Restaurar disco con Clonezilla

2018-02-16

Introducción:

- Configuración Inicial
- Restauración del Disco

En este ejemplo queremos restaurar la imagen del disco sda que esta guardada en el disco sdb.

Configuración Inicial

Lo primero es seleccionar el idioma y el teclado, una vez hecho eso podemos iniciar Clonezilla de modo gráfico o en modo consola para introducir el comando a ejecutar directamente. En este caso lo haremos de forma gráfica con **Start_Clonezilla**.

En la mayoría de las ocasiones usaremos la opción **device-image**, ya que queremos restaurar una imagen de un directorio a un disco.

Seleccionamos el modo de conectarnos con el disco en el tenemos la imagen que queremos restaurar, en nuestro caso sera **local_dev** que es un disco local.

Ahora tenemos que conectar el disco al equipo en caso de que no estuviese conectado, pulsamos **Enter** para que escanee los discos disponibles.

Aquí veremos los discos que hay disponibles, tenemos:

- sda: disco en el que queremos restaurar la imagen
- ${\bf sdb}:$ disco donde tenemos la imagen del disco s
da

Aquí vemos todas las particiones disponibles, tenemos que seleccionar el disco donde tenemos la imagen que queremos restaurar, ya que se va a montar para poder acceder a los directorios, en este caso **sdb1**.

Seleccionamos el directorio donde esta la imagen a restaurar, en este caso la raíz y le damos a **Done**. Nos pedirá que le demos a **Enter** para confirmar.

Restauración del Disco

Seleccionamos ${\bf restoredisk}$ ya que lo que deseamos hacer es restaurar una imagen.

Nos saldrá la lista de imágenes disponibles para restaurar en el directorio que indicamos anteriormente, en esta ocasión solo tenemos 1 disponible por lo que la seleccionamos.

Seleccionamos cual es el disco que queremos restaurar, aquí nunca saldrá el disco que hemos montado anteriormente para guardar la copia, en este caso el disco que queremos restaurar es sda.

Aquí nos empezara a pedir unas configuraciones básicas, mi recomendación es dejarlas todas por defecto, la opción por defecto es **Yes, check the image before restoring** para chekear la integridad de la imagen antes de restaurarla.

Indicamos que cuando termine se apague con **poweroff**, ya que es un proceso largo y posiblemente no estemos cuando termine de clonarse.

Nos muestra el comando que se va a ejecutar por si queremos usarlo la próxima vez automatizando todo el proceso y nos pide que pulsemos **Enter** para confirmar la operación.

Hace el checkeo de la imagen si anteriormente así lo indicamos como viene por defecto.

Archivo Máq	uina Ver	Entrada	Dispositivos	Ayuda
NCHC Free So	ftware La	bs, Taiw	an	
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		0topt 01.		Start Clonezilla
		Start ti Select m	one∠iiia or ∋de:	enter iogin shell (command line)/
		001000	Jac.	
		S	tart_Clonez	illa Start Clonezilla
		E	nter_shell	Enter command line prompt
			<0k>	<cancel></cancel>
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Figure 1: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC Fre	ee Softwa	are La	bs, Taiu	lan	
				Clonezilla	a – Opensource Clone System (OCS)
Clone ///Him	ezilla is nt! From	s free now o	(GPL) s n, if mu	oftware, a ltiple cho	and comes with ABSOLUTELY NO WARRANTY bices are available, you have to press space key to mark
your s	selectior odes are	h. An ∶ avail	asterisk able, uo	. (*) will u can	be shown when the selection is done///
(1) c.	lone∕rest isk to di	ore a	disk or nartiti	partition	n using an image tition clope/restore
Select	t mode:		pui cici	on to part.	
	devi	lce-im	age wor	k with dis	sks or partitions using images
	remo	ice-de ite-so	vice wor urce Ent	er source i	mode of remote device cloning
	remo lite	ote-de: e-servi	st Ent er Ent	er destina er_Clonezi	ation mode of remote device cloning illa_live_lite_server
	lite	e-clie	nt Ent	er_Clonezi.	illa_live_lite_client
			<	:0k>	<cancel></cancel>
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Figure 2: 1

Archivo Màquina Ver Entrada	Dispositivos Ayuda
NCHC Free Software Labs, Taiw	Jan
•	
	Nount Clonezille image directory
Before cloning, you have to will mount that device or r to or read from /home/parti Select mode:	assign where the Clonezilla image will be saved to or read from. We emote resources as /home/partimag. The Clonezilla image will be saved mag.
local_dev	Use local device (E.g.: hard drive, USB drive)
ssh_server	Use SSH server Use SAMPA convert (Network Neighborhood conver)
nfs_server	Use NFS server
webdav_server	Use_WebDAV_server
s3_server swift server	use_Aws_S3_server Use_OpenStack_swift_server
enter_shell	Enter command line prompt. Do it manually
skip	Use existing /home/partimag (Memory! *NOT RECOMMENDED*)
<	Ok> <cancel></cancel>
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Figure 3: 1



Figure 4: 1

Archivo Máquina Ver Entrada Dispositivos Ayuda

Every 3.0s: ocs–scan–disk

debian: Fri Feb 16 00:45:55 2018

2018/02/16 00:45:55

You can insert storage device into this machine now if you want to use that, then wait for it to be detected.

Scanning devices... Available disk(s) on this machine:

Excluding busy partition or disk... /dev/sda: VBOX_HARDDISK_ VBOX_HARDDISK_VBa1a421b5-b0b1fac5 26.8GB /dev/sdb: VBOX_HARDDISK_ VBOX_HARDDISK_VB88e21aff-4b96076f 42.9GB

Update periodically. Press Ctrl–C to exit this window.

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Figure 5: 1

Archivo Máquina Ver	Entrada Dispositivos	Ayuda
NCHC Free Software Lab:	s, Taiwan	
Now we need to mount read or save the imag ///NOTE/// You should The partition name is "hda1" or "sda1", the in the second disk is C: is hda1 (for PATA) sda5) sda1 2 sdb1 4	Clonezilla – Ope a device as /home ge in /home/partir NOT mount the pa s the device name e 2nd partition ir s "hdb1" or "sdb1" or sda1 (for PA CG_ext4(In_VBOX_F	ensource Clone System (OCS) Mode: e/partimag (Clonezilla image(s) repository) so that we can mag. artition you want to backup as /home/partimag in GNU/Linux. The first partition in the first disk is in the first disk is "hda2" or "sda2", the first partition ' If the system you want to save is MS windows, normally TA, SATA or SCSI), and D: could be hda2 (or sda2), hda5 (or HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5 HARDDISK_)_VBOX_HARDDISK_VB88e21aff-4b96076f
	<0k>	<cancel></cancel>
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Figure 6: 1

Archivo Máquina Ver Entrada Dispositivos Ayuda
Directory Browser for Clonezilla image repository Which directory is for the Clonezilla image repositry? (If there is a space in the directory pame it will NOT be shown)
When the "Current selected dir name" is what you want, use "Tab" key to choose "Done" //NOTE// You should not choose the directory tagged with CZ_IMG. They are just for you to know the images list in the current dir. Path on the resource: /dev/sdb1[/] Current selected dir name: "/"
lost+found Feb_15_NO_SUBDIR 2018-02-16-00-TEST Feb 16 CZ IMG
<abort> Exit_directory_browsing</abort>
<browse> <a>Cone></browse>
Durgingly neuron bind a machine madination (thus (accurate bind mach (base (machine))
Running: mount ––pind –o noatime,nodiratime/timp/ocsroot_pind_root/nome/partimag The file system disk space usage: ************************************
SOURCE FSTYPE SIZE USED AVAIL USE% TARGET /dev/sdb1 ext4

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Figure 7: 1

Archivo Máquina Ver Entrada Dispositivos Ayuda

NCHC Free Software Labs, Taiwan

🗕 Clonezilla – Opensource Clone System (OCS): Select mode 占

Clonezilla is free (GPL) software, and comes with ABSOLUTELY NO WARRANTY
This software will overwrite the data on your hard drive when restoring! It is recommended to
backup important files before restoring!***
///Hint! From now on, if multiple choices are available, you have to press space key to mark
your selection. An asterisk (*) will be shown when the selection is done///

savedisk	Save_local_disk_as_an_image
saveparts	Save_local_partitions_as_an_image
restoredisk	Restore_an_image_to_local_disk
restoreparts	Restore_an_image_to_local_partitions
1–2–mdisks	Restore_an_image_to_multiple_local_disks
recovery-iso-zip	Create_recovery_Clonezilla_live
chk-img-restorable	Check_the_image_restorable_or_not
cvt-img-compression	Convert_image_compression_format_as_another_image
encrypt–img	Encrypt_an_existing_unencrypted_image
decrypt–img	Decrypt_an_existing_encrypted_image
exit	Exit. Enter command line prompt

<0k>

<Cancel>

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Figure 8: 1

Archivo Máquina Ver Entrada Dispositivos Ayuda	
NCHC Free Software Labs, Taiwan	
Clonezilla – Opensource Clone System (OCS) Mode: restoredisk – Choose the image file to restore:	
2018-02-16-00-TEST_2018-0216-0021_sda_26.8GB	
<ok> <cancel></cancel></ok>	

Figure 9: 1

	ver Entrada Di	spositivos Ayua	
NCHC Free Softwar	e Labs, Taiwan		
	Clonezilla –	Opensource Cl	one System (OCS) Mode: restoredisk
Choose the targ	et disk(s) to b	e overwritter	I (ALL DATA ON THE ENTIRE DISK WILL BE LOST AND
The disk name i the 2nd disk is be shown when t	s the device na "hdb" or "sdb" he selection is	ame in GNU/Lir ' Press spa s done	ux. The first disk in the system is "hda" or "sda", ce key to mark your selection. An asterisk (*) will
	sda 26.8GB_\	/BOX_HARDDISK_	_VBOX_HARDDISK_VBa1a421b5-b0b1fac5
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>
	sda 26.8GB_\ <ok></ok>	/BOX_HARDDISK_	VBOX_HARDDISK_VBa1a421b5-b0b1fac5 <cancel></cancel>

Figure 10: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC Fre	e Softwar	re La	ıbs, Taiu	an	
			Oleneri	11	
Before	e restorin	ng th	ie image,	do you war	a extra parameters Mode: restoredisk nt to check if the image is restorable or not? ///NOTE///
This a	action wi: Andrive	ll on	ily check	the image	is restorable or not, and it will not write any data to
	n uur ive.				
			-scr	Yes, cheo No skin	ck the image before restoring
			00.	, op	
			<	0k>	<cancel></cancel>
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Figure 11: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC Fre	e Softwa	re La	bs, Taiu	Jan	
					Mode: restoredisk
	Т	he ac	tion to	perform whe	en everything is finished:
		_n ch	0000	Choose rebr	oot/shutdown/etc_when_evenuthing_is_finished
		-p cn -p re	boot	Reboot	bot/shatabal/etc when everything is finished
		-р ро	weroff	Shutdown	
				<0k>	<cancel></cancel>
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Figure 12: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
		The ac	ction to	perform wh	en everything is finished:
		−p ch −p re	noose eboot	Choose reb Reboot	oot/shutdown/etc when everything is finished
		-р рс)werott	Shutdown	
				<0k>	<cancel></cancel>
жжжжж PS. Next	∞******* time v	oooxooo Iou car	oxxxxxxxx n run th:	ккокороник is command (жжжжжжжжжжж. directlu:
/usr/sbi This com	n∕ocs-s mand is	sr −g a Salso	auto -e1 saved as	auto –e2 – s this file	r –j2 –c –p poweroff restoredisk 2018–02–16–00–TEST sda name for later use if necessary: /tmp/ocs-2018–02–16–00–TEST
-2018-02	-16-00-	-51			
Press "E	inter" 1	o cont	:inue	• •	aaaaaaaaaaaaaaa.
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Figure 13: 1





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Figure 14: 1

Nos muestra lo que se va a hacer y nos pide confirmación 2 veces.

Archivo Máguina Ver Entrada Dispositivos Ayuda MBR file for this disk was found: sda The image of this partition is restorable: sda1 The image of this partition is restorable: sda2 All the images of partition or LV devices in this image were checked and they are restorable: 2018–0 2-16-00-TEST Ac<mark>t</mark>ivating the partition info in /proc... done! Getting /dev/sda1 info... The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part imag/2018–02–16–00–TEST" -> "sda sda1 sda2" The image was created at: 2018–0216–0021 WARNING!!! WARNING!!! WARNING!!! WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL BE LOST: Machine: VirtualBox sda (26.8GB_VBOX_HARDDISK__VBOX_HARDDISK_VBa1a421b5-b0b1fac5) sda1 (25G_ext4(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5) Are you sure you want to continue? (y/n) y OK, let's do it!! This program is not started by clonezilla server. _et me ask you again. The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part imag/2018-02-16-00-TEST" -> "sda sda1 sda2" The image was created at: 2018–0216–0021 ARNING!!! WARNING!!! WARNING!!! WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL BE LOST: lachine∶ VirtualBox sda (26.8GB_VBOX_HARDDISK__VBOX_HARDDISK_VBa1a421b5-b0b1fac5) sda1 (25G_ext4(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5) Are you sure you want to continue? (y/n) y 🙆 💿 🌆 🗗 🌽 🚍 💹 🛄 🚫 👧 Ctrl Derecho

Figure 15: 1

Empieza el proceso de clonado de cada partición de sda en una carpeta de sdb.





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Figure 16: 1