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2 Exemplo 3. Aplicacións prácticas do Exemplo2

2.1 OBRIGATORIA LECTURA. ESCENARIO

NOTAS:

- 1. Todos estes exemplos son válidos unha vez feito o Exemplo2
- 2. No Exemplo2 o disco duro a montar na distribución Live SystemRescueCD posúe unha distribución GNU/Linux a recuperar
- 3. Picar nas imaxes para velas no tamaño orixinal

2.2 Recuperación dun Sistema Operativo GNU/Linux mediante unha Xaula chroot

2.2.1 Recuperar a password de root

Unha vez establecida a conexión co Servidor SSH proceder do seguinte xeito:



a. Ver a táboa de particións do equipo (fdisk -I). Neste caso a distribución Linux ten 2 particións:

b. Crear cartafol para acceder á información do disco duro /dev/s No cartafol creado, en /root, mediante o comando *mkdir recuperar* o partición do disco /dev/sda co comando: *mount -t auto /dev/sda1 recuperar*

- 1. /dev/sda1: A partición / onde está montado todo o sistema de ficheiros.
- 2. /dev/sda5: A partición swap adicada ao espazo de intercambio.



c. Montar o cartafol /dev dentro de recuperar/dev para poder ter acceso a todos os d. Montar o cartafol /proc dentro de recuperar/proc para poder te dispositivos recoñecidos pola distribución SystemRescueCD. Comando empregado: mount --bind /dev recuperar/dev

grazas a distribución SystemRescueCD. Comando empregado: m recuperar/proc.



e. Crear a xaula chroot co comando chroot recuperar /bin/bash .

Con ise comando creamos unha xaula: un entorno pechado para a distribución Linux dentro de recuperar, de tal xeito, que unha vez dentro da xaula soamente existe ésta, e dicir, soamente existe a distribución Linux a recuperar, xa non estamos traballando na SystemRescueCD.

f. Cambiar contrasinal root.

Mediante o comando passwd root cambiamos o contrasinal de root abc123. como novo contrasinal de root



g. Co comando exit saimos da xaula chroot.

h. Desmontar unidades montadas:

- 1. umount recuperar/dev
- 2. umount recuperar/proc
- 3. umount recuperar

Apagar a SystemRescueCD e arrancar a distribución Linux recup funciona o contrasinal novo de root.

2.3 Copiar o cartafol HOME de todos os usuarios

Unha vez establecida a conexión co Servidor SSH proceder do seguinte xeito:



a. Ver a táboa de particións do equipo (fdisk -l). Neste caso a distribución Linux ten 2 particións:

b. Crear cartafol para acceder á información do disco duro /dev/s No cartafol creado, en /root, mediante o comando *mkdir recuperar* a partición do disco /dev/sda co comando: *mount -t auto /dev/sda1 recuperar*

- 1. /dev/sda1: A partición / onde está montado todo o sistema de ficheiros.
- 2. /dev/sda5: A partición swap adicada ao espazo de intercambio.

2.3.1 Cliente Distribución GNU/Linux: Empregando o comando scp

Proceder:

C Terminal	- D X
Archivo Editar Ver Terminal Ayuda	Archive Editor Mar Temical Angle
<pre>alumno@aulalleq23:~\$ scp usage: scp [-1246BCpqrv] [-c cipher] [-F ssh_config] [-i identity_file] [-l limit] [-o ssh_option] [-P port] [-S program] [[user@]host1:]file1 [[user@]host2:]file2 alumno@aulalleq23:~\$ []</pre>	Archivo Editar Ver Terminal Ayuda alumno@aulalleq23:-\$ mkdir copia_home]

a. Abrir un novo terminal para facer a copia mediante scp.

Executando o comando scp podemos ver a sintaxe do mesmo.

b. Crear o directorio destino da copia: copia_home

Terminal	Terminal
Archivo Editar Ver Terminal Ayuda	Archivo Editar Ver Terminal Ayuda
Archivo Editar Ver Terminal Ayuda alumno@aulalleq23:~\$ mkdir copia_home alumno@aulalleq23:~\$ scp -r -P 22 root@192.168.120.100:recuperar/home copia_home ☐	Archivo Editar Ver Terminal Ayuda alumno@aulalleq23:~\$ mkdir copia_home alumno@aulalleq23:~\$ scp -r -P 22 root@192.168.120.100:recupera The authenticity of host '192.168.120.100 (192.168.120.100)' can RSA key fingerprint is c2:07:d2:00:6c:4c:df:af:9b:84:27:9b:a7:5 kre you sure you want to continue connecting (yes/no)? yes]

c. Copiar o HOME de todos os usuarios.

Para copiar o HOME de todos os usuarios debemos empregar o comando scp como segue:

scp -r -P 22 root@192.168.120.100:recuperar/home copia_home, onde:

- 1. -r significa recursivo, serve para copiar cartafois enteiros.
- 2. -P 22 indica o porto de conexión SSH
- 3. root@192.168.120.100 indica o usuario root na máquina 192.168.120.100
- 4. :recuperar/home indica o cartafol a copiar na ruta parcial recuperar/home, que ven sendo a ruta absoluta /root/recuperar/home, xa que no caso de non indicar a ruta absoluta sempre se parte da ruta da casa do usuario, neste caso o usuario é root, co cal pártese de /root
- 5. copia_home é o cartafol destino da copia.

d. Autenticación. Se é a primeira vez que nos conectamos o servido estamos de acordo coa autenticación. Respostamos **yes** e pulsamos primeira vez ver a seguinte imaxe.

Terminal _ 🗆 🗙	Terminal	
Archivo Editar Ver Jerminal Ayuda	Archivo Editar Ver Terminal Ayuda	
Archivo Editar Ver Terminal Ayuda alumno@aulalleq23:-\$ mkdir copia_home alumno@aulalleq23:-\$ scp -r -P 22 root@192.168.120.100:recuperar/home copia_home/ The authenticity of host '192.168.120.100 (192.168.120.100)' can't be established RSA key fingerprint is c2:07:d2:00:6c:4c:df:af:9b:84:27:9b:a7:5f:31:10. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.120.100' (RSA) to the list of known hosts. Password: []	Archivo Editar Yer Terminal Ayuda flash.js 100% 3437 100% 3437 100% 119 flash.css 100% 119 100% 200 100% 2000 flash.htm 100% 2000 2000 9723 200% 9723 editor_plugin_src.js 100% 925 100% 61 173 tr.js 100% 189 1173 100% 173 pl.js 100% 237 277 277 ru.js 100% 264 264 264	3.4 0.1 0.2 2.1 9.9 0.9 0.9 0.2 0.2 0.2 0.2 0.3 0.3
	sv.js 100% 202 zh_cn.js 100% 334 iespell.gif 100% 1438 editor_plugin_src.js 100% 1438 editor_plugin.js 100% 1438 props.htm 100% 27KB nl.js 100% 1942 es_dlg.js 100% 100% 1942 es_dlg.js 100% 100% 100% 1007 pl.js 100% 1710 cs_dlg.js 100% 100% 1915	0.2 0.3 0.1 1.4 0.9 27.1 1.7 1.9 1.6 1.7

e. Password da conexión do usuario root: toor. Pulsamos Enter

f. Copiando ...

 Terminal 					
Archivo Editar Ver Jerminal Ayuda					
KPC.mfasl	100%	2220KB	2.2MB/s	00:01	-
cookies.sqlite	100%	2048	2.0KB/s	88:88	
extensions.rdf	100%	11KB	10.5KB/s	00:00	
gtk-bookmarks	100%	126	0.1KB/s	00:00	
c9061b1ef700f2d3b3950dc4b21559d-default-sourc	100%	42	0.0KB/s	00:00	
c9061b1ef700f2d3b3950dc4b21559d-device-volume	100%	60KB	60.0KB/s	00:00	
lc9061b1ef700f2d3b3950dc4b21559d-card-database	100%	696	0.7KB/s	88:88	
lc9061b1ef700f2d3b3950dc4b21559d-default-sink	100%	43	0.0KB/s	88:88	
lc9061b1ef700f2d3b3950dc4b21559d-stream-volume	100%	72KB	72.0KB/s	00:00	
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g. Copia feita

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2.3.2 Cliente Windows: Empregando o comando pscp

NOTA: Para ver máis información sobre o comando pscp visitar a seguinte ligazón: Comando pscp Proceder:



a. Abrir unha consola de comandos para facer a copia mediante pscp. Executando o comando **pscp** podemos ver a sintaxe do mesmo. b. Crear o directorio destino da copia: copia_home



c. Copiar o HOME de todos os usuarios.

Para copiar o HOME de todos os usuarios debemos empregar o comando pscp como segue:

pscp -r -P 22 root@192.168.120.100:recuperar/home copia_home, onde:

- 1. -r significa recursivo, serve para copiar cartafois enteiros.
- 2. -P 22 indica o porto de conexión SSH
- 3. root@192.168.120.100 indica o usuario root na máquina 192.168.120.100
- 4. :recuperar/home indica o cartafol a copiar na ruta parcial recuperar/home, que ven sendo a ruta absoluta /root/recuperar/home, xa que no caso de non indicar a ruta absoluta sempre se parte da ruta da casa do usuario, neste caso o usuario é root, co cal pártese de /root
- 5. copia_home é o cartafol destino da copia.



 d. Autenticación. Se é a primeira vez que nos conectamos o servido estamos de acordo coa autenticación. Respostamos y e pulsamos En primeira vez ver a seguinte imaxe.



- e. Password da conexión do usuario root: toor. Pulsamos Enter
- f. Copiando ...

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			-	resciețe

g. Copia feita

2.4 Transferir un ficheiro de forma segura

2.4.1 Cliente Distribución GNU/Linux: Empregando o comando sftp

Proceder:



a. Abrir un novo terminal para facer a transferencia de arquivos mediante sftp. Executando o comando sftp podemos ver a sintaxe do mesmo.

Terminal - O X Archivo Editar Ver Terminal Ayuda alumno@aula11eq23:~\$ mkdir transferencia dir Archivo Editar Ver Jerminal Ayuda alumno@aula11eq23:~\$ sftp root@192.168.120.100 alumno@aulalleq23:-\$ mkdir transferencia dir alumno@aula11eq23:~\$ sftp root@192.168.120.100 Connecting to 192.168.120.100.. The authenticity of host '192.168.120.100 (192.168.120.100)' car d. RSA key fingerprint is 11:d4:49:ec:72:45:e5:39:ef:3c:46:09:9e:ca Are you sure you want to continue connecting (yes/no)? yes

b. Crear o directorio destino da transferencia: transferencia_dir

Terminal

d. Autenticación. Se é a primeira vez que nos conectamos o servido estamos de acordo coa autenticación. Respostamos yes e pulsamos

primeira vez ver a seguinte imaxe.

c. Transferir o arquivo /etc/passwd.

Para transferir o arquivo /etc/passwd ao cartafol transferencia_dir debemos empregar o comando sftp como segue:

sftp root@192.168.120.100, onde root@192.168.120.100 indica o usuario root na máquina 192.168.120.100

f. Xa estamos dentro do cliente sftp, como amosa o prompt sftp>

Para ver os comandos deste cliente na trasferencia de ficheiros exec cliente, o comando **help**.

Archivo Editar Ver Jerminal	Ayuda
<pre>mkdir path progress put local-path [remote-path] pwd exit quit rename oldpath newpath rm path symlink oldpath newpath version !command ! ? sftp> pwd Remote working directory: /no sftp> lpwd Local working directory: /no sftp> lcd transferencia_dir sftp>]</pre>	Create remote directory Toggle display of progress meter Upload file Display remote working directory Quit sftp Quit sftp Remame remote file Remove remote directory Delete remote file Symlink remote file Show SFTP version Execute 'command' in local shell Escape to local shell Symonym for help Doot me/alumno
	Archivo Editar Ver Jerminal mkdir path progress put local-path [remote-path] pwd exit quit rename oldpath newpath rmdir path symlink oldpath newpath version !command ! ? sftp> pwd Remote working directory: /no sftp> lpwd Local working directory: /ho sftp> lcd transferencia_dir sftp>]

g. Comandos pwd e lpwd.

- 1. **pwd**: Empregamos o comando **pwd** para saber en que cartafol remoto estamos situados, neste caso: /**root**
- 2. **Ipwd**: Empregamos o comando **Ipwd** para saber en que cartafol local estamos situados, neste caso /home/alumno.
- cd: Empregamos o comando cd para movernos entre carta remoto, neste caso empregamos o comando cd recuperar ao cartafol /root/recuperar/etc do equipo remoto.
- Icd: Empregamos o comando Icd para movernos entre car local, neste caso empregamos o comando Icd transference movernos ao cartafol /home/alumno/transferencia_dir de local.

Termin				1 X
Archivo Editar Ver Terminal Ayuda				
ftp> get passwd etching /root/recuperar/etc/passwd to pa root/recuperar/etc/passwd ftp>	sswd 100% 1865	1.8KB/s	00:00	·

0			TR	erminal			
Archivo	Editar Ver	Terminal	Ayuda				
sftp> ge Fetching /root/re sftp> qu alumno@a	t passwd /root/recu cuperar/etc it ulalleq23:~	perar/etc /passwd \$	/passwd	to passwd	100%	1865	1.8

k. Transferimos o arquivo ao cartafol local, antes escollido, mediante o comando get passwd. Pulsar Enter. Transferencia realizada.

I. Executamos o comando quit para sair do cliente sftp e finalizal

0	Terminal		- 0 ×
Archivo Editar Ver Jerminal	Ayuda		
<pre>sftp> get passwd Fetching /root/recuperar/etc/p /root/recuperar/etc/passwd sftp> quit alumno@aulalleq23:~\$ ls transf passwd alumno@aulalleq23:~\$</pre>	asswd to passwd 100 erencia_dir/	% 1865 1.8KB/s	00:00
			y.

m. Na consola cmd executamos o comando ls transferencia_dir e podemos observar que o ficheiro foi transferido satisfactoriamente..

2.4.2 Cliente Windows: Empregando o comando psftp

NOTA: Para ver máis información sobre o comando psftp visitar a seguinte ligazón: Comando psftp Proceder:



a. Abrir unha consola de comandos para facer a transferencia de arquivos mediante psftp.

Executando o comando psftp -h podemos ver a sintaxe do mesmo.

b. Crear o directorio destino da transferencia: transferencia_dir



c. Transferir o arquivo /etc/passwd.

Para transferir o arquivo /etc/passwd ao cartafol transferencia_dir debemos empregar o comando psftp como segue:

psftp -P 22 root@192.168.120.100, onde:

- 1. -P 22 indica o porto de conexión SSH
- 2. root@192.168.120.100 indica o usuario root na máquina 192.168.120.100



 d. Autenticación. Se é a primeira vez que nos conectamos o servido estamos de acordo coa autenticación. Respostamos y e pulsamos En primeira vez ver a seguinte imaxe.



e. Password da conexión do usuario root: toor. Pulsamos Enter

f. Xa estamos dentro do cliente psftp, como amosa o prompt psf Para ver os comandos deste cliente na trasferencia de ficheiros exec cliente, o comando help.

aftp.exe -P 22

strador.CLIENTEA\E

	IN C:\WHOOWS\system32\cmd.exe - psftp.exe -P 22 root@192.168.120.
C:\WINDOWS\system32\cmd.exe - psftp.exe -P 22 root@192.168.120.100	CINDocuments and Settings/Administrador.CLIENTEA/Escritors
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g. Comandos pwd e lpwd.

- 1. **pwd**: Empregamos o comando **pwd** para saber en que cartafol remoto estamos situados, neste caso: /**root**
- 2. **Ipwd**: Empregamos o comando **Ipwd** para saber en que cartafol local estamos situados, neste caso **dentro do Escritorio**.
- cd: Empregamos o comando cd para movernos entre carta remoto, neste caso empregamos o comando cd recuperar ao cartafol /root/recuperar/etc do equipo remoto.

h. Comandos cd e lcd.

 Icd: Empregamos o comando Icd para movernos entre car local, neste caso empregamos o comando Icd transference movernos a ese cartafol dentro do equipo local.

Passaverd: Passaverd: Party balp of you a local command by finish your SFTP session of change your remote working directory chand change file permissions and modes close finish your SFTP session but do not quit PSFTP chand change file permissions and modes close finish your SFTP session but do not quit PSFTP del delete files on the remote server del delete files on the remote server to your local machine exit finish your SFTP session get download a file from the server to your local machine help give help local working directory help give help local working directory la list remote files pint local working directory la list remote files wint change files at once weat download multiple files at once weat download multiple files at once weat download multiple files at once weat ownload multiple files at once weat files files at once weat file files at once weat files files at once we move or meaner files files at once weat files files at once weat files files at once weat files files files at once weat files files at once weat files files at once weat files files files files at once we move or meaner files f	
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f run a local command mar finish your SFTP session par finish your SFTP session and modes place finish your SFTP session hut do not quit PSFTP place finish your SFTP session hut do not quit PSFTP place finish your SFTP session hut do not quit PSFTP place finish your SFTP session hut do not quit PSFTP place finish your SFTP session hut do not quit PSFTP place finish your SFTP session plate file from the server to your local machine plate file from the server to your local machine plate file file file session plate file file session plate file file file session plate file file file session plate file file file session plate file file session plate file file file session plate file file session plate file file file session plate file file set once plate plate file file session plate file file session plate file file session plate file file set once plate file file session plate file file session plate file file session plate file file session plate file file set once plate fil	
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<pre>Mel delete files on the remote server to your local machine exit finish your SFIF mextion give help file from the server to your local machine help give help loc change local working directory local working directory la list remote files give help la download aultiple files at once mpat download multiple files at once mpat server </pre>	
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put upload a file from your local machine to the zerver	
print your renote working directory	
put opload a file from your local machine to the server	
put print your Penete working directory	
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new local electory is now recorded performed	HNEEPER
Part land dispersion in City between and Sattingers (description of the second se	
party and a second	
Provide La Contra de la Contra	
the same name of (local-filename)]	
Invaluants a file on the server and stores it locally under	
the same name, or under a different one if you sussing the	
avourant (local-filename).	
If w specified, recursively fetch a directory.	
with	

i. Comando help get.

Empregamos o comando help get para saber a sintaxe do comando get

k. Transferimos o arquivo ao cartafol local, antes escollido, med get passwd. Pulsar Enter. Transferencia realizada.

	WhDOWSpantan 32cmd ave		C:\WNOOWS\system32\cmd.exe
C1 C1 hype Channel	<pre>VNDOWShystem320zmd.exe finish your SPIF service finish your sente working directory transp file performance server is remote file file file file performance server is remote file file file file performance server is remote file file file file to the remote server is the remote server is the remote file file</pre>	×	<pre>53. C:WWF00WS/bystem32kzmd.exe C:\Spcuments and Settings\Addministrador.CLIENTEN\Escritorio/dir transfe El volumen de La unidad C no tiene stigusta. El volumen de C:\Documents and Settings\Addministrador.CLIENTEN\Escritorio/ Directorio de C:\Documents and Settings\Addministrador.CLIENTEN\Escritorio/ 29.04.2018 11:22 (DIR) 29.04.2018 11:22 (DIR) 29.04.2018 11:22 (DIR) 2.055 bytes 2 dirs 3.075.854 bytes libres C:\Documents and Settings\Addministrador.CLIENTEN\Escritorio> 32</pre>
			n. Na consola cmd executamos o comando dir transferencia di

I. Executamos o comando quit para sair do cliente sftp e finalizala conexión.

m. Na consola cmd executamos o comando dir transferencia_di observar que o ficheiro foi transferido satisfactoriamente.

--ricardofc [11/06/10]