

Strasbourg IGBMC Structural Biology USB Kit

Workshop.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 indicated
- on Mac : use dd as indicated with a trick to speed up the transfer
- on Windows, use Win32 disk manager (see page 4)

Step1

`sftp shareguest@img-share.igbmc.fr:/data/workshop/workshop.raw`

(password Sh4reGuestLogin)

For those using filezilla or other programs, directory /data is protected but /data/workshop is not protect

Step 2

Writing on an USB key from Linux (you need to be administrator, usually):

If /dev/sdx is the USB key, then type:

```
sudo dd if=workshop.raw of=/dev/sdx bs=64k
```

Writing on an USB key from MacOS (you need to be administrator, usually):

If /dev/diskx is the USB key, then type:

```
sudo dd if=workshop.raw of=/dev/diskx bs=64k
```

Remark: `sudo dd if=workshop.raw of=/dev/diskx bs=64k` will work but will be slower

****** Caution, replace /dev/sdx or /dev/diskx 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 irreversibly!!! **How to know where is your USB key?**

On Linux (Ubuntu)

Before inserting your USB key type:

```
ls /dev/sd*
```

You get:

```
dev/sda /dev/sda1 /dev/sda2 /dev/sda3 /dev/sdb /dev/sdb1 /dev/sdb2 /dev/sdc
```

After inserting your USB key type:

```
ls /dev/sd*
```

You get:

```
dev/sda /dev/sda1 /dev/sda2 /dev/sda3 /dev/sdb /dev/sdb1 /dev/sdb2 /dev/sdc /dev/sdd /dev/sdd1
```

==> /dev/sdd is the USB stick

Alternatively, Typing:

```
Sudo fdisk -l
```

May give you the necessary information to identify your USB key

On MacOS

Before inserting your USB key type:

```
ls /dev/disk*
```

You get:

```
dev/disk0 /dev/disk0s1 /dev/disk0s2 /dev/disk0s3 /dev/disk1 /dev/disk1s1 /dev/disk1s2
```

After inserting your USB key type:

```
ls /dev/disk*
```

You get:

```
dev/disk0 /dev/disk0s1 /dev/disk0s2 /dev/disk0s3 /dev/disk1 /dev/disk1s1 /dev/disk1s2
```

```
dev/disk0 /dev/disk0s1 /dev/disk0s2 /dev/disk0s3 /dev/disk1 /dev/disk1s1 /dev/disk1s2 /dev/disk2 /dev/disk2s1 /dev/disk2s2
```

==> /dev/disk2 is the USB stick

You may need to unmount mounted partition by typing:

```
sudo diskutil unmount /dev/disk2s1
```

Alternatively, Typing:

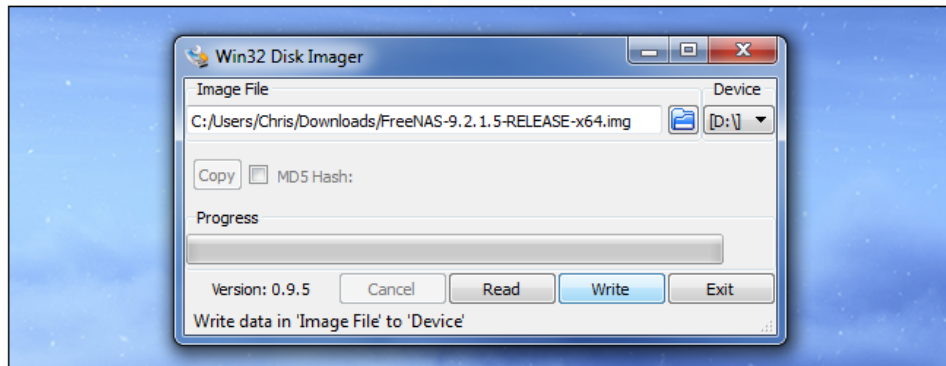
```
diskutil list
```

May give you the necessary information to identify your USB key

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.



workshop.raw is an img file type

Linux and MacOSX

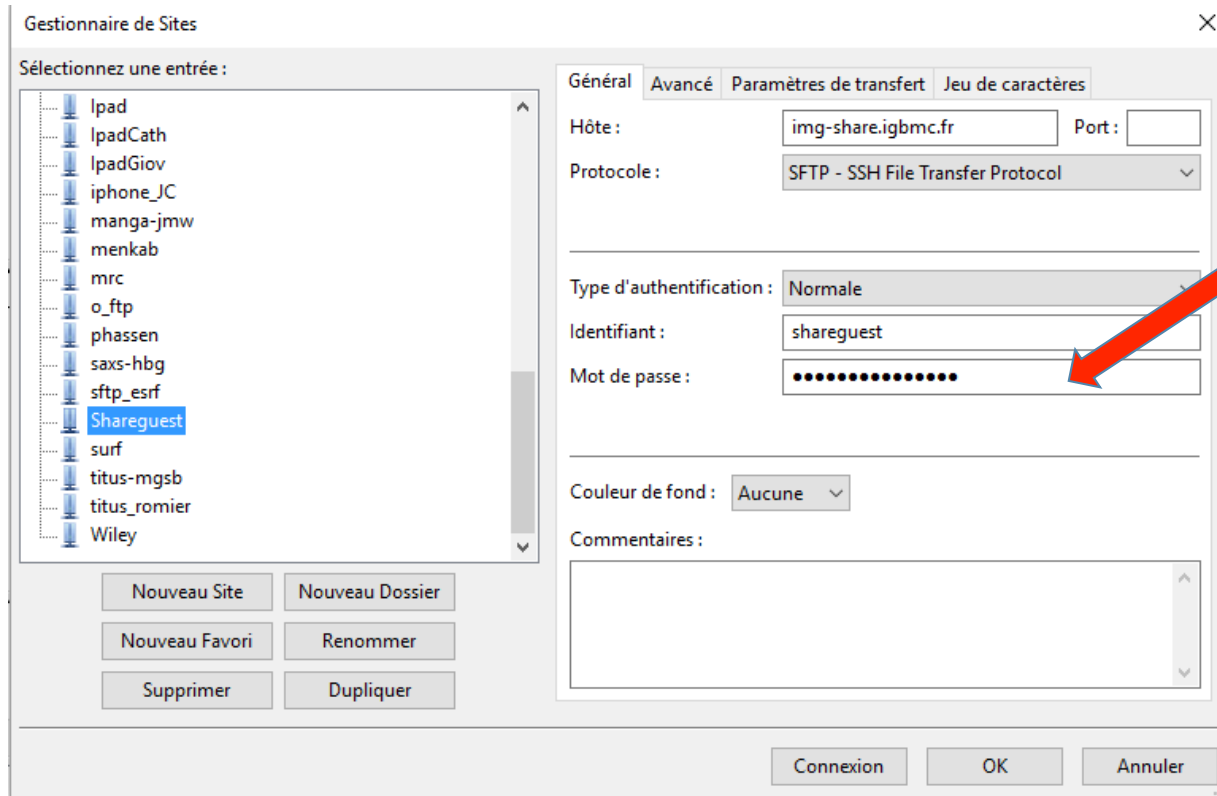
```
dd if=workshop.raw of=/dev/sdd bs=64k
```

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:

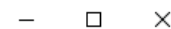
```
sudo dd if=/home/user/file.img of=/dev/sdX bs=1M
```

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/>



Sharequest - sftp://shareguest@img-share.igbmc.fr - FileZilla



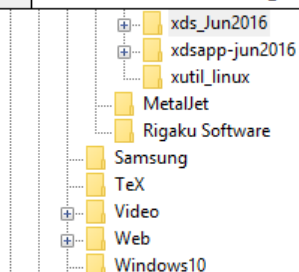
Fichier Édition Affichage Transfert Serveur Favoris ?



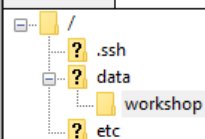
Hôte : Identifiant : Mot de passe : Port : Connexion rapide

Statut : Connexion à img-share.igbmc.fr...
Statut : Connected to img-share.igbmc.fr
Statut : Récupération du contenu du dossier...
Statut : Listing directory /
Statut : Contenu du dossier "/" affiché avec succès
Statut : Récupération du contenu du dossier "/data/workshop"...
Statut : Listing directory /data/workshop
Statut : Contenu du dossier "/data/workshop" affiché avec succès

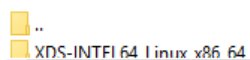
Site local : G:\Installations\RX\Linux\xds_Jun2016\



Site distant : /data/workshop

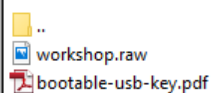


Nom de fichier



1 dossier

Nom de fichier



Nom de fichier	Taille de fi...	Type de fic...	D
..			
workshop.raw	62 742 792...	Fichier RAW	2
bootable-usb-key.pdf	50 465	Adobe Acr...	2

2 fichiers. Taille totale : 62 742 842 657 octets

Serveur / Fichier local

Direction Fichier distant