Cloning

Logiciel de Cloning

Logiciel	Libre Source?	Systèmes d'Exploitation Compatible
Ghost	non	Windows
Clonezilla	oui	Windows, Linux
Acronis	non	Windows

Clonezilla

Inveneo utilise Clonezilla de créer nouvelles images ordinateurs et de les copier aux autres ordinateurs

Clonezilla

Qu'est-ce une Image?

Une image est une copie de tous sur l'ordinateur, incluant logiciels, configurations, et données utilisateurs. L'image est créée de et utilisée par Clonezilla.

du Matériel à l'Image

Après avoir bien configuré le première ordinateur, on copie l'image pour utilisation plus tard avec autres ordinateur

de l'Image aux Matériels

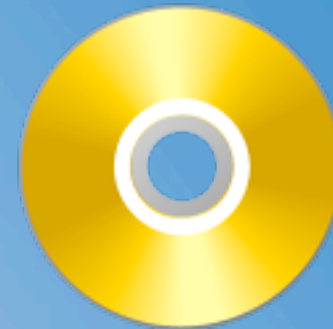Avec l'image, on peut la copier aux autres ordinateurs.

Matériel Nécessaire

Disque Dur Externe ou
Clé USB

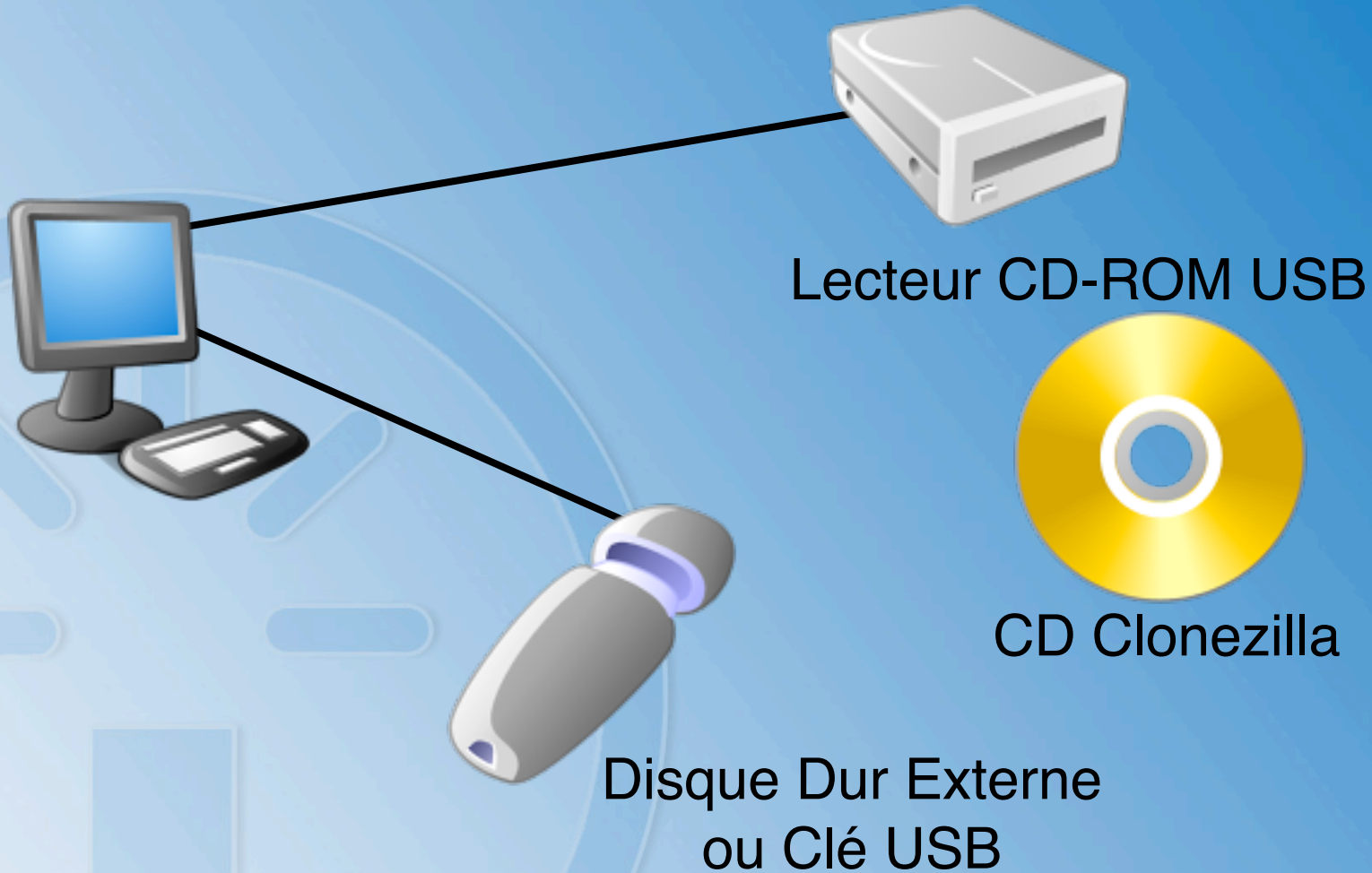Ordinateur

Lecteur CD-ROM USB

CD Clonezilla

Garder Organisée Les Images

Créez une convention d'appeler les images pour que vous pouvez trouvez l'image correcte facilement, même quand votre collection d'images agrandi.
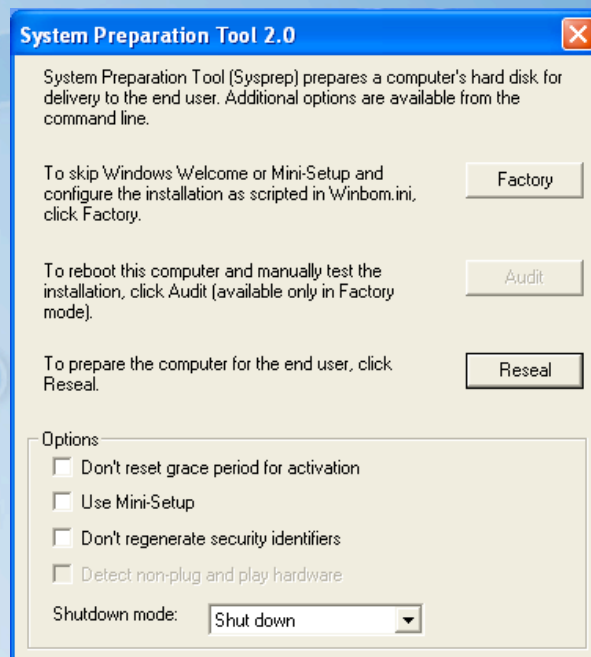
XP-UNHCR-ASUS160gb-2009-03-13

OS Name-Client-Computer&HDDsize-Date

Après avoir copier Windows

Remplacez le SID

Sysprep: supprimez le SID   NewSID: créez un nouveau SID
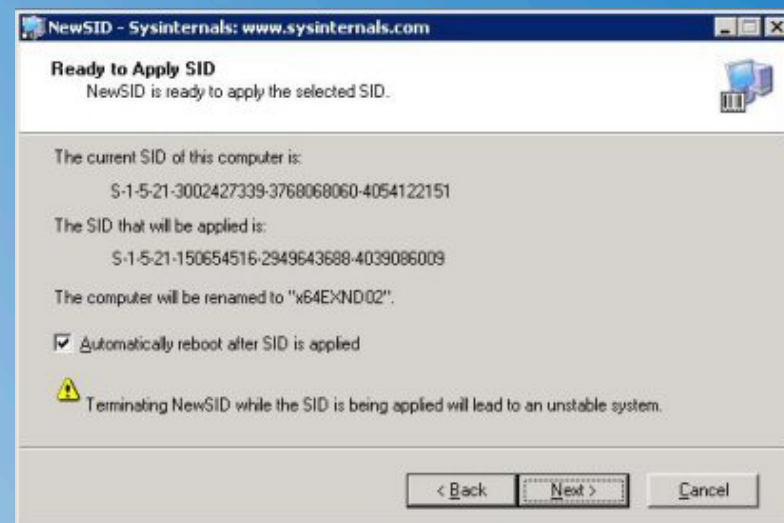
Exercice: Faire le cloning d'un ordinateur

Maintenant c'est l'heure de faire le cloning d'un ordinateur vous même. Vous copierez une image existante sur un ordinateur.

Cloning Instructions

1. Boot from the Clonezilla CD
2. Plug in an external hard drive
3. Choose the default option **Clonezilla live (Default settings, VGA 1024X768)**

4. Choose the language settings for Clonezilla, **English**
5. Under Configure console-data, choose **Don't touch keymap**

6. Choose **Start_Clonezilla Start Clonezilla**
7. Choose **device-image disk/partition to/from image**
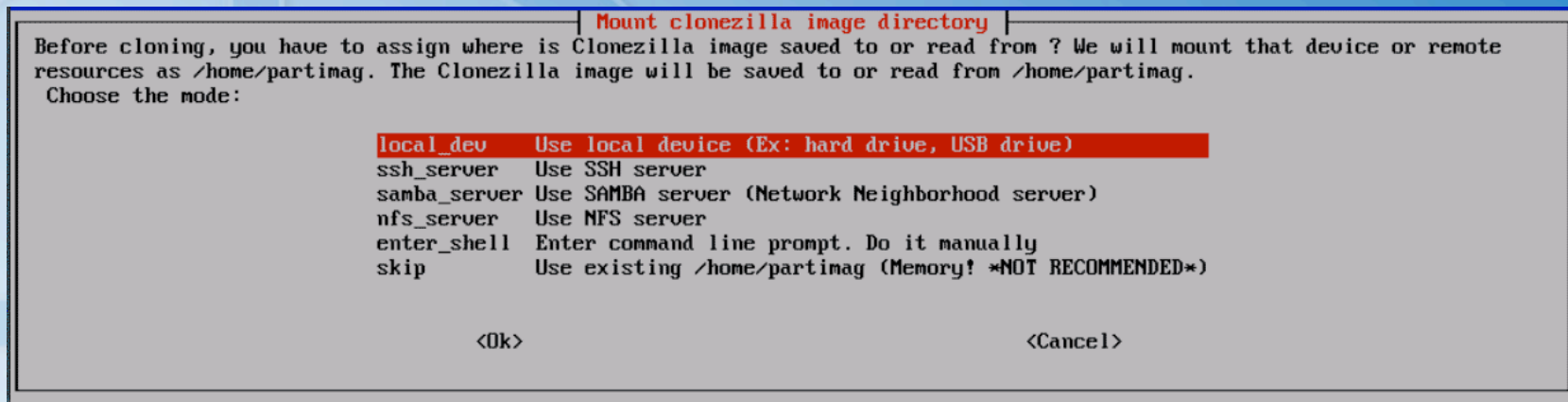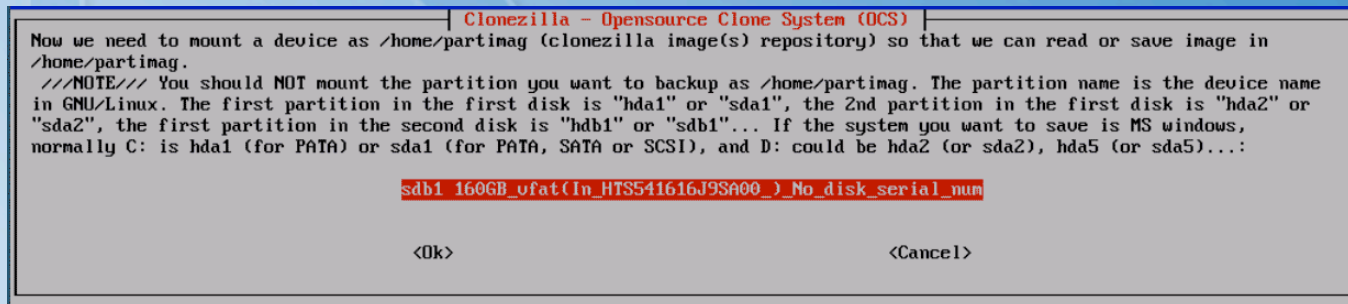8. On the Mount Clonezilla Image Directory screen, Clonezilla needs to know where to copy the image from. Clonezilla can copy the image to another computer on a network. However, this method can be very complicated. The easiest way is to copy the image to an external hard drive, by selecting **local_dev Use local device** (Ex: hard drive, USB drive)

```
┤ Mount clonezilla image directory ├
Before cloning, you have to assign where is Clonezilla image saved to or read from ? We will mount that device or remote
resources as /home/partimag. The Clonezilla image will be saved to or read from /home/partimag.
  Choose the mode:

            local_dev      Use local device (Ex: hard drive, USB drive)
            ssh_server     Use SSH server
            samba_server   Use SAMBA server (Network Neighborhood server)
            nfs_server     Use NFS server
            enter_shell    Enter command line prompt. Do it manually
            skip           Use existing /home/partimag (Memory! *NOT RECOMMENDED*)


                    <Ok>                              <Cancel>
```
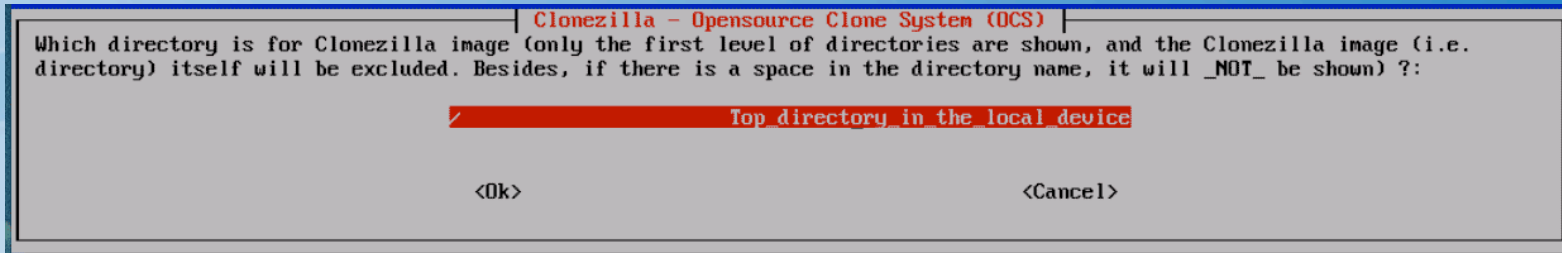
9. Verify the external hard drive is plugged into the computer. Wait 10 seconds. Press **Enter**

10. Clonezilla needs to know where the external hard drive is located. Typically, Clonezilla will display all the drives, including the drives of the computer. The computer's drive is usually listed as sda1 or hda1. Generally, the last option is the external hard drive, listed as sdb1, if the computer you are cloning only has one hard drive. Looking at the hard drive size can help determine which drive is the computer's and which drive is the external hard drive's. Select the external hard drive.

```
┤ Clonezilla - Opensource Clone System (OCS) ├
Now we need to mount a device as /home/partimag (clonezilla image(s) repository) so that we can read or save 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)...:

                        sdb1 160GB_vfat(In_HTS541616J9SA00_)_No_disk_serial_num


            <Ok>                                              <Cancel>
```

*If the external drive is formatted NTFS, Clonezilla will ask you if you are sure you want to continue. Answer **y**

11. Clonezilla needs to know where on the external hard drive to find the image. The easiest place to find the image is on the top level, not in folder. If images were placed in folder, you will need to select the proper folder, otherwise choose **/Top_directory_in_the_local_device**

```
                    ┤ Clonezilla – Opensource Clone System (OCS) ├
Which directory is for Clonezilla image (only the first level of directories are shown, and the Clonezilla image (i.e.
directory) itself will be excluded. Besides, if there is a space in the directory name, it will _NOT_ be shown) ?:

  /                                      Top_directory_in_the_local_device



              <Ok>                                              <Cancel>
```

12. Press **Enter** to continue

13. Clonezilla is asking if you want to create an image of the computer or put an existing image on the computer. In this case, Clonezilla will create an image of the computer and put that image on an external hard drive. Choose **restoredisk restore_an_image_to_local_disk**

```
                                 ┤ Clonezilla: Choose the mode ├
*Clonezilla is free (GPL) software, and comes with ABSOLUTE NO WARRANTY*
 This software will overwrite the data on your harddrive when restoring! It is recommended to backup important files
before you 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///
 Choose the mode:


                      savedisk     Save_local_disk_as_an_image
                      restoredisk  Restore_an_image_to_local_disk
                      saveparts    Save_local_partitions_as_an_image
                      restoreparts Restore_an_image_to_local_partitions
                      exit         Exit. Enter command line prompt


            <Ok>                                        <Cancel>
```

14. Press **Enter** to continue
15. Clonezilla will display a list of all the images it sees on the hard drive.

```
                  ┤ Clonezilla - Opensource Clone System (OCS) ├
      Choose the image file to restore:


            w2k3-UNHCR-120g-2009-03-11 2009-03-11_01:56_sda
            xp-UNHCR-French-Fit60g-2009-03-12 2009-03-12_19:40
            xp-UNHCR-French-ION40g-2009-03-13 2009-03-12_19:42


                  <Ok>                           <Cancel>
```

16. Select which hard drive to put the image on. If the computer only has one hard drive, only one choice will be listed.
17. Tell Clonezilla the options/parameters for copying the image on the hard drive. Select **-g auto** and **-nogui**.
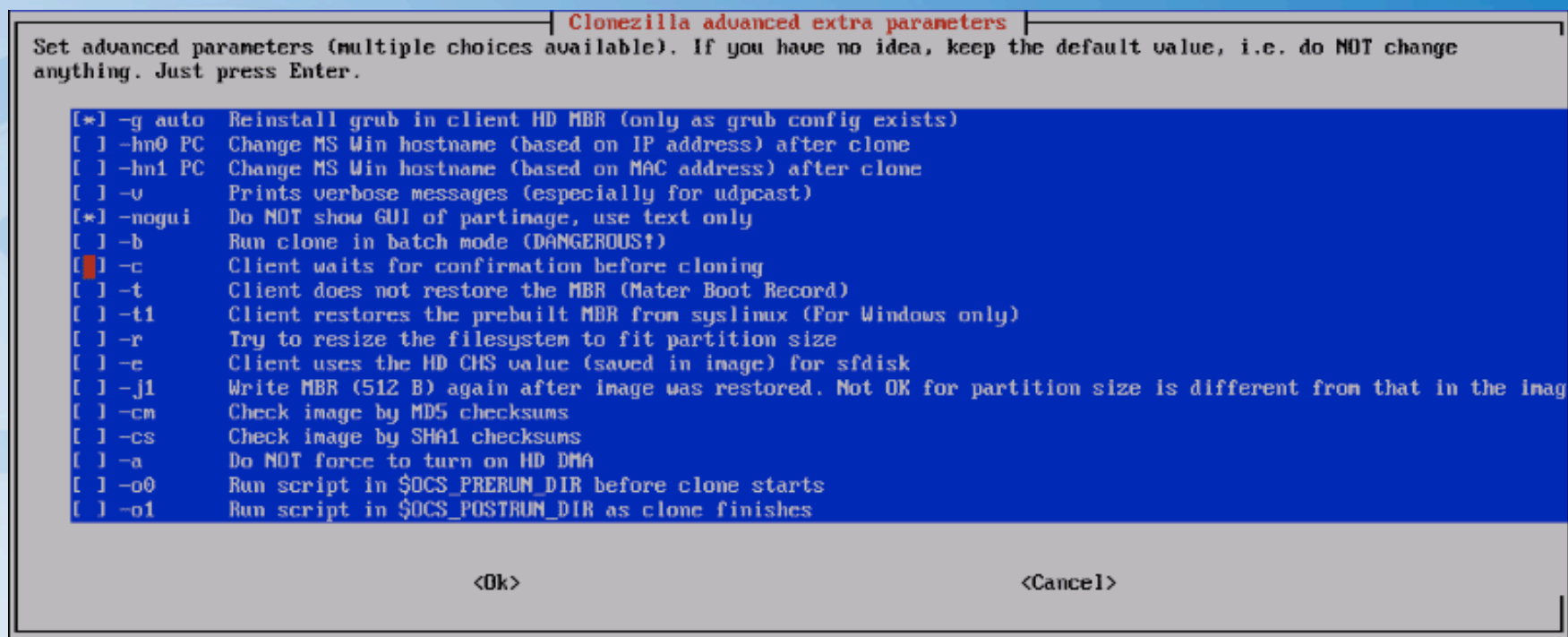
18. Tell Clonezilla additional options for cloning. When cloning a Linux system, choose **Use the partition table from image**. If cloning Windows, choose **-j0 Use dd to create partition table (NOT OK as logical drives exist)**

```
┤ Clonezilla advanced extra parameters ├

Set advanced parameters. If you have no idea, keep the default value, i.e. do NOT change anything. Just press Enter.
Choose the mode to create the partition table on the target disk: ***ATTENTION***(1) TO CREATE A NEW PARTITION TABLE IN
THE TARGET DISK. ALL THE DATA ON THE TARGET DEVICE WILL BE ERASED!!! (2) Clonezilla will not restore an image from large
disk (partition) to smaller disk (partition). However, it can restore an image from small disk (partition) to larger disk
(partition). (3)If you do NOT want clonezilla to create partition table, check -k:

              Use the partition table from image
        -k    Do NOT create partition table in target disk
        -k1   Create partition table proportionally (OK for MBR format, not GPT)
        -k2   Enter command line prompt to create partition manually later
        -j0   Use dd to create partition table (NOT OK as logical drives exist)
        exit  Exit


                <Ok>                                          <Cancel>
```

19. After cloning, tell Clonezilla to poweroff, **-p poweroff**
20. Press **Enter**
21. Let me ask you again, Are you sure you want to continue?? **y** and **Enter**
22. Clonezilla will now image the computer

Après avoir copier l'image

1. Débranchez les périphériques USB
2. Démarrez l'ordinateur
3. Vérifiez que l'image était bien transférée à l'ordinateur
4. Changez l'ordre de démarrage dans le BIOS, pour que le disque dur soit la première option.