

the psycho cat on an HP Mini with Ubuntu

Using PartImage in Ubuntu



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Note: In case you couldn't tell from the *extremely* old screenshots, this tutorial is no longer maintained. More importantly, PartImage does not support Ext4 partitions, and Ubuntu defaults to the Ext4 filesystem format. I'm told [PartClone](#) (which does support Ext4) is a good alternative. You might also want to look into [CloneZilla](#).

PartImage is a program that will copy the image of an entire partition, making it easy to restore a partition (including all its programs, files, and directories) *exactly* as they were before.

It comes in handy for two situations:

- Creating a simple backup of your installation in case you're planning to make major changes to it. That way, in case the upgrade or other major change causes problems, you can easily restore your partition to exactly the way it was before.
- Using the same Ubuntu configuration on several of computers that have the exact same hardware.

This tutorial assumes that you have a Ubuntu live CD and somewhere you can save the partition (an external hard drive or another partition).

Your first step is to boot up the live CD.

Then, go to [the terminal](#). (If you're using Ubuntu 7.10 or earlier, you may have to [enable extra repositories](#) before you can install PartImage).

To install PartImage paste in the terminal the command:

```
sudo apt-get update && sudo apt-get install partimage
```



```

Preconfiguring packages ...
Selecting previously deselected package partimage.
(Reading database ... 60316 files and directories currently installed.)
Unpacking partimage (from ../partimage_0.6.4-10_i386.deb) ...
Setting up partimage (0.6.4-10) ...

```

```

Reading package lists... Done
Building dependency tree
Reading extended state information
Initializing package states... Done
ubuntu@ubuntu:~$ sudo fdisk -l

```

```

Disk /dev/hda: 20.0 GB, 20020396544 bytes
255 heads, 63 sectors/track, 2434 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

```

Device	Boot	Start	End	Blocks	Id	System
/dev/hda1	*	1	1275	10241406	83	Linux
/dev/hda2		1276	2434	9309667+	5	Extended
/dev/hda5		1276	2388	8940141	83	Linux
/dev/hda6		2389	2434	369463+	82	Linux swap / Solaris

```

ubuntu@ubuntu:~$

```

After it's been installed, you may need to find out the names of your partitions. To do so, type:

```
sudo fdisk -l
```

Just Beginning

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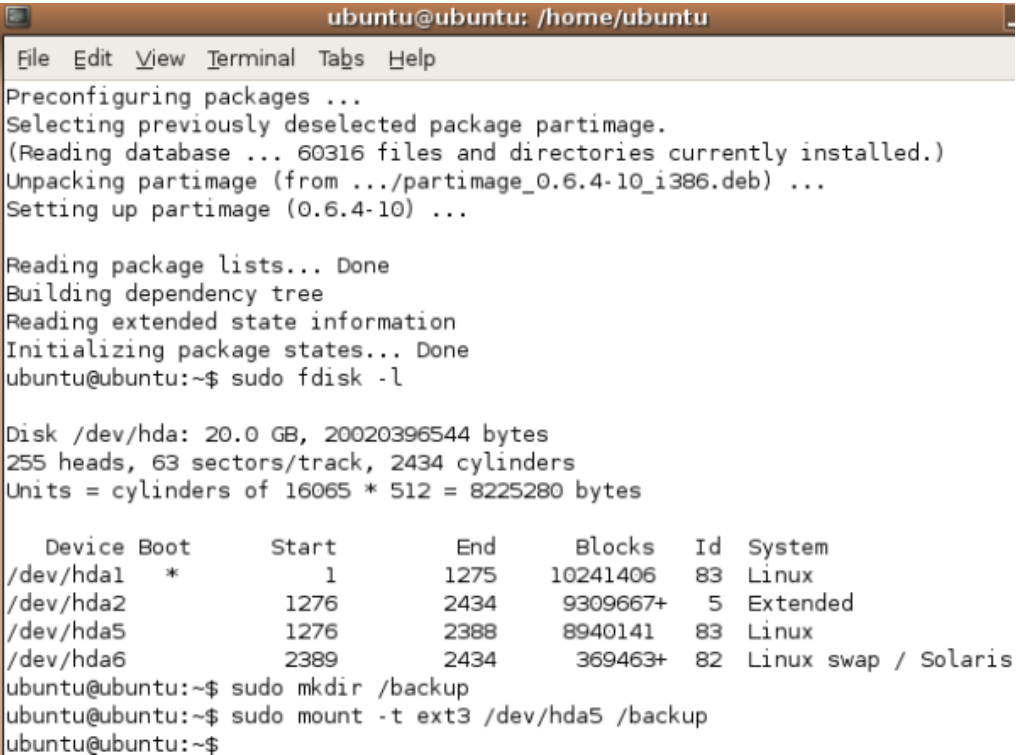
Cheap Plugs

If you've found these tutorials useful, please consider [donating](#) a small amount to one of my favorite non-profits/charities. Every little bit helps.

You may also want to consider [donating](#) directly to the Ubuntu project.

I happen to be, for this example, backing up my partition to another partition (I'm backing up /dev/hda1 on /dev/hda5. But if you're backing up your partition to an external hard drive, you should plug in the external hard drive *before* typing

```
sudo fdisk -l
```



```
ubuntu@ubuntu: /home/ubuntu
File Edit View Terminal Tabs Help
Preconfiguring packages ...
Selecting previously deselected package partimage.
(Reading database ... 60316 files and directories currently installed.)
Unpacking partimage (from .../partimage_0.6.4-10_i386.deb) ...
Setting up partimage (0.6.4-10) ...

Reading package lists... Done
Building dependency tree
Reading extended state information
Initializing package states... Done
ubuntu@ubuntu:~$ sudo fdisk -l

Disk /dev/hda: 20.0 GB, 20020396544 bytes
255 heads, 63 sectors/track, 2434 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

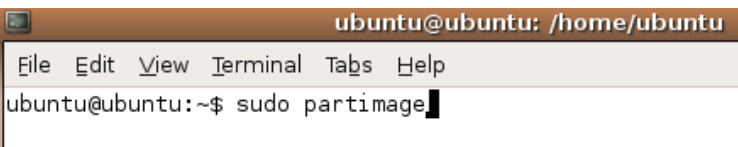
   Device Boot      Start         End      Blocks   Id  System
/dev/hda1  *           1         1275     10241406   83  Linux
/dev/hda2             1276         2434     9309667+    5  Extended
/dev/hda5             1276         2388     8940141    83  Linux
/dev/hda6             2389         2434     369463+    82  Linux swap / Solaris

ubuntu@ubuntu:~$ sudo mkdir /backup
ubuntu@ubuntu:~$ sudo mount -t ext3 /dev/hda5 /backup
ubuntu@ubuntu:~$
```

This part, you can skip if you external hard drive gets automounted.

In my case, I'm going to have to create a mount point (/backup) and then mount /dev/hda5 on the mount point.

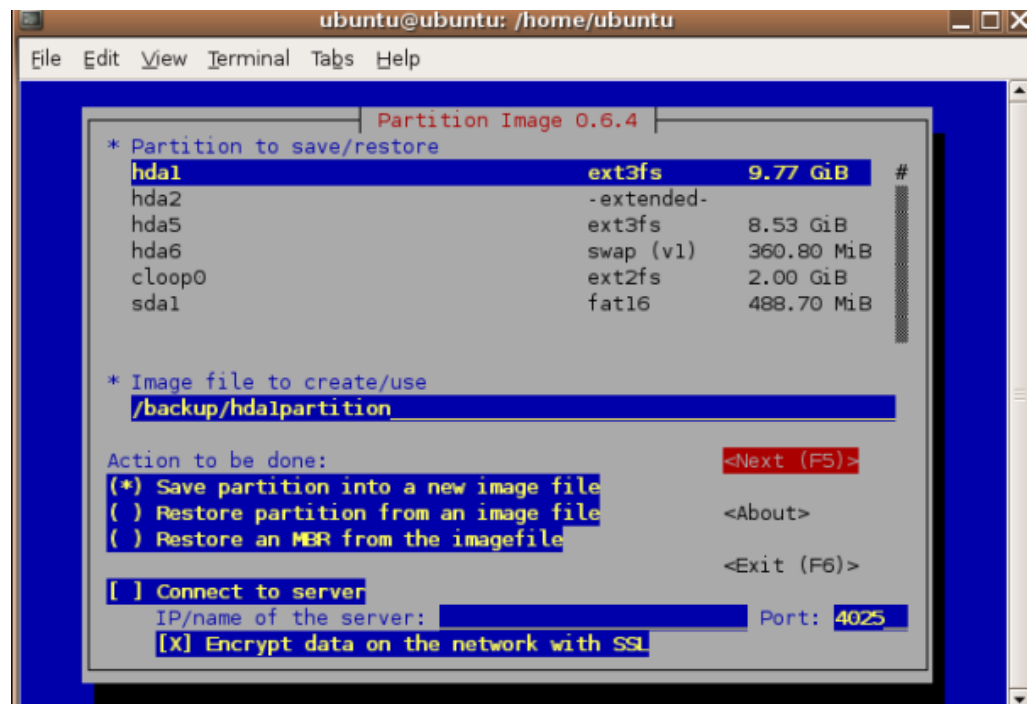
Keep in mind—the partition to be backed up should *not* be mounted.
The partition you're backing up to should be mounted, though.



```
ubuntu@ubuntu: /home/ubuntu
File Edit View Terminal Tabs Help
ubuntu@ubuntu:~$ sudo partimage
```

To run PartImage, type

```
sudo partimage
```

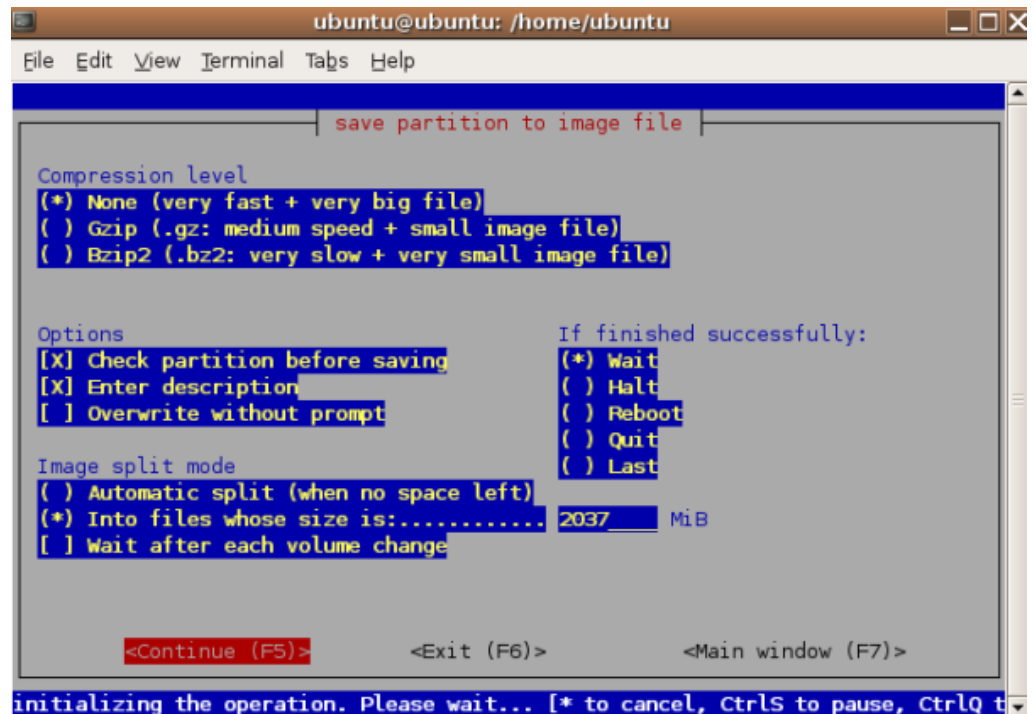


Once you launch PartImage, use the Up and Down arrows to select which partition to back up.

Type the name of the path *and* file where you're going to back up the partition. Since I mounted the backup partition at /backup, I have to type /backup/hda1partition and not just hda1partition. You can use whatever name you want, though. I could have called it /backup/gobbledygook

Action to be done should be **Save partition into a new image file**.

Then tab to <Next (F5)> and press **Enter** to move to the next screen.



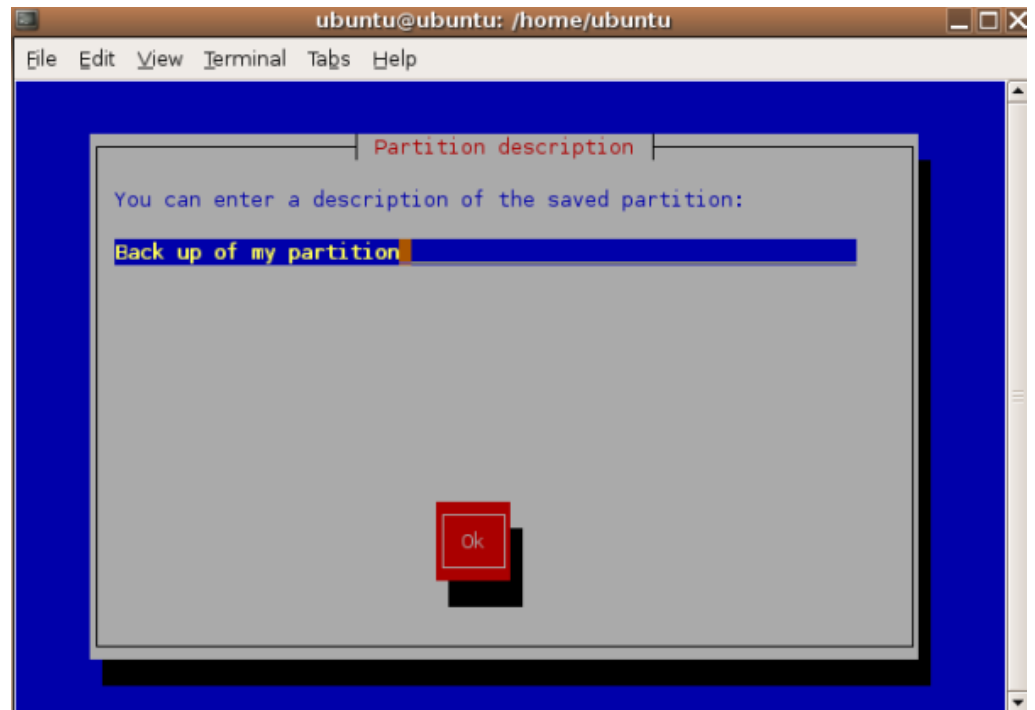
On the next screen, use no compression if you want the backup to be quicker. You really should use the Gzip or Bzip2 options only if your external hard drive or other backup partition is too small to hold the contents of the partition you're backing up.

Keep in mind, though, that the backup will save only the used space on the partition.

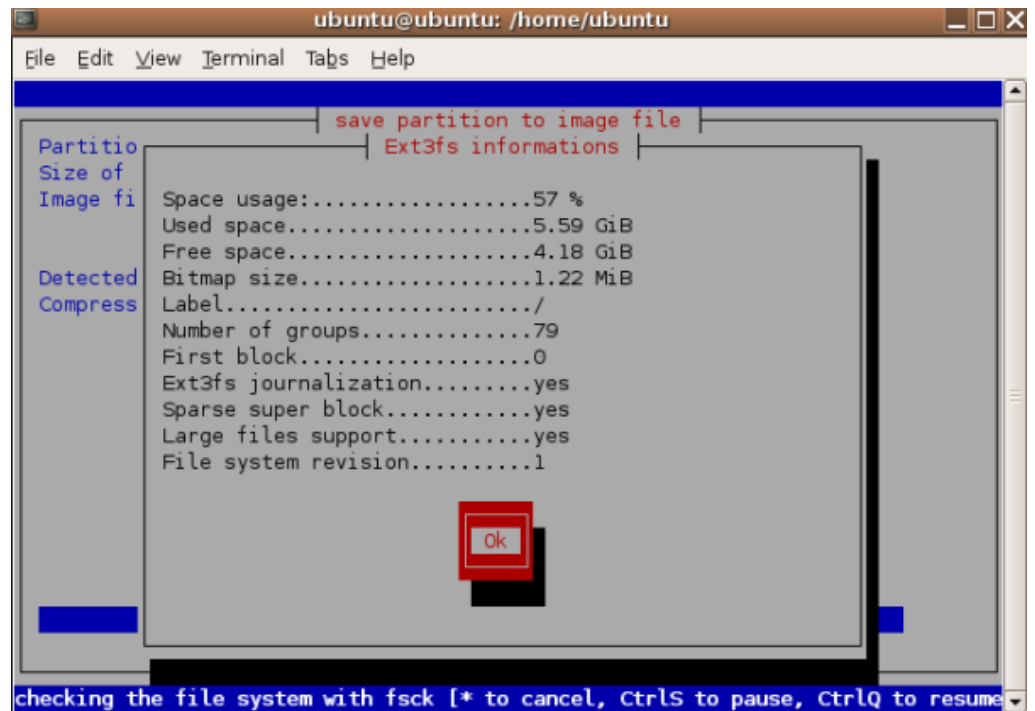
So, if you have a 30 GB partition you're backing up and only 7 GB of it is used, the partition image will be only 7 GB.

For the rest of the options, the defaults are good.

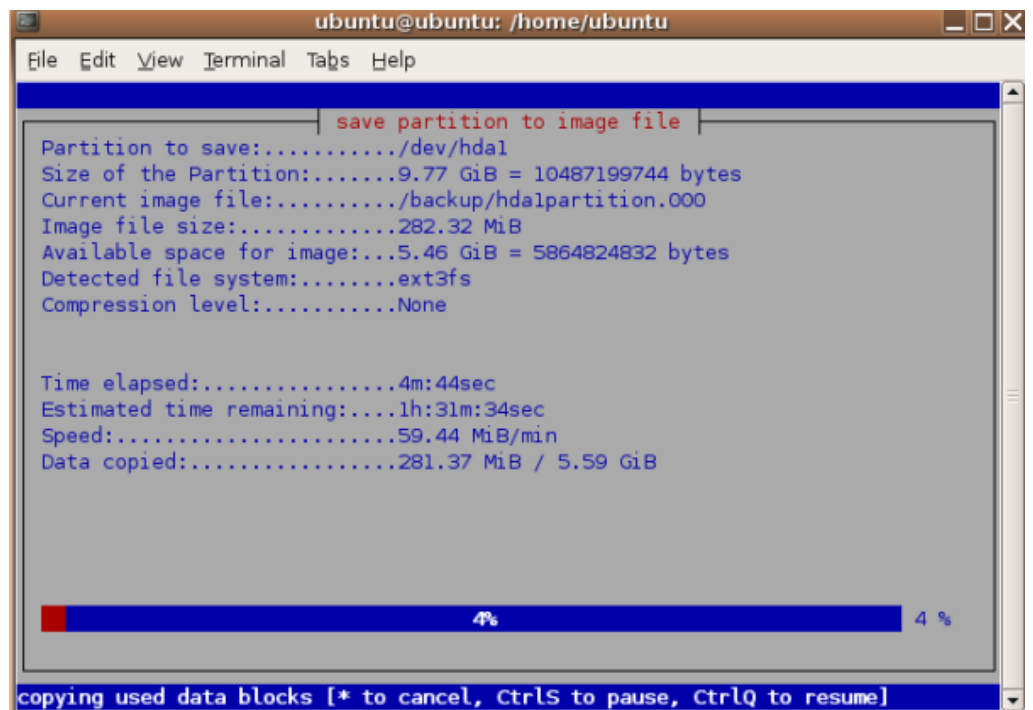
Tab to <Continue (F5)> and press **Enter**



You'll then be asked to give the new image a description. Type whatever you want.

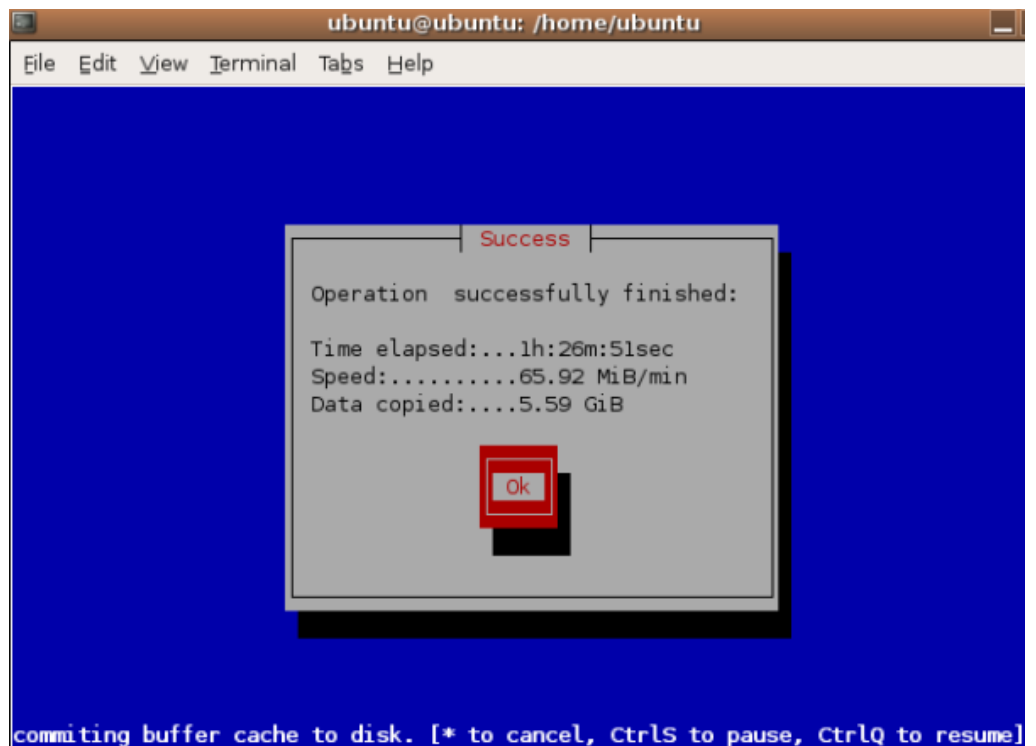


After PartImage examines the partition data for a while, it'll give a summary of the partition.

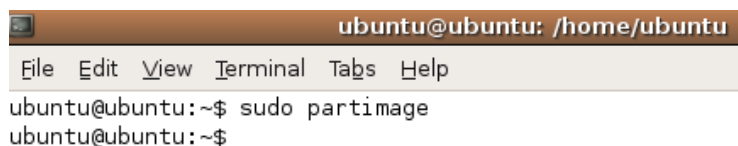


Once you press **Enter** on the last screen, PartImage will start saving your partition to an image file on the backup partition.

My back up was on an extremely slow computer, so it took over an hour, but if you have more than a 766 MHz processor and 128 MB of RAM, then you should get a faster backup time.



And when you're done you'll get this screen.



Then, you'll be back to the terminal prompt, and you can reboot.

The restore process is very similar except that you choose the **Restore partition from an image file** option when PartImage launches.

You can find more good information about how to use PartImage at its website: www.partimage.org.

If you have suggestions or corrections for these tutorials, please post in [this Ubuntu Forums thread](#) or leave a comment on [my blog](#).

I will not give help to people posting in the above places. If you require technical support, start a support thread on [the Ubuntu Forums](#). That is the appropriate place to ask for help.