Linux 7.3 Installation Illustration

By: Kashif Ali Siddiqui

Before Installation

Before u start the installation, make sure u have the following information regarding ur PC

- 1. Type of video card, amount of video memory
- 2. Type of monitor + vender name
- 3. Type of mouse interface : serial or PS2
- 4. Know hard disk partition where u want to install Linux
- 5. If u have a Ethernet card then
 - a. Must know whether ur PC IP is assigned by DHCP or manual
 - b. If manual IP is assigned (which is most of the case), then must know ur PC IP address

This is the information that must be known to u before installation. Now in the following pages, Linux 7.3 installation is explain step by step with screen shots

Step # 1 - After PC Boot from CD-ROM

```
Welcome to Red Hat Linux 7.3!

To install or upgrade Red Hat Linux in graphical mode, press the <ENTER> key.

To install or upgrade Red Hat Linux in text mode, type: text <ENTER>.

To enable low resolution mode, type: lowres <ENTER>.

To disable framebuffer mode, type: nofb <ENTER>.

Press <F2> for more information.

To disable hardware probing, type: linux noprobe <ENTER>.

To test the install media you are using, type: linux mediacheck<ENTER>.

To enable rescue mode, type: linux rescue <ENTER>.

Press <F4> for more information about rescue mode.

If you have a driver disk, type: linux dd <ENTER>.

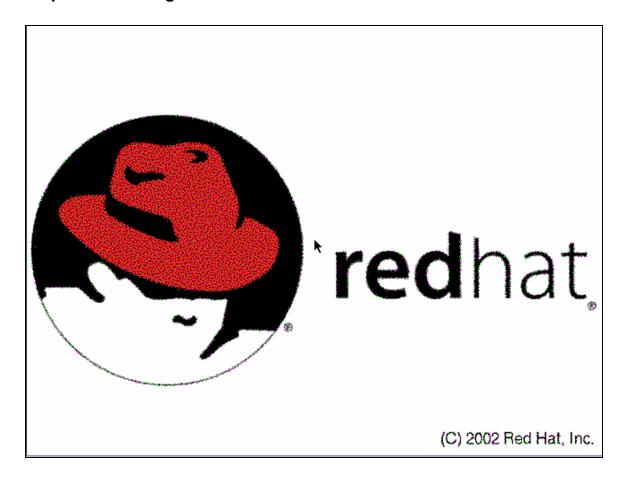
Use the function keys listed below for more information.

[F1-Main] [F2-General] [F3-Kernel] [F4-Rescue]
boot: ___
```

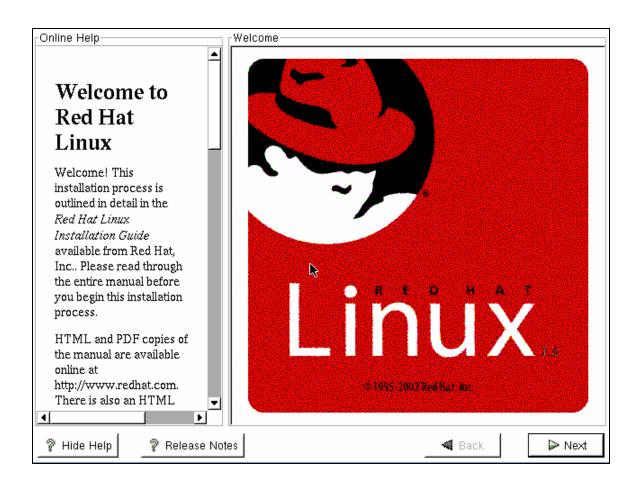
Insert Linux 7.3 CD#1 and boot ur PC from CD-ROM. After boot, the above screen will be shown. Just press ENTER and proceed forward

After that screen, some messages will appear on the screen showing the loading of some modules and identification of ur PC resources. Wait for the screen to go to the graphical mode

Step # 2 – Starting of Linux 7.3 Installation

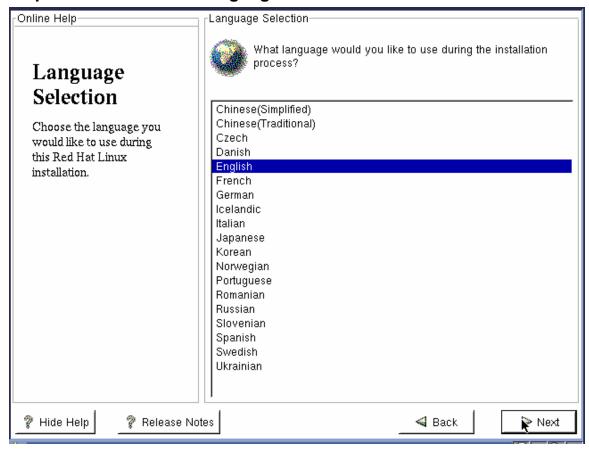


After this REDHAT logo screen, the new screen is shown as in the next page



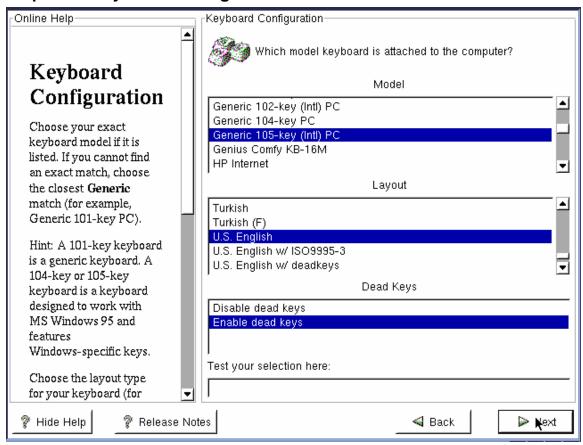
Press the NEXT button to proceed forward.

Step # 3 - Selection of Language



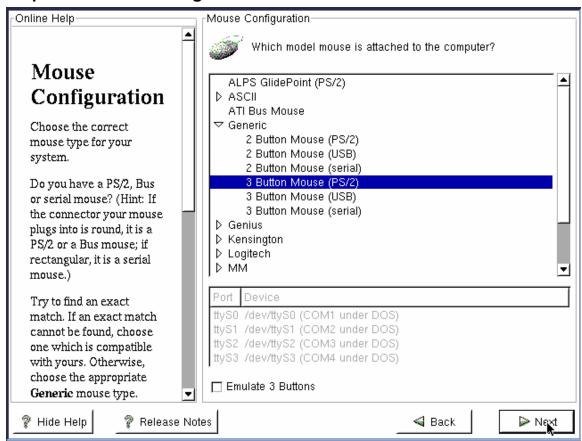
Just select English and press NEXT to proceed.

Step # 4 - Keyboard Configuration



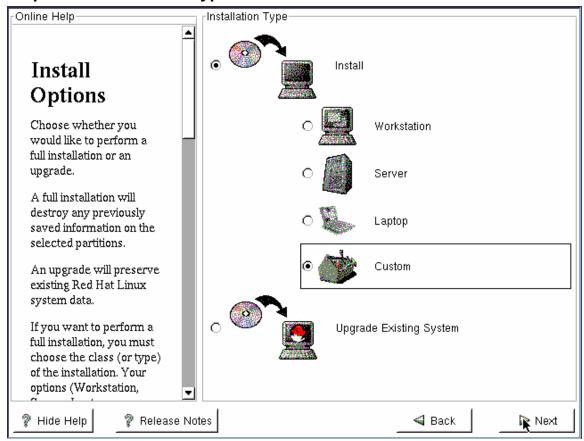
On most Intel based PCs, above shown default setting will be appear, just press NEXT to proceed.

Step # 5 - Mouse configuration



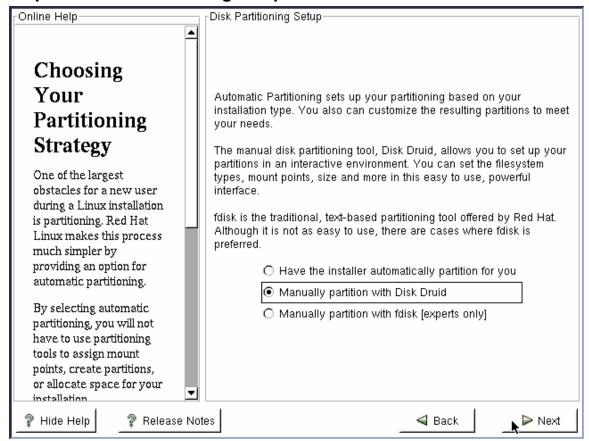
Set the mouse configuration and press NEXT to proceed.

Step # 6 - Installation Type



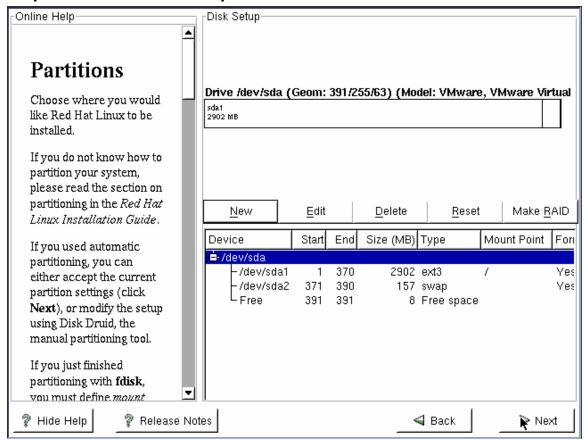
Select Custom type and press NEXT to proceed.

Step # 7 - Disk Partitioning setup



Select the **Disk Druid** (second option) and press NEXT to proceed.

Step #8 - Disk Druid setup



Now, make or change ur hard disk partitions.

Press NEW to create new partition

In the new partition dialog box, type '/' as the mount point and select ext3 as ur file system

Press EDIT to change any existing partition

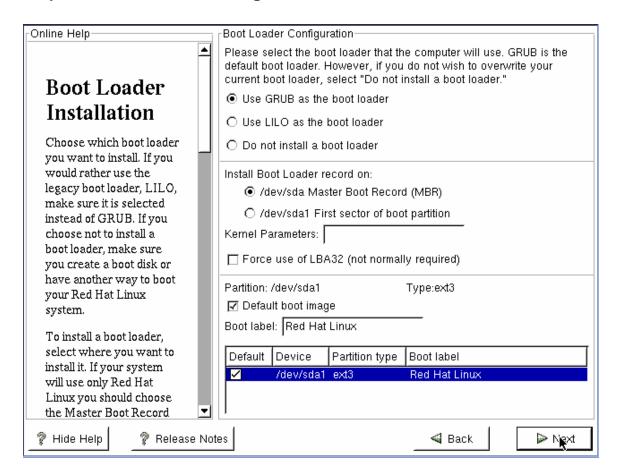
In Linux two partitions are required, one for the Linux itself (native partition) and one for the Linux Swap partition as shown in the figure above. Swap partition has no mount point.

Swap partition should be double or greater of the amount of ur RAM, e.g. if u have 64 MB RAM then swap partition should be of atleast 128 MB size.

For native partition, allocate up to or above 2.5 GB if u want to install full Linux 7.3

After creating partitions, press NEXT. Linux installation will confirm u about this act, just press OK and NEXT.

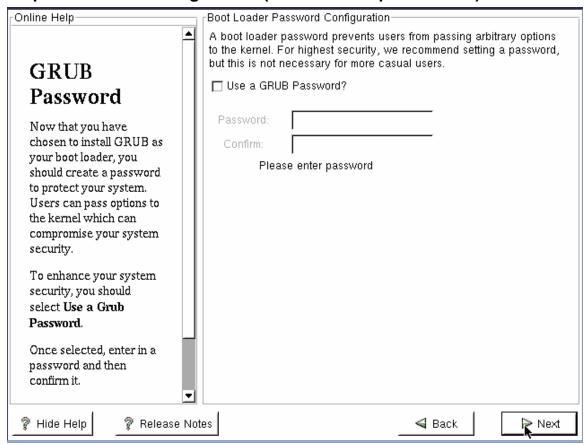
Step # 9 - Boot loader configuration



There r 2 boot loader, Grub or LILO, select any one of them

Now if u want ur PC to boot from Linux boot loader select MBR, the first option (already selected in the figure), otherwise select the second one. I RECOMMEND to set the first one – MBR.

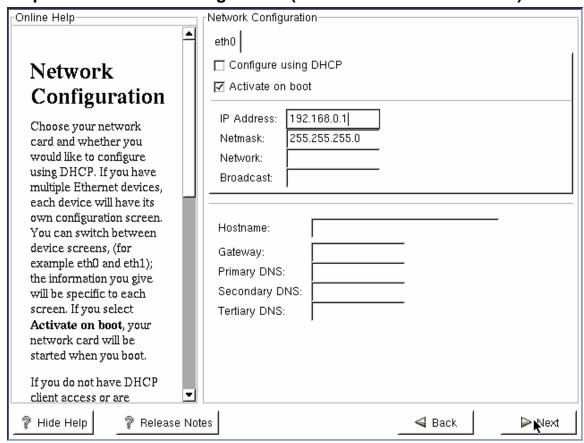
Step # 10 - Grub configuration (if selected in prev screen)



If u wants to set boot loader password, type it. I RECOMMEND not to set password here.

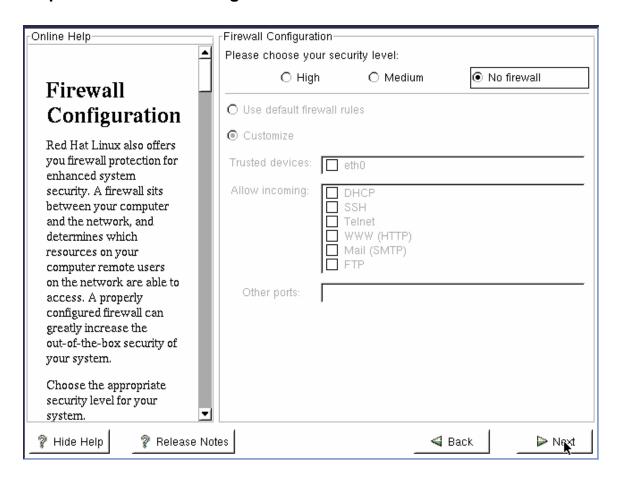
Press NEXT to proceed.

Step # 11 - Network configuration (if Ethernet card is installed)



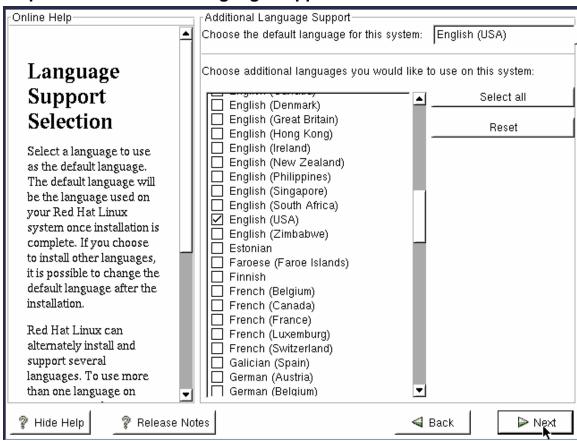
If u have Ethernet card installed, then in this screen specify, whether on the network u r assigned IP by the network DHCP server. If NO, uncheck the DHCP option, the lower part becomes enabled. Type ur PC static IP.

Step # 12 - Firewall configuration



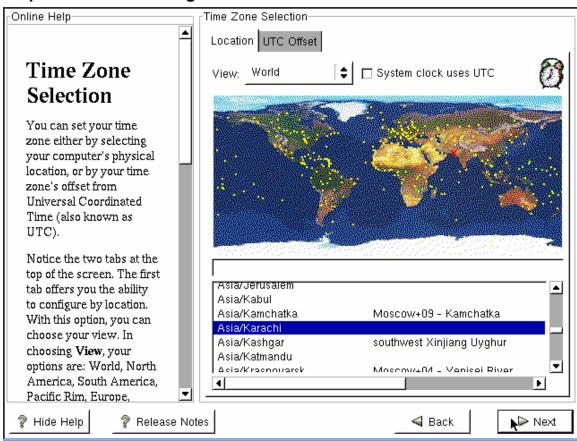
If u r on the network, configure the Linux internal firewall. Or if u do not know what is a firewall, just select the No firewall option

Step # 13 - Additional Language support



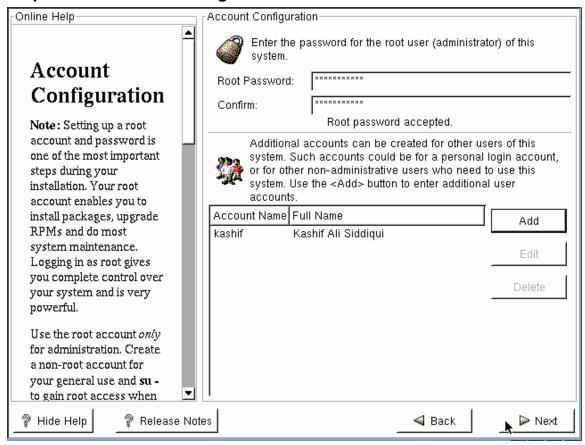
If u want other language support, select from the list

Step # 14 - Zone configuration



Select Asia/Karachi

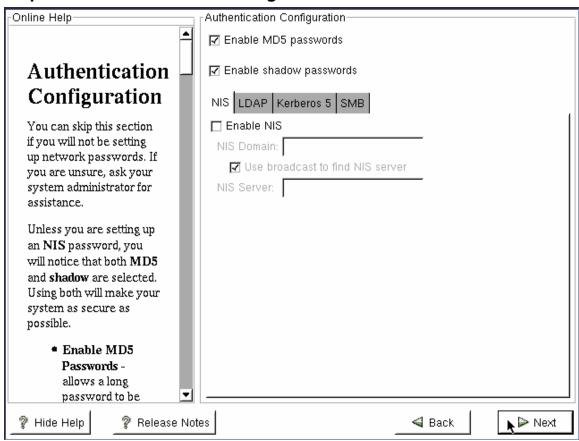
Step # 15 - Account configuration



Type ur root or administrator password. In Linux admin user id is always root

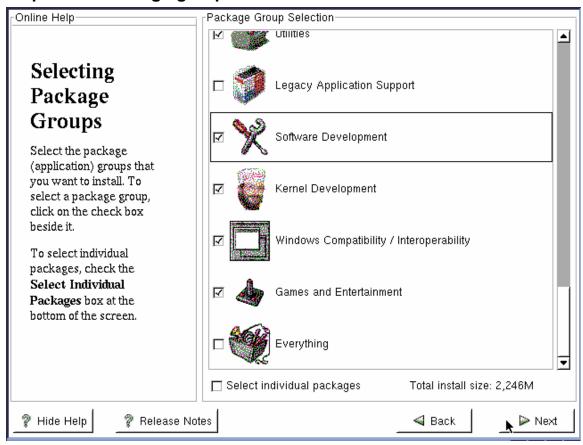
If u want to have extra non-admin, normal user account, press ADD and add new ones as in the above figure

Step # 16 – Authentication configurtation



MD5 and shadow are encryption techniques, select them both

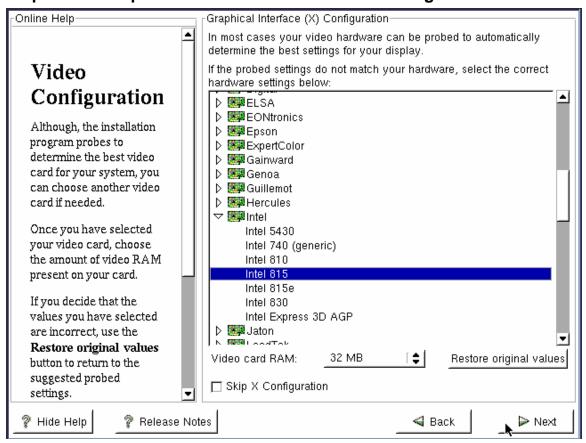
Step # 17 - Package group selection



In the list above, select all items except ${f Laptop\ support}$ and ${f Legacy\ application\ support}$

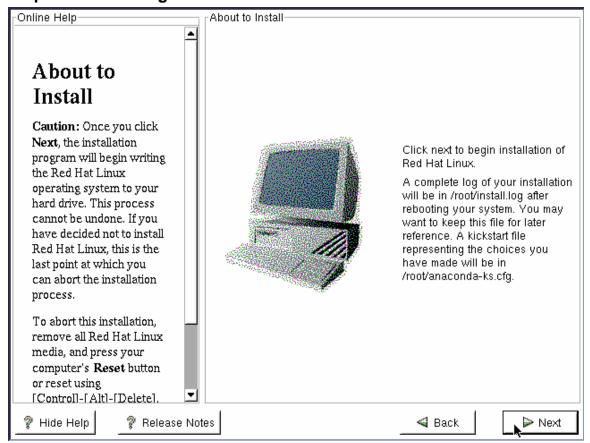
Must select Software development and Kernel development

Step # 18 - Graphical Interface or Video Card configuration

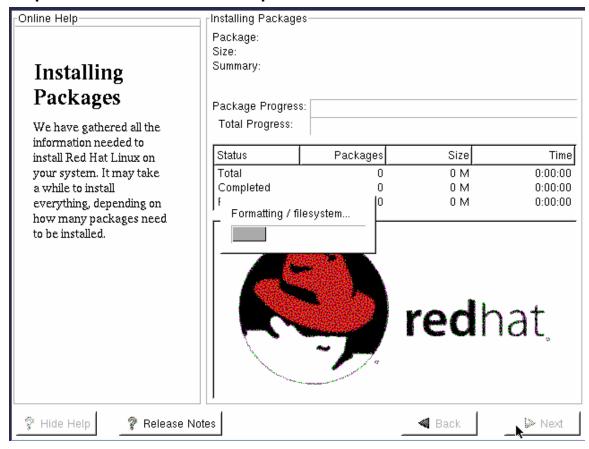


Select ur card type and video memory size

Step # 19 - Starting of Actual Installation



Step # 20 - Pre Installation Steps

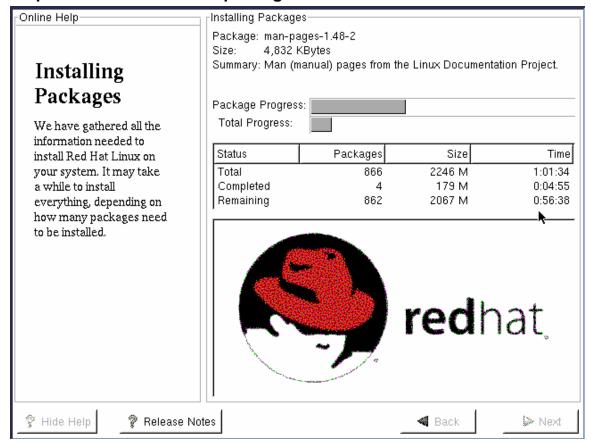


Before the installation and copying of files, file system is formatted and other important operations are followed.

Small dialog boxes will appear on the screen to show u the progress of these operations.

DO NOT DO ANY THING

Step # 21 - Installation of packages



Now after the pre-installation operations, this screen will be shown with statistics and progress bars showing the installation progress.

Now relax for about 1 - 2 hours. In P3 800 MHz PC, it took 56 min. to complete.

During the installation, it will ask u to change CD # 1 to CD # 2 and then to CD # 3. Do as instructed.......

After the installation, 95% installation is complete.

After this, Linux installation ask u for ur monitor type and vendor name. Select one from the given list and press NEXT to proceed.

After the setup of X server, the Linux installation asked u to select, whether u want to start by graphical login or textual login. Select the textual one.

NOW THE INSTALLATION IS COMPLETE PC will automatically reboot, remove the CD and enjoy the freshly installed Linux