

## Installing into Hard disk

NepaLinux can also be installed into the hard disk. NepaLinux can also co-exist with other operating systems like MS-Windows. To install NepaLinux, you need at least one Linux native partition and a swap partition in your hard disk. Size of the swap partition is usually kept double of the RAM size. Linux native partition should be at least 2 GB.

For NepaLinux installation, you need to insert the NepaLinux CD into the CD/DVD drive and reboot the computer. When the computer boots up completely, follow the steps below.

1. Go to "Desktop" --> Preferences --> Install to Harddisk.
2. In the NepaLinux Installer dialog box, click Forward
3. In the next dialog box ( ie. Step 1 of 7), select the harddisk in which you want to install NepaLinux. It will be selected by default if you have only one harddisk. Click on Forward.

*Note: In the Partitioner: GPARTED will be selected by default. You can also select Cfdisk by clicking on it. Cfdisk is faster than GPARTED. If you wish to use cfdisk, refer to "Partitioning using cfdisk" section in the next page..*

4. Next, appears Gparted Partition Table.
5. Here, you have to make following 2 partition to Install NepaLinux
  - a. Linux-swap
  - b. Ext3/ext2

*Note: If you do not already have any other o/s installed on your harddisk, then partitioning harddisk will be simple and easy because you don't have to worry about losing other o/s or data. But if you have other o/s already installed in your harddisk, then you should take extra caution while creating above mentioned linux partitions because your wrong step can entirely delete your partition or other o/s.*

*For Example:*

*If you have MS Windows preinstalled in your C: and you want to install Nepalinux in the D: , then make sure you take complete backup of your D: into C: .*

*When you boot from NepaLinux LiveCD you won't be able to distinguish between your C and D drive cause linux system recognizes the partition in a different way. While booting from Nepalinux CD, primary partition, where you may have MS windows installed will be recognized as one of the following*

*hda1, hda2, hda3 or  
hdb1, hdb2, hdb3 or  
hdc1, hdc2, hdc3*

*Logical Partitions will be detected as hda5, hda6.... hda15.*

*It is always better to have unallocated partition in your harddisk. This will make partitioning your harddisk for Nepalinux Installation, painless.*

*Utilities like "Partition Magic" can be used in MS Windows to create free (unallocated ) partition. Partitioning a harddisk which already has o/s in it, can sometimes be very complicated and covering everything is beyond the scope of this manual.*

6. If you have free partition (unallocated partition) in your harddisk, its good ! stop reading further and go to step 8, If not, figure out the partition that you want to delete and install NepaLinux in. Then click on delete button.
7. Click on delete of confirm .
8. Select the Unallocated partition and click on new. On the New Size(MB): box enter the size you want to assign for SWAP, SWAP is normally assigned double the size of RAM. Assign 256 if you have 128 MB of ram and so on.. .

On the Filesystem box select linux-swap and click on Add button.

9. Now, again select the Unallocated partition and click on New. In the New Size (MB): box enter the size you want to assign for linux-native partition. NepaLinux will be installed in this partition only. So assign the size not less than 2000MB ( ie 2GB). In the Filesystem select ext3 and click on Add.
10. Now click on Apply button. Click on Apply button again to make sure. "Applying pending operation" box appears. It may take a while.
11. Now close the Gparted box.
12. The SWAP partition is automatically selected, click on Forward.
13. In the next dialog box (i.e. Step 3 of 7) select the linux partition you created in step 9. Now click on forward. The installation process starts, it will take 15 to 30 minutes.
14. Enter the desired host name in the next dialog box
15. Enter password for "root" user.
16. After that in the next screen, type in a username of your choice. The default username is "nepali" This username will be used to login to the system. "root" login is disabled by default. It can be enabled through the main menu. To do so, go to "Applications"----> "System Tools"--> "Login Screen Setup" --> "Security".
17. In the next screen select "Install GRUB on the MBR" option. Grub is an excellent boot loader which can recognize and list other operating systems that are already installed in the hard disk.
18. Restart the computer and remove the NepaLinux CD. Make sure the system doesn't boot from LiveCD this time.
19. The system will start at the first boot stage and the necessary updates/installation will take place. System will reboot automatically

### **Partitioning using Cfdisk**

1. Cfdisk partitioner appears, If you have free space (unallocated space), stop reading further and goto step 2 below. If not, figure out the partition that you want to install NepaLinux in. Select that partition and select delete using arrow keys and press enter. Now select free space and goto New and press enter.
2. Enter size you want to assign for SWAP. SWAP is usually assigned double the size of RAM and press enter & press enter on Beginning. Now goto type and press enter, press any key, 82 is selected by default. Just press enter.
3. Now again select Free Space and goto New and press enter. Now enter size you want to assign for linux partition. Enter size not less than 2 GB (i.e. 2000 MB). Now press enter and press enter on Beginning.
4. Goto Bootable & press enter. Now, go to write and press enter and type yes. Wait few seconds till the partition table is written now go to Quit & press enter.
5. The SWAP partition is automatically selected, click on Forward.
6. In the next dialog box (i.e. Step 3 of 7) select the linux partition you created in step "c". Now click on forward. The installation process starts, it will take 15 to 30 minutes.
7. Enter the desired host name in the next dialog box
8. Enter password for "root" user.
9. After that in the next screen, type in a username of your choice. The default username is "nepali" This username will be used to login to the system. "root" login is disabled by default. It can be enabled through the main menu. To do so, go to "Applications"----> "System Tools"--> "Login Screen Setup" --> "Security".

10. In the next screen select “Install GRUB on the MBR” option. Grub is an excellent boot loader which can recognize and list other operating systems that are already installed in the hard disk.
11. Restart the computer and remove the NepaLinux CD. Make sure the system doesn't boot from LiveCD this time.
12. The system will start at the first boot stage and the necessary updates/installation will take place. System will reboot automatically