Strasbourg Oleron2019 Structural Biology USB Kit

isbp-2019_ubuntu_16.04_14juin2019-shrink1Gio.raw has been build to have access to a small independent Linux OS with several Structural biology programs pre-installed and ready to be used. It can be downloaded from our ftp area.

To make your own USB key, there are 2 steps

- Step 1. get the raw image on your disk using sftp as indicated (in 1 step or using Filezilla)
- Step 2. Make an USB bootable Key from the raw image.
  The way to do step2 depends on your laptop or computer OS
  - on linux system, use dd as indicate
  - on Ma OS X, use dd (using /dev/rdisk option)
  - on Windows, use Win32 disk manager (see page 4)

Step1

sftp shareguest@img-share.igbmc.fr:/data/GcxoMnlE-oleron2019/oleron2019/isbp-2019_ubuntu_16.04_14juin2019-shrink1Gio.raw

(password Sh4reGuestLogin)

For those using filezilla or other programs, directory /data is protected but /data/GcxoMnlE-oleron2019 is not protect (/data/GcxoMnlE-oleron2019/oleron2019 is also not protected)

Step 2

Writing on an USB key from Linux (similar under MacOSX) :

dd if= isbp-2019_ubuntu_16.04_14juin2019-shrink1Gio.raw of=/dev/sdd bs=64k conv=sparse status=progress

(bleu optionnal)

**** Caution, replace /dev/sdd with the path to your USB drive

Be very careful to specify the correct disk path here — if you specify the path to your system drive instead, you'll write the contents of the image to your operating system drive and corrupt it

For OS X (Mac) user, uses the option /dev/rdisk . see for example

https://superuser.com/questions/631592/why-is-dev-rdisk-about-20-times-faster-than-dev-disk-in-mac-os-x

"/dev/rdisk nodes are character-special devices, but are "raw" in the BSD sense and force block-aligned I/O. They are closer to the physical disk than the buffer cache. /dev/disk nodes, on the other hand, are buffered block-special devices and are used primarily by the kernel's filesystem code. "

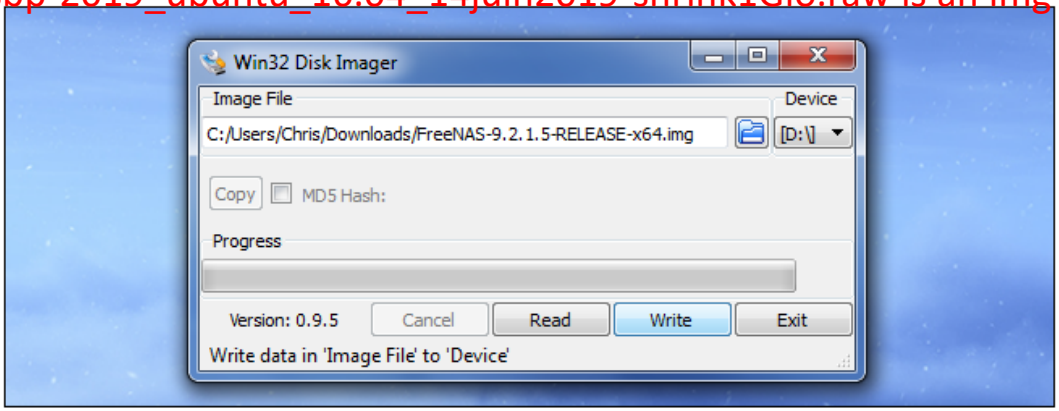
If you have something faste for ubuntu, please let us know.

Step2 : Creating an USB bootable key

Windows system

Use Win32 Disk Imager to write an IMG file to a USB drive or SD card. Provide a downloaded IMG file and the tool will write it directly to your drive, erasing its current contents. You can also use this tool to create IMG files from USB drives and SD cards.

isbp-2019_ubuntu_16.04_14juin2019-shrink1Gio.raw is an img file type



Linux and MacOSX

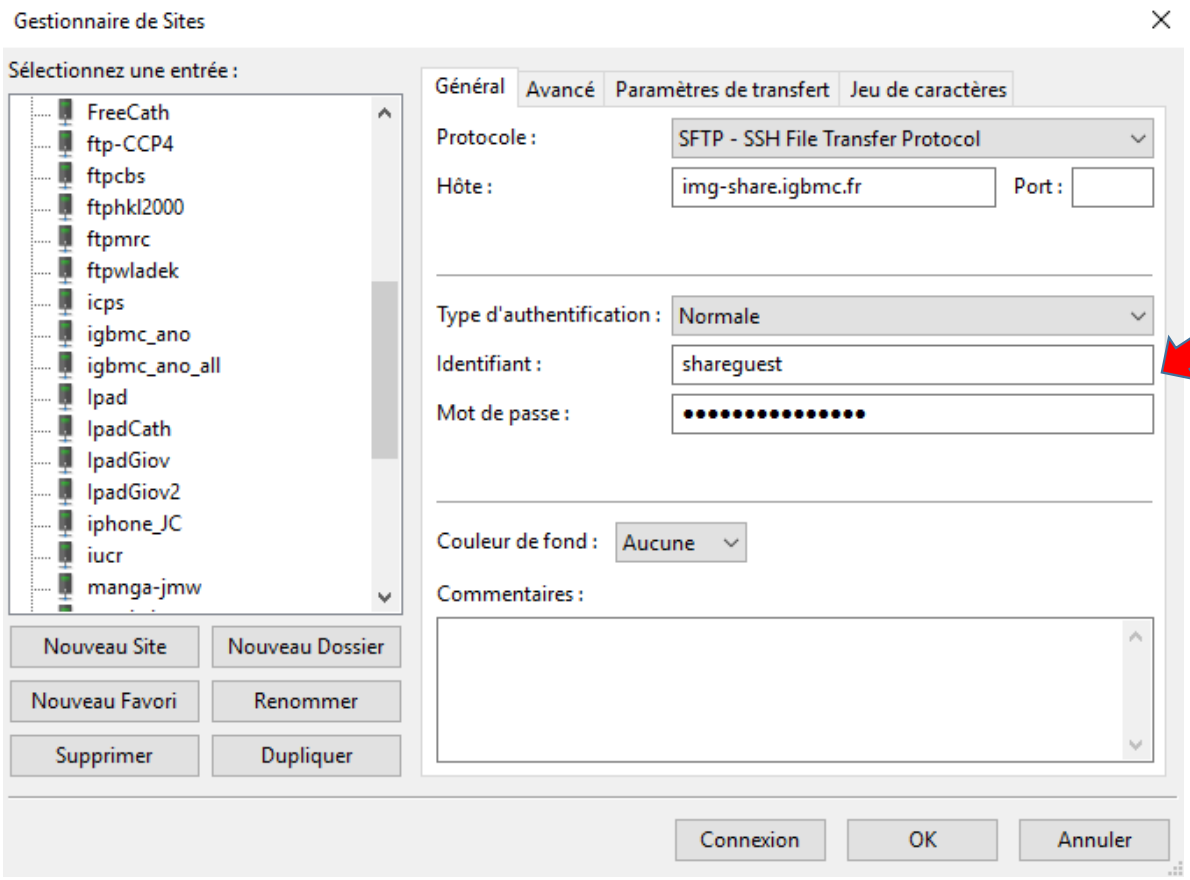
dd if= isbp-2019_ubuntu_16.04_14juin2019shrink1Gio.raw of=/dev/sdd bs=64k

Linux users can use the dd command to directly write an IMG file's contents to a removable media device. Insert the removable media and run the following command on Ubuntu:

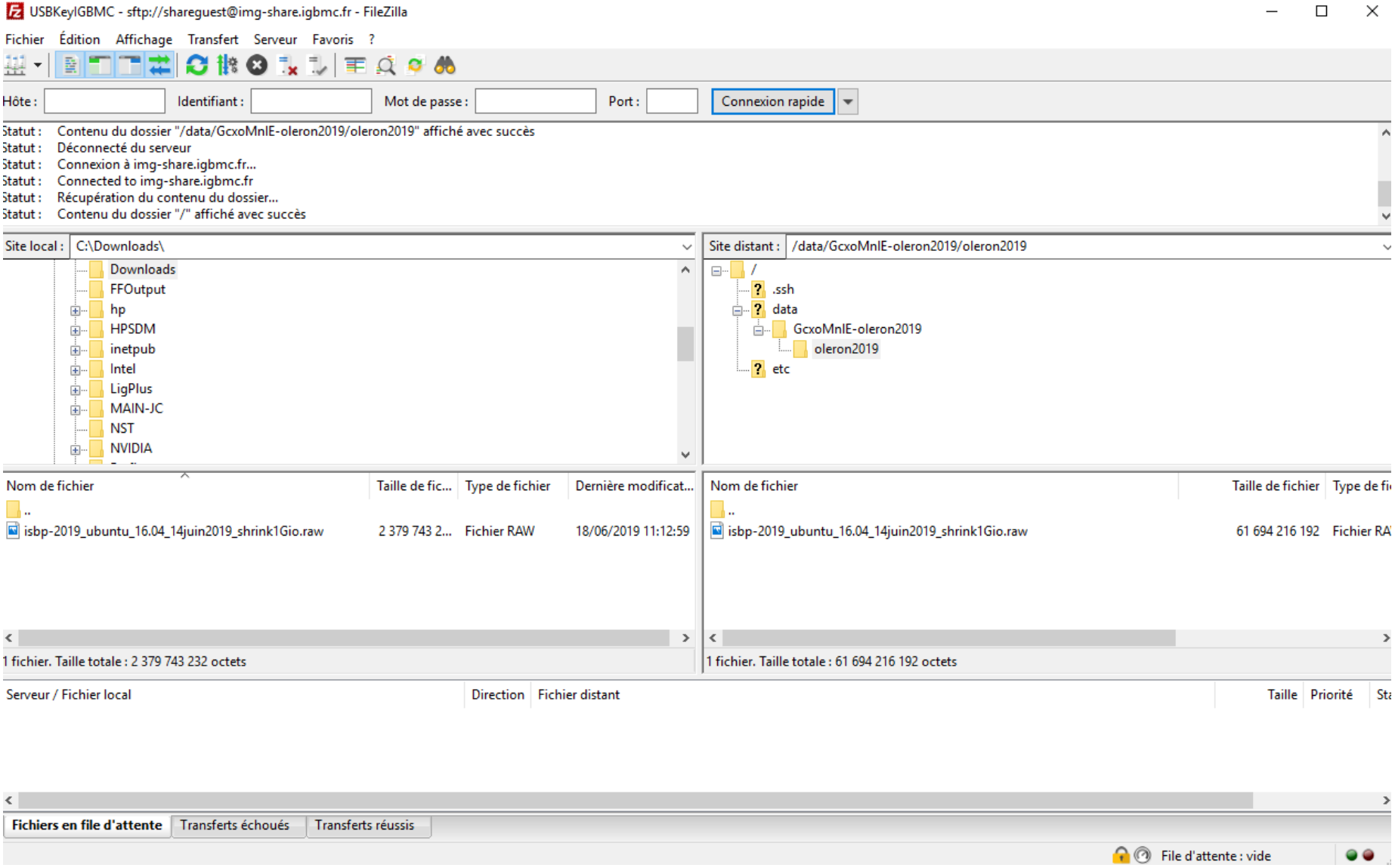
```
sudo dd if=/home/user/file.img of=/dev/sdX bs=1M
```

Replace /home/user/file.img with the path to the IMG file on your file system and /dev/sdX with the path to your USB or SD card device. Be very careful to specify the correct disk path here — if you specify the path to your system drive instead, you'll write the contents of the image to your operating system drive and corrupt it

https://filezilla-project.org/



Sh4reGuestLogin


USBKeyIGBMC - sftp://shareguest@img-share.igbmc.fr - FileZilla
Fichier Édition Affichage Transfert Serveur Favoris ?
Hôte : Identifiant : Mot de passe : Port : Connexion rapide
Statut : Contenu du dossier "/data/GcxoMnlE-oleron2019/oleron2019" affiché avec succès
Statut : Déconnecté du serveur
Statut : Connexion à img-share.igbmc.fr...
Statut : Connected to img-share.igbmc.fr
Statut : Récupération du contenu du dossier...
Statut : Contenu du dossier "/" affiché avec succès
Site local : C:\Downloads\
Downloads
FFOutput
hp
HPSDM
inetpub
Intel
LigPlus
MAIN-JC
NST
NVIDIA
Site distant : /data/GcxoMnlE-oleron2019/oleron2019
/
.ssh
data
GcxoMnlE-oleron2019
oleron2019
etc
Nom de fichier Taille de fic... Type de fichier Dernière modificat...
isbp-2019_ubuntu_16.04_14juin2019_shrink1Gio.raw 2 379 743 2... Fichier RAW 18/06/2019 11:12:59
1 fichier. Taille totale : 2 379 743 232 octets
Nom de fichier Taille de fichier Type de fi
isbp-2019_ubuntu_16.04_14juin2019_shrink1Gio.raw 61 694 216 192 Fichier RA
1 fichier. Taille totale : 61 694 216 192 octets
Serveur / Fichier local Direction Fichier distant Taille Priorité
Fichiers en file d'attente Transferts échoués Transferts réussis
File d'attente : vide

List available programs

module avail

List loaded programs

module list

module load <program>

<program>

module load xds
xds
Module load ccp4
ccp4i
module load phenix
phenix
module load chimera
chimera
module load relion
relion

Show info fore program e.g. path to program

module show <program>

Example

$module load atsas
$ module show atsas
/home/tp# module show atsas

/usr/local/modules/modulefiles/atsas/2.8.3-1:
module-whatis Setup atsas 2.8.3-1
conflict atsas
prepend-path PATH /usr/local/modules/atsas/2.8.3-1/bin

User tp tp
Adm ubuntu ubuntu