Here is the step-wise tutorial on cloning a Centos OS using open source software: CLONEZILLA

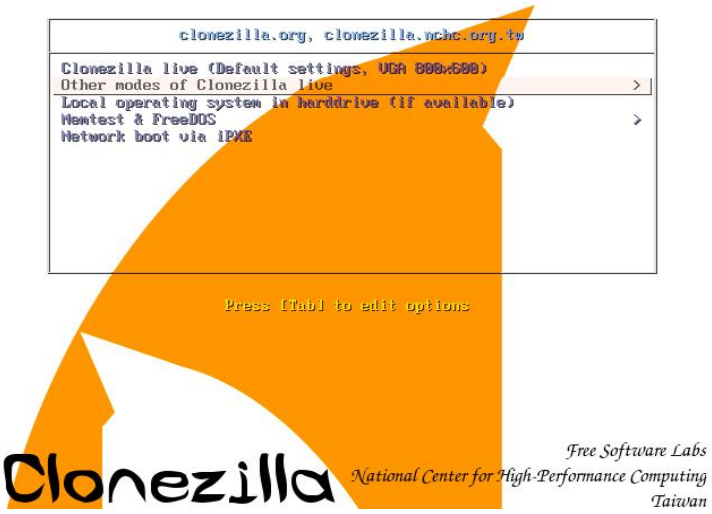
In this example, the machine has 1 disk (8 GB), we want to clone it to an external disk (16 GB). This is a normal case when you buy a new disk to replace old disk on your machine. Here since we use virtual machine to give this example, we use small disk size, i.e. 8 GB to 16 GB instead of modern disk size.

Steps:

1. Prepare Clonezilla Live
   You can download the iso file from the internet(http://clonezilla.org/downloads/stable/iso-zip-files.php) and burn it in a CD/DVD.

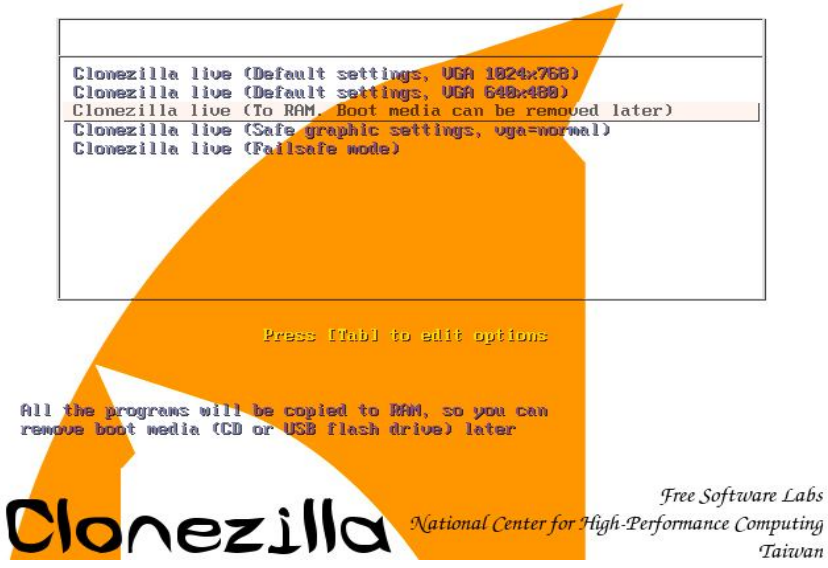
2. Boot your Clonezilla via CD/DVD
   Set CDROM in your first boot priority using the BIOS settings.

3. After booting Clonezilla Live from CD/DVD, you'll see a screen like this:



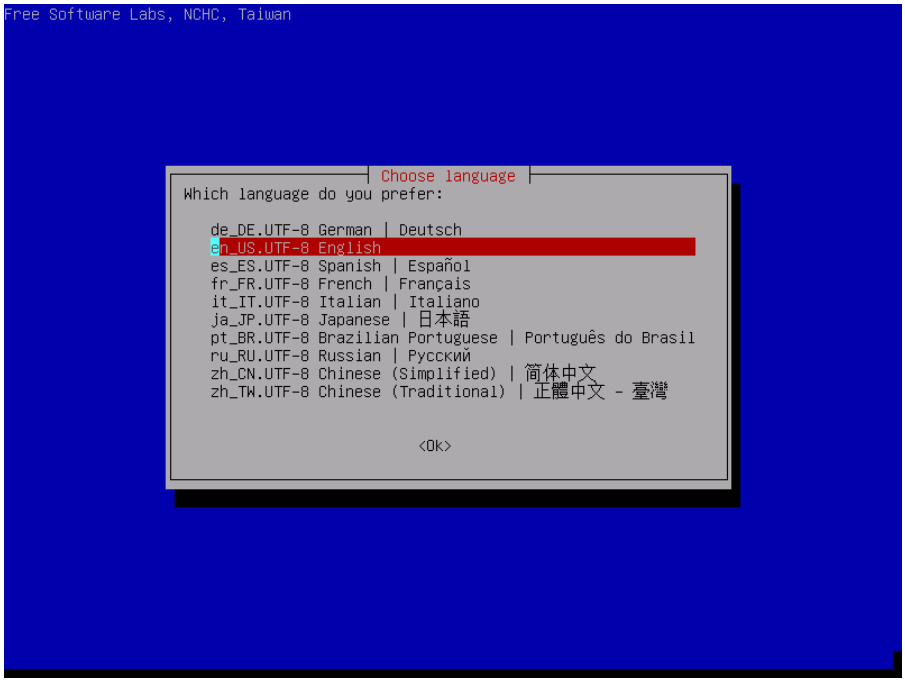
   Choose "Other modes of Clonezilla Live"

4. Now, you'll see a screen like this:



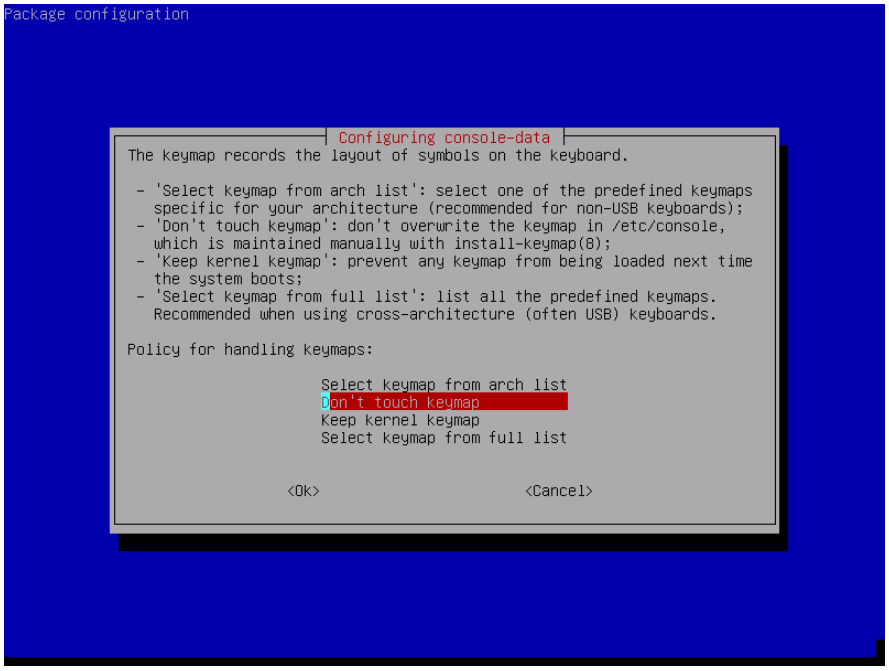
   Choose "To RAM. Boot media can be removed later" option in the boot menu.

5. After taking few minutes to copy the files to RAM, you'll be given a language selection menu.



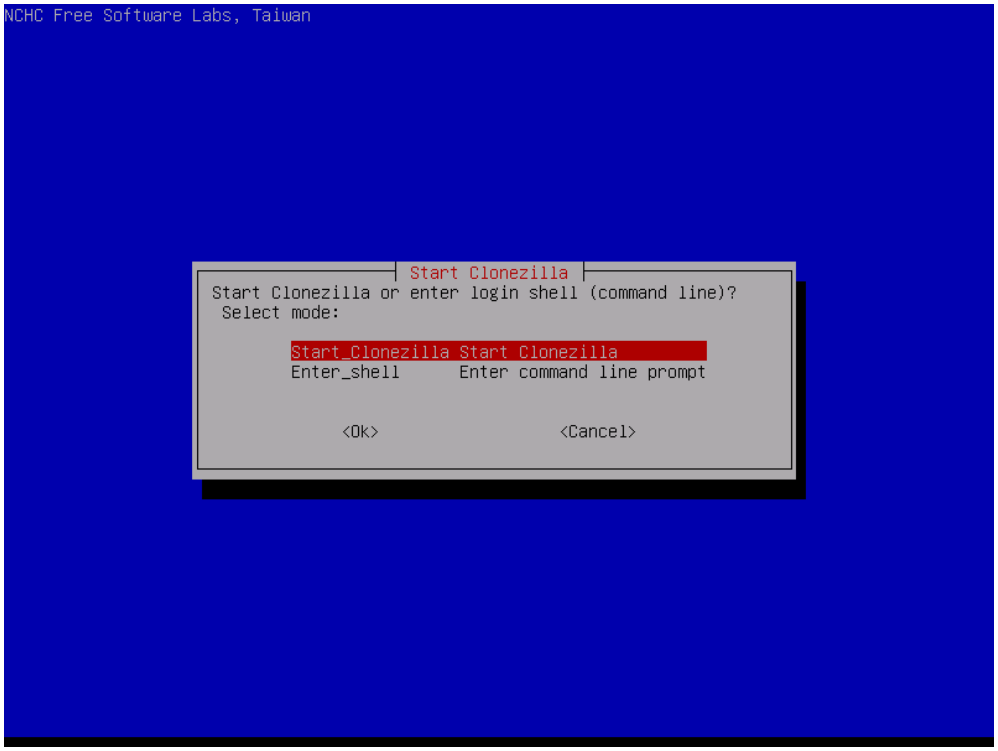
Choose your language in the language menu

6. Then, you'll see a menu for selecting the layout of your keyboard.

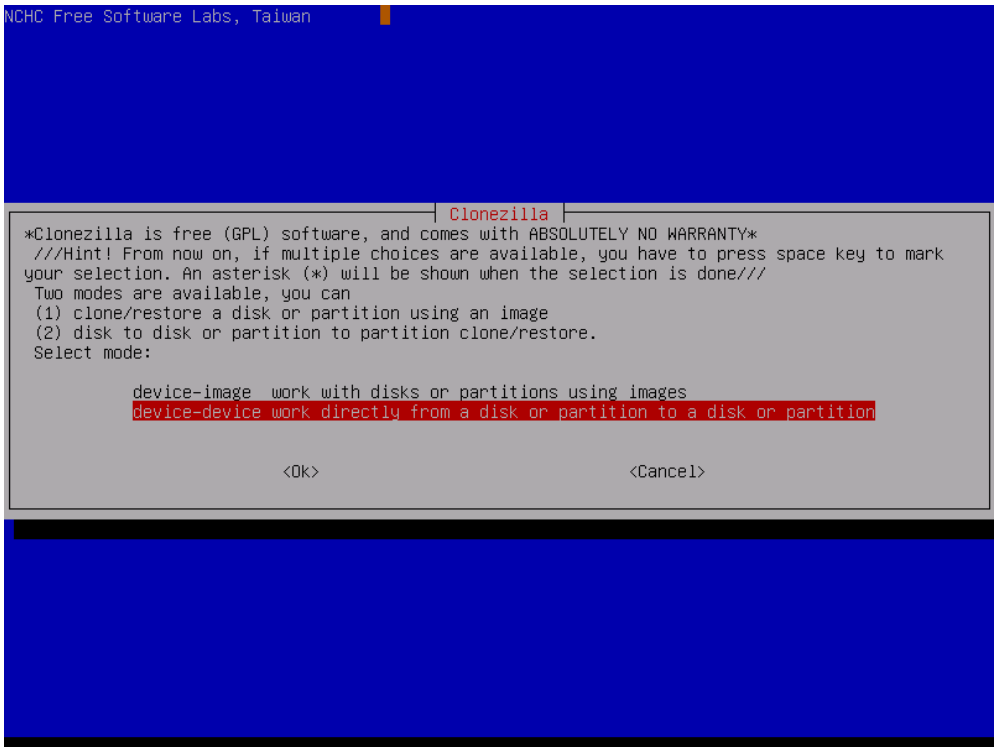


Choose Keyboard layout. Select default i.e; Don't touch keymap if you don't know.

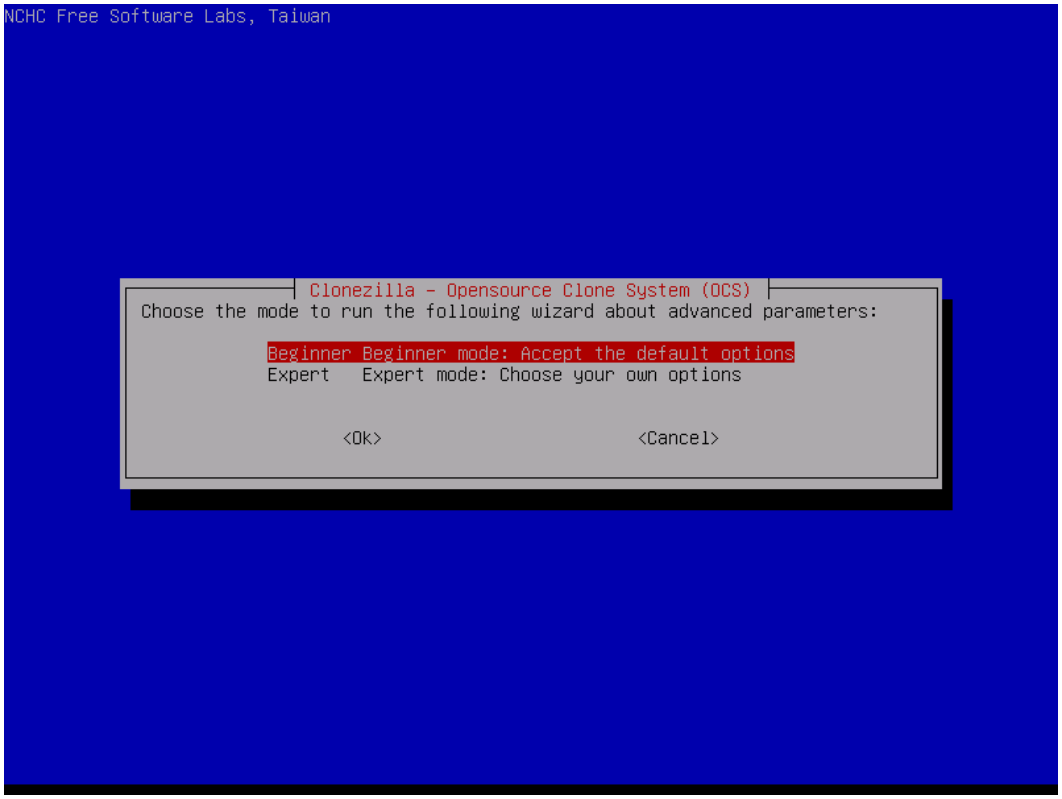
7. Then, choose “Start Clonezilla” in the following menu as:



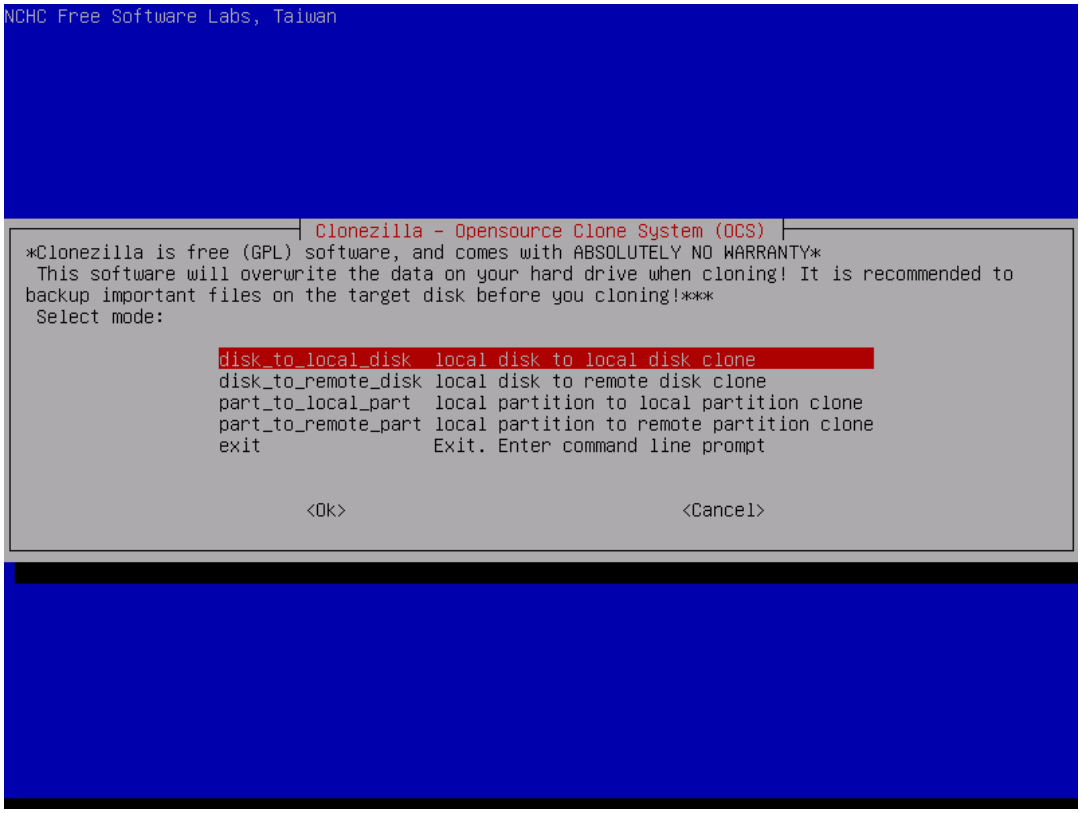
8. Choose “device-device……” Option in the following menu



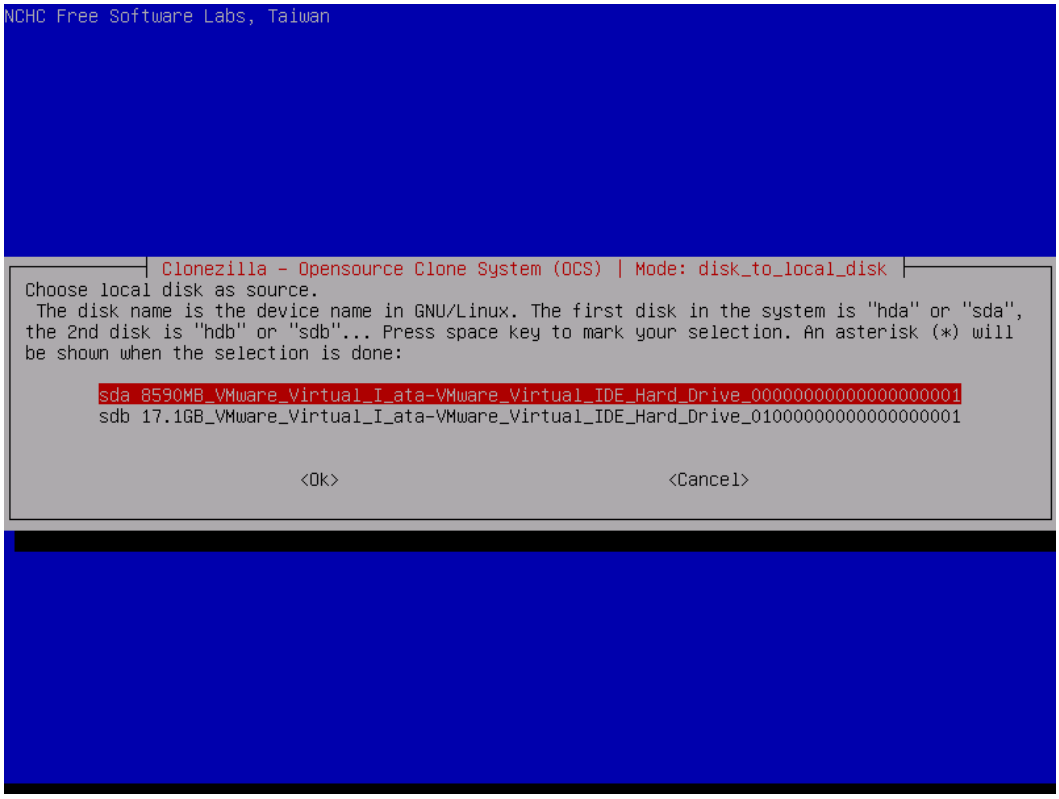
9. Then, choose “Beginner” option in the following menu.



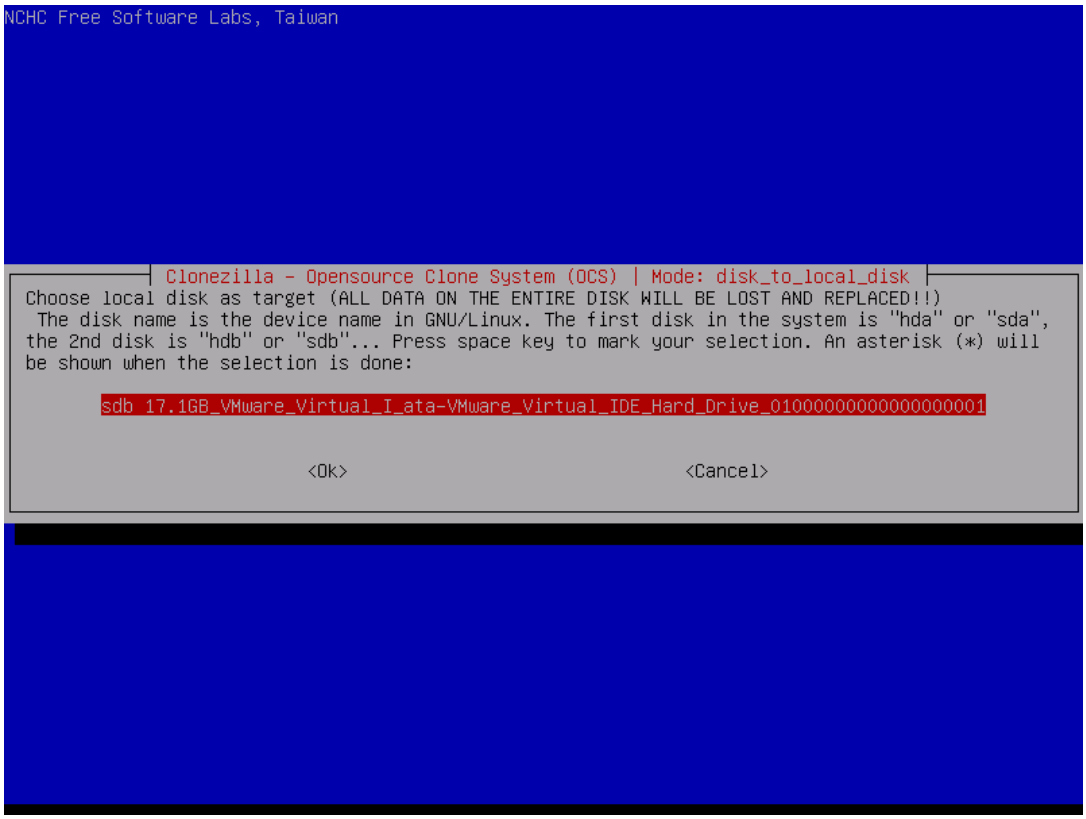
10. Choose “Local to local disk” option



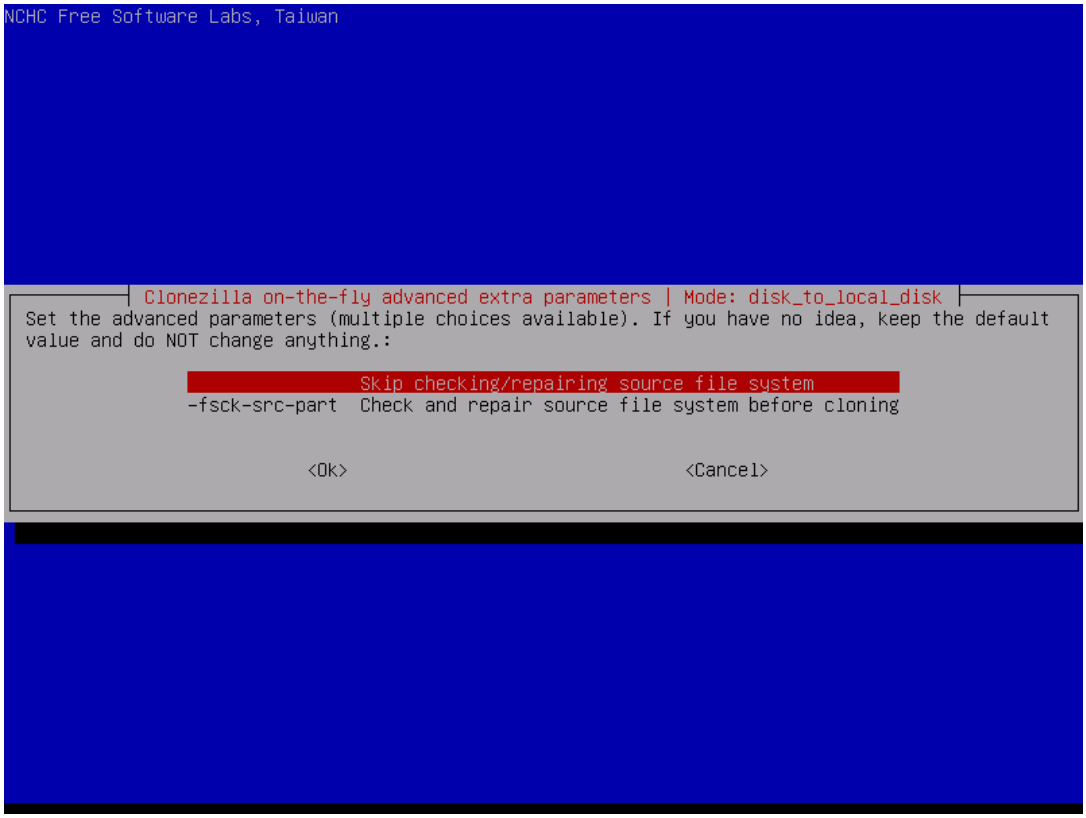
11. Choose source disk. It is the disk that you are going to clone on other disk.



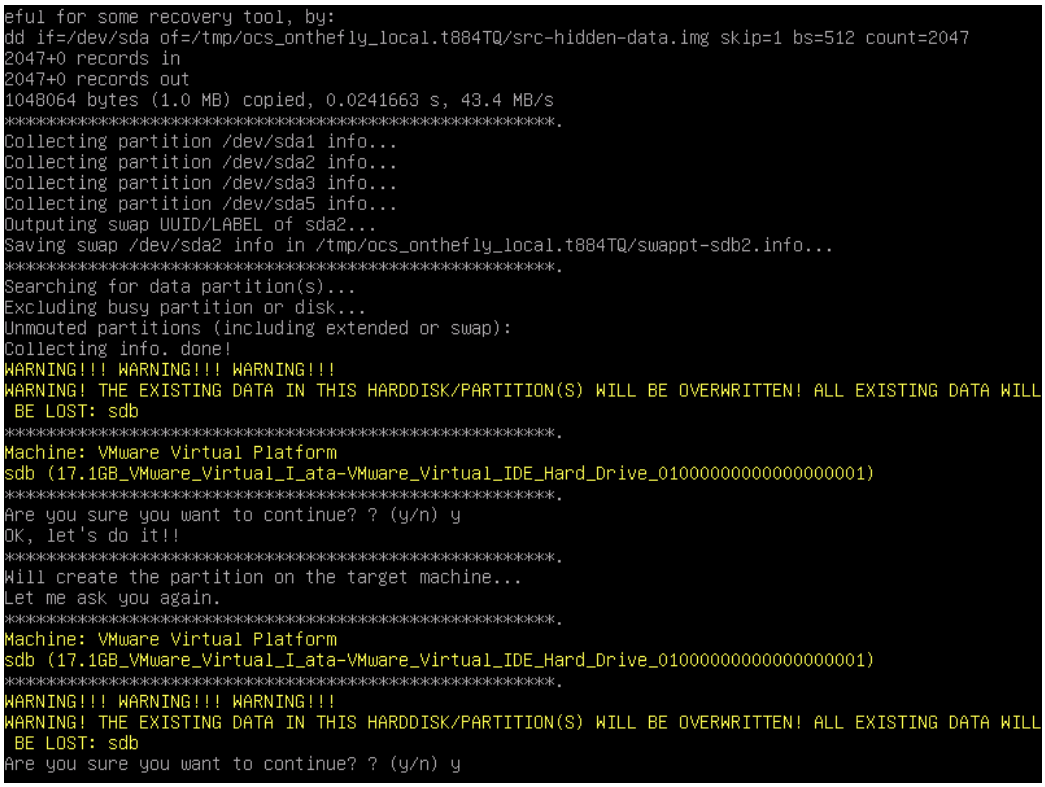
12. Choose target disk. While choosing this disk, you must be aware that all the data in this disk will be lost and replaced by the data in the source disk.



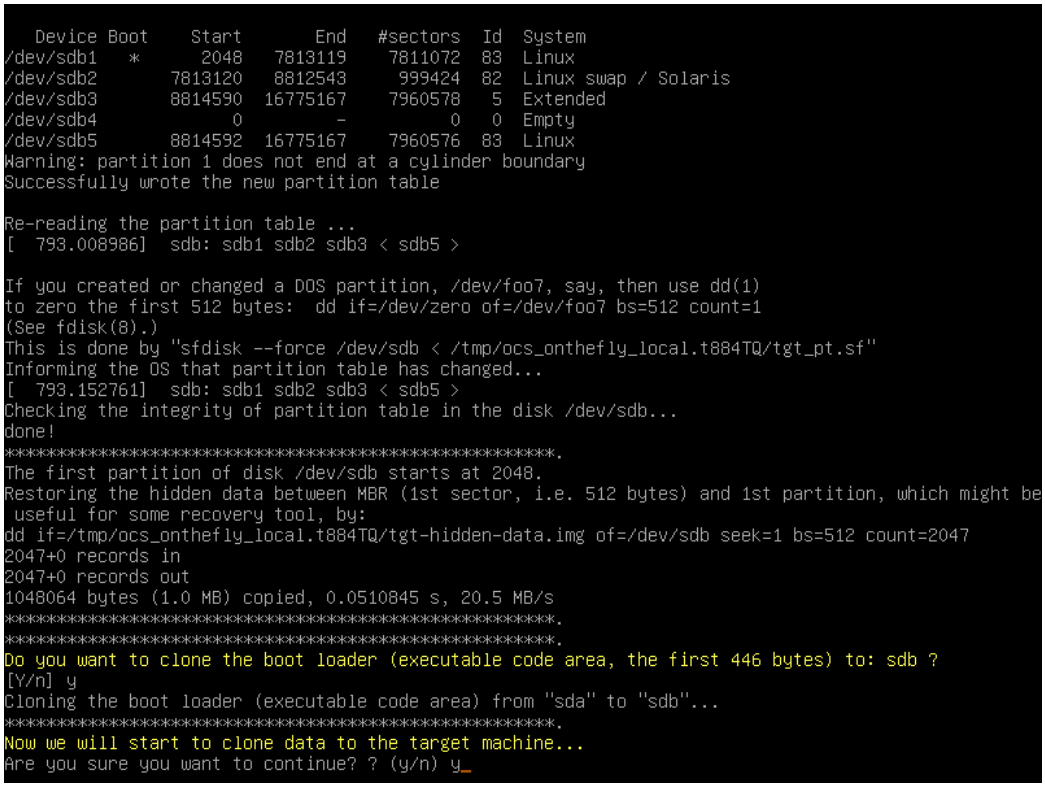
13. If you get any other selection options, leave the default option and continue.



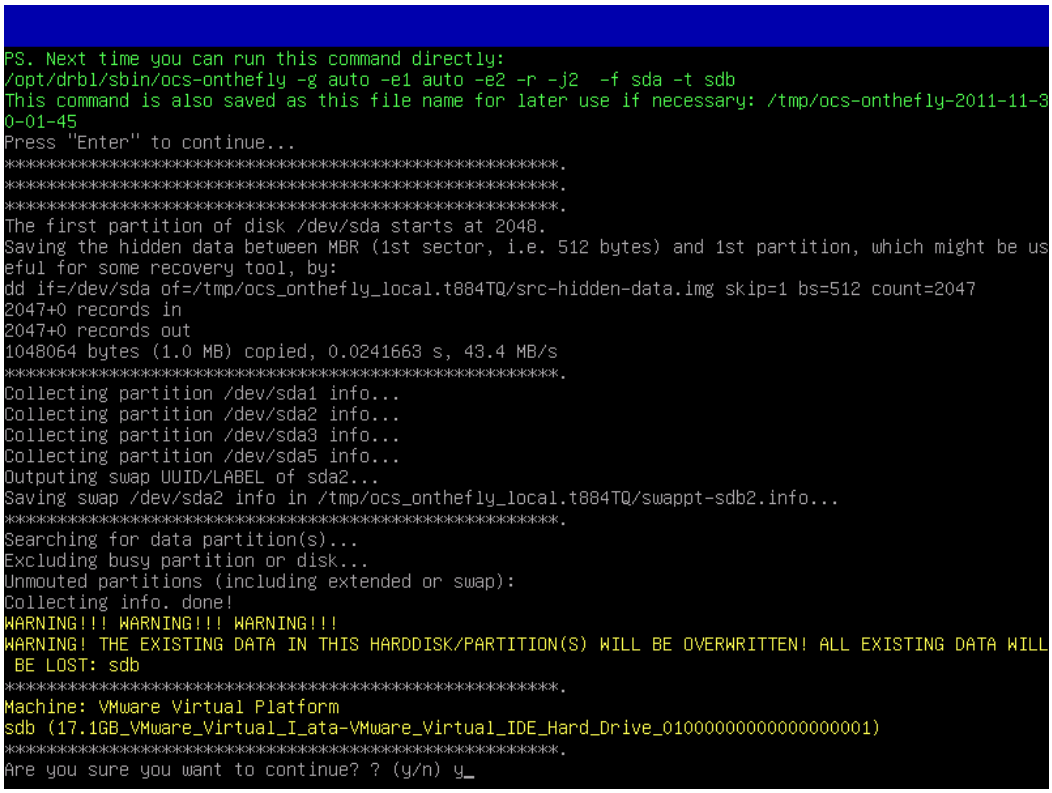
14. You'll see many confirmation questions as:
    Ask confirmation about creating partition on the target disk.



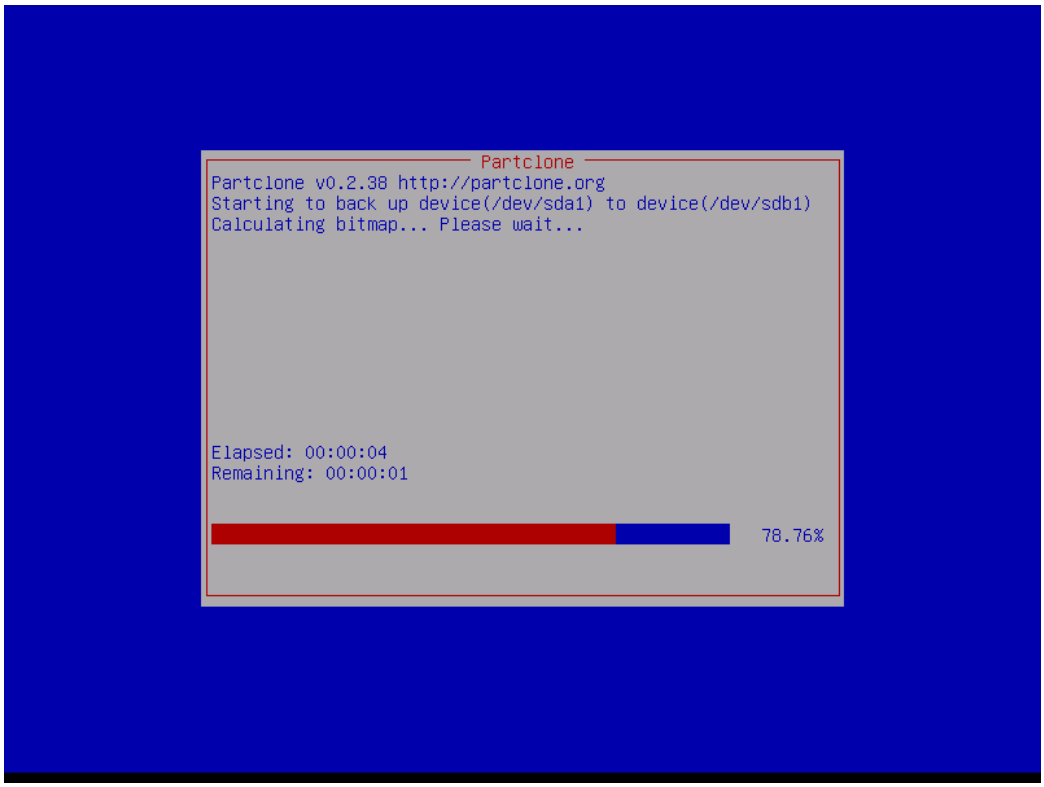
Ask confirmation about cloning boot loader to target disk

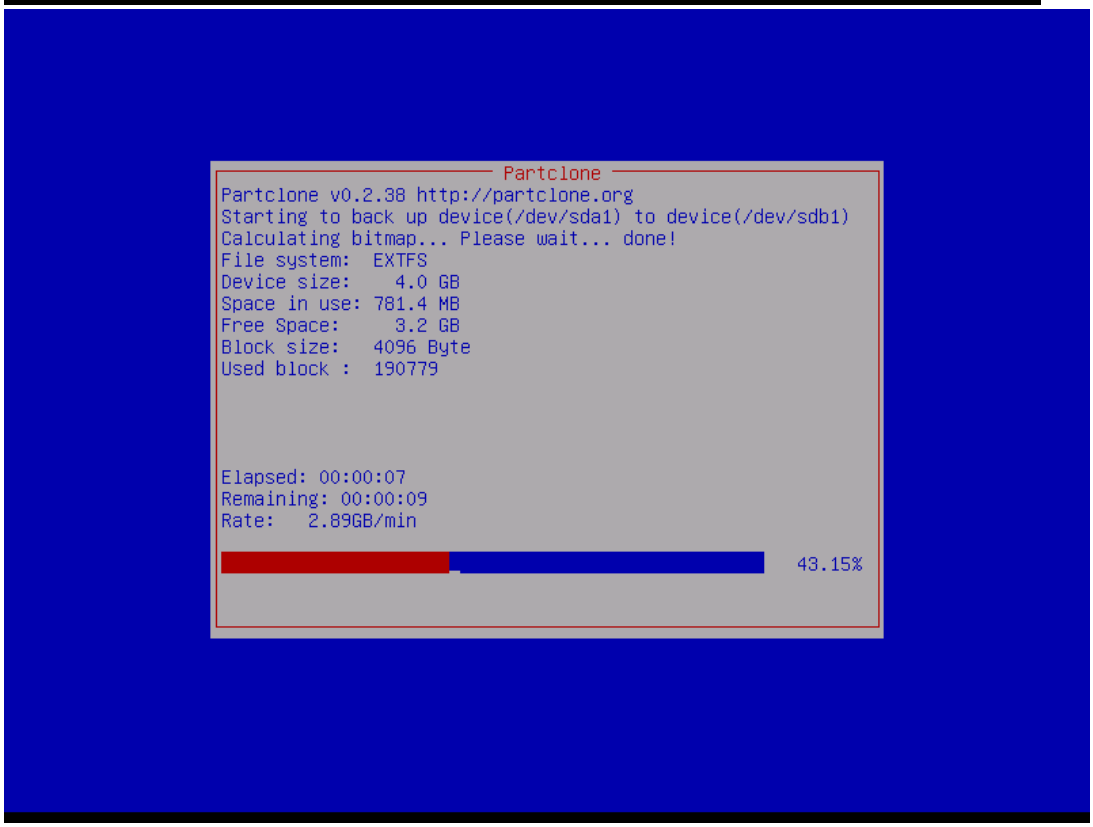


Ask confirmation about cloning data from source disk to target disk

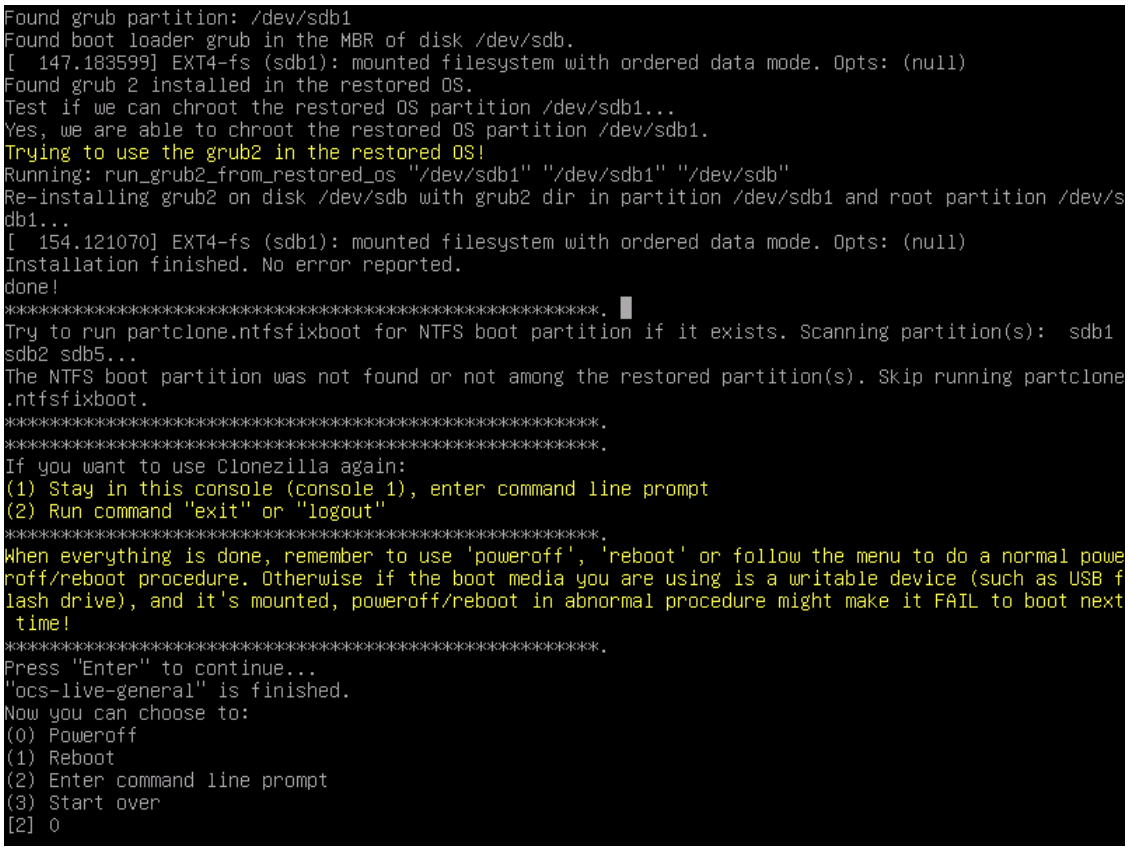


15. Now you'll see several windows like these on your screen. Wait until the whole cloning process is completed.





16. When everything is done, Clonezilla will prompt you if you want to run it again,
    'Stay in this console (console 1), enter command line prompt'
    'Run command "exit" or "logout"'



17. Then, choose ‘0’ to power-off and the machine will be halted. Now, you can remove your hard drive and keep it in some safe place as a backup.