david.pdf	100%	0	0.0KB/s	00:00
adrian.txt	100%	0	0.0KB/s	00:00
adrian.pdf	100%	0	0.0KB/s	00:00
polmr.pdf	100%	0	0.0KB/s	00:00
adgo@m7ubuserver:~/adrian\$ _				

5. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina local a la carpeta de la màquina remota, incrementant la velocitat.

```
adgo@m7ubuserver:~/adrian$ sudo scp -c aes256-ctr /home/adgo/adrian/* dapi@192.168.122.89:/home/dapi/david

The authenticity of host '192.168.122.89 (192.168.122.89)' can't be established.

ECDSA key fingerprint is SHA256:AFCybdRtNYSp9K8u4Hkzo0yZbYxs84XPsMESreocAY.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '192.168.122.89' (ECDSA) to the list of known hosts.

dapi@192.168.122.89's password:

adrian.pdf

adrian.txt

/home/adgo/adrian/david: not a regular file

david.pdf

/home/adgo/adrian/polmr: not a regular file

polmr.pdf

100% 0 0.0KB/s 00:00

0 0.0KB/s 00:00

0 0.0KB/s 00:00

0 0.0KB/s 00:00
```

6. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina local a la carpeta de la màquina remota, limitant l'amplada de banda a 5MB.

adgo@m7ubuserver:~\$ sudo scp -r -l40000 /home/adgo/adrian/* dapi@192.168.122.89:/home/dapi/david		
dapi@192.168.122.89's password:		
adrian.pdf	0.0KB/	s 00:00
adrian.txt 100% 0	0.0KB/	s 00:00
david.txt	0.0KB/	s 00:00
david.pdf 100% 0	0.0KB/	s 00:00
polmr.txt 100% 0	0.0KB/	s 00:00
david.pdf 100% 0	0.0KB/	s 00:00
david.txt	0.0KB/	s 00:00
david.txt 100% 0	0.0KB/	s 00:00
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polmr.pdf 100% 0	0.0KB/	s 00:00
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7. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina local a la carpeta de la màquina remota, comprimint l'enviament.

	maqama romota, compilimint romamona				
david.txt	adgo@m7ubuserver:~\$ sudo scp -r -C /home/adgo/adrian/* dapi@192.168.122.89:/home/dapi	./david			
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	adgo@n7ubuserver:~\$	20070		0.010/3	00.00

8. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina local a la carpeta de la màquina remota, mostrant els detalls de l'enviament.

```
ver:~$ sudo scp -r -v /home/adgo/adrian/* dapi@192.168.122.89:/home/dapi/david
Executing: program /usr/bin/ssh host 192.168.122.89, user dapi, command scp -v -r -d -t /home/dapi/david
OpenSSH_8.2p1 Ubuntu-4ubuntu0.2, OpenSSL 1.1.1f 31 Mar 2020
debug1: Reading configuration data /etc/ssh/ssh_config
debug1: /etc/ssh/ssh_config line 19: include /etc/ssh/ssh_config.d/*.conf matched no files
debug1: /etc/ssh/ssh_config line 21: Applying options for *
debug1: Connecting to 192.168.122.89 [192.168.122.89] port 22.
debug1: Connection established.
debug1: identity file /root/.ssh/id_rsa type -1
debug1: identity file /root/.ssh/id_rsa-cert type -1
debug1: identity file /root/.ssh/id_dsa type -1
debug1: identity file /root/.ssh/id_dsa-cert type -1
debug1: identity file /root/.ssh/id_ecdsa type -1
debug1: identity file /root/.ssh/id_ecdsa-cert type -1
debug1: identity file /root/.ssh/id_ecdsa_sk type -1
debug1: identity file /root/.ssh/id_ecdsa_sk-cert type -1
debug1: identity file /root/.ssh/id_ed25519 type -1
debug1: identity file /root/.ssh/id_ed25519-cert type -1
debug1: identity file /root/.ssh/id_ed25519_sk type -1
debug1: identity file /root/.ssh/id_ed25519_sk-cert type -1
debug1: identity file /root/.ssh/id_xmss type -1
debug1: identity file /root/.ssh/id_xmss-cert type -1
debug1: Local version string SSH-2.0-OpenSSH_8.2p1 Ubuntu-4ubuntu0.2
debug1: Remote protocol version 2.0, remote software version OpenSSH_8.2p1 Ubuntu-4ubuntu0.2
debug1: match: OpenSSH_8.2p1    Ubuntu-4ubuntu0.2    pat OpenSSH* compat 0x04000000
debug1: Authenticating to 192.168.122.89:22 as 'dapi'
debug1: SSH2_MSG_KEXINIT sent
debug1: SSH2_MSG_KEXINIT received
debug1: kex: algorithm: curve25519-sha256
debug1: kex: host key algorithm: ecdsa-sha2-nistp256
debug1: kex: server->client cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: kex: client->server cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: expecting SSH2_MSG_KEX_ECDH_REPLY
debug1: Server host key: ecdsa-sha2-nistp256 SHA256:AFCybdRtNY5p9K8u4Hkzo0yZbYxs84N2msMESreocAY
Entering directory: D0755 0 adrian
Entering directory: D0775 0 polmr
Sink: D0755 0 adrian
Sending file modes: C0664 0 david.txt
Sink: D0775 0 polmr
david.txt
ink: C0664 0 david.txt
                                                                                                                        100%
                                                                                                                               0
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Sending file modes: C0664 0 david.pdf
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ink: C0664 0 david.pdf
Sending file modes: C0644 0 adrian.txt
adrian.txt
ink: C0644 0 adrian.txt
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adrian.pdf
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Sending file modes: C0644 0 polmr.txt
polmr.txt
ink: C0644 0 polmr.txt
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Entering directory: D0775 0 david
Sending file modes: C0664 0 david.txt
Sink: D0775 0 david
david.txt
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ink: C0664 0 david.txt
Sink: E
Sending file modes: C0644 0 polmr.pdf
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polmr.pdf
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Sending file modes: C0644 0 polmr.txt
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                                                                                                                    0.0KB/s 00:00
debug1: client_input_channel_req: channel 0 rtype exit-status reply 0 debug1: channel 0: free: client-session, nchannels 1 debug1: fd 0 clearing 0_NONBLOCK
Transferred: sent 6152, received 9388 bytes, in 0.4 seconds
Bytes per second: sent 15597.9, received 23802.5
debug1: Exit status 0
adgo@n7ubuserver:-$
```



CFGM - Sistemes Microinformàtics i Xarxes M6 - Seguretat informàtica UF2 - Còpies de seguretat Curs - 2021/2022

9. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina remota <u>a una altra carpeta</u> de la màquina remota.

```
adgo@m7ubuserver:~$ sudo touch restore
adgo@m7ubuserver:~$ sudo chown adgo:adgo restore
```

adgo@m7ubuserver:~\$ scp -3 -r dapi@192.168.122.89:/home/dapi/david/ dapi@192.168.122.89:/home/dapi/restore adgo@m7ubuserver:~\$

Amb un tercer company de classe:

10. Copiar la carpeta i tot el seu contingut des de la carpeta de la màquina remota 1 a la carpeta de la màquina remota 2.