Clonar disco con Clonezilla

2018-02-16

Introducción:

- Configuración Inicial
- Clonación del Disco

En este ejemplo queremos hacer una copia del disco \mathbf{sda} en el directorio raíz del disco $\mathbf{sdb}.$

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 crear una copia del disco físico en un directorio de otro disco

Seleccionamos el modo de conectarnos con el disco en el que guardaremos la copia, 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 del que queremos hacer una clonación
- ${\bf sdb}:$ disco donde guardaremos el disco s
da

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

Seleccionamos el directorio donde queremos que se guarde la copia, en este caso la raíz y le damos a Done.

Nos pedirá que le demos a **Enter** para confirmar.

Clonación del Disco

Aqui podemos seleccionar el modo en el que deseamos continuar, yo usare **Beginner** que es mas que suficiente para hacer clonaciones de disco

Seleccionamos savedisk ya que lo que deseamos hacer es clonar el disco no una particion.

Introducimos el nombre que tendrá la copia de seguridad, es aconsejable mantener la estructura: YY-MM-DD-SO-NOMBRE para una mayor claridad a la hora de revisar las copias de seguridad.

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

Aquí nos empezara a pedir unas configuraciones básicas, mi recomendación es dejarlas todas por defecto, la opción por defecto es **-sfsck** para saltar la revisión y reparación de la copia una vez que se ha hecho.

Después nos preguntara si queremos comprobar si la imagen creada es restaurable, la opción recomendada es Yes, check the saved image



Figure 1: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC I	Free Soft	ware l	_abs, Ta	iwan	
Clo //// your Two (1) (2) Selo	onezilla Hint! Fro r selecti modes ar clone/re disk to ect mode:	is fre m now on. Ar e ava: store disk (ee (GPL) on, if n asteri ilable, a disk or parti	Clonezill software, multiple ch sk () will you can or partitio tion to par	and comes with ABSOLUTELY NO WARRANTY* noices are available, you have to press space key to mark be shown when the selection is done/// on using an image rtition clone/restore.
	de de re li li	vice- vice- mote-s mote-o te-ser te-cl:	image w device w source E dest E rver E ient E	ork with di ork directl nter source nter destin nter_Clonez nter_Clonez	.sks or partitions using images Ly from a disk or partition to a disk or partition e mode of remote device cloning nation mode of remote device cloning zilla_live_lite_server zilla_live_lite_client
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Figure 2: 1

Archivo Máquina	Ver Entrada	Dispositivos Ayuda
NCHC Free Soft	ware Labs, Tai	wan
Before cloni will mount t to or read f Select mode:	ng, you have t hat device or rom /home/part	o assign where the Clonezilla image directory read from. We remote resources as /home/partimag. The Clonezilla image will be saved imag.
	<pre>local_dev ssh_server samba_server nfs_server webdav_server s3_server swift_server enter_shell skip</pre>	Use local device (E.g.: hard drive, USB drive) Use SSH server Use SAMBA server (Network Neighborhood server) Use NFS server Use_WebDAV_server Use_AWS_S3_server Use_OpenStack_swift_server Enter command line prompt. Do it manually Use existing /home/partimag (Memory! *NOT RECOMMENDED*)
		<ok> <cancel></cancel></ok>
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Figure 3: 1

Archivo Máquina Ver Entrada	Dispositivos Ayuda	
Before cloning, you have will mount that device or to or read from /home/par Select mode:	Mount Clonezilla image direct to assign where the Clonezilla image remote resources as /home/partimage timag.	ctory ge will be saved to or read from. We g. The Clonezilla image will be saved <mark> </mark>
local_dev ssh_server samba_server nfs_server webdav_serve s3_server swift_server enter_shell skip	Use local device (E.g.: hand driv Use SSH server > Use SAMBA server (Network Neighbo Use NFS server er Use_WebDAV_server Use_AWS_S3_server > Use_OpenStack_swift_server Enter command line prompt. Do it Use existing /home/partimag (Memo	ve, USB drive) orhood server) manually ory! *NOT RECOMMENDED*)
	<0k>	<cancel></cancel>
ocsroot device is local_dev Preparing the mount point / If you want to use USB devi * Insert USB device into t * Wait for about 5 secs * Press Enter key so that the OS can detect t Press "Enter" to continue	/ /home/partimag Lee as a Clonezilla image repository this machine *now* the USB device and later we can mour 	y, please nt it as ∕home∕partimag.

Figure 4: 1

Archivo Máquina Ver Entrada Dispositivos Ayuda

Every 3.0s: ocs–scan–disk

debian: Thu Feb 15 23:50:44 2018

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Figure 5: 1

Archivo Máquina Ver	Entrada Dispositivos	Ayuda
NCHC Free Software Lab	s, Tai <mark>w</mark> an	
Now we need to mount read or save the ima ///NOTE/// You shoul The partition name i "hda1" or "sda1", th in the second disk i C: is hda1 (for PATA sda5) sda1 350M_nt sda2 24.7G_n sdb1 40G_ext	Clonezilla – Ope a device as /home ge in /home/partir d NOT mount the pa s the device name e 2nd partition ir s "hdb1" or "sdb1") or sda1 (for PAT fs_Reservado_pa(Ir tfs(In_VBOX_HARDDIS	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 n the first disk is "hda2" or "sda2", the first partition ' If the system you want to save is MS windows, normally FA, SATA or SCSI), and D: could be hda2 (or sda2), hda5 (or n_VBOX_HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5 ISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5 (_)_VBOX_HARDDISK_VB88e21aff=4b96076f
	<0k>	<cancel></cancel>
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Figure 6: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda	à
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Which name, When t //NOTE the im Path o Curren	directory it will . he "Curro // You sl ages lis" n the res t selecto	y is - _NOT_ ent se nould t in - source ed dir	→ Dire for the be show elected not cho the curr e: /dev/ r name:	ctory Brows Clonezilla n) dir name" : ose the dir ent dir. sdb1[/] "/" <mark>lost+f0</mark> <abort></abort>	ser for image n is what rectory pund Fel > Ex.	r Clonezilla image repository repositry? (If there is a space in the directory t you want, use "Tab" key to choose "Done" y tagged with CZ_IMG. They are just for you to know eb_15_NO_SUBDIR xit_directory_browsing
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Figure 7: 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 name, 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 <abort> Exit_directory_browsing</abort>
<browse> <<mark><done></done></mark></browse>
Running: mount ——bind —o noatime,nodiratime /tmp/ocsroot_bind_root /home/partimag The file system disk space usage: ************************************
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Figure 8: 1

Archivo	Máquina	Ver Entrad	a Dispositivos	Ayuda
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	Choos	se the mod	1 Clonezilia e to run the	e following wizard about advanced parameters:
		Be	ginner Begin nert - Evner	ner mode: Accept the default options
		EX	it Exit.	Enter command line prompt
			<0k>	<cancel></cancel>
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Figure 9: 1

Archivo Máquina Ver Entr	ada Dispositivos	Ayuda
NCHC Free Software Labs,	Taiwan	
C10	nezilla - Oneng	source Clope Sustem (ACS): Select mode
Clonezilla is free (GP	L) software, ar	nd comes with ABSOLUTELY NO WARRANTY
backup important files	before restori	on your nard drive when restoring! It is recommended to ng!≭**
///Hint! From now on, i your selection. An aste	f multiple cho: risk (*) will b	ices are available, you have to press space key to mark be shown when the selection is done///
	acuadiak R	us lossl disk as an image
	saveparts Sa	ave_local_partitions_as_an_image
	exit E>	kit. Enter command line prompt
	2045	(Cancel)
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Figure 10: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
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			ioneziii out a na	a – Upensou me for the	urce Clone System (UCS) Mode: savedisk saved image to use
		20	18-02-16	-00-img	
				<0k>	<cancel></cancel>
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Figure 11: 1

Archivo Máquina V	'er Entrada	Dispositivos	Ayuda
NCHC Free Software	Labs, Taiu	Jan	
	Clonezili	la – Opensou	urce Clone System (OCS) Mode: savedisk
The disk name is	the device	∶. e name in GN	WU/Linux. The first disk in the system is "hda" or "sda",
the 2nd disk is be shown when th	"hdb" or "s e selectior	db" Pres is done	ss space key to mark your selection. An asterisk (*) will
			/ WARDDIEK VRoio/21bE b0b1fooE
[<u>*</u>] Sud 20.0	GO_VOUA_AAN	UDISKVDU/	
	<	(Ok>	<cancel></cancel>

Figure 12: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC Fre	e Softwa	ane La	abs, Taiu	an	
			Clonez	illa advand	ced extra parameters Mode: savedisk
Choose	if you	want	to check	and repair	the file system before saving it. This option is only for upported by fack on SNU((inux, like ext2(2)(4) peicepts)
xfs, j	lfs, vfat	t. Not	: for NTF	S, HFS+	Apported by TSCK on dworling, TIKE EX(2/3/4, TEISETS,
		fook	- Ckin ch	ocking (pops	aining counce file custom
	-f:	sck	Interac	tively chec	ck and repair source file system before saving
	-fs	sck-y	Auto (C	aution!) ch	neck and repair source file system before saving
			<	0k>	<cancel></cancel>
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Figure 13: 1

Archivo	Máquina	Ver	Entrada	Dispositivos	Ayuda
NCHC Fre	e Softwar	re La	bs, Taiw	an	
					la de la constante de la const
After	the image	e is	⊐ Clonez saved, d	iiia advano o you want	ced extra parameters Mode: savedisk : to check if the image is restorable? ///NOTE/// This
action	n will on.	ly ch	eck the	image is re	restorable, and it will not write any data to the harddrive.
				Yes	; check the saved image
				-SUS NU,	, skip checking the saved image
			<	Ok>	<cancel></cancel>
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Figure 14: 1

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



Figure 15: 1

Nos muestra el comando que se va a ejecutar por si queremos usarlo la próxima vez automatizando todo el proceso. Nos muestra lo que se va a hacer y nos pide confirmación para proceder a hacer la copia.

Empieza el proceso de clonado de cada partición de sda en una carpeta de sdb y cuando termine apagara el equipo.

Archivo	Máquina	a Ver	Entrada	Dispositivos	Ayuda
	_				
		The ac	ction to	perform wh	⊣ Mode: savedisk ⊨ en everything is finished:
		−p ch −p re	noose eboot	Choose reb Reboot	oot/shutdown/etc when everything is finished
		-р ро	oweroff	Shutdown	
				<0k>	<cancel></cancel>
	L				
xxxxxxxxx		Televenterien en televenterien	Karaka karaka Karaka karaka		*****
PS. Next /usr/sbi This com	time y in/ocs-s	you car sr −q2	n run th: -c -j2 - saved av	is command ⊓ -z1p −i 4090 s this file	directly: 6 –sfsck –senc –p poweroff savedisk 2018–02–16–00–TEST sda
-2018-02	2-16-00-	-10	saveu a:	5 (115 1116	Thanke For Tater use IT necessary. /timp/bcs-2010-02-10-00-1231
жжжжжж Press <mark>''</mark> Е	жжжжж Enter" :	kæææææ to cont	∺******* tinue	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	***************************************
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Figure 16: 1

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PS. Next time you can run this command directly: /usr/sbin/ocs–sr –q2 –c –j2 –z1p –i 4096 –sfsck –senc –p poweroff savedisk 2018–02–16–00–TEST sda This command is also saved as this file name for later use if necessary: /tmp/ocs–2018–02–16–00–TEST -2018-02-16-00-10 Press "Enter" to continue... Activating the partition info in /proc... done! Selected device [sda] found! The selected devices: sda Searching for data/swap/extended partition(s)... Excluding busy partition or disk... Unmounted partitions (including extended or swap): sda1 sda2 Collecting info... done! The data partition to be saved: sda1 sda2 Activating the partition info in /proc... done! Selected device [sda1] found! Selected device [sda2] found! The selected devices: sda1 sda2 Getting /dev/sda1 info... Getting /dev/sda2 info... ******* The following step is to save the hard disk/partition(s) on this machine as an image: Machine: VirtualBox sda (26.8GB_VBOX_HARDDISK__VBOX_HARDDISK_VBa1a421b5-b0b1fac5) sda1 (350M_ntfs_Reservado_pa(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5) sda2 (24.7G_ntfs(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBa1a421b5-b0b1fac5) -> "/home/partimag/2018-02-16-00-TEST". Are you sure you want to continue? (y/n)

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Figure 17: 1





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Figure 18: 1