

Physdiskwrite

```
Administrator: Prompt dei comandi
D:\Users\Valerio\Downloads\physdiskwrite-0.5.3-PhysGUI-bundle>physdiskwrite.exe -u pfSense-CE-2.3.2-RELEASE-4g-amd64-nanobsd.img

physdiskwrite v0.5.3 by Manuel Kasper <mk@neon1.net>
Searching for physical drives...

Information for \\.\PhysicalDrive0:
  Windows:      cyl: 124519
                tpc: 255
                spt: 63
  C/H/S:        16383/16/63
  Model:        Samsung SSD 850 PRO 1TB
  Serial number: S252NEAG305178Z
  Firmware rev.: EXM03B6Q

Information for \\.\PhysicalDrive1:
  Windows:      cyl: 62260
                tpc: 255
                spt: 63

Information for \\.\PhysicalDrive2:
  Windows:      cyl: 1946
                tpc: 255
                spt: 63

Which disk do you want to write? (0..2) 2
WARNING: that disk is larger than 2 GB! Make sure you're not accidentally
overwriting your primary hard disk! Proceeding on your own risk...
About to overwrite the contents of disk 2 with new data. Proceed? (y/n) y
3989970432/4294967295 bytes written in total
```

For this tutorial I am going to write a 2GB pfSense image to a 4GB Compact Flash card using **Physdiskwrite** a command line utility for Windows. Sometimes the images may be compressed, extract the contents before attempting to write them to a card. It would be wise to place both `physdiskwrite.exe` and the `.img` file in the same directory.

- Open a command prompt in Windows with Administrator rights(necessary) and move to the directory where `Physdiskwrite` and the image are located.

```
C:\Users\Luis\Desktop>cd tools
C:\Users\Luis\Desktop\tools
```

- To find all available disk use the following command.

```
physdiskwrite.exe -a
```

- The output above tells us that **PhysicalDrive2** is the name of our 4GB Compact Flash. With that in mind we are going to tell `Physdiskwrite` to write our image file to the second drive. You need to use the `-u` parameter on cards bigger than 2GB, this is due to a safety precaution.

```
physdiskwrite.exe -u pfSense-1.2.3-2g-20091207-1914-nanobsd.img
```

- Specify the number of the disk you wish to write to, in this case the disk is number 2.

```
Which disk do you want to write? (0..3) 2
WARNING: that disk is larger than 2 GB! Make sure you're not accidentally
overwriting your primary hard disk! Proceeding on your own risk...
```

- Make this is the disk you want to overwrite, if so type `y` and press `Enter` to start.

```
About to overwrite the contents of disk 2 with new data. Proceed? (y/n) y
2001194496/2001194496 bytes written in total
```