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Back Up/Restore Hard Drives And Partitions With CloneZilla Live

Version 1.0
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This tutorial shows how you can back up and restore hard drives and partitions with **CloneZilla Live**. CloneZilla Live is a Linux Live-CD that you insert into your computer; it contains hard disk and partition imaging and cloning tools similar to Norton Ghost. The created images are compressed and can be transferred to a Samba-, SSH-, or NFS server or to a local hard drive or USB drive.

I do not issue any guarantee that this will work for you!

1 Get CloneZilla Live

First we must download the CloneZilla Live iso image from **http://sourceforge.net/project/showfiles.php?group_id=115473** and burn it to a CD. At the time of this writing the current version is 1.2.1.

2 Creating A Hard Drive Image

Next we insert the CloneZilla Live CD into the CD drive of the system we want to back up (for example, your Ubuntu desktop) and make the system boot from the CloneZilla Live CD (you might have to change the order of the boot devices in the BIOS so that the computer tries to boot from the CD before the hard drive). CloneZilla Live comes up with this screen. Hit *ENTER* to boot:

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Select your language:

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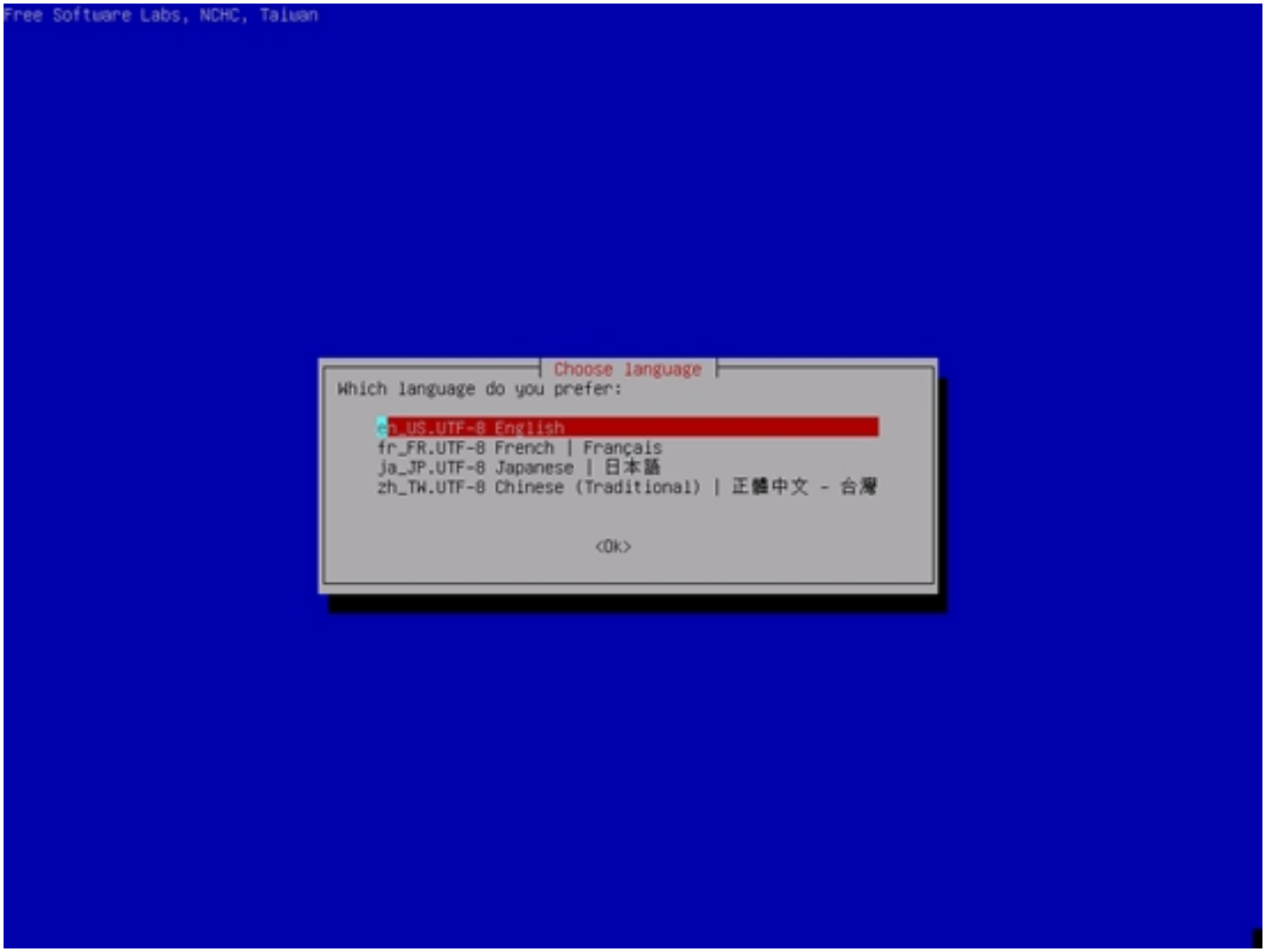

Select your keyboard layout:

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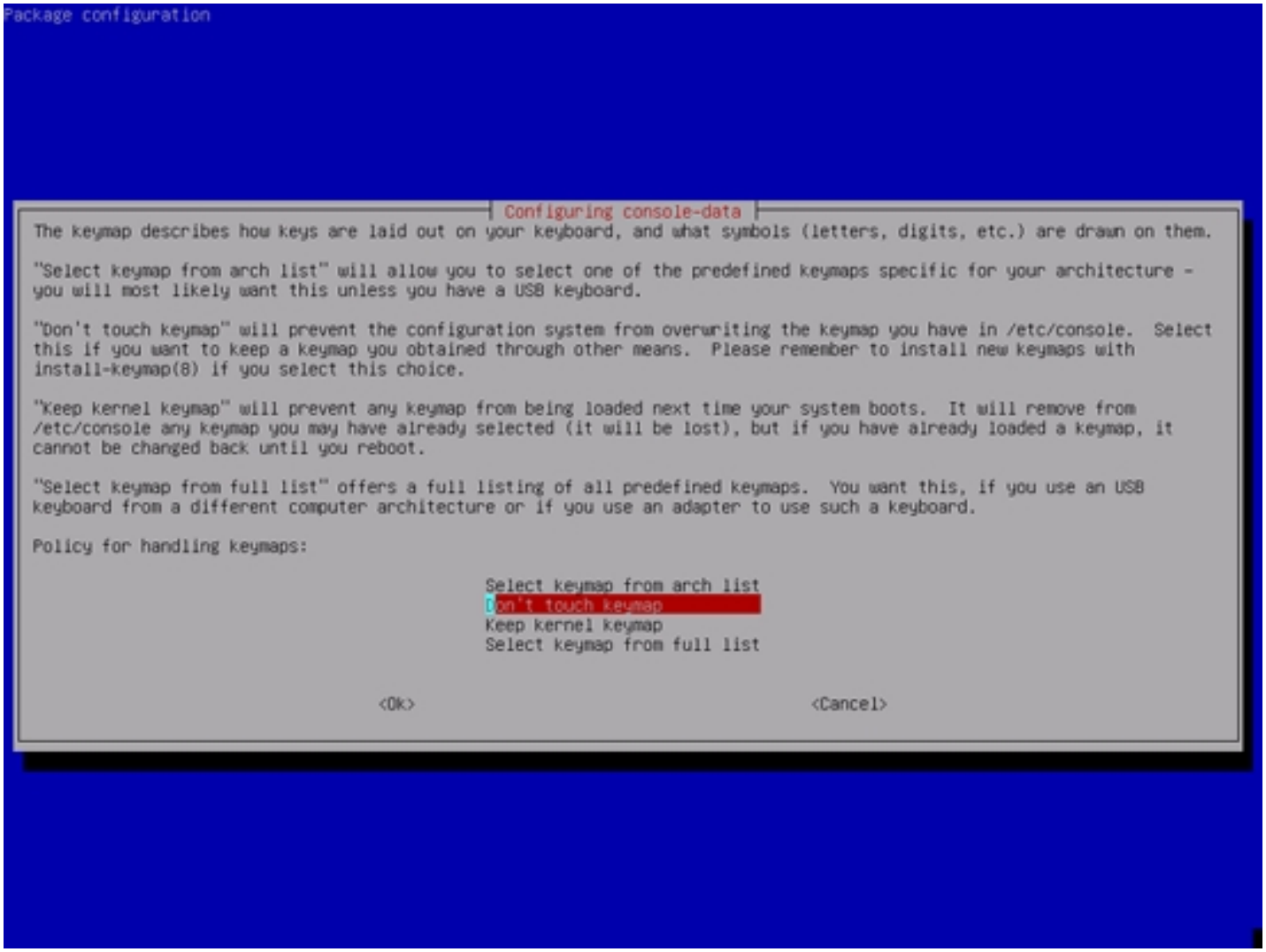

Next select *Start Clonezilla*:

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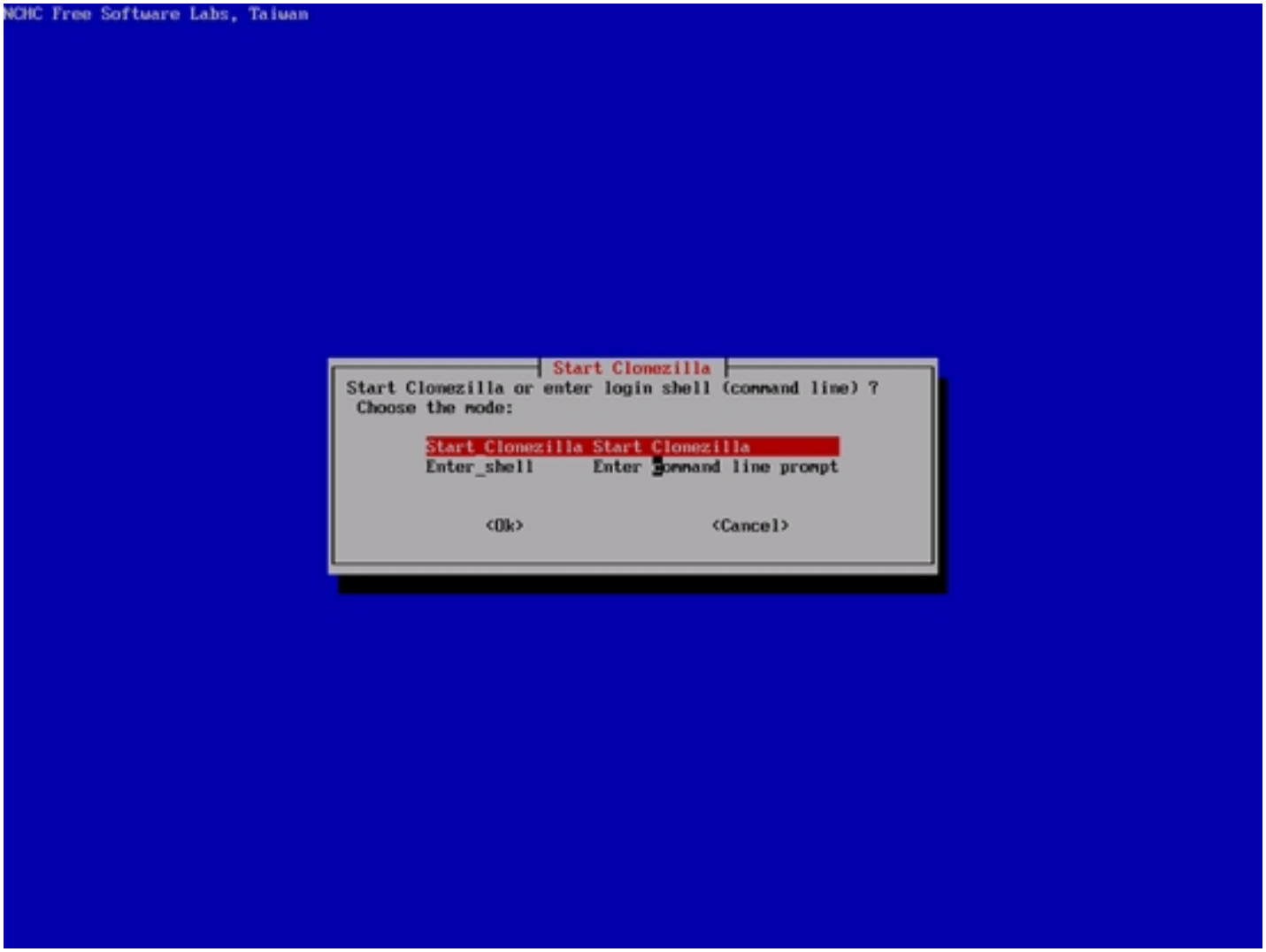

I want to create an image of my hard drive, therefore I select *`device-image disk/partition to/from image`*:

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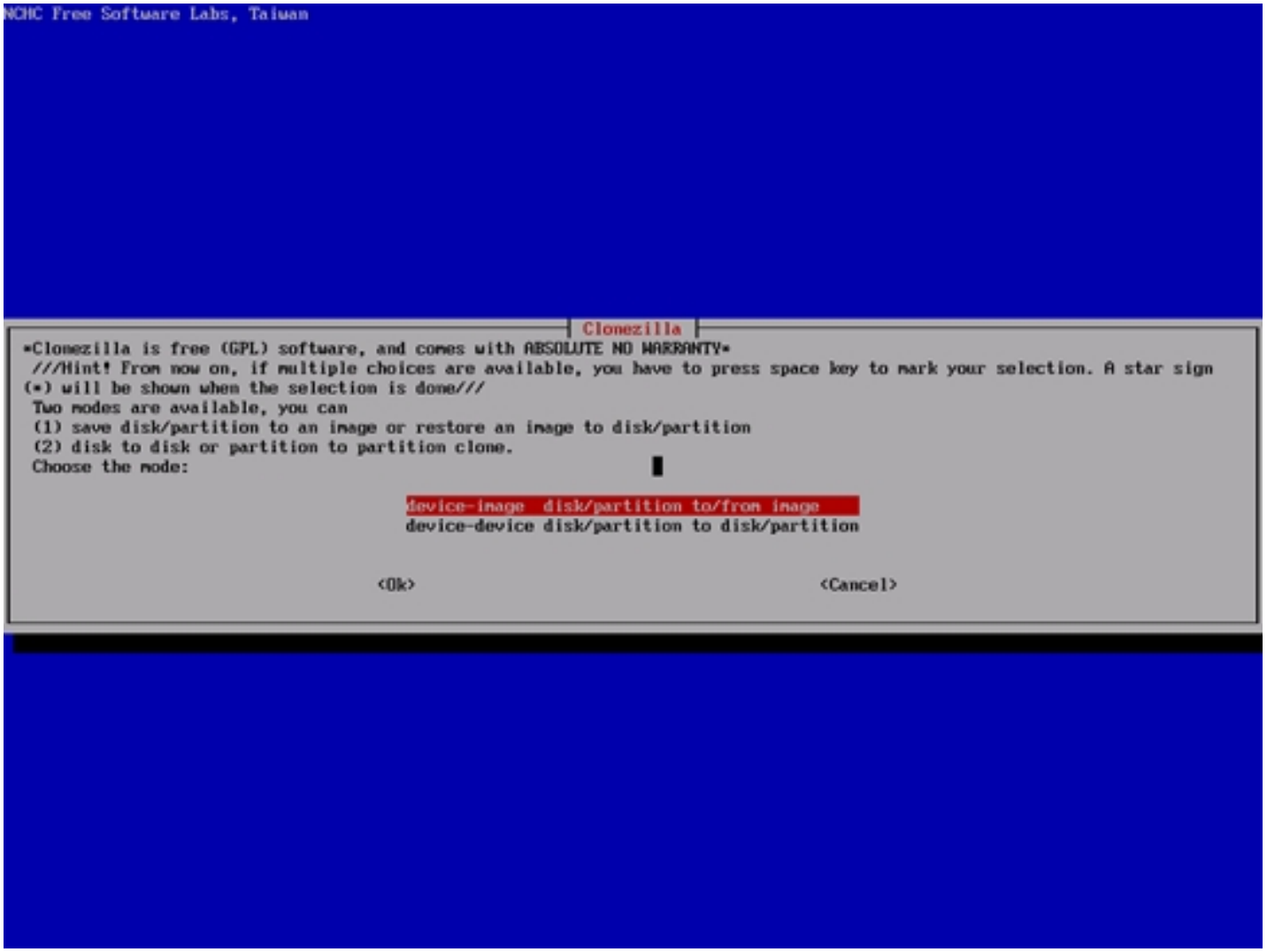

Now you can select where you want to store the hard drive image. You can store it on a local device (hard drive, USB drive), on an SSH server, on a Samba server, or on an NFS server. I have a Samba server in my network that I want to use, therefore I select *samba_server* (make sure that the server or device that you select has enough free space):

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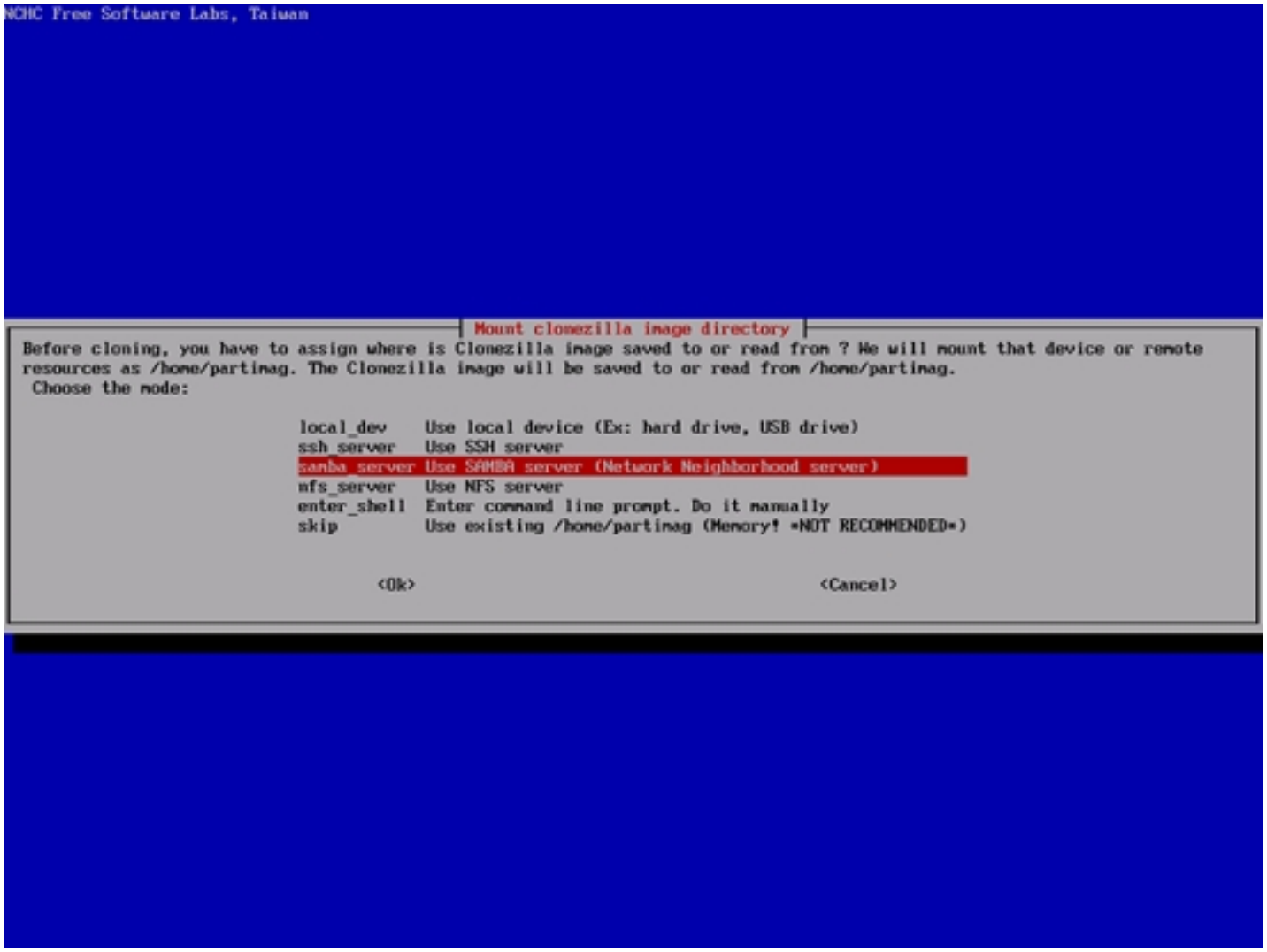

If you select SSH, Samba, or NFS, the CloneZilla system needs a network connection. If you are in a local network with a DHCP server, you can select *dhcp* (but you can as well assign a static IP address to the system):

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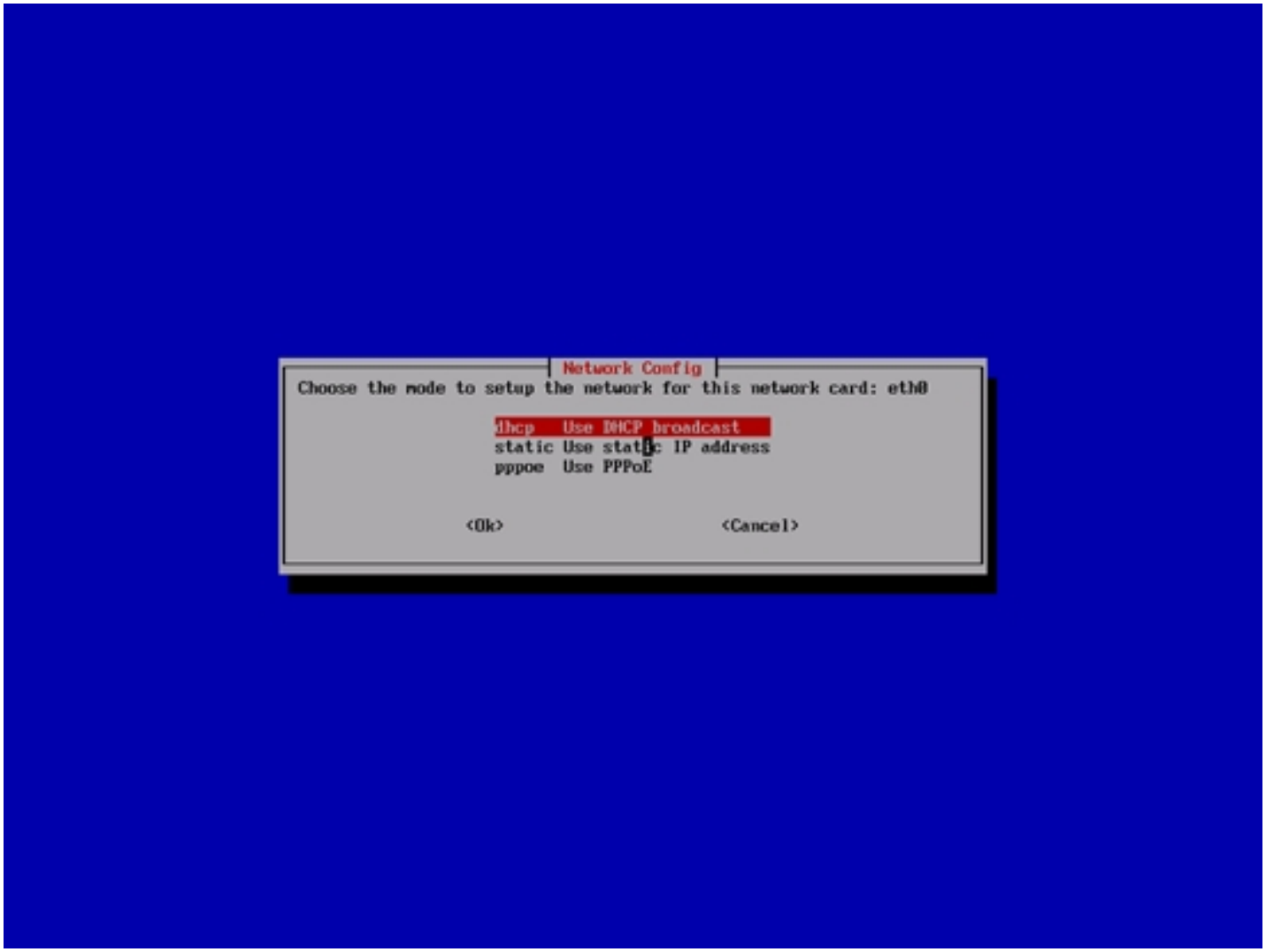

Fill in the IP address or hostname (the hostname must exist in DNS, otherwise the CloneZilla system cannot resolve it) of your Samba server:

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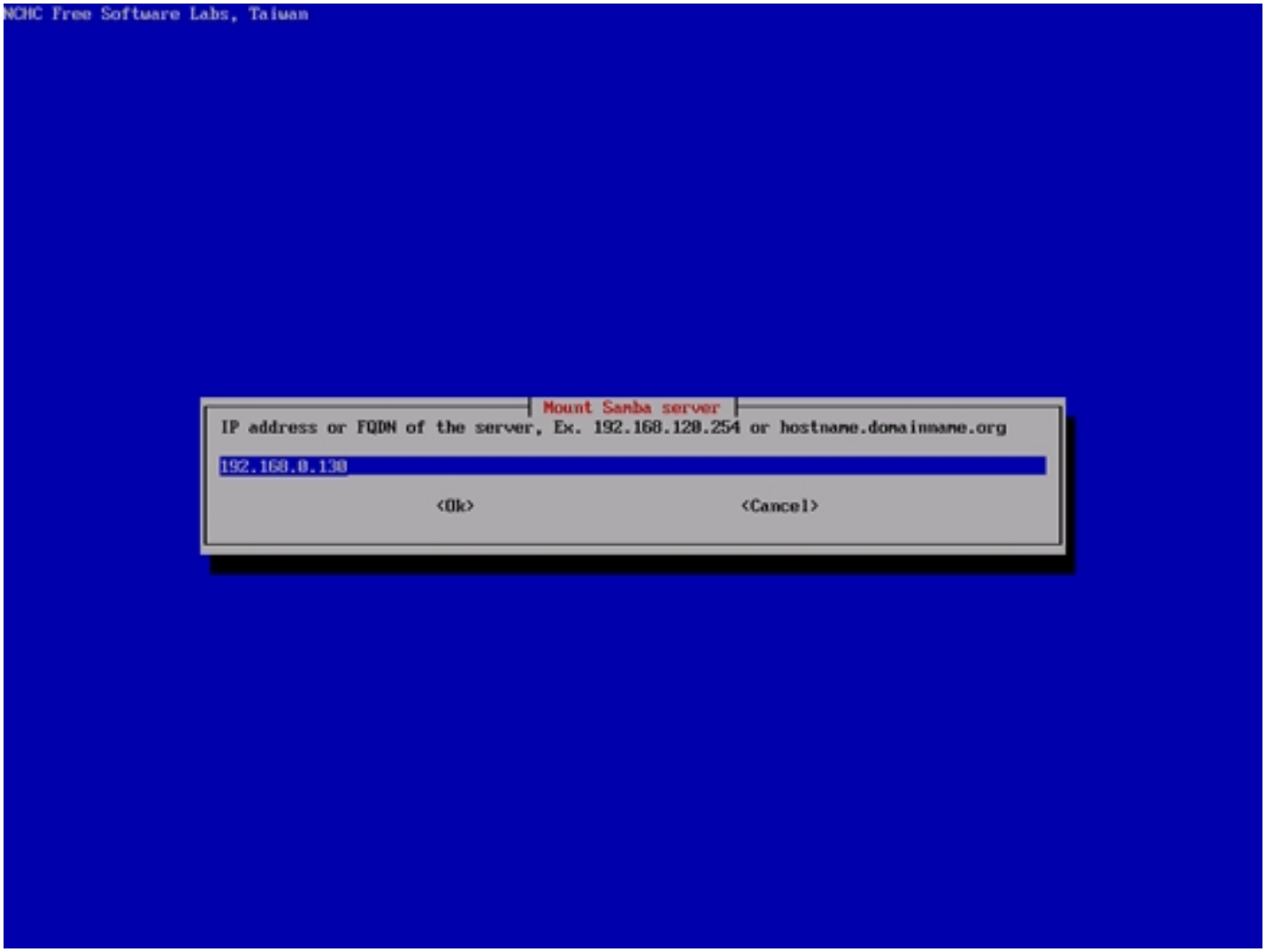

You can leave the Samba domain empty if no domain is set in the Samba server:

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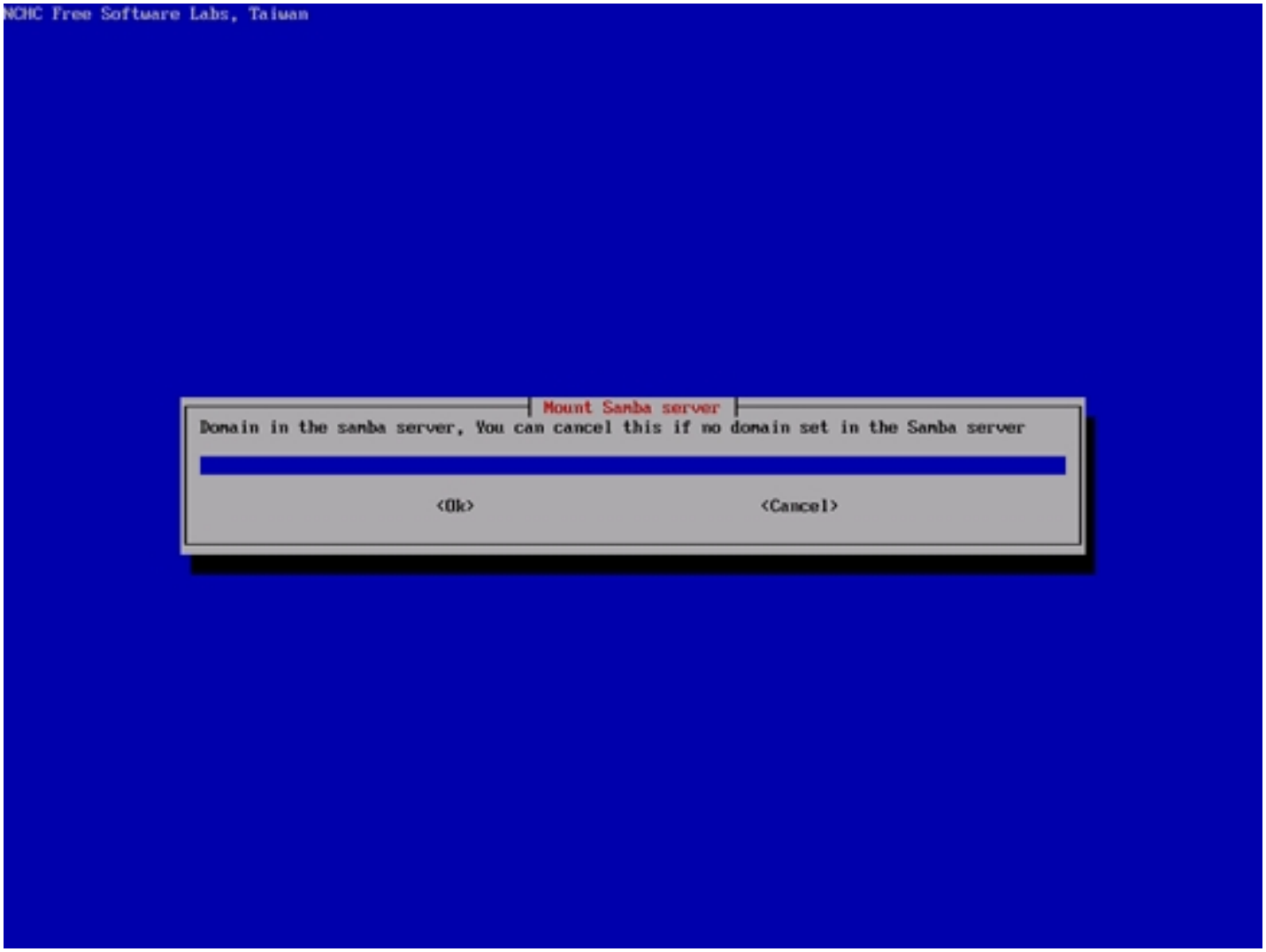

Fill in your Samba user name:

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Fill in the directory on the Samba server where you want to store the backup (this directory must already exist):

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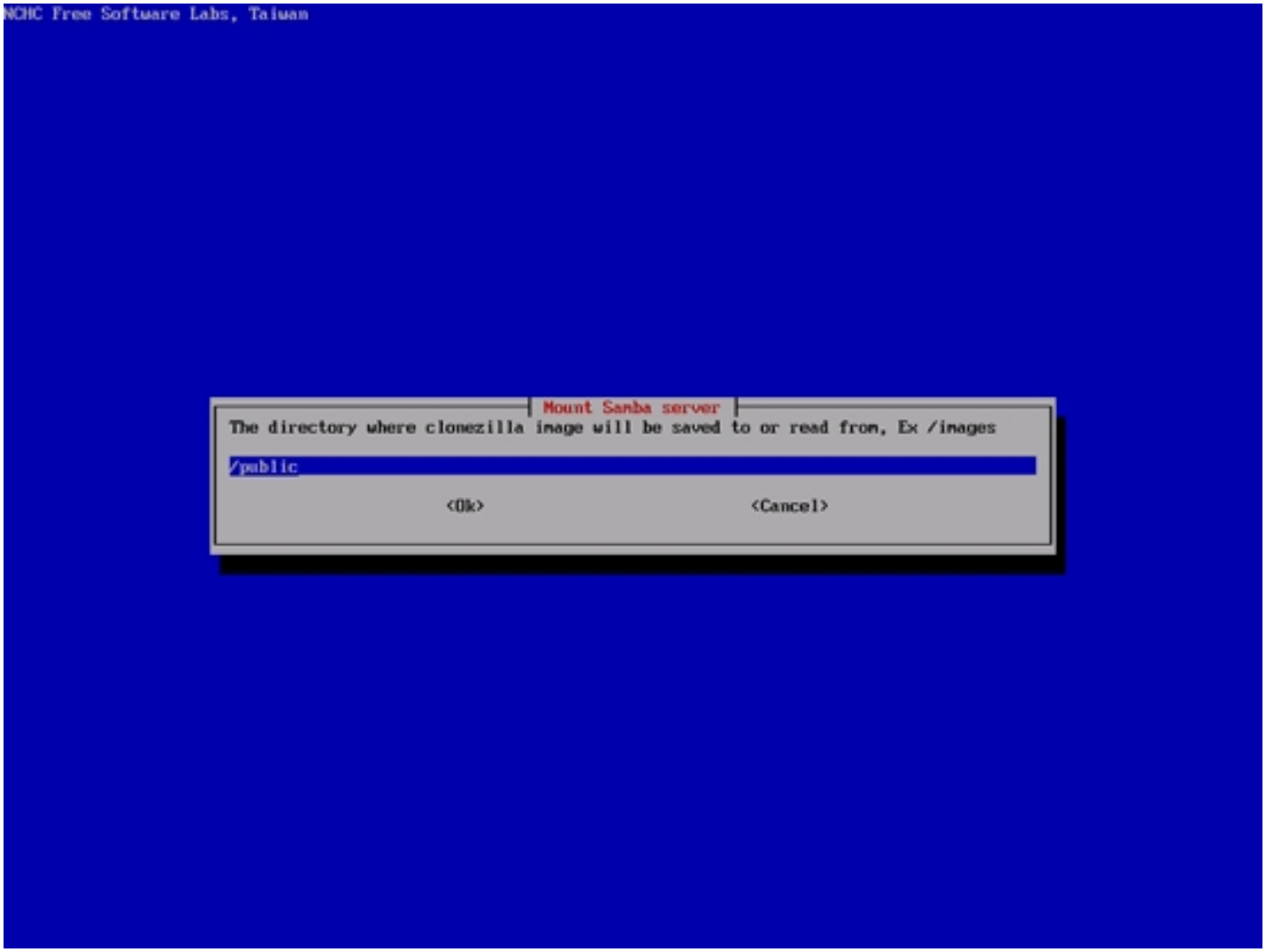

Next click on *Ok*...

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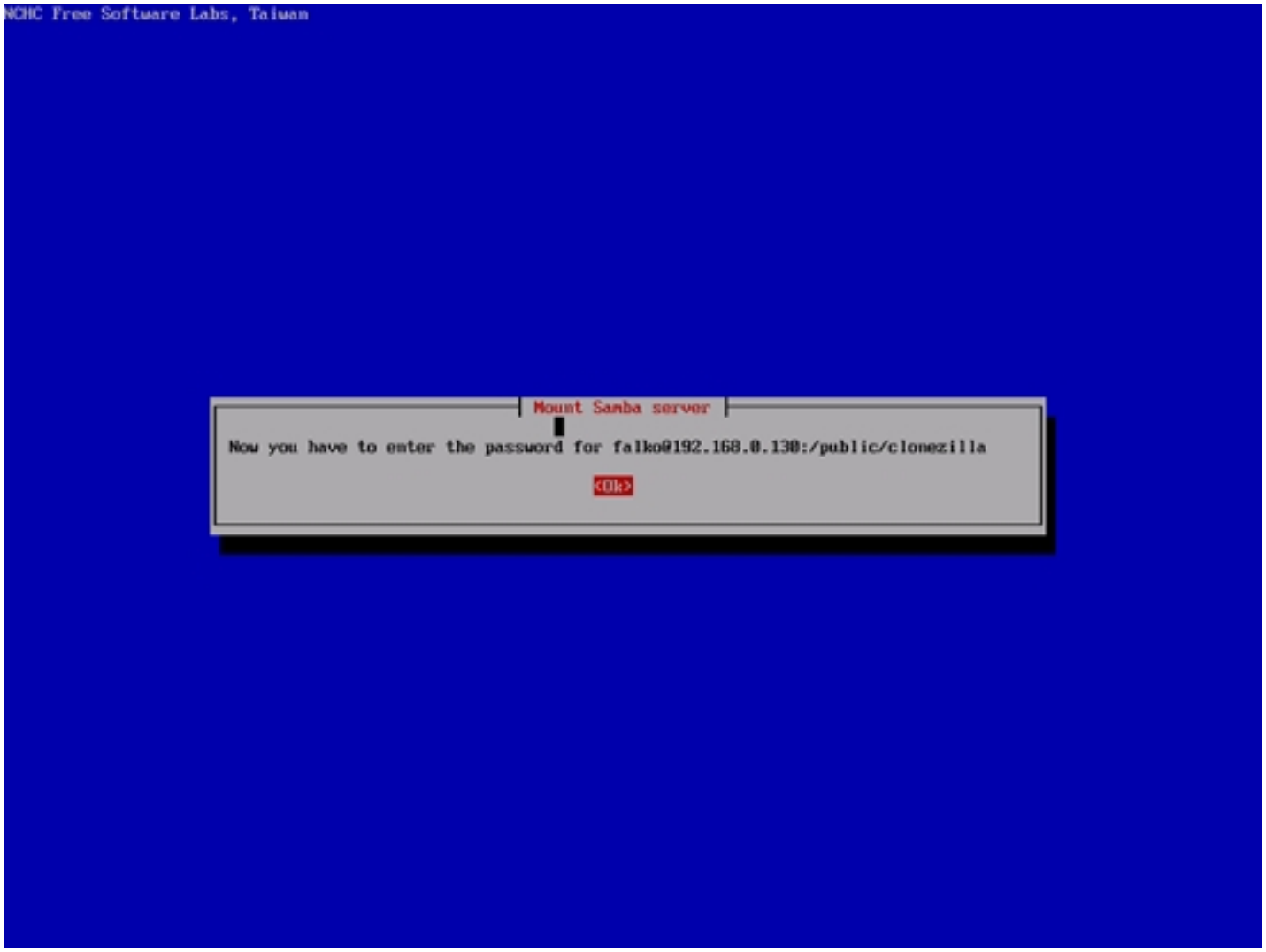

... and type in your Samba password:

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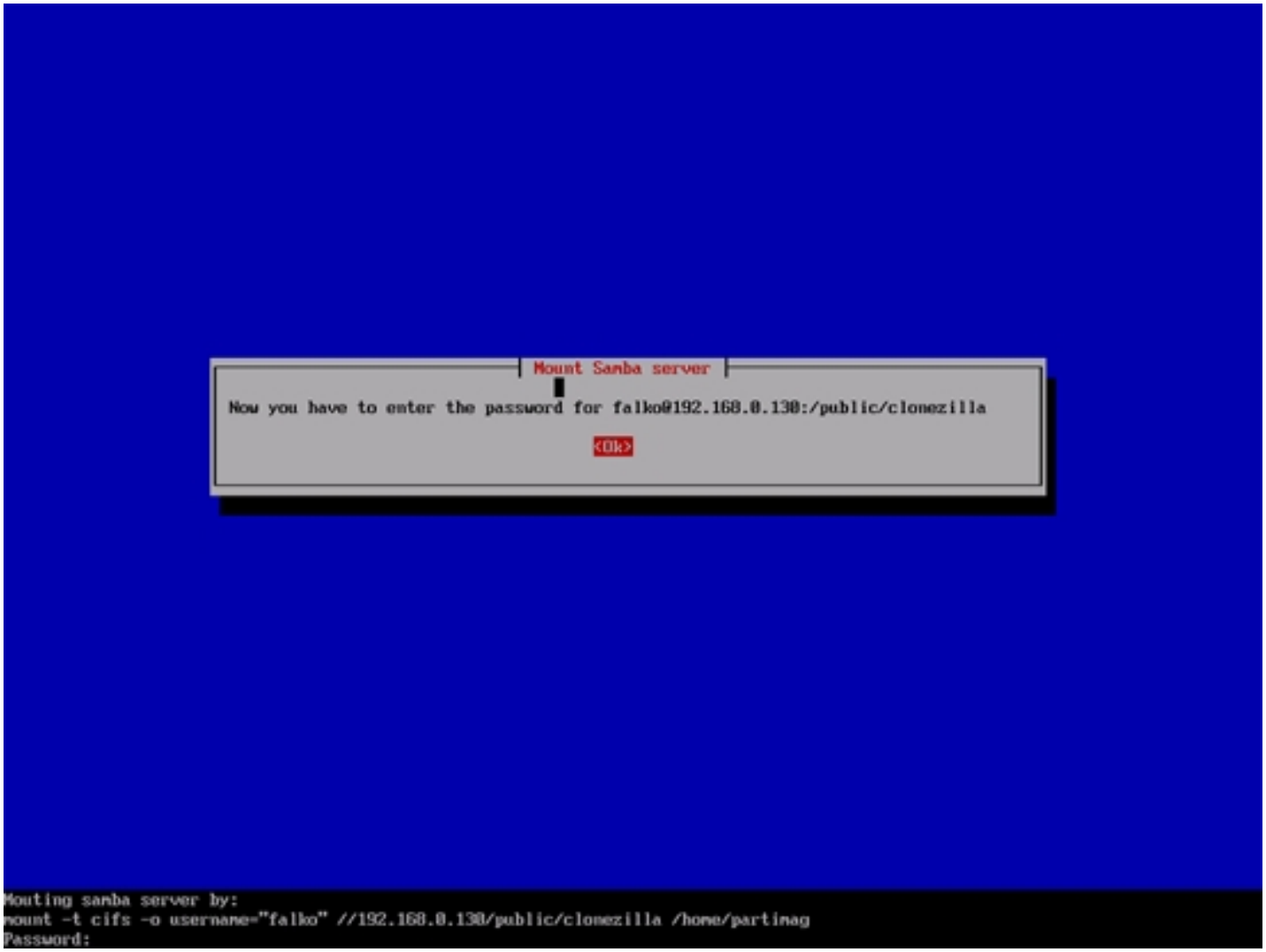

Press *ENTER*...

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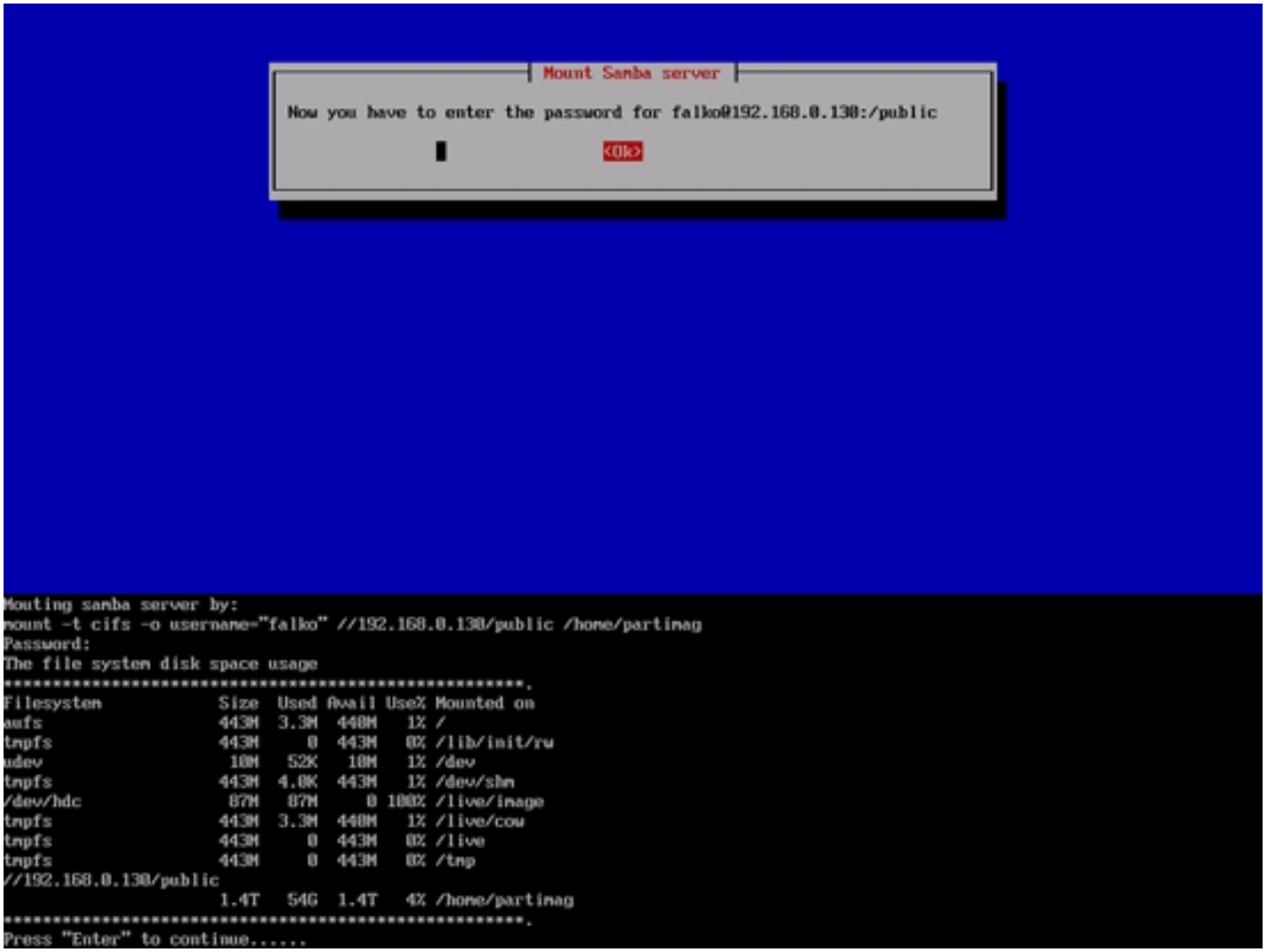

... and select *savedisk* if you want to create an image of your full hard drive:

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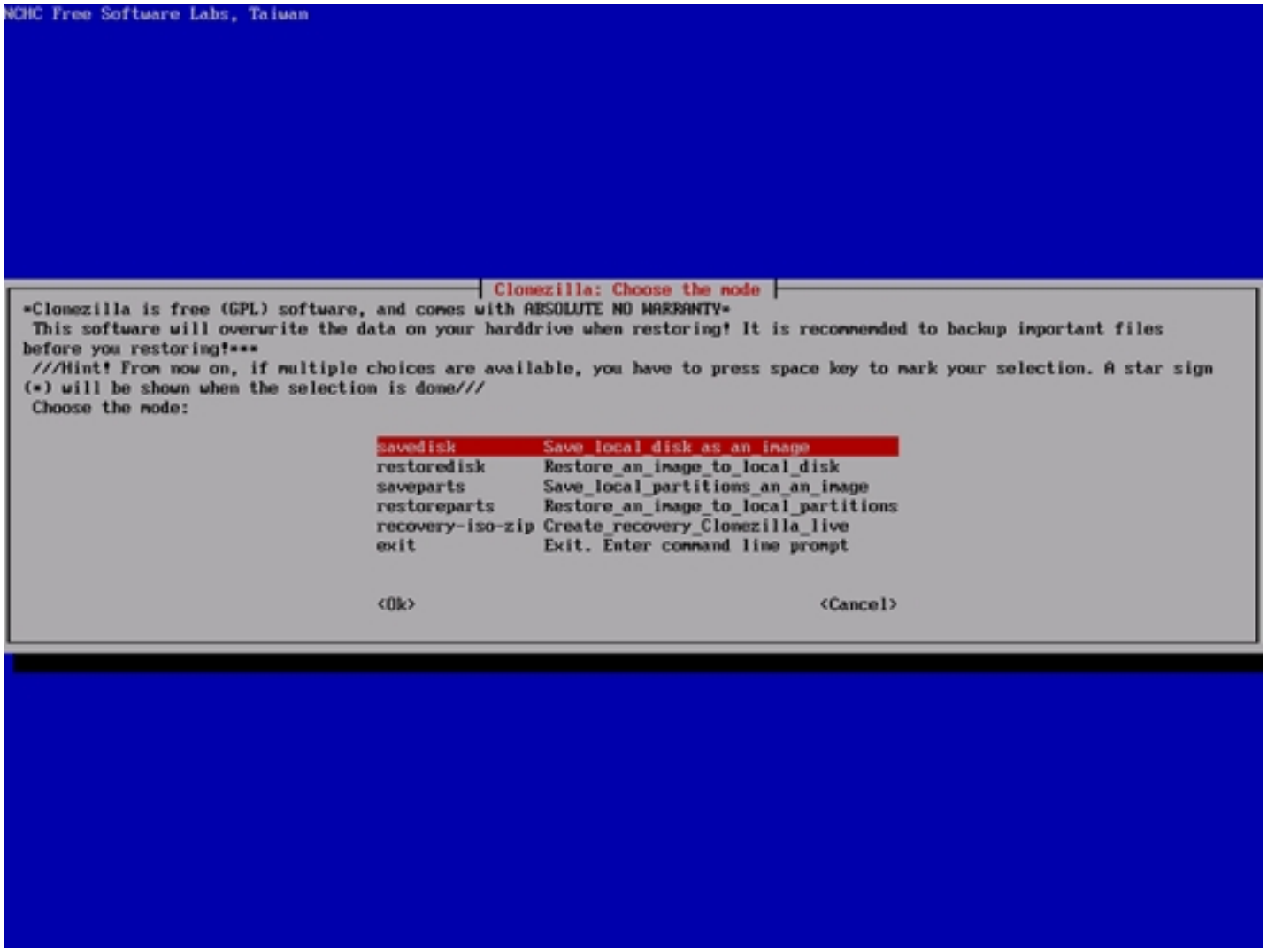

You can now select additional parameters for the image creation process. Usually the default values should work:

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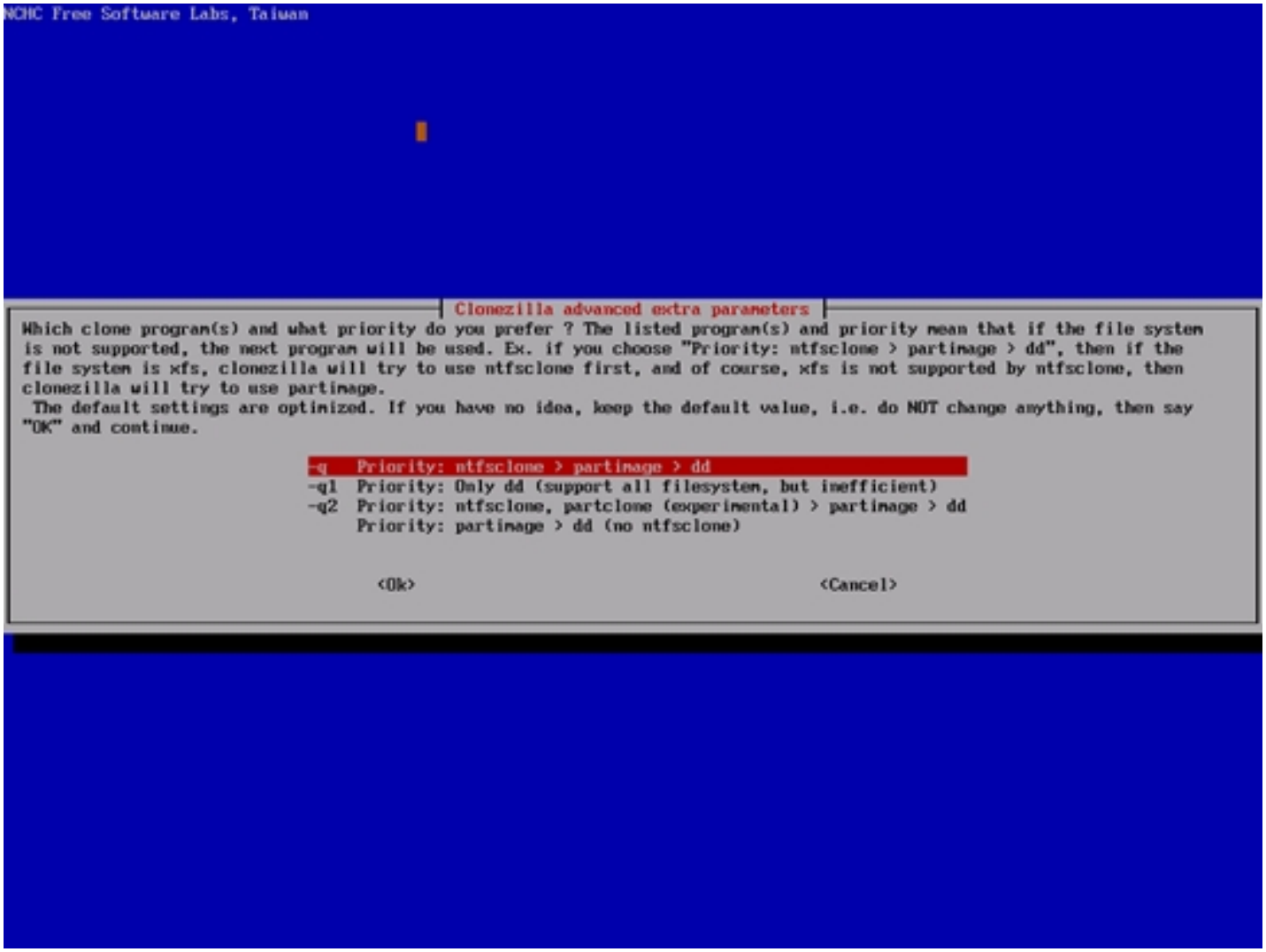

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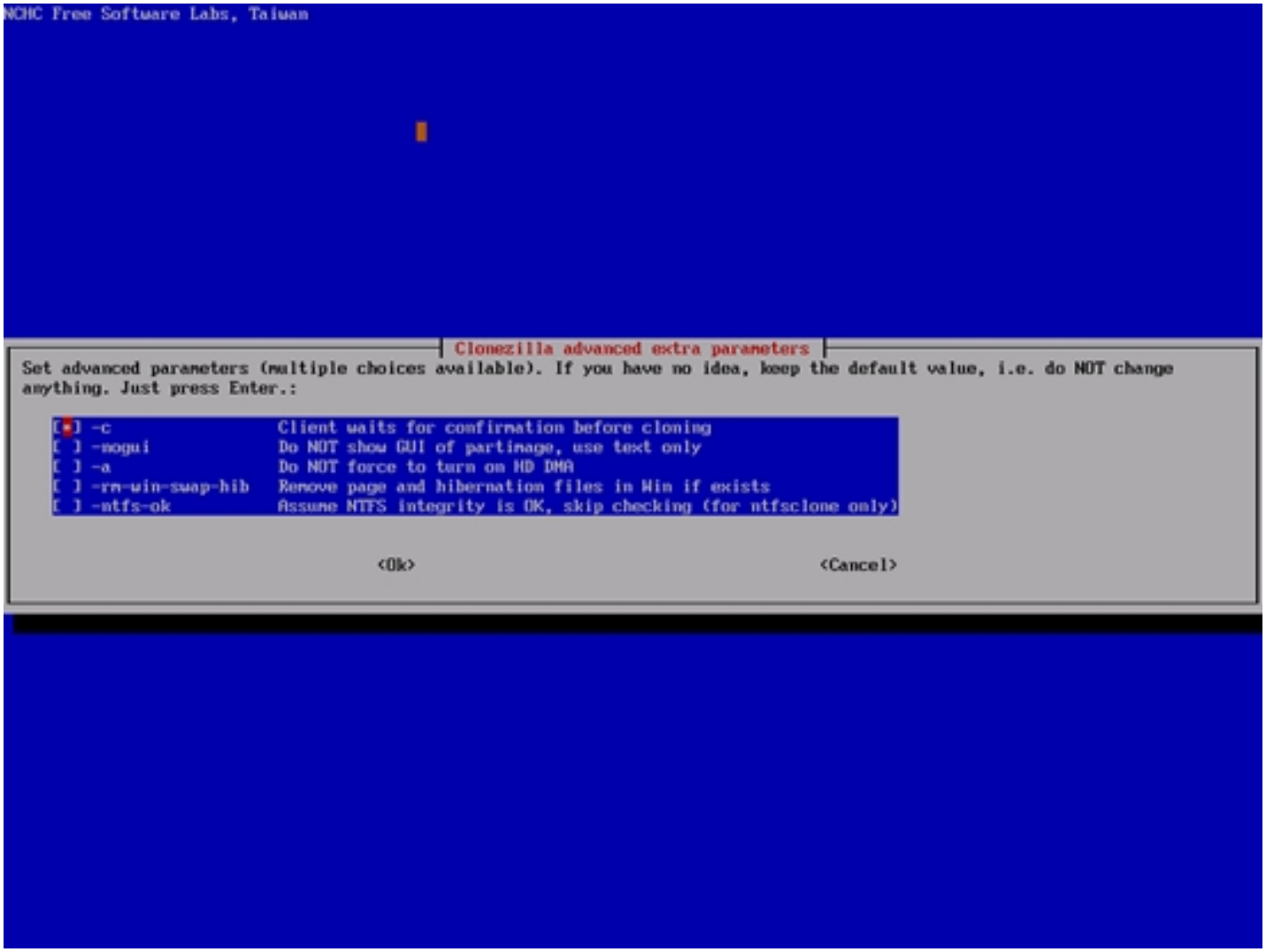

Choose the compression level of the image on the Samba server. *gzip* is the default and should usually work fine:

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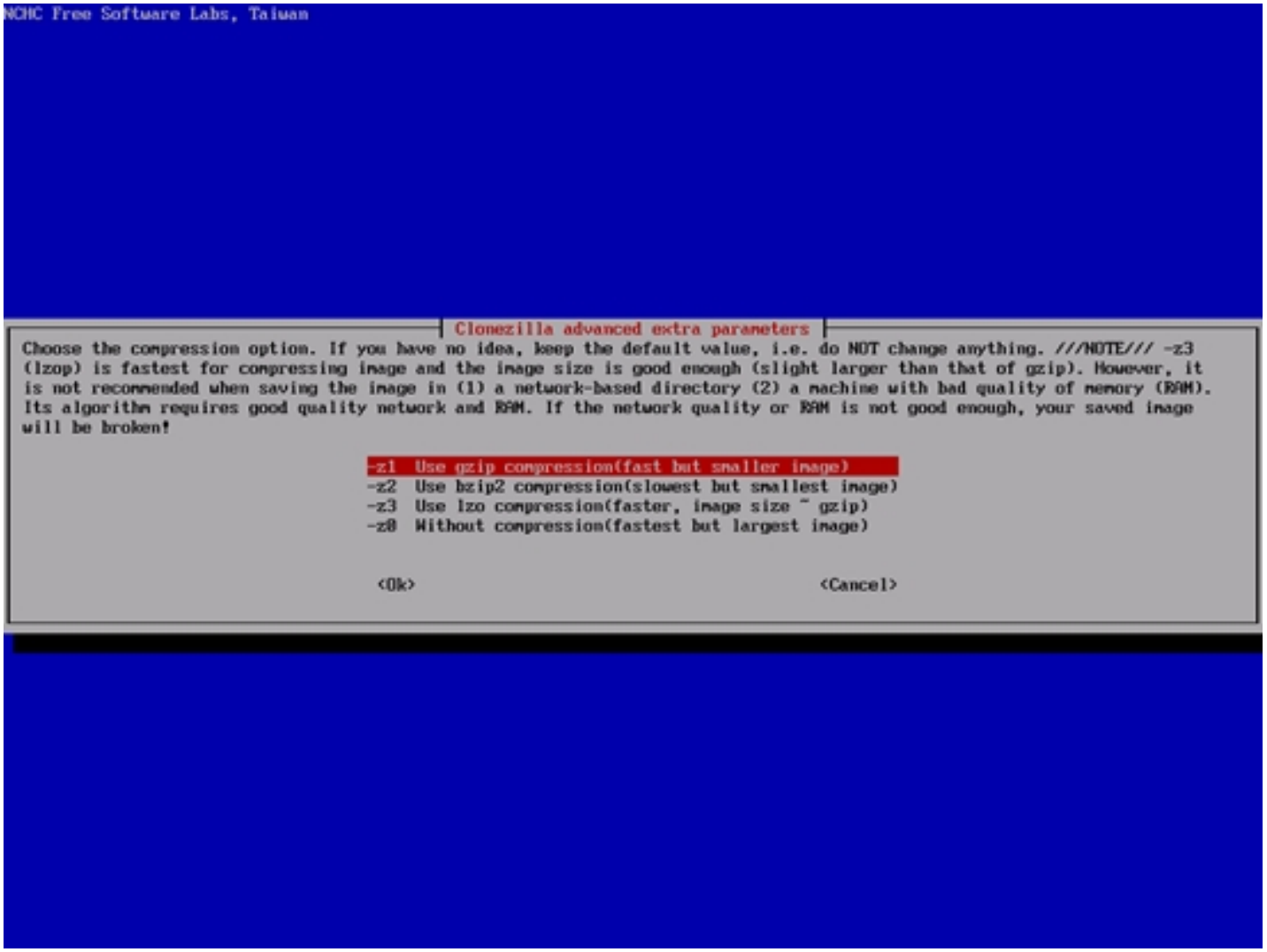

You can split your image into multiple files. 2000MB is the default max. value for such a file - if the image is bigger, a further file is created:

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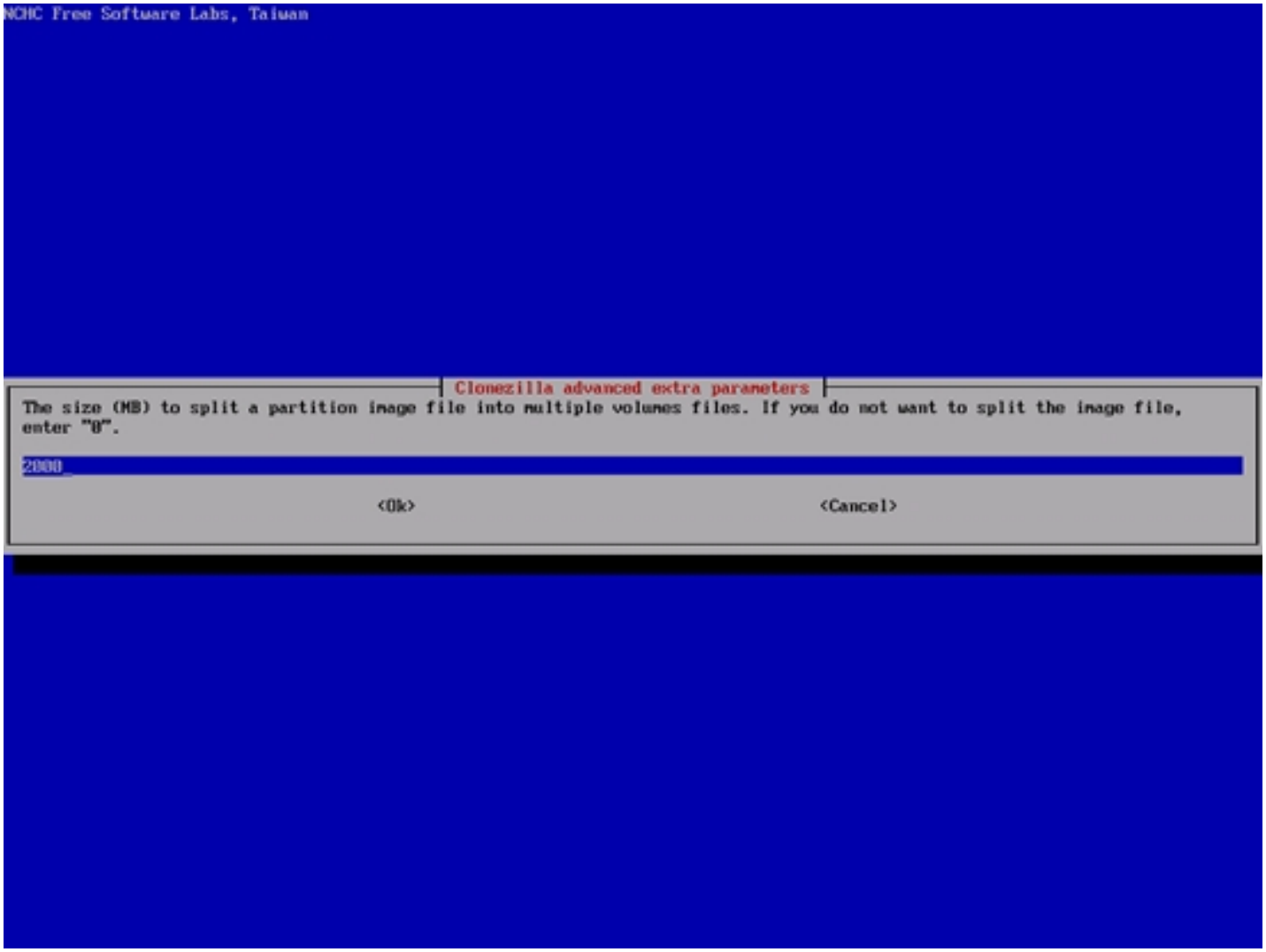

You can fill in a name for the image (or leave the default value as is):

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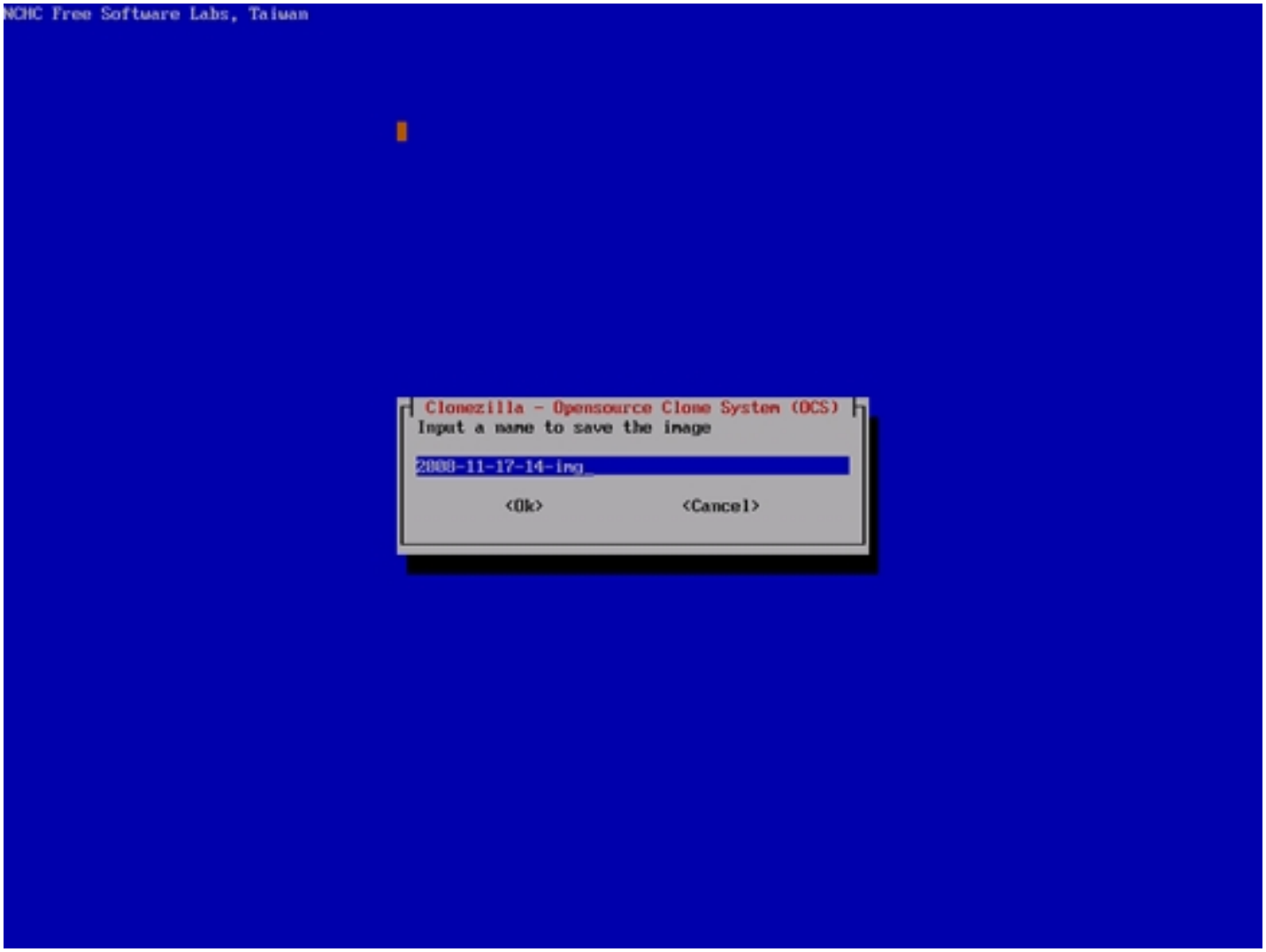

Select the hard drive of which you want to create an image:

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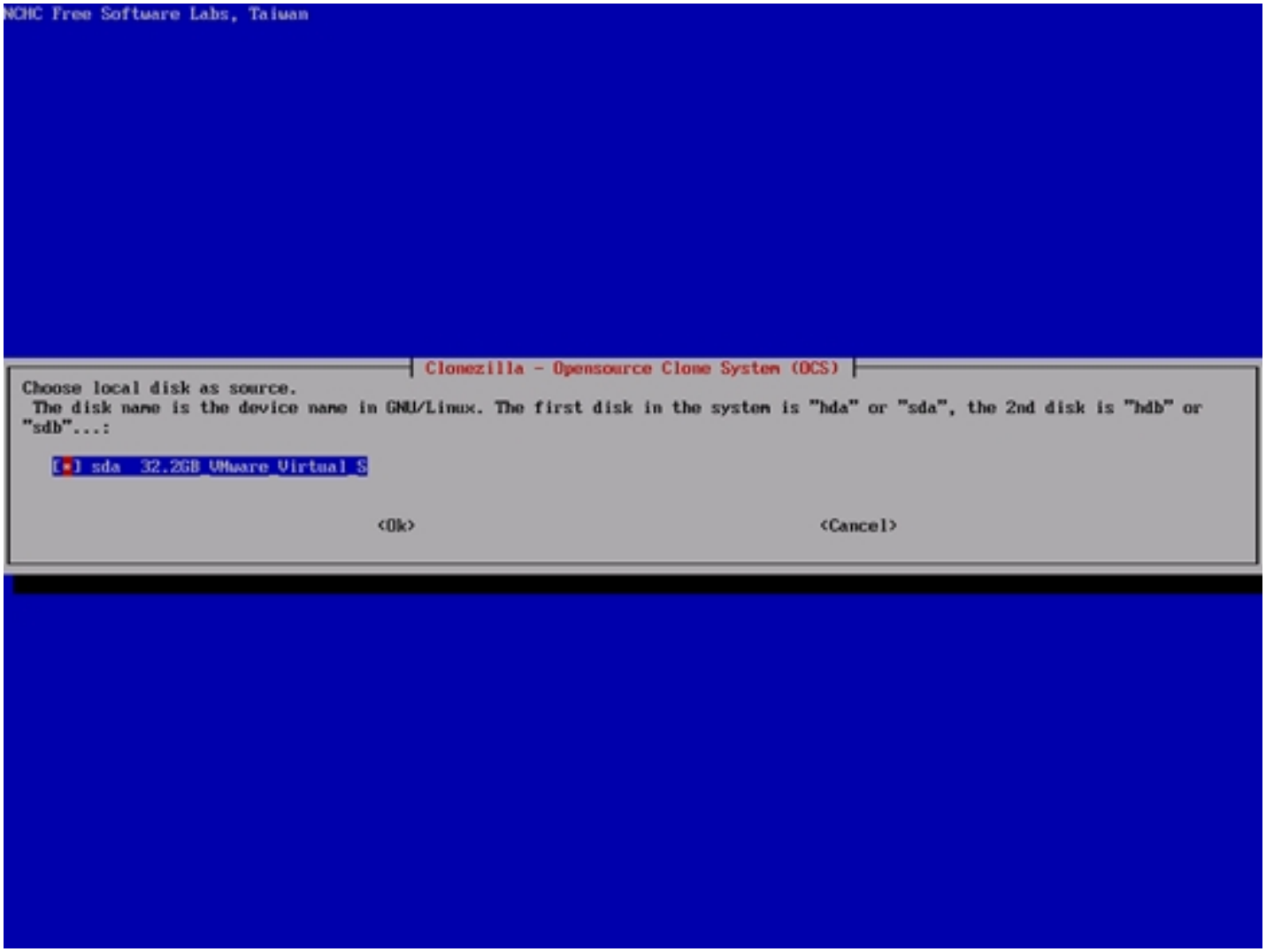

Press *ENTER*...

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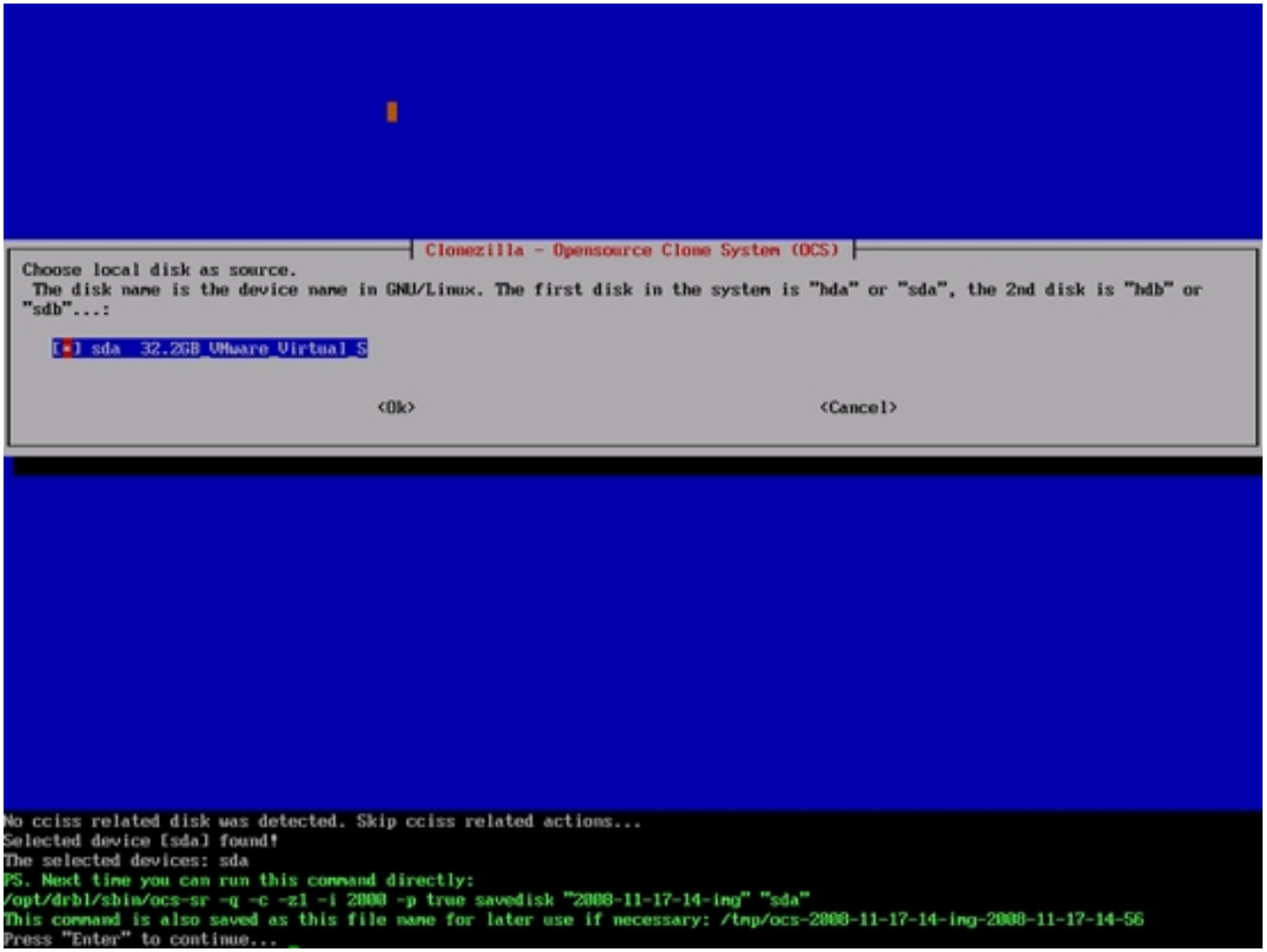

... and then *y* to start creating the image:

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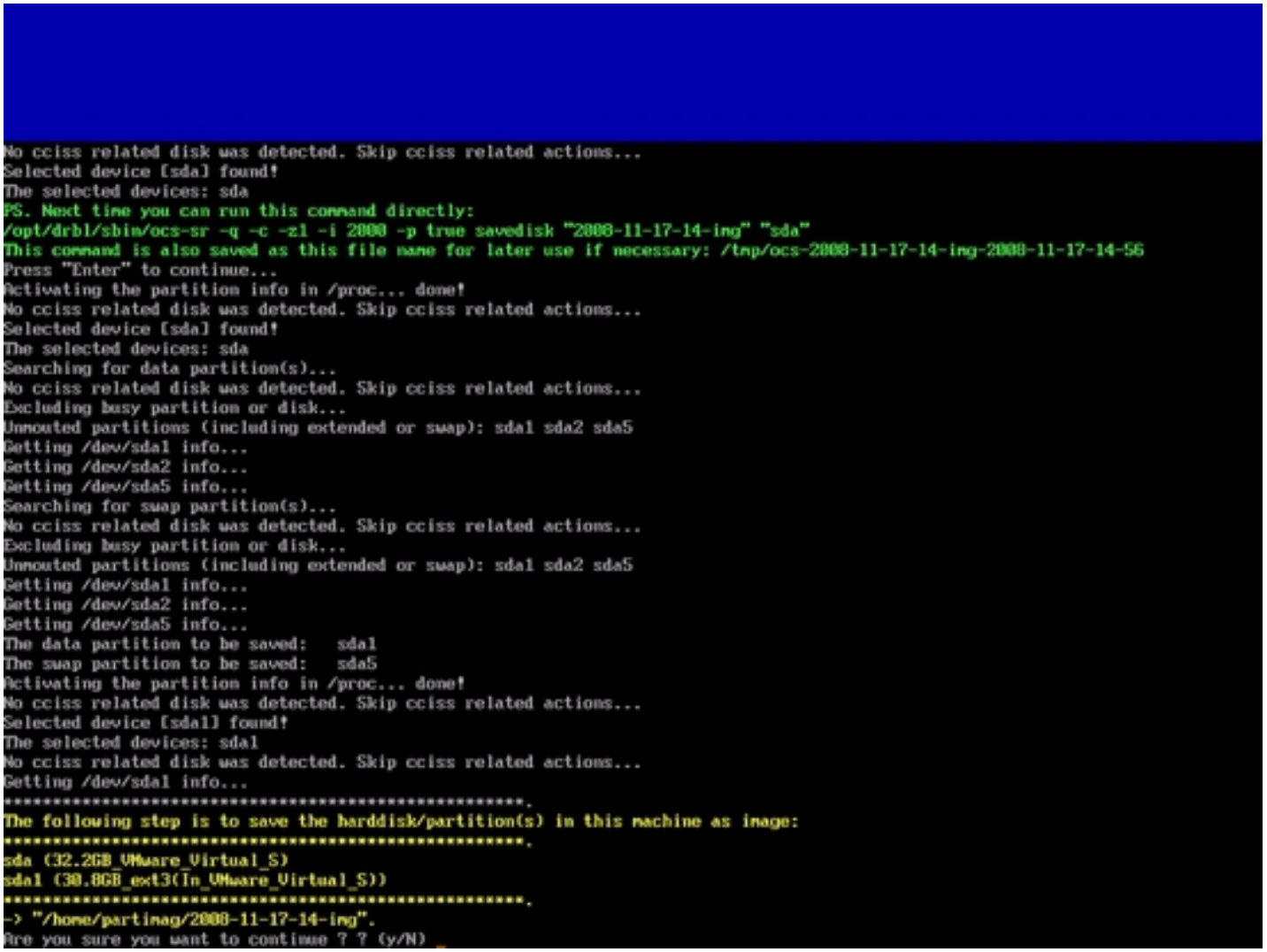

After the image has been created (please be patient, this can take quite some time), press *ENTER*...

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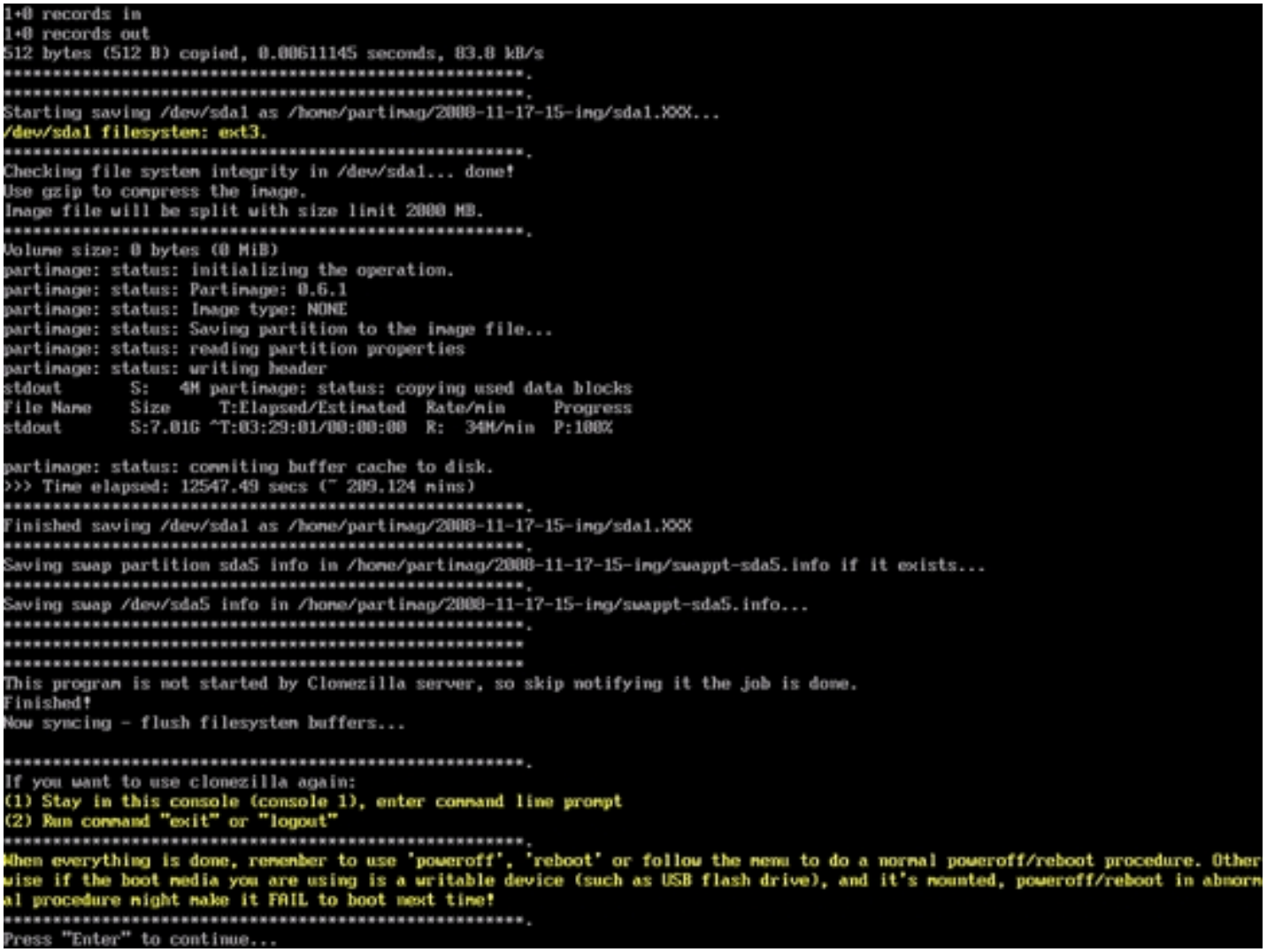

... and then type `0` to shut down the CloneZilla Live system. Don't forget to remove the CloneZilla Live CD from the CD drive.

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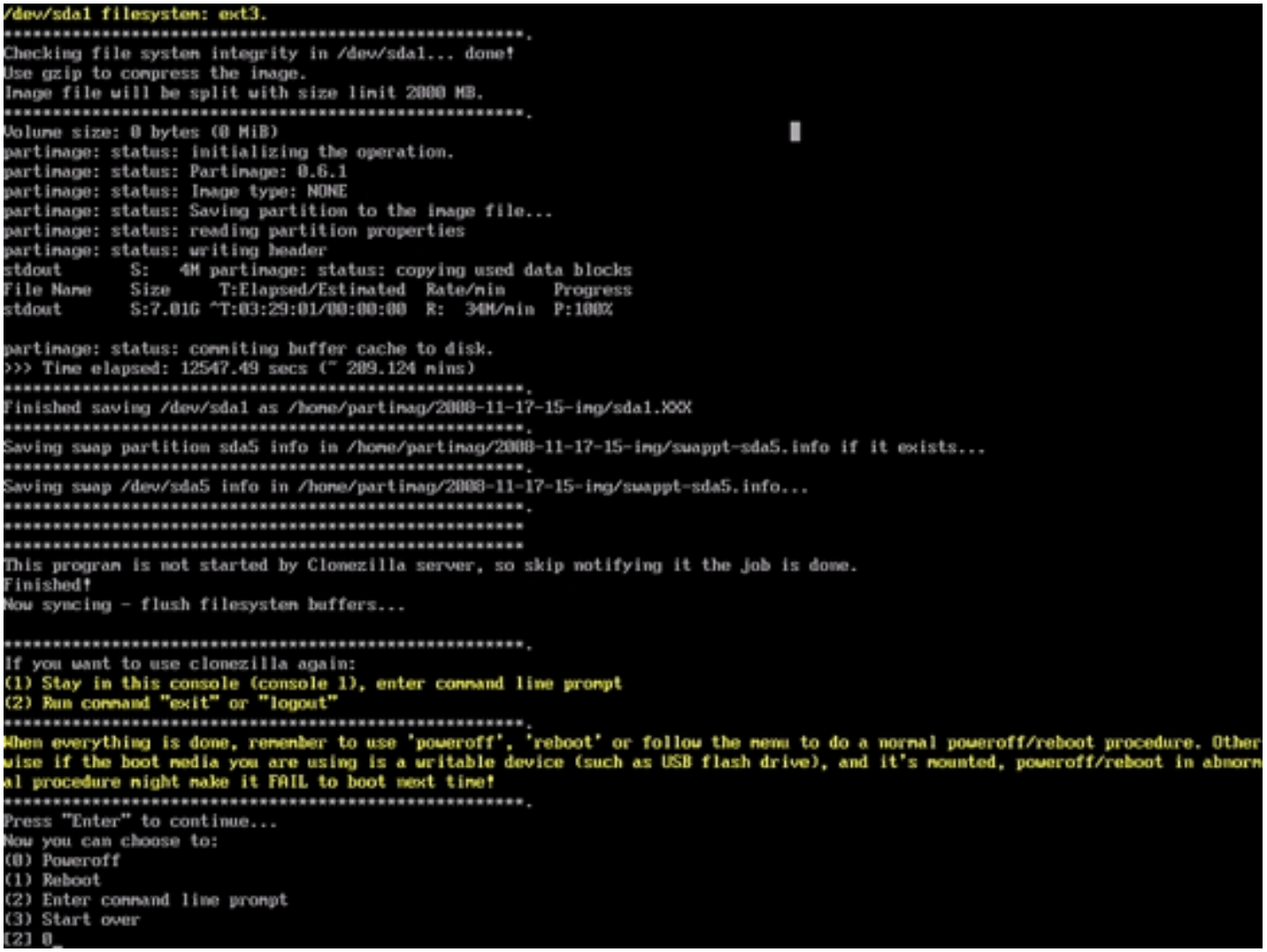

You now have an image of your hard drive on the Samba server, and if your system should crash, you can restore it from that image.

3 Restoring A System From An Image

If you want to restore a system from an image, boot the system from the CloneZilla Live CD. The procedure is the same as in the first 14 screenshots of the previous chapter, i.e., select Samba, fill in your user name and password, etc. When you see the `Choose the mode` screen, don't select `savedisk`, but `restoredisk` instead:

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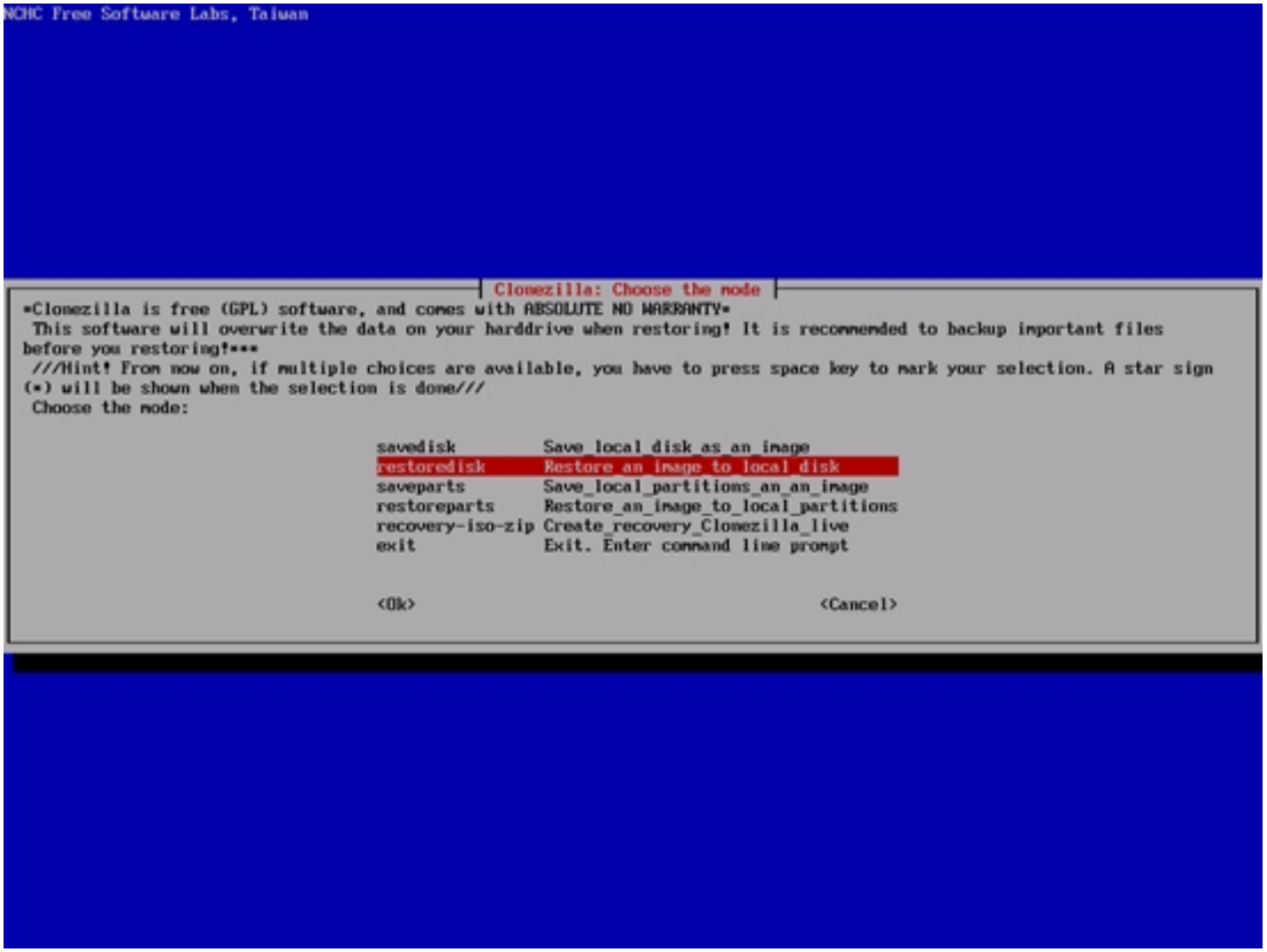

You can now select additional parameters to pass to the restoration process - usually the default values are fine:

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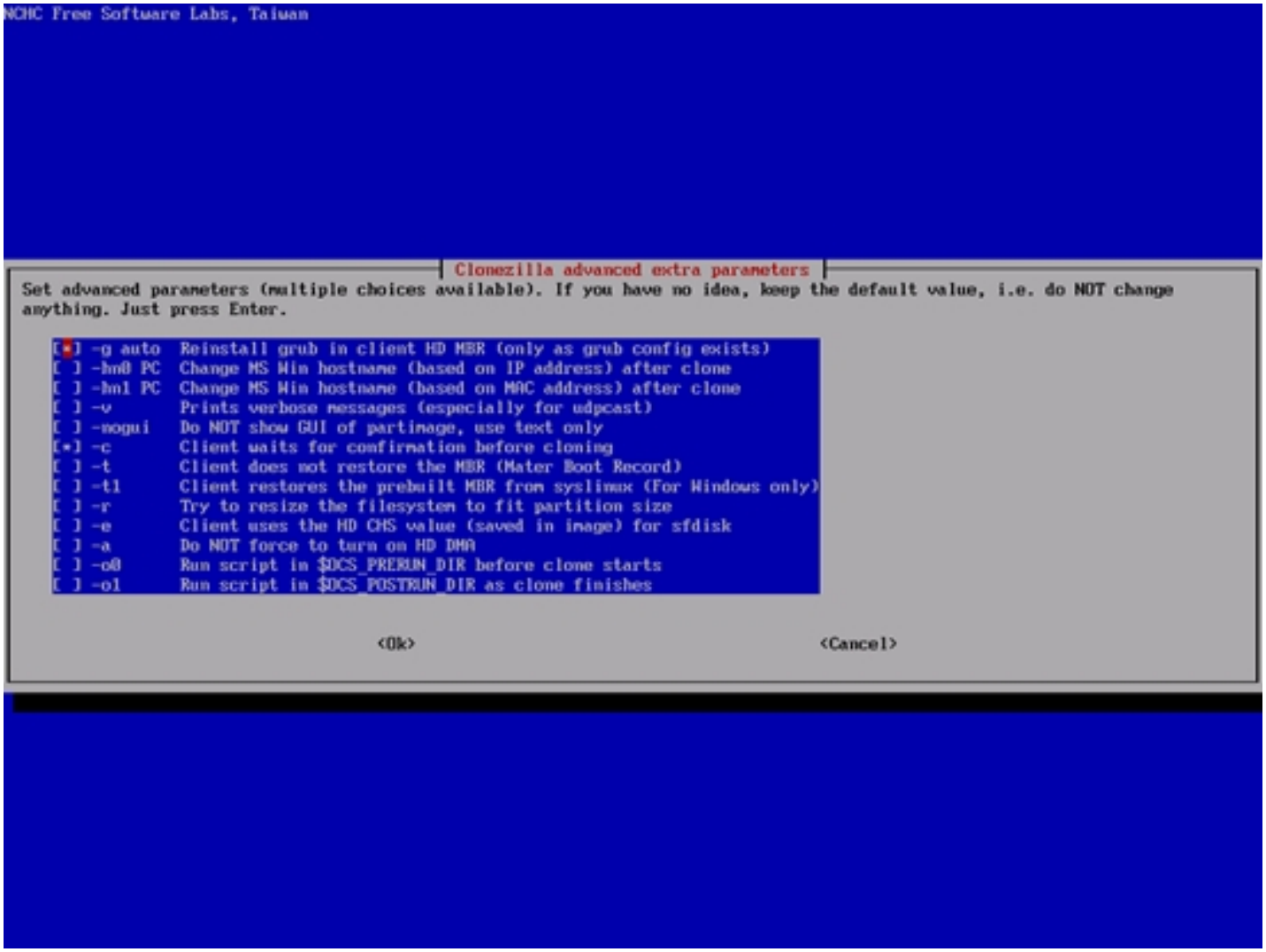
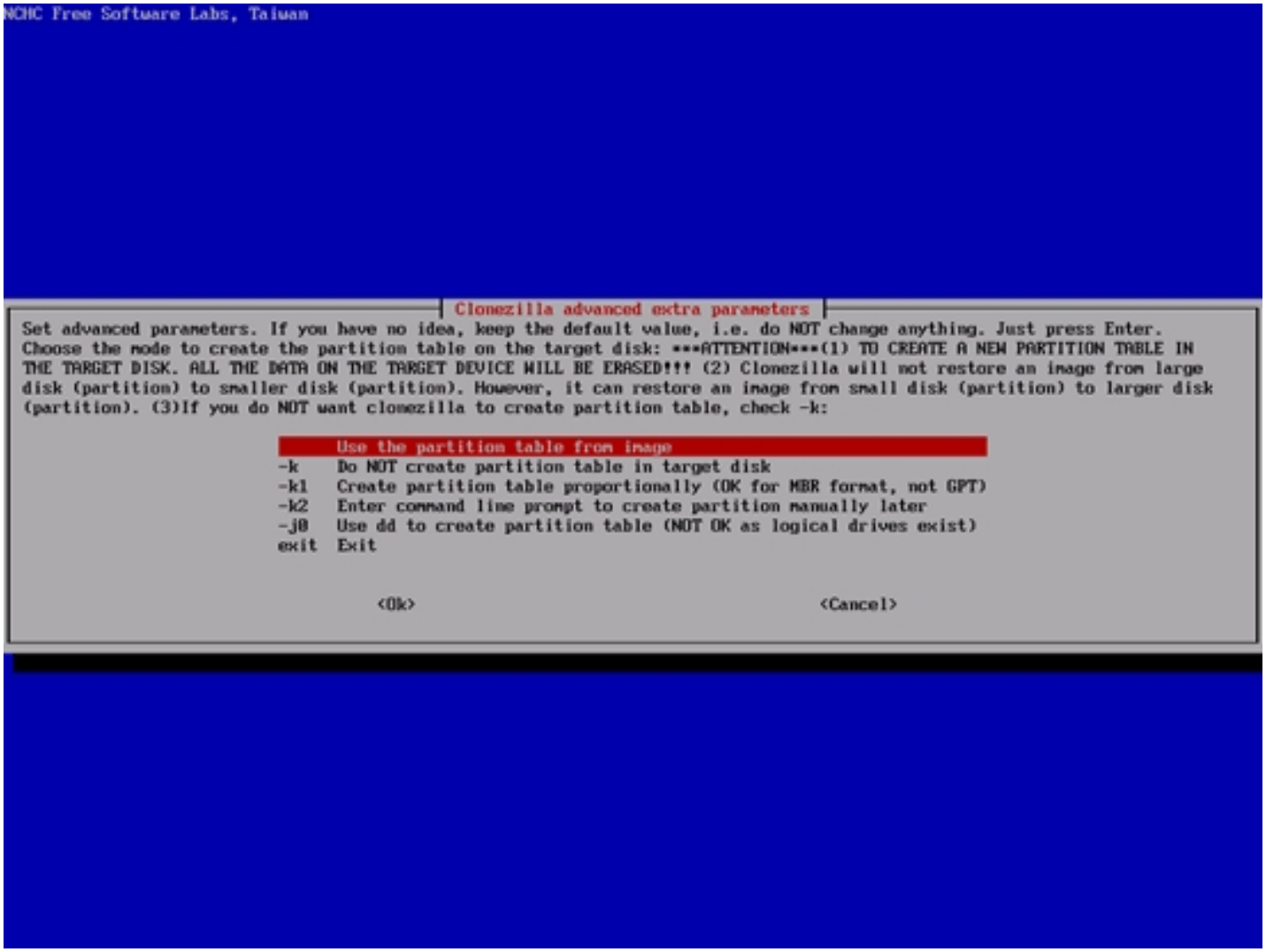


Select *Use the partition table from image*:



Select the image that you want to restore:

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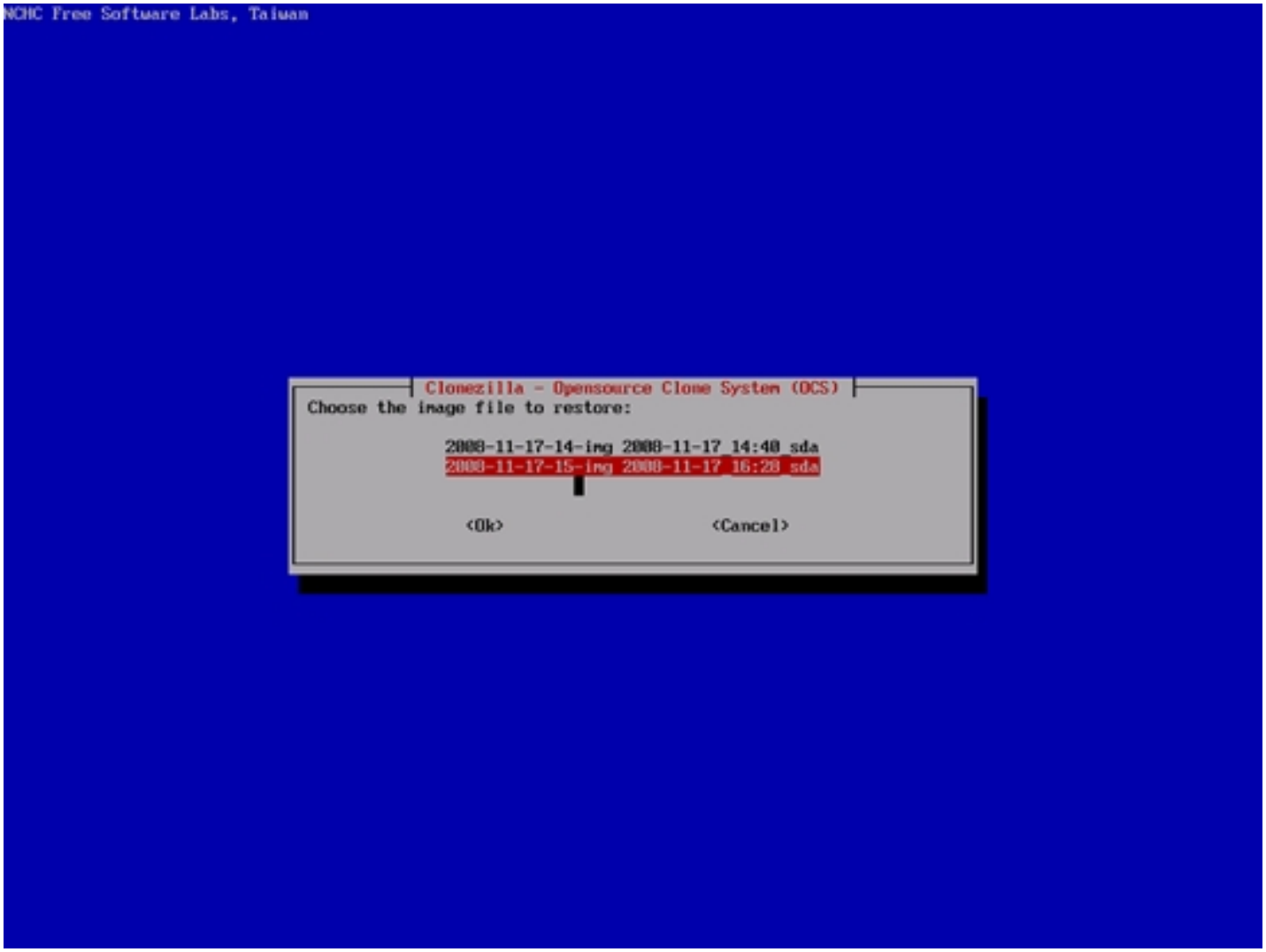

Select the hard drive on which you want to restore the image:

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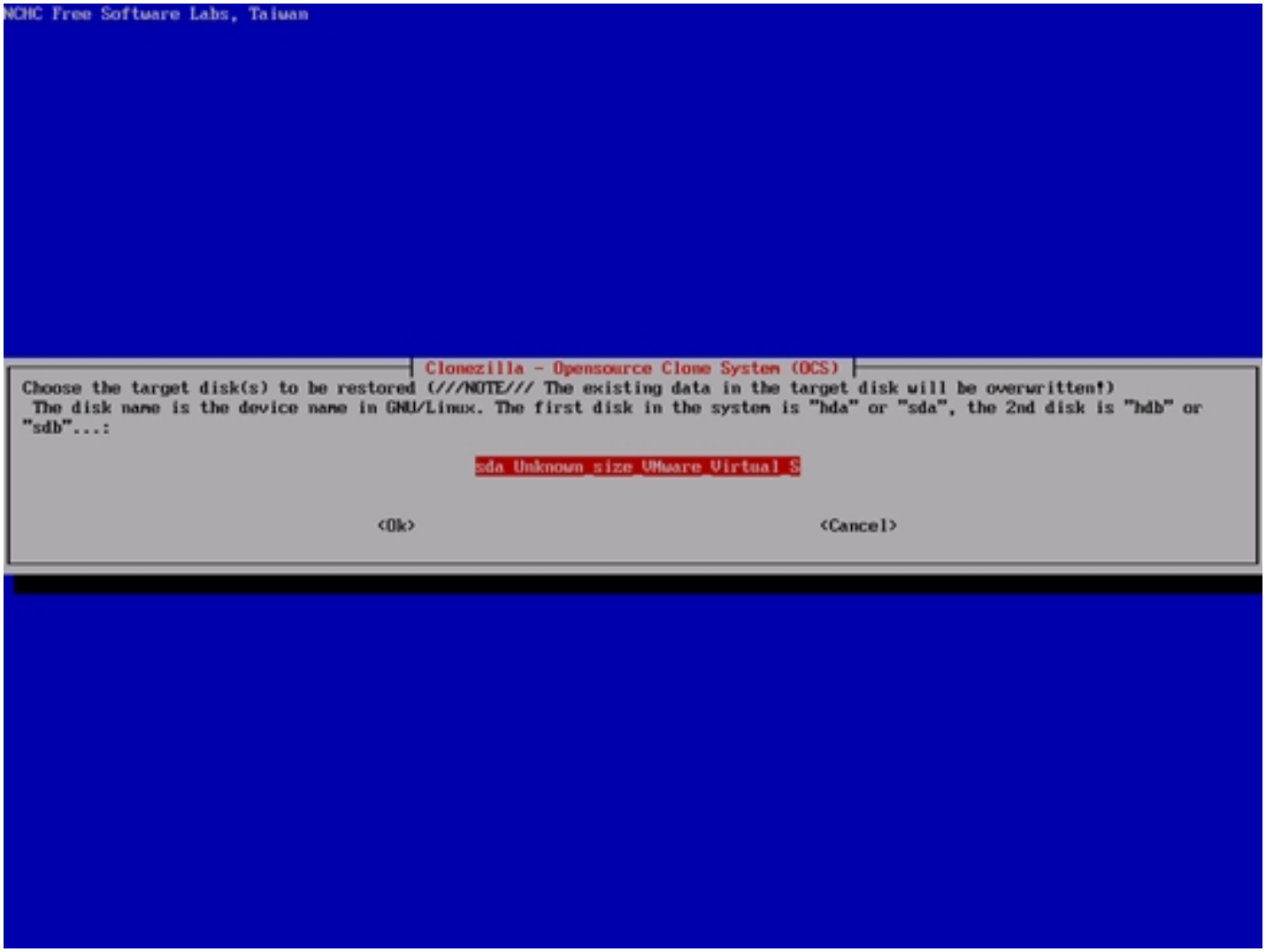
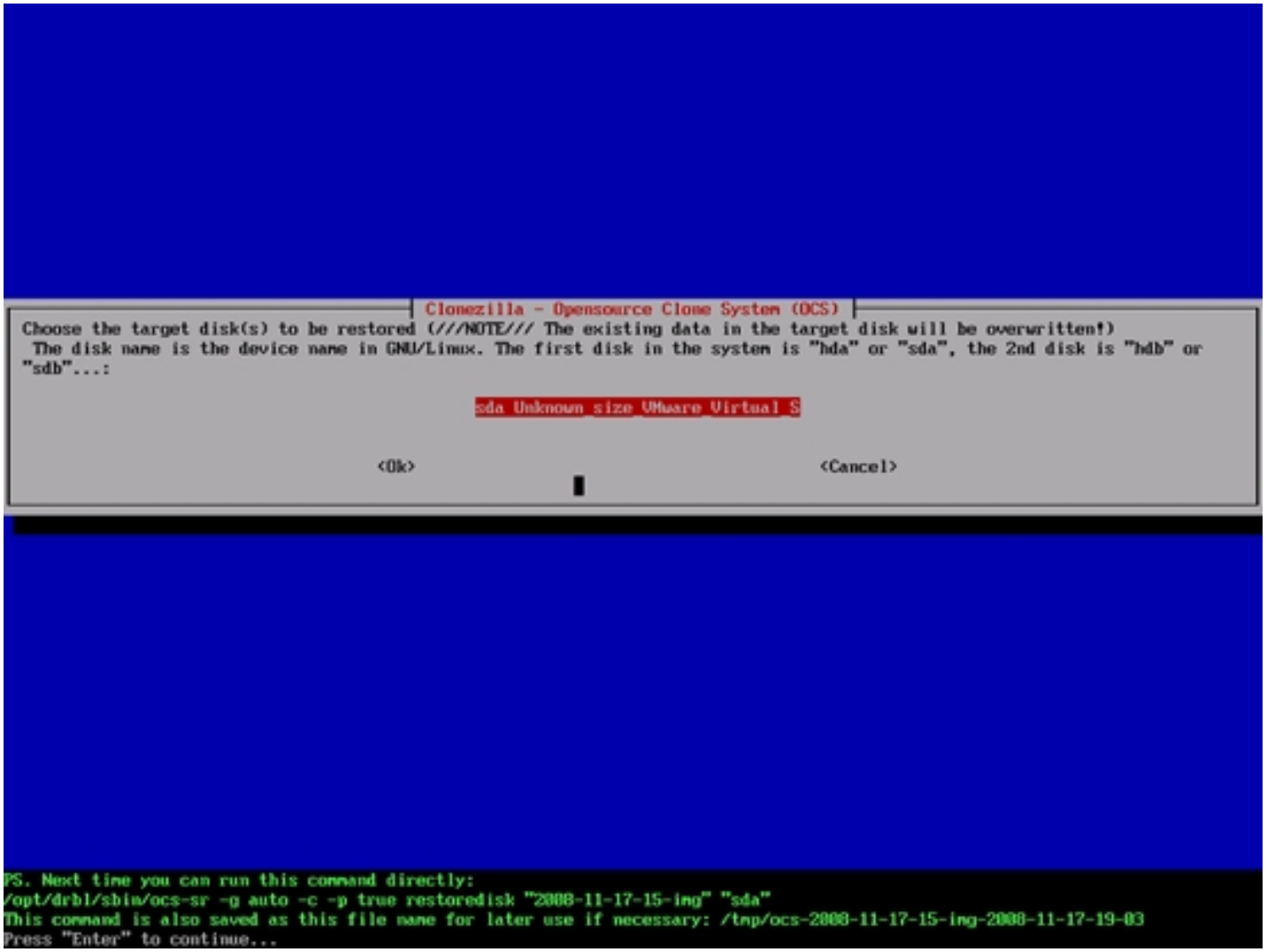


Then press *ENTER*...



... and type *y* twice to confirm that you want to start the restoration process (this will destroy all data that is on the hard drive that is to be restored):

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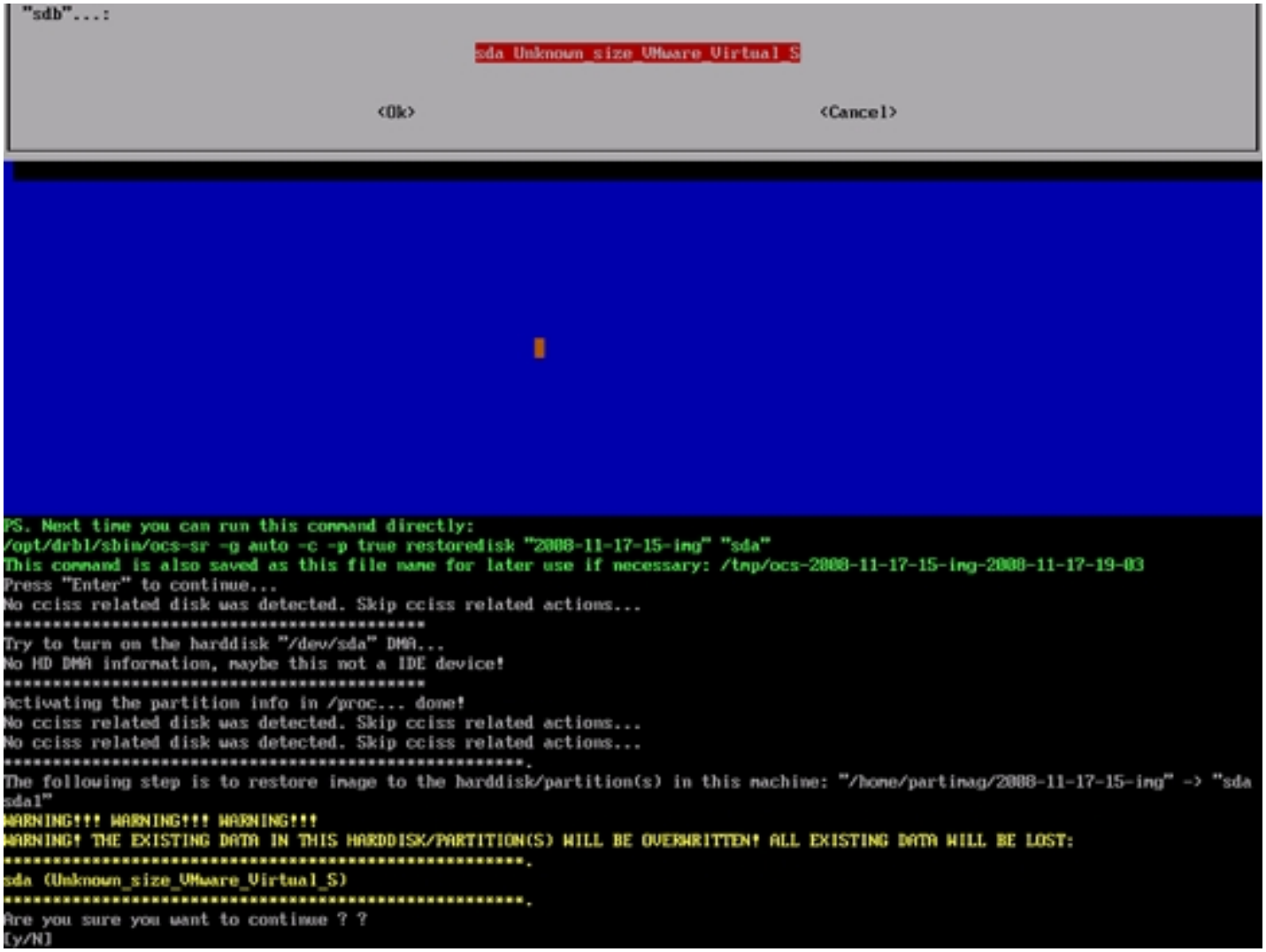

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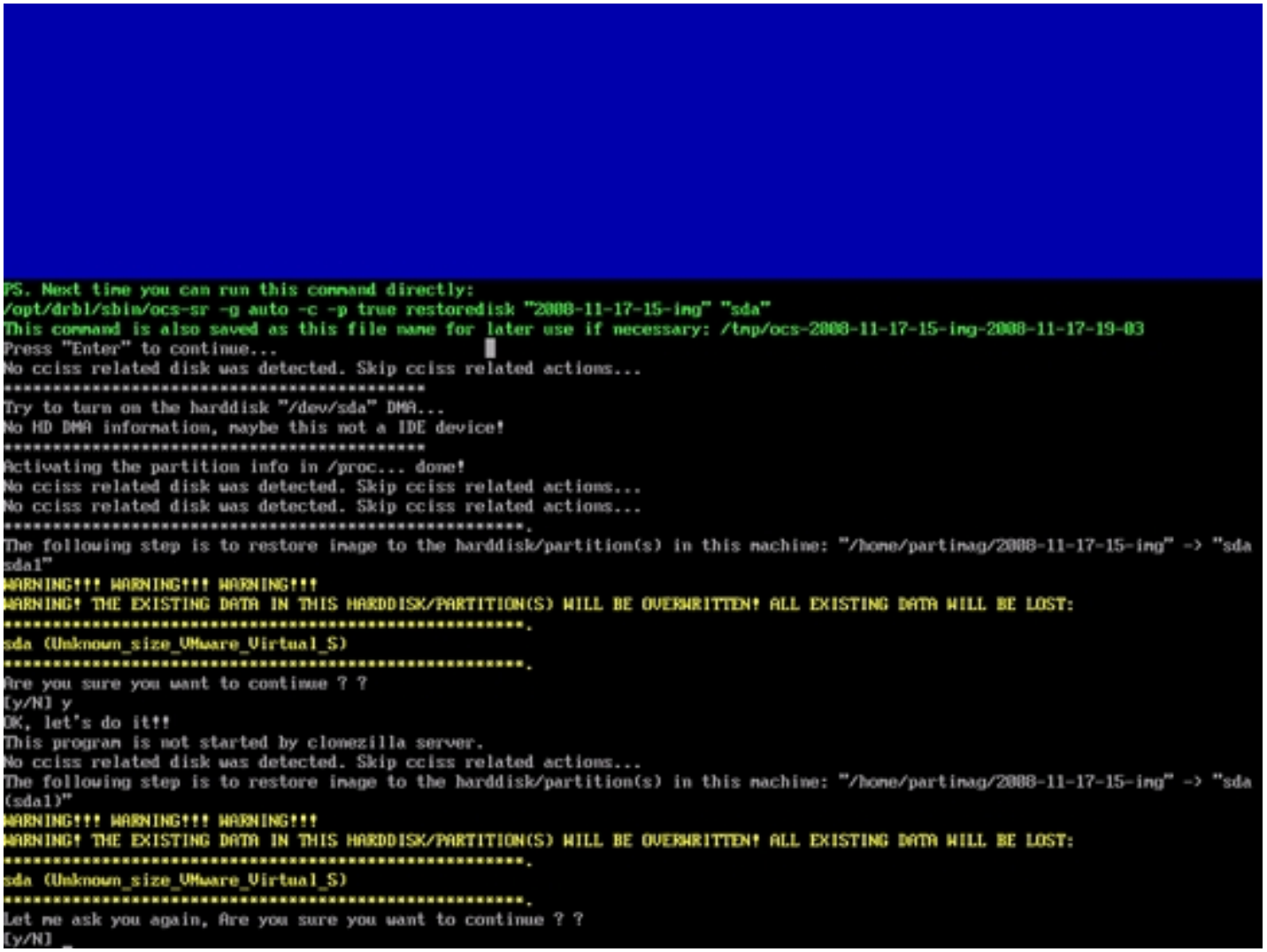

The hard drive is now being restored. This can take a few minutes:

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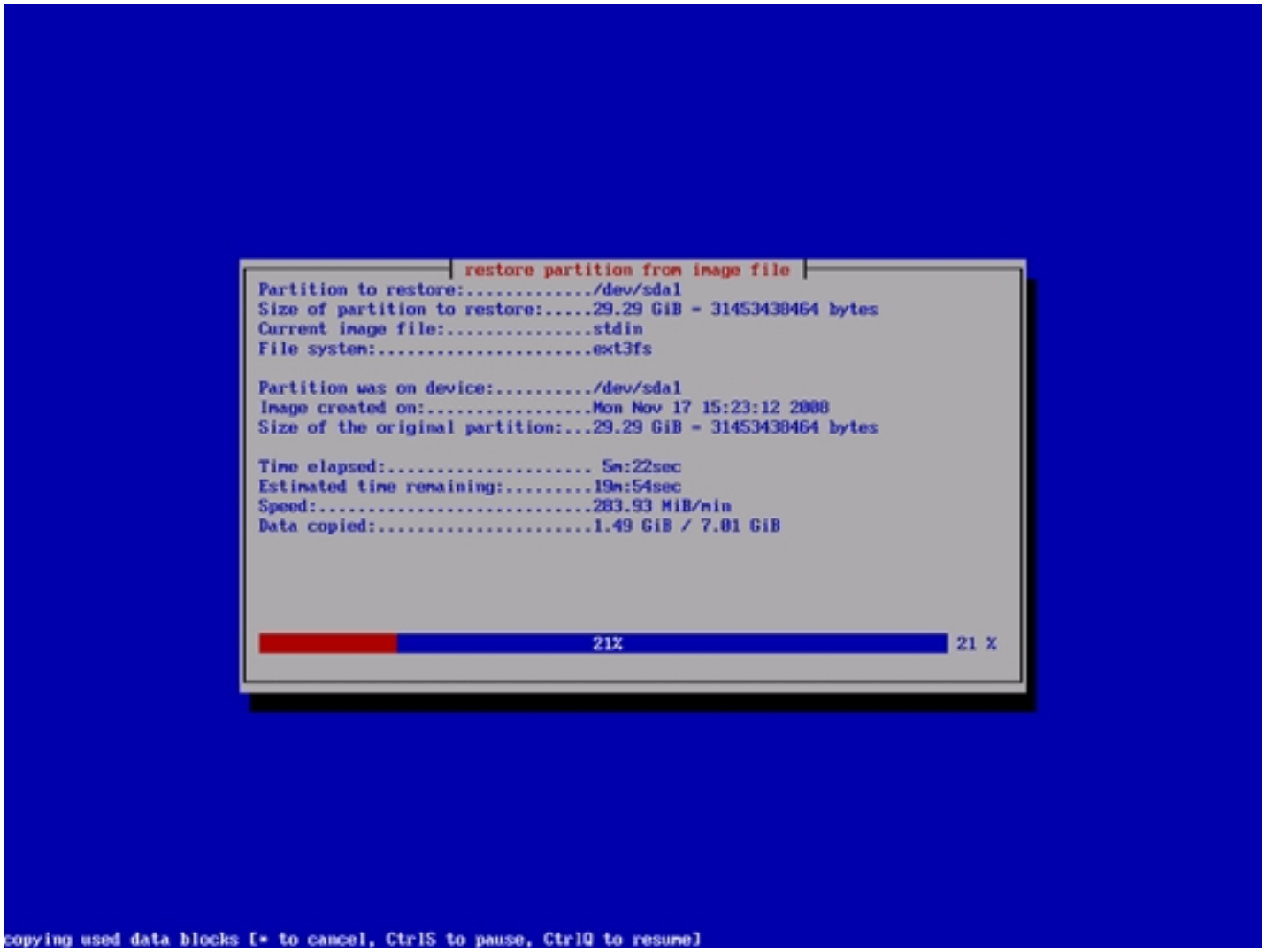

Afterwards press *ENTER*...

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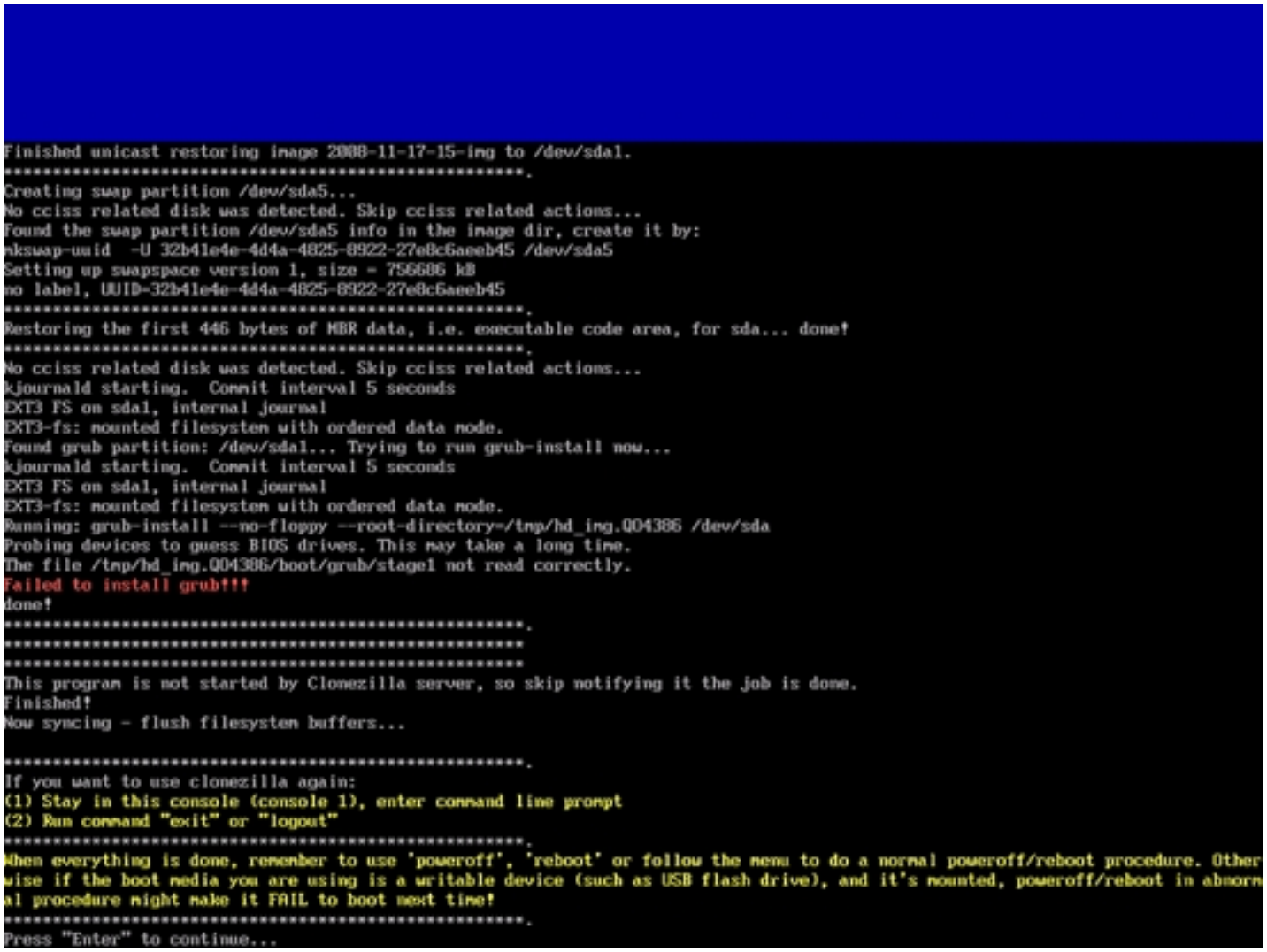

... and type `0` to shut down the CloneZilla system.

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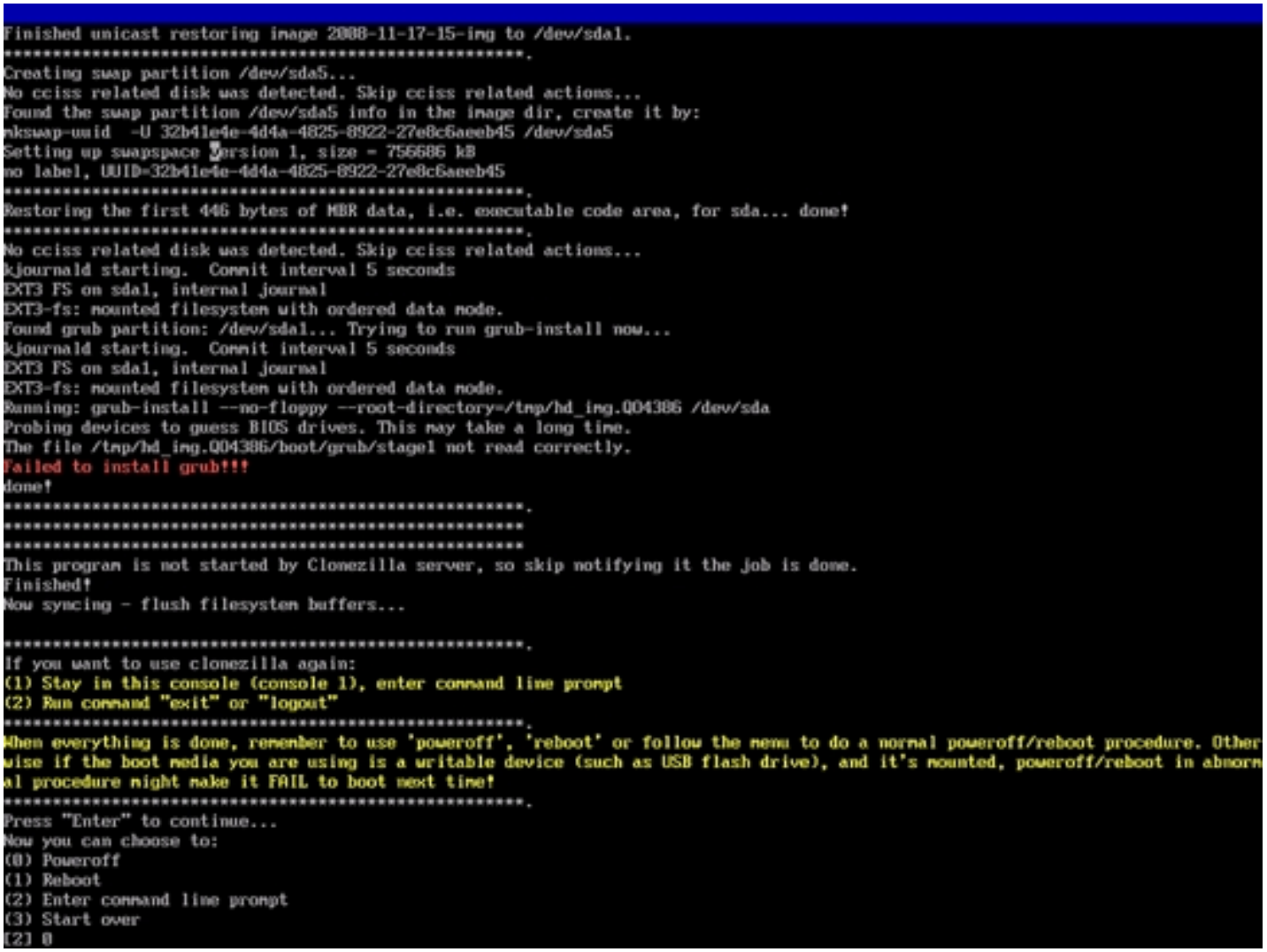

Remove the CloneZilla Live CD and boot from the hard drive. If all goes well, it should boot the system that you have just restored.

4 Links

- CloneZilla: **http://clonezilla.org/**

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