Procédure pour sauvegarder votre carte MicroSD Smartphoton

(aussi valable pour votre SSD si vous en utilisez déjà un.

Créer une clé bootable avec le logiciel Clonezilla installé dessus. Il s'agit d'un Live CD installé sur une clé USB

Il se trouve ici: <u>https://clonezilla.org/downloads.php</u>

Une fois la clé USB prête,

vous allez donc devoir démarrer votre PC dessus cette clé USB et vous devez avoir cet écran:

Prendre l'option 1:

💋 Clonezilla [En fonction] - Oracle VM VirtualBox —		×
Fichier Machine Écran Entrée Périphériques Aide		
clonezilla.org, clonezilla.nchc.org.tu		
Clonezilla live (VGA 800x600)		
Clonezilla live (VGA 800x600 & To BAR) Clonezilla live (VGA nich larma fand & To P(H)		
Clowezilla live with seech sumthering		
Other modes of Clonezilla live	>	
Local operating system in harddrive (if available)		
Newtest & FreeDOS	>	
NECWORK DODE VIA LEAL		
Press ITabl to edit options		
interaction hand in 22 percents		
Matchiatic boot in 25 seconds		
* Boot menu for BIOS machine		
* Clonezilla live version: 3.0.3-22-1686. (C) 2003-2023, NCHC, 1	laiwan	
* Disclaimer: Clonezilla comes with ABSOLUTELY NO WARRANTY		
Fred State	e Softwar	e Labs
ICOCOTING National Center for High-Perform	ance Com	puting
	1	Taiwan
🖸 🖸 🖶 💭 🔂 🖓 🖾 🖳 🖓 🐨	🔁 CTRL DF	

Choisir le clavier qui vous va bien:

Which language do you prefer:
ca_ES.UTF-8 Catalan Català de_DE.UTF-8 German Deutsch el_GR.UTF-8 Greek Ελληνικά
en_US.UTF-8 English hu_HU.UTF-8 Hungarian Magyar es_ES.UTF-8 Spanish Español fr_FR.UTF-8 French Français
Keyboard configuration Change keyboard layout?
<mark>K</mark> eep Keep the default keyboard layout - US keyboard Change Change keyboard layout

Démarrer le logiciel de clonage:

Start Clonezilla or er	t <mark>art Clonezilla </mark>
Select mode:	nter login shell (command line)?
<mark>Start_Clonezil</mark>	<mark>la Start Clonezilla</mark>
Enter_shell	Enter command line prompt
<0k>	<cancel></cancel>

Prendre l'option 1 qui permet donc de faire une sauvegarde de votre SDcard



<u>Il s'agit ici de sélectionner l'endroit ou l'entièreté de la carte SD sera sauvegardée</u> Par exemple un disque local (local ou USB local)

Before cloning, you have t will mount that device or to or read from /home/part Select mode:	Mount Clonezilla image direc o assign where the Clonezilla imag remote resources as /home/partimag imag.	tory ⊣ e will be saved to or read from. We . The Clonezilla image will be saved
<pre>local_dev ssh_server samba_server nfs_server webdav_server s3_server enter_shell ram_disk skip</pre>	Use local device (E.g.: hard driv Use SSH server Use SAMBA server (Network Neighbo Use NFS server Use_WebDAV_server Use_AWS_S3_server Enter command line prompt. Do it Use memory (OK for BT from raw de Use existing /home/partimag (Memo	e, USB drive) rhood server) manually vice) ry! *NOT RECOMMENDED*)
	<0k>	<cancel></cancel>

Là il vout permet d'insérer tous les disques externes que vous souhaitez utiliser comme sauvegarde et aussi la source SD si pas déjà fait



Ici il voit le disque interne 22.1 Gb (celui de ma VM dans mon cas) et la carte SD de 16 Gb



Il souhaite maintenant connaître quel est le disque qui va recevoir la sauvegarde, celle-ci se présentera sous la forme d'un gros fichier dans un répertoire que vous allez proposer Je prends donc le VBOX disque

Clonezilla - Opensource Clone System (OCS) | Mode: Now we need to mount a device as /home/partimag (Clonezilla image(s) repository) so that we can read or save the image in /home/partimag. ///NOTE/// You should NOT mount the partition you want to backup as /home/partimag The partition name is the device name in GNU/Linux. The first partition in the first disk is "hda1" or "sda1", the 2nd partition in the first disk is "hda2" or "sda2", the first partition in the second disk is "hdb1" or "sdb1"... If the system you want to save is MS windows, normally C: is hda1 (for PATA) or sda1 (for PATA, SATA or SCSI), and D: could be hda2 (or sda2), hda5 (or sda5)...

sda1 19.6G_ext4(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBcc41eff4-4bfb2310
sda5 975M_swap(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBcc41eff4-4bfb2310
sdb1 64M_vfat_There_are_di(In_MassStorageClass)_Generic_MassStorageClass_000000001539-0:0
sdb2 14.7G_ext4(In_MassStorageClass)_Generic_MassStorageClass_000000001539-0:0

<0k>

<Cancel>

Pas besoin de vérification si vous aviez bien proprement arrêté le Pi avec la carte SD dedans

Choose if you want to check and repair the file system before mounting the image repository. This option is only for certain file systems which are well supported by fsck on GNU/Linux, like ext2/3/4, reiserfs, xfs, jfs, vfat. Not for NTFS, HFS+ //NOTE// This is for mounting local storage device as an image repository!
no-fsck Skip checking/repairing the file system before mounting fsck Interactively check and repair the file system before mounting fsck-y Auto (Caution!) check and repair file system before mounting
Clonezilla - Opensource Clone System (OCS) Choose the mode to run the following wizard about advanced parameters:
<mark>Beginner Beginner mode: Accept the default options</mark> Expert Expert mode: Choose your own options Exit Exit. Enter command line prompt
Directory Browser for Clonezilla image repository Which directory is for the Clonezilla image repository? (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 C2_IMG. They are just for you to know the images list in the current dir. Path on the resource: /dev/sda1[/home/pi/Documents/] Current selected dir name: "Documents"
<pre>ABORT> Exit_directory_browsing</pre>
<browse> <a>Cone></browse>
Running: mountbind -o noatime /tmp/ocsroot_bind_root/home/pi/Documents /home/partimag The file system disk space usage: ************************************
SOURCE FSTYPE SIZE USED AVAIL USE% TARGET /dev/sda1[/home/pi/Documents] ext4 19.1G 4.2G 14G 22% /home/partimag #************************************
Running: mountbind -o noatime /tmp/ocsroot_bind_root/home/pi/Documents /home/partimag The file system disk space usage: ************************************

spécifiez que l'on va sauvegarder sous forme de fichier la carte SD

Clonezilla - Opensource Clone System (OCS): Select mode *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 exit Exit. Enter command line prompt Et là il faut lui donner l'endroit où sauvegarder le fichier et indiquer son nom

	•
Clapazilla Opencourse Cla	a Suctor (888) Mode: coundick
	ie system (ucs) Hude, savedisk
l Input a name for the saved image to use.	
Come personal image person have epocial meaning	to including "ack upon" "outonome" "outonome w"
I some reserved image names have special meaning	ss, including ask_user, autoname, autoname-*
I "autohostname", and "autoproductname". Please	check Clonezilla website for more details.
Smartphoton-V5-18-02-2023.img	
KOK>	<cancel></cancel>

Lui donner la source à sauvegarder, évidemment la carte SD



-sfsck Skip checking/repairing source file system -fsck Interactively check and repair source file system before saving <mark>-fsck-y Auto (Caution!) check and repair source file system before saving</mark>

<0k>

<Cancel>

Vérifiez l'image créée, ça ne coûte pas plus cher



ſ	The action to perform when everything is finished:	
	-p choose Choose reboot/shutdown/etc when everything is finished -p true Enter command line prompt -p reboot Reboot -p poweroff Shutdown	
	<cancel></cancel>	
L.		
жжжжжжжжжжж PS. Next time ч	жжжжжжжжжжжжжжжжжжжжжжжжжжжж you can run this command directly:	
/usr/sbin/ocs-: db	-sr -q2 -c -j2 -z1 -i 0 -sfsck -senc -p choose savedisk Smartphoton-V5-18-02-202	3.img :
This command is 02-2023.img-20) *****	is also saved as this file name for later use if necessary: /tmp/ocs-Smartphoton 023-02-18-12-23 *********	-V5-18·
Press "Enter" ·	to continue	

Il vous informe qu'il va sauvegarder la carte 16Gb

Activating the partition info in /proc done!
Selected device [sdb] found!
The selected devices: sdb
Searching for data/swap/extended partition(s)
Finding all disks and partitions
Excluding busy partition
Excluding linux raid member partition
Unmounted partitions (including extended or swap): sdb1 sdb2
Collecting info done!
The data partition to be saved: sdb1 sdb2
Activating the partition info in /proc done!
Selected device [sdb1] found!
Selected device [sdb2] found!
The selected devices: sdb1 sdb2
Getting /dev/sdb1 info
Getting /dev/sdb2 info

The following step is 🗓o save the hard disk/partition(s) on this machine as an image:

Machine: VirtualBox
sdb (16.0GB_MassStorageClass_Generic_MassStorageClass_00000001539-0:0)
sdb1 (64M_vfat_There_are_di(In_MassStorageClass)_Generic_MassStorageClass_00000001539-0:0)
sdb2 (14.7G_ext4(In_MassStorageClass)_Generic_MassStorageClass_000000001539-0:0)

-> "/home/partimag/Smartphoton-V5-18-02-2023.img".
Are you sure you want to continue? (y/n)

c'est parti

——— Partclone — Partclone v0.3.23 http://partclone.org Starting to clone device (/dev/sdb1) to image (-) Reading Super Block Calculating bitmap... Please wait... done ! File system: FAT32 Device size: 67.1 MB = 131072 Blocks Space in use: 43.4 MB = 84845 Blocks Free Space: 23.7 MB = 46227 Blocks Free Space: Block size: 512 Byte Elapsed: 00:00:02 Remaining: 00:03:18 Rate: 0.00byte/min Current Block: 0 Total Block: 131072 Data Block Process: 1.00% Total Block Process: 0.00%

Partclone Partclone v0.3.23 http://partclone.org Starting to clone device (/dev/sdb2) to image (-) Reading Super Block Calculating bitmap... Please wait... done ! File system: EXTFS Device size: 15.8 GB = 3863552 Blocks Space in use: 605.4 MB = 147799 Blocks 15.2 GB = 3715753 Blocks Free Space: Block size: 4096 Byte Elapsed: 00:01:32 Remaining: 00:01:00 Rate: 237.95MB/min Current Block: 3579216 Total Block: 3863552 Data Block Process: 60.27% Total Block Process: 92.64%

Partclone Partclone v0.3.23 http://partclone.org Starting to check image (-) Calculating bitmap... Please wait... done ! File system: EXTFS Device size: 15.8 GB = 3863552 Blocks Space in use: 605.4 MB = 147799 Blocks Free Space: 15.2 GB = 3715753 Blocks 4096 Byte Block size: Partclone successfully checked the image (-) Total Time: 00:00:16 Remaining: 00:00:00 Ave. Rate: 2.27GB/min Data Block Process: 100.00% Total Block Process: 100.00%

Résumé de son travail



Choose mode
Now you can choose to:
poweroff Poweroff
reboot Reboot
cmd Enter command line prompt
rerun1 Start over (image repository /home/partimag, if mounted, will be umounted)
rerun2 Start_over_(keep_image_repository_/home/partimag_mounted)
rerun3 Start_over_(Remount_subdir_in_medium_of_current_repository):_/dev/sda1[/home/pi/Docum

Voilà le fichier de sauvegarde est là à disposition

<	> Фно	ome	Doo	cuments							۹	∷	
Ø	Recent			Name				Size	Туре	Modified			
ŵ	Home			20)23-02-18-12 [.]	-img		23 items	Folder	13:37			
	Desktop			Sr	nartphoton	-V5-18-02-2023	.img	23 items	Folder	13:29			
۵	Documents						VE 10 02 2023	ine Dree	artica				
÷	Downloads	_			Basic Pe		cal Network Sh	o.img Prop	ercies				
Li	breOffice Wri	ter					Cat Network Sh	are					
ø	Pictures					Name:	Smartphotor	n-V5-18-02-	2023.img				
H	Videos					Туре:	Folder (inode/	directory)					
Î	Trash					Contents:	23 items, total	ling 40,4 N	1B				
<u>5</u> 2	Network					Location:	/home/pi/Doc	uments					
¢	Computer					Free space:	14 7 CB						
<u> </u>	Connect to S	Server				The space.	14,7 60						

Vous avez sauvegardé votre carte SD. Cette sauvegarde pourra donc être utilisée dans l'autre sens (restauration) en cas de besoin. Retour en arrière si plantée plus tard.

Il est bien de faire des sauvegardes / clones régulièrement

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