How to Install Red Hat Enterprise Linux 5.0

With

Hardware Requirements

(Step-by-Step Tutorial with Screenshots)

HOW TO INSTALL RED HAT ENTERPRISE LINUX 5.0

STEP-BY-STEP TUTORIAL WITH SCREENSHOTS

ER.SATISH BABARIYA

In memory of
My parents
And
My teachers

SUPPORTED PLATFORMS AND SYSTEM REQUIREMENTS

Hardware	Architecture	Operating System
IBMSystemz	s390 and s390x	Red Hat Enterprise Linux 4, 5
Intel / AMD	i386 and x86_64	Red Hat Enterprise Linux 4, 5

Satellite Requirement: (embedded database)

PentiumIV processor, 2.4 Ghz, 512K cache
PentiumIV processor, 2.4 Ghz dual processor, 512K cache recommended
Systemz IFL processor

Disk space and storage:

3 GB storage for base installation of Red Hat Enterprise Linux AS
6 GB storage per channel in /var/satellite directory
12 GB storage for database repository in /rhnsat partition
Separate partition for storing backups
Memory: 2 GB (minimum), 4 GB (recommended)

Recommended configuration:

2+ IFLs on z9 or earlier, 1+ IFL on z10 or later
2 GB storage (memory)
512MB swap on VDISK + 1 GB swap on ECKD DASD
1xMod9 ECKD DASD or >= 2 GB *multipathed* FCP SCSI LUN for OS install
z/VM5.4 or later [1]
VSWITCH or Hipersocket LAN for high speed connections to guests

How to Install Red Hat Enterprise Linux 5.0 (Step-by-Step Tutorial with Screenshots)

By Satish Babariya

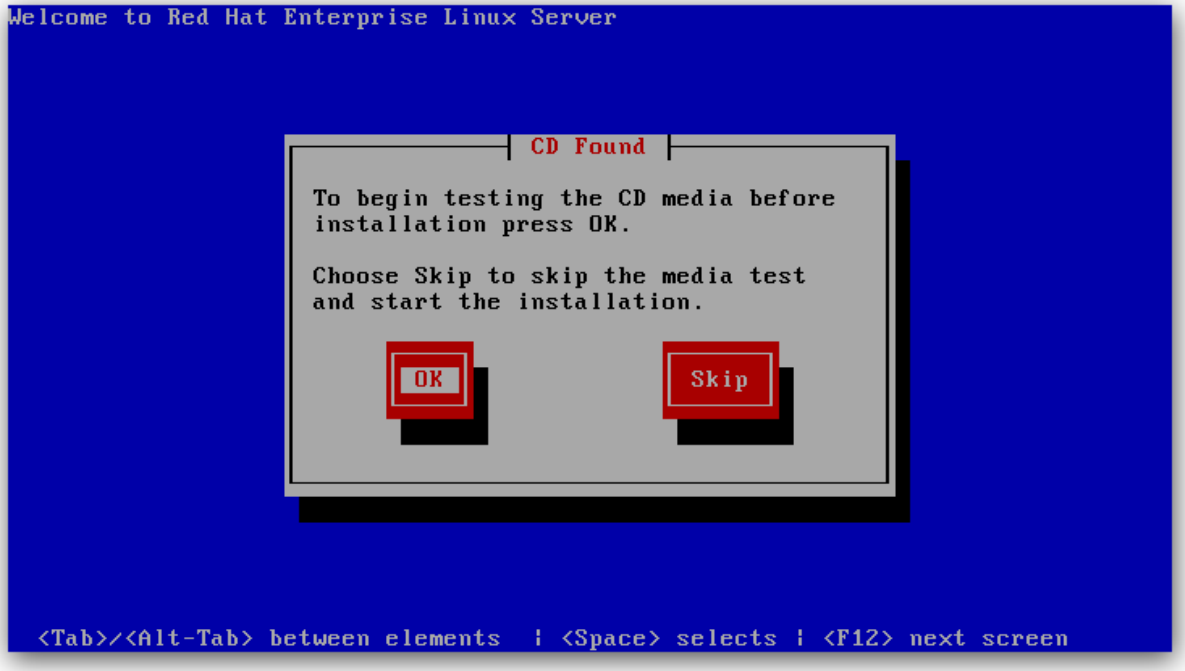
Load in your red hat enterprise linux 5.0 DVD and boot it. It will now load the setup files.

Press enter for install.

```
Initializing Cryptographic API
ksign: Installing public key data
Loading keyring
- Added public key 86B4033B99649BB9
- User ID: Red Hat, Inc. (Kernel Module GPG key)
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
Limiting direct PCI/PCI transfers.
Activating ISA DMA hang workarounds.
pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Real Time Clock Driver v1.12ac
Non-volatile memory driver v1.2
Linux agpgart interface v0.101 (c) Dave Jones
Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
RAMDISK driver initialized: 16 RAM disks of 16384K size 4096 blocksize
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
PIIX4: IDE controller at PCI slot 0000:00:01.1
PIIX4: chipset revision 1
PIIX4: not 100% native mode: will probe irqs later
    ide0: BM-DMA at 0xd000-0xd007, BIOS settings: hda:pio, hdb:pio
    ide1: BM-DMA at 0xd008-0xd00f, BIOS settings: hdc:DMA, hdd:pio
_
```

```
CPU0: Intel Pentium(R) Dual-Core  CPU      E5800  @ 3.20GHz stepping 0a
SMP motherboard not detected.
Brought up 1 CPUs
checking if image is initramfs... it is
Freeing initrd memory: 4803k freed
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: PCI BIOS revision 2.10 entry at 0xfc060, last bus=0
PCI: Using configuration type 1
Setting up standard PCI resources
ACPI: Interpreter enabled
ACPI: Using PIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
ACPI: PCI Interrupt Link [LNKA] (IRQs *5 9 10 11)
ACPI: PCI Interrupt Link [LNKB] (IRQs 5 9 10 *11)
ACPI: PCI Interrupt Link [LNKC] (IRQs 5 9 *10 11)
ACPI: PCI Interrupt Link [LNKD] (IRQs 5 *9 10 11)
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init
pnp: PnP ACPI: found 5 devices
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq".  If it helps, post a report
_
```

md: md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: bitmap version 4.39
TCP bic registered
Initializing IPsec netlink socket
NET: Registered protocol family 1
NET: Registered protocol family 17
Using IPI No-Shortcut mode
Time: tsc clocksource has been installed.
ACPI: (supports S0 S1 S4 S5)
Freeing unused kernel memory: 232k freed
Write protecting the kernel read-only data: 383k
Greetings.
anaconda installer init version 11.1.2.36 starting
mounting /proc filesystem... done
creating /dev filesystem... done
mounting /dev/pts (unix98 pty) filesystem... done
mounting /sys filesystem... done
input: AT Translated Set 2 keyboard as /class/input/input0
input: ImExPS/2 Generic Explorer Mouse as /class/input/input1
trying to remount root filesystem read write... done
mounting /tmp as ramfs... done
running install...
running /sbin/loader


Welcome to Red Hat Enterprise Linux Server
CD Found
To begin testing the CD media before installation press OK.
Choose Skip to skip the media test and start the installation.
OK
Skip
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

Press skip.

Running anaconda, the Red Hat Enterprise Linux Server system installer - please wait...

RED HAT
ENTERPRISE LINUX 5
RED HAT
ENTERPRISE LINUX 5
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Release Notes
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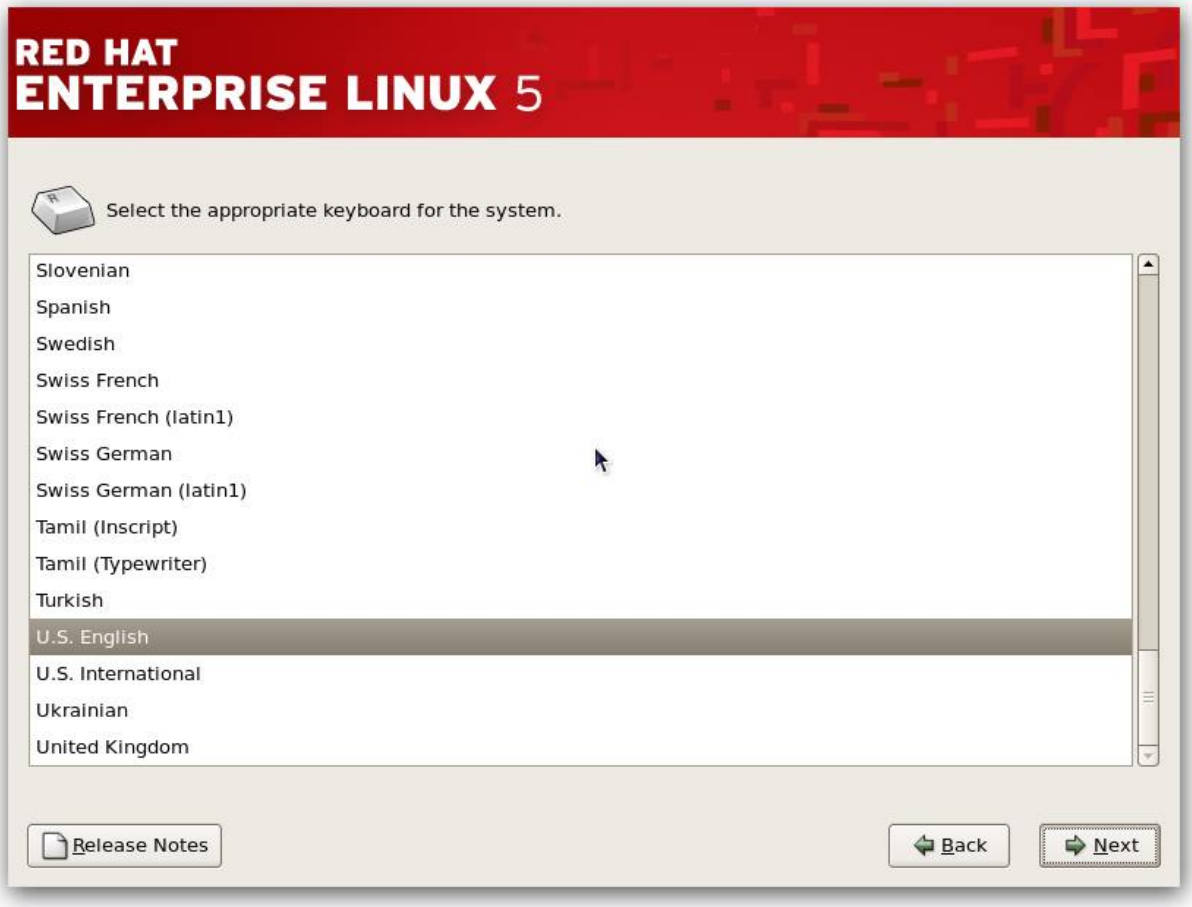
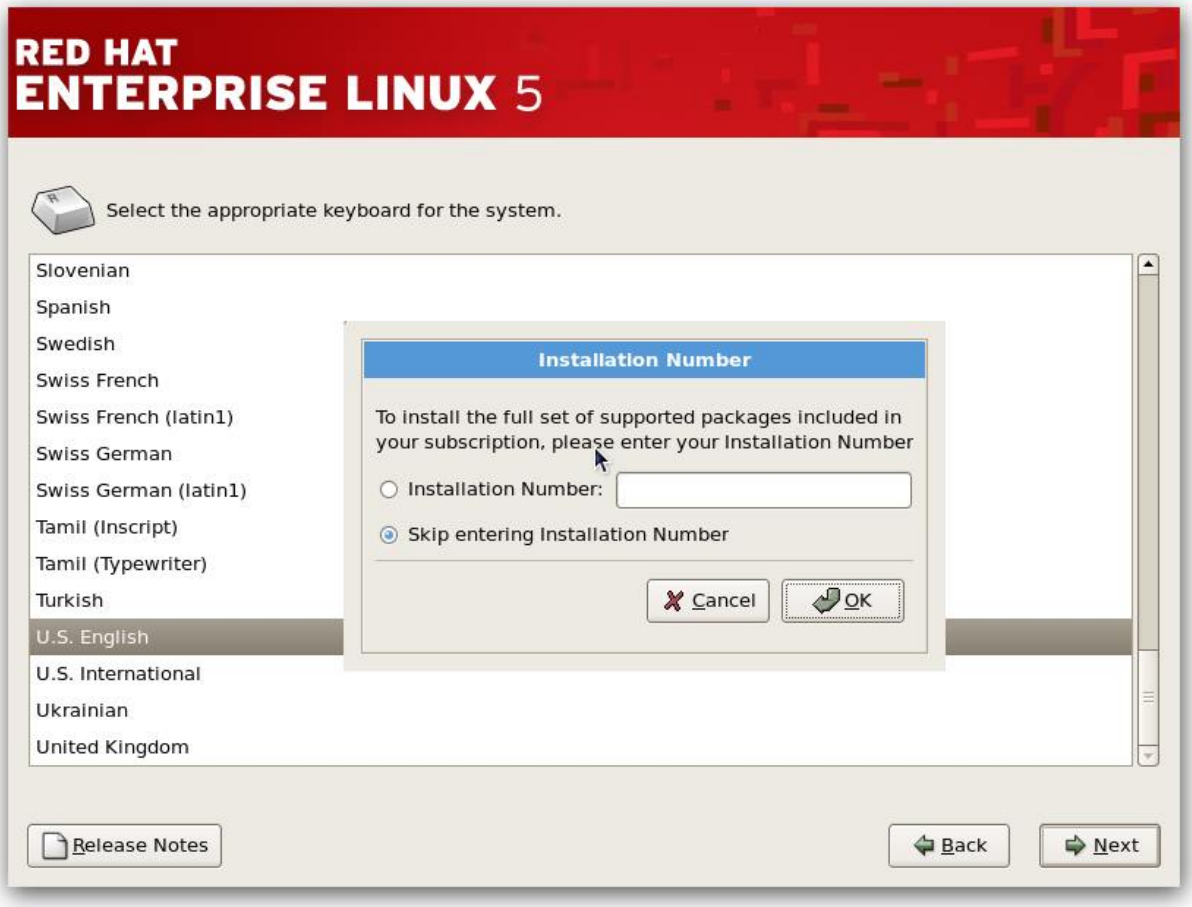
Next

Press enter.

Select your language and click Next.



keyboard or input method and click Next.



Click on skip entering installation number and click Next.

Press skip box.

RED HAT
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Select the appropriate keyboard for the system.
Slovenian
Spanish
Swedish
Swiss French
Swiss French (latin1
Swiss German
Swiss German (latin
Tamil (Inscript)
Tamil (Typewriter)
Turkish
U.S. English
U.S. International
Ukrainian
United Kingdom
Warning
The partition table on device sda was unreadable. To create new partitions it must be initialized, causing the loss of ALL DATA on this drive.
This operation will override any previous installation choices about which drives to ignore.
Would you like to initialize this drive, erasing ALL DATA?
No
Yes
Release Notes
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Next

click Yes.

Select the drive where you want to install Linux and click Next.

(If you want to make any partitions, click advanced storage configuration,
make the partitions and then click Next.)

RED HAT
ENTERPRISE LINUX 5
Installation requires partitioning of your hard drive.
By default, a partitioning layout is chosen which is
reasonable for most users. You can either choose
to use this or create
Remove linux partit
Select the drive
sda
Warning
You have chosen to remove all Linux partitions (and ALL DATA on them) on the following drives:
/dev/sda
Are you sure you want to do this?
No
Yes
Review and modify partitioning layout
Release Notes
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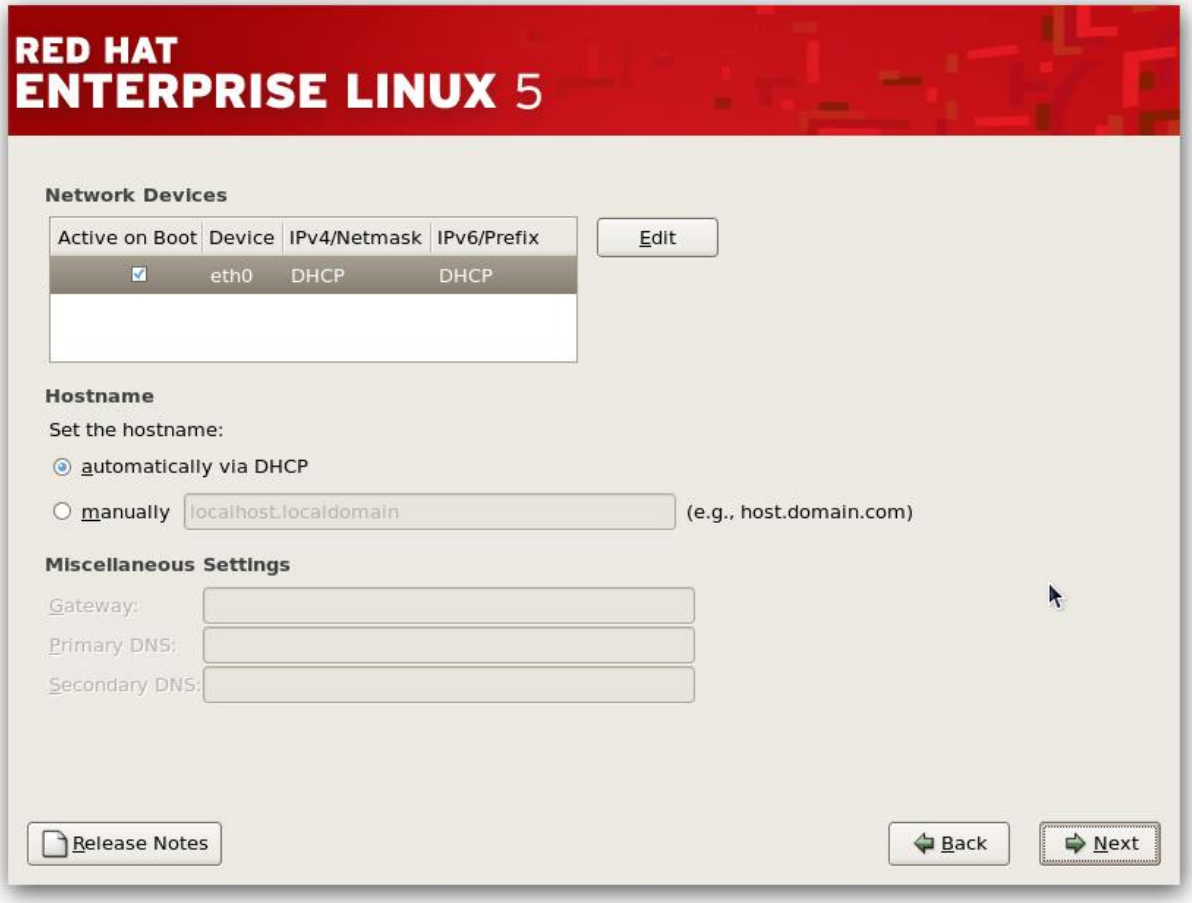
click Next.


RED HAT
ENTERPRISE LINUX 5
Network Devices
Active on Boot
Device
IPv4/Netmask
IPv6/Prefix
Edit
eth0
DHCP
DHCP
Hostname
Set the hostname:
automatically via DHCP
manually
localhost.localdomain
(e.g., host.domain.com)
Miscellaneous Settings
Gateway:
Primary DNS:
Secondary DNS:
Release Notes
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Next

click Next.

Select your region and click Next.

If you want to set a password, type it in the text-boxes and click Next.

RED HAT
ENTERPRISE LINUX 5
The default installation of Red Hat Enterprise Linux Server includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?
Software Development
Web server
You can further customize the software selection now, or after install via the software management application.
Customize later
Customize now
Release Notes
Back
Next

click Next.

RED HAT
ENTERPRISE LINUX 5
The default installation of Red Hat Enterprise Linux Server includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?
Software Development
Web server
Checking dependencies in packages selected for installation...
You can further customize the software selection now, or after install via the software management application.
Customize later
Customize now
Release Notes
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Next

RED HAT
ENTERPRISE LINUX 5
The default installation of Red Hat Enterprise Linux Server includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?
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Release Notes
Back
Next

RED HAT
ENTERPRISE LINUX 5
The default installation of Red Hat Enterprise Linux Server includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?
Software Development
Web server
Checking dependencies in packages selected for installation...
You can further customize the software selection now, or after install via the software management application.
Customize later
Customize now
Release Notes
Back
Next

RED HAT
ENTERPRISE LINUX 5
The default installation of Red Hat Enterprise Linux Server includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?
Software Development
Web server
Checking dependencies in packages selected for installation...
You can further customize the software selection now, or after install via the software management application.
Customize later
Customize now
Release Notes
Back
Next

RED HAT
ENTERPRISE LINUX 5
Click next to begin installation of Red Hat Enterprise Linux Server.
A complete log of the installation can be found in the file '/root/install.log' after rebooting your system.
A kickstart file containing the installation options selected can be found in the file '/root/anaconda-ks.cfg' after rebooting the system.
Release Notes
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Next

click Next.

RED HAT
ENTERPRISE LINUX 5
Formatting / file system...
hat
Release Notes
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Next

RED HAT
ENTERPRISE LINUX 5
Formatting / file system...
hat.
Release Notes
Back
Next

RED HAT
ENTERPRISE LINUX 5
Transferring install image to hard drive...
Release Notes
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Next

RED HAT
ENTERPRISE LINUX 5
Starting install process. This may take several minutes...
Release Notes
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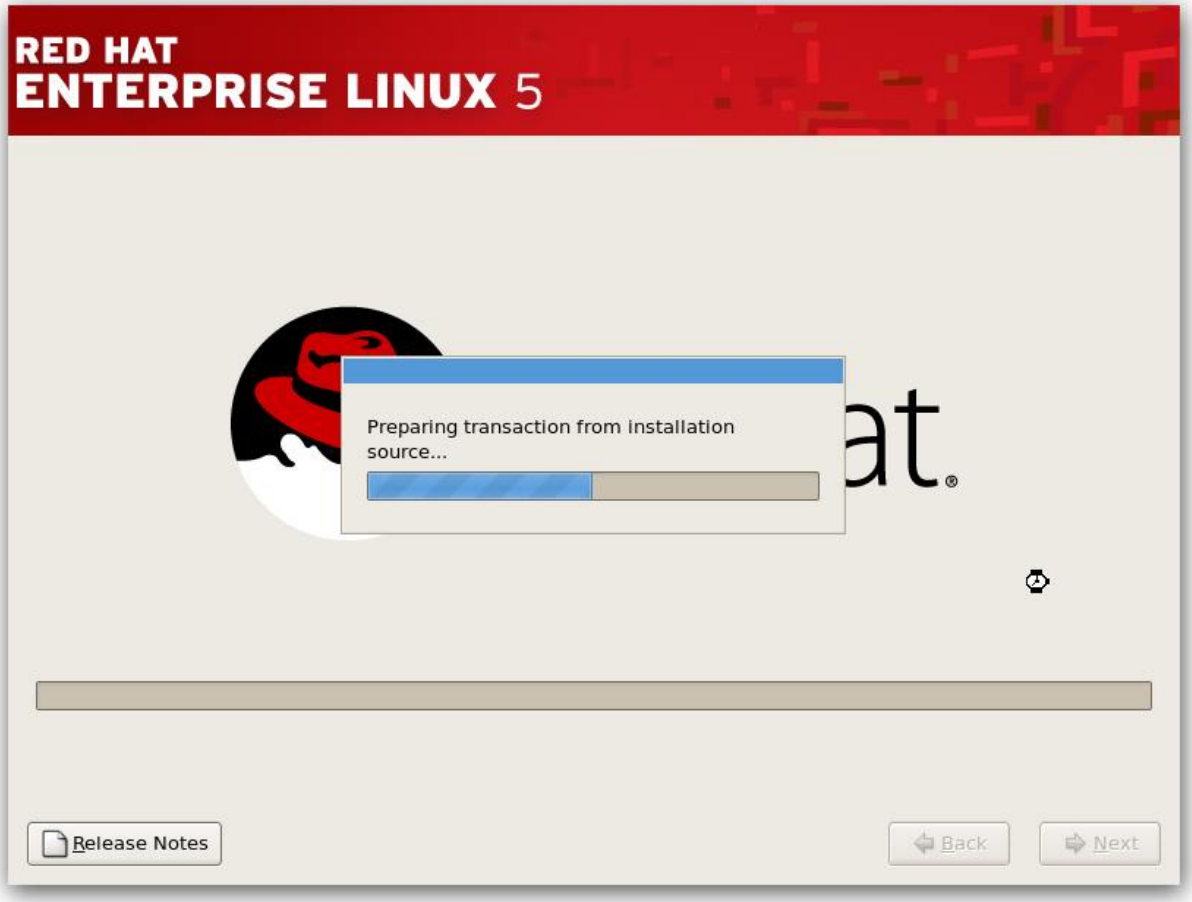
RED HAT
ENTERPRISE LINUX 5
Preparing transaction from installation source...
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing glibc-common-2.5-12.i386 (62 MB)
Common binaries and locale data for glibc
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing libgcrypt-1.2.3-1.i386 (338 KB)
A general-purpose cryptography library.
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing libXcursor-1.1.7-1.1.i386 (53 KB)
X.Org X11 libXcursor runtime library
Remaining time: 8 minutes
Release Notes
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Next

RED HAT
ENTERPRISE LINUX 5
redhat
Installing libutempter-1.1.4-3.fc6.i386 (36 KB)
A privileged helper for utmp/wtmp updates
Remaining time: 6 minutes
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing kernel-2.6.18-8.el5.i686 (33 MB)
The Linux kernel (the core of the Linux operating system)
Remaining time: 4 minutes
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing gnome-mag-0.13.1-1.fc6.i386 (247 KB)
GNOME Magnifier
Remaining time: 4 minutes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing nautilus-2.16.2-6.el5.i386 (12 MB)
Nautilus is a file manager for GNOME.
Remaining time: 4 minutes
Release Notes
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RED HAT
ENTERPRISE LINUX 5
redhat
Installing xorg-x11-fonts-base-7.1-2.1.el5.noarch (4 MB)
Base fonts required by the X Window System.
Remaining time: 2 minutes
Release Notes
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Next

RED HAT
ENTERPRISE LINUX 5
redhat
Installing xorg-x11-fonts-misc-7.1-2.1.el5.noarch (2 MB)
misc bitmap fonts for the X Window System
Remaining time: 2 minutes
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RED HAT
ENTERPRISE LINUX 5
Performing post install
configuration...
Installing minicom-2.1-3.i386 (592 KB)
A text-based modem control and terminal emulation program.
Release Notes
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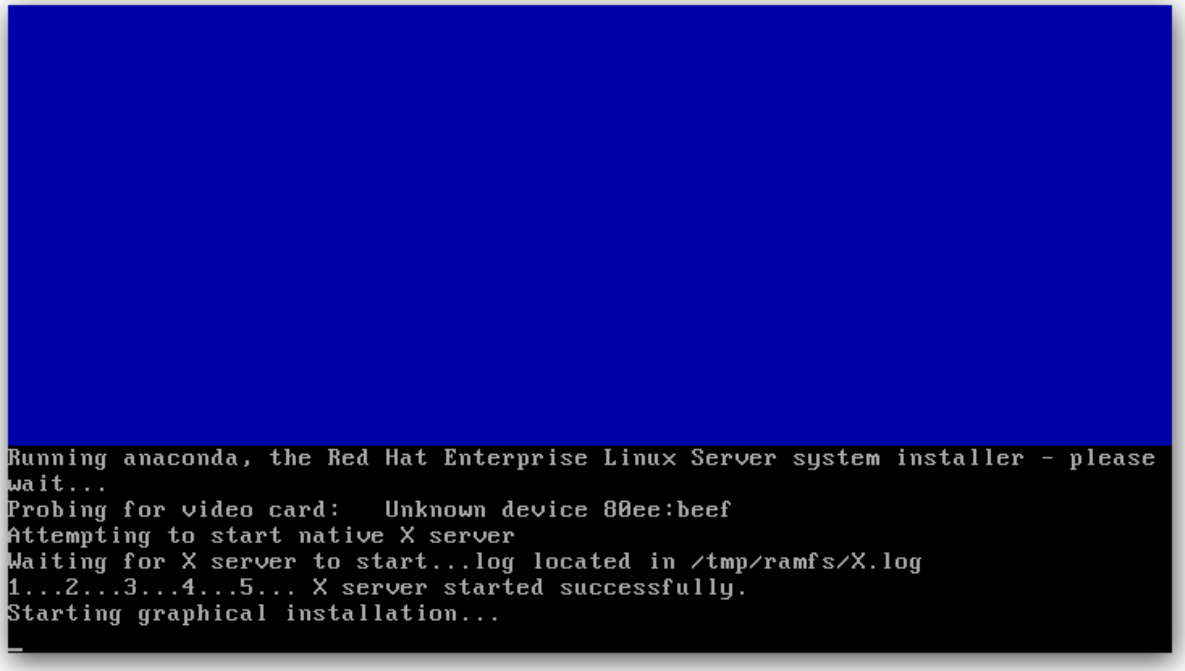
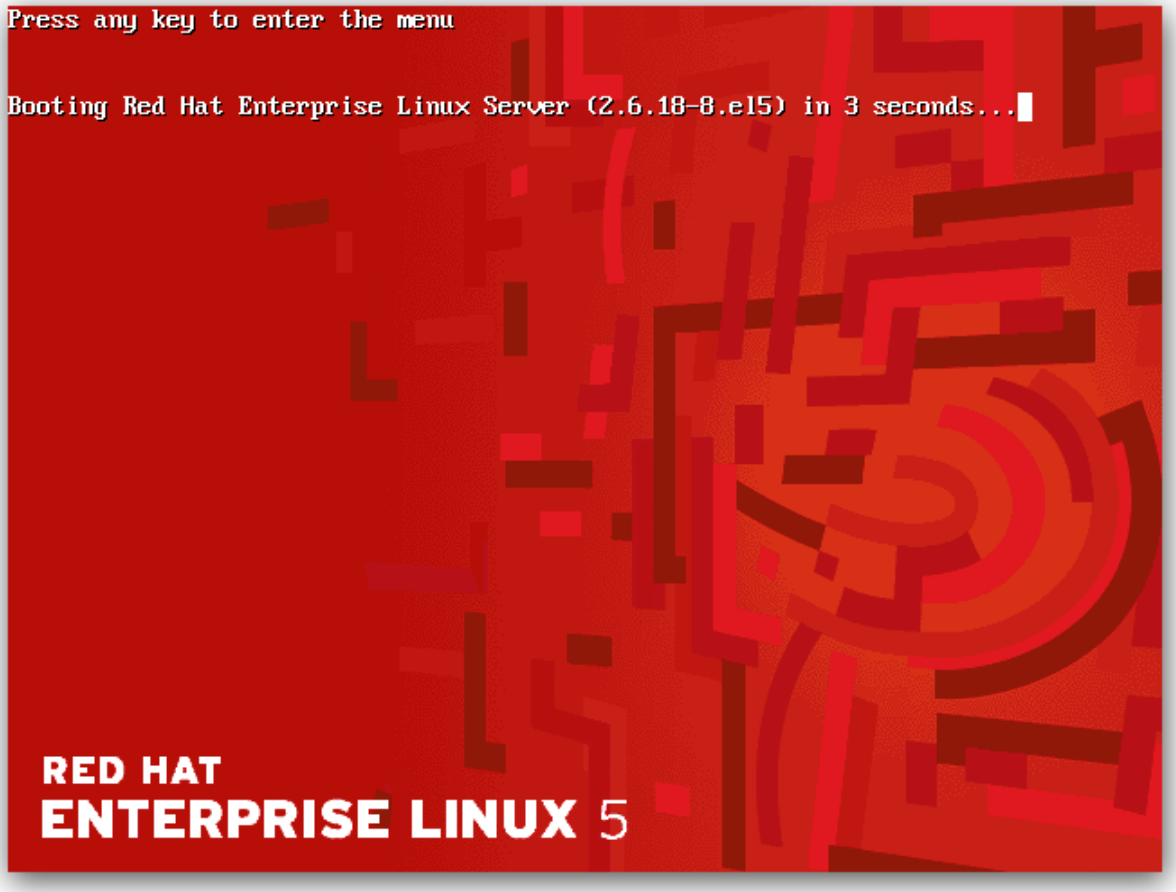
Next

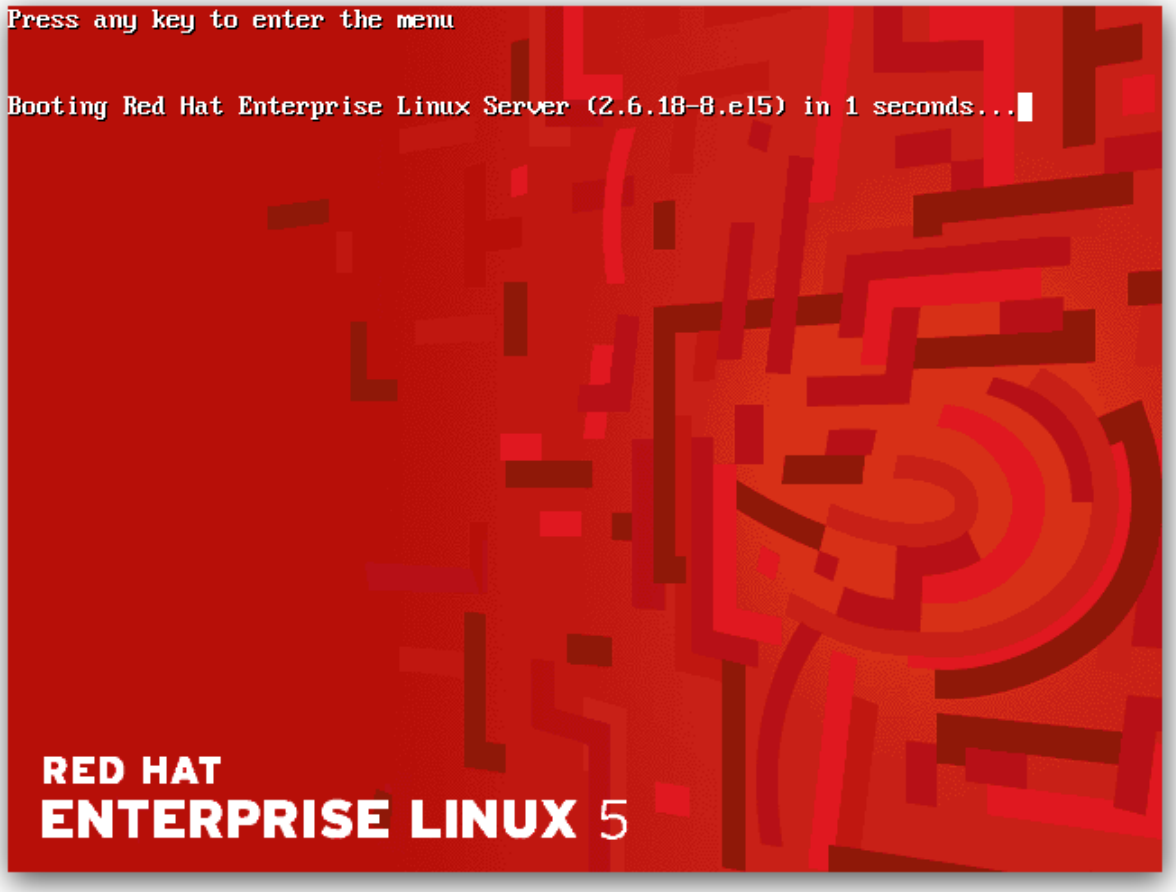
click Reboot.



```
Running anaconda, the Red Hat Enterprise Linux Server system installer - please
wait...
Probing for video card:   Unknown device 80ee:beef
Attempting to start native X server
Waiting for X server to start...log located in /tmp/ramfs/X.log
1...2...3...4...5... X server started successfully.
Starting graphical installation...
sending termination signals...done
_
```

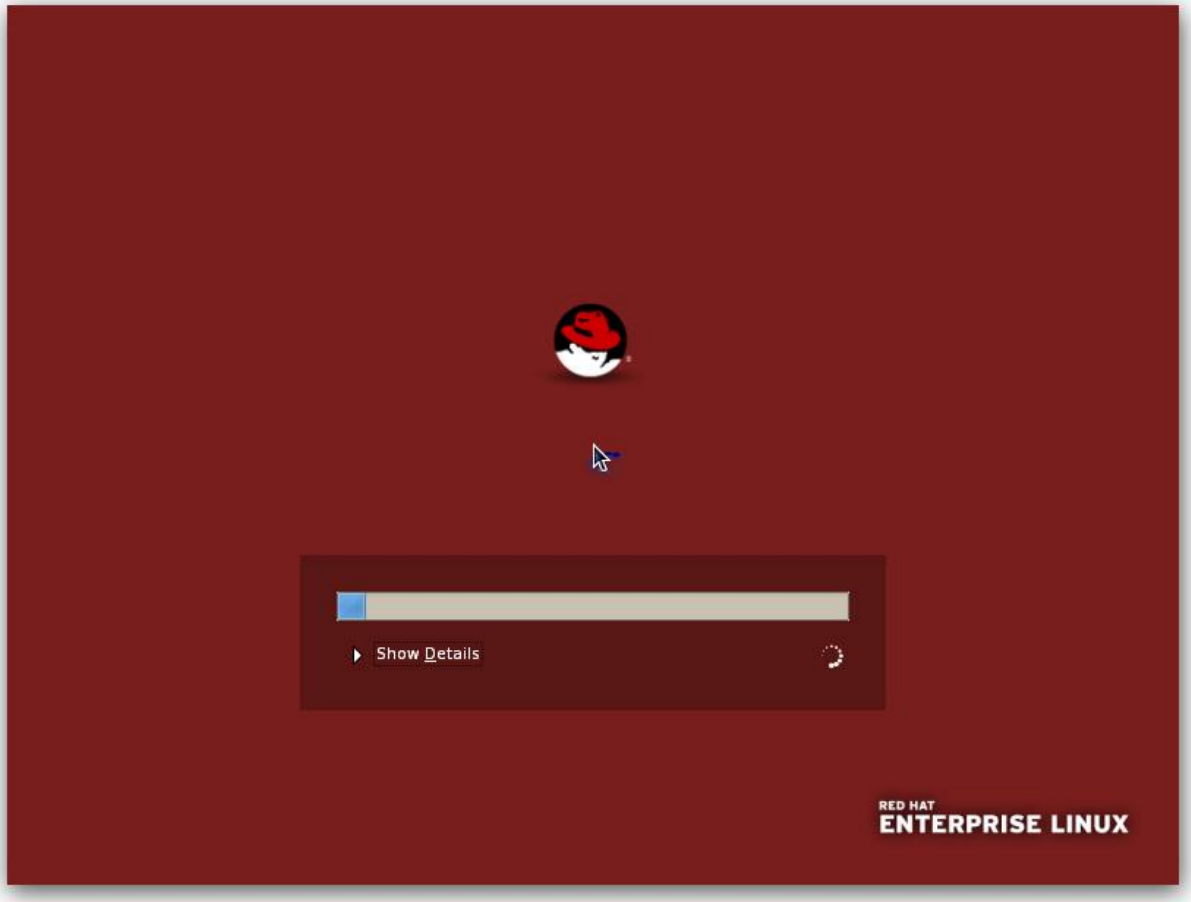
```
Attempting to start native X server
Waiting for X server to start...log located in /tmp/ramfs/X.log
1...2...3...4...5... X server started successfully.
Starting graphical installation...
sending termination signals...done
sending kill signals...done
disabling swap...
        /dev/mapper/VolGroup00-LogVol01
unmounting filesystems...
        /mnt/runtime done
        disabling /dev/loop0
        /proc/bus/usb done
        /proc done
        /dev/pts done
        /sys done
        /tmp/ramfs done
        /selinux done
        /mnt/sysimage/boot done
        /mnt/sysimage/proc done
        /mnt/sysimage/sys done
        /mnt/sysimage/selinux done
        /mnt/sysimage/dev done
        /mnt/sysimage done
rebooting system
_
```


Press any key to enter the menu
Booting Red Hat Enterprise Linux Server (2.6.18-8.el5) in 3 seconds...
RED HAT
ENTERPRISE LINUX 5

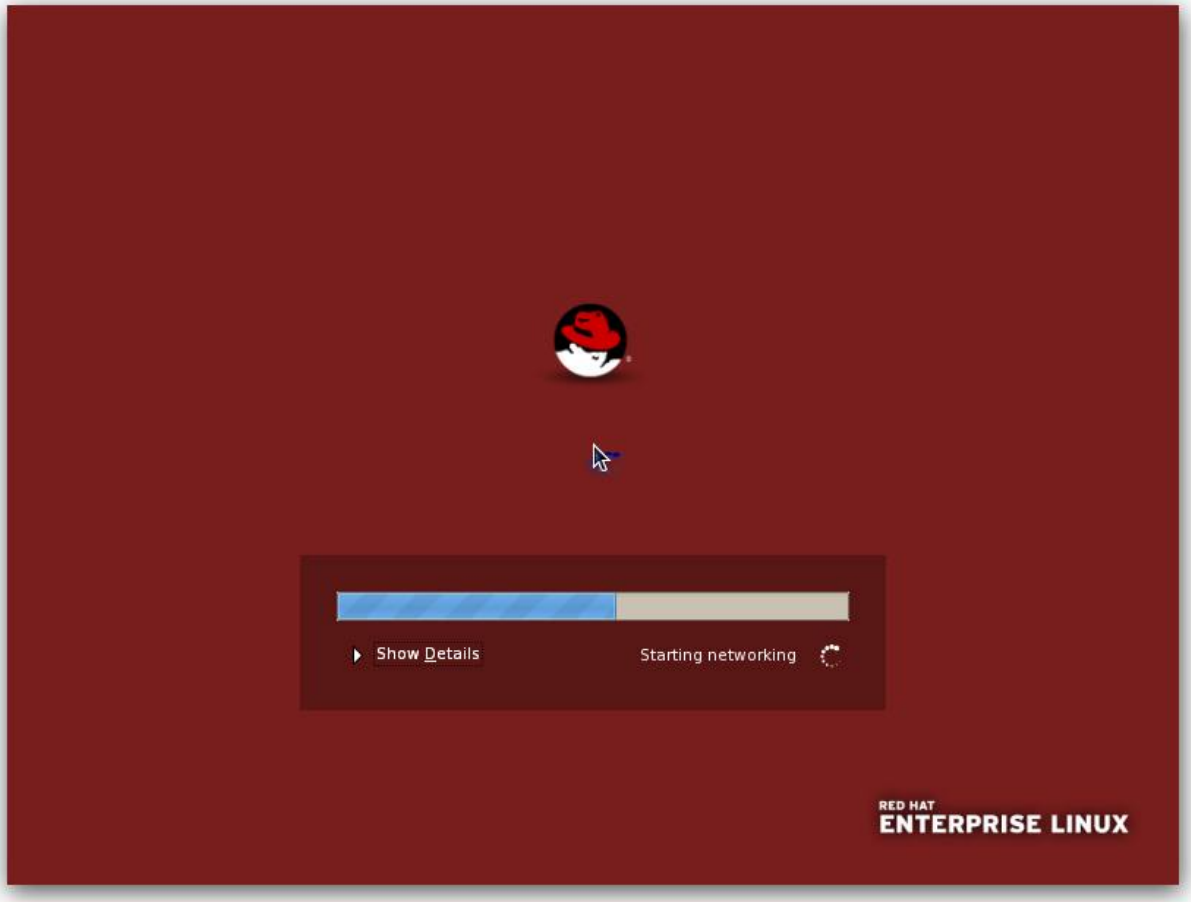


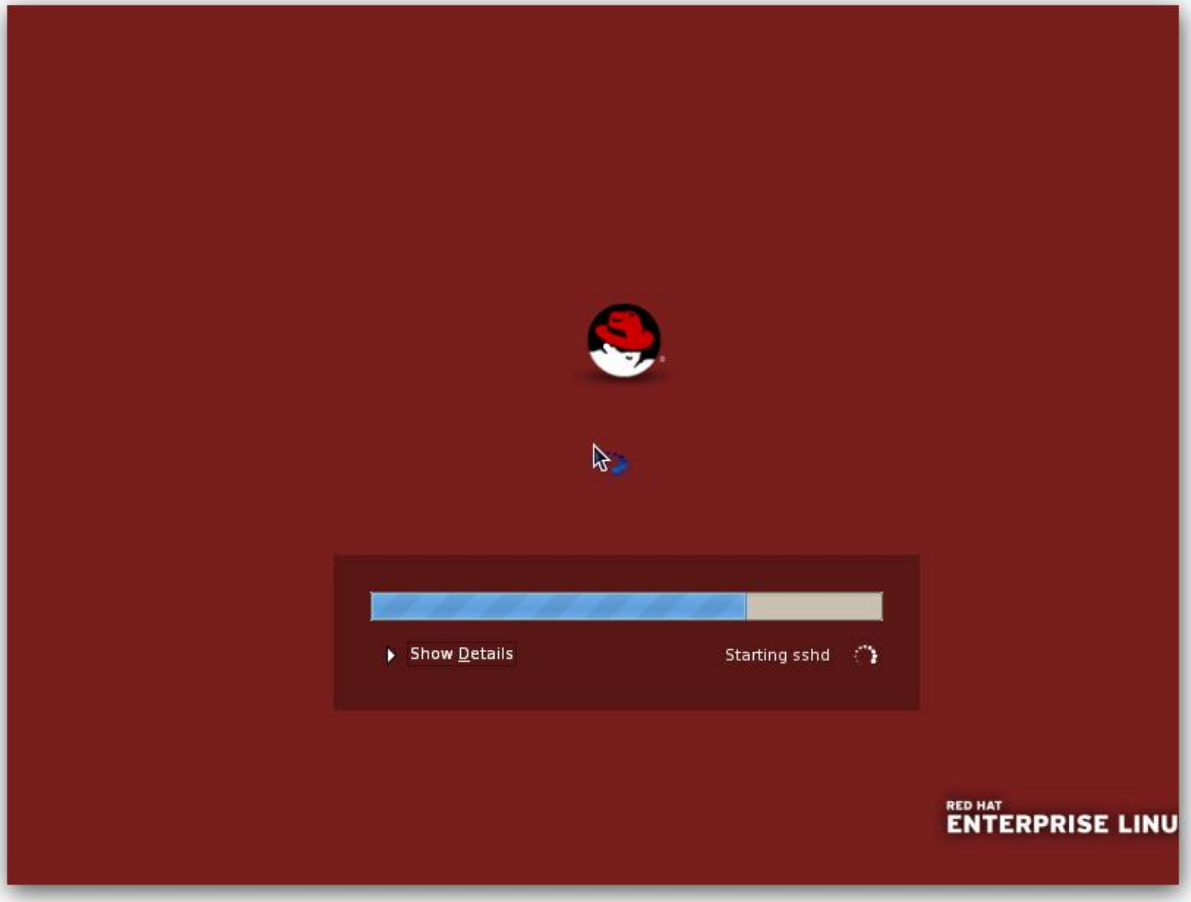

```
  Booting 'Red Hat Enterprise Linux Server (2.6.18-8.el5)'

root (hd0,0)
 Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-2.6.18-8.el5 ro root=/dev/VolGroup00/LogVol00 rhgb quiet
   [Linux-bzImage, setup=0x1e00, size=0x1ad054]
initrd /initrd-2.6.18-8.el5.img
   [Linux-initrd @ 0x1fda9000, 0x236e80 bytes]

_
```

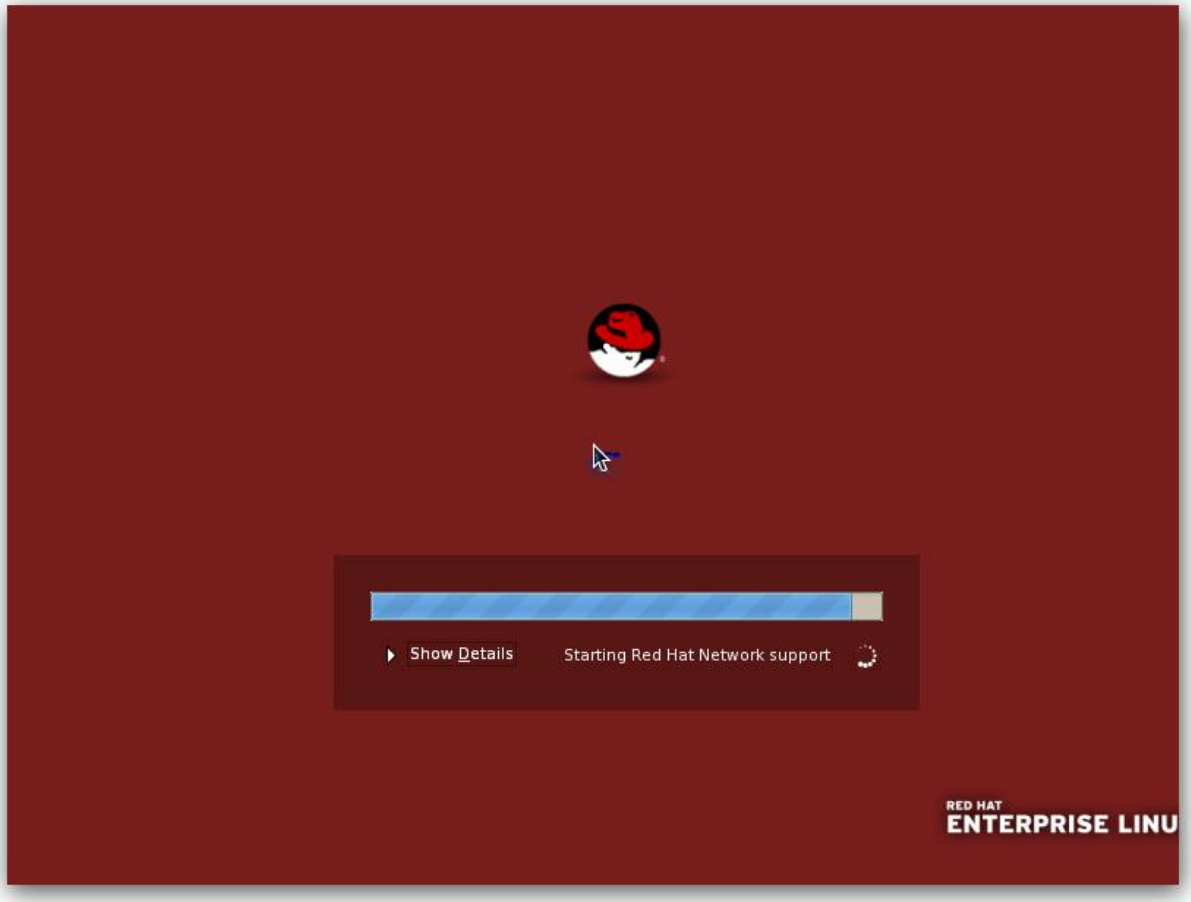
```
  Booting 'Red Hat Enterprise Linux Server (2.6.18-8.el5)'

root (hd0,0)
 Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-2.6.18-8.el5 ro root=/dev/VolGroup00/LogVol00 rhgb quiet
   [Linux-bzImage, setup=0x1e00, size=0x1ad054]
initrd /initrd-2.6.18-8.el5.img
   [Linux-initrd @ 0x1fda9000, 0x236e80 bytes]

Red Hat nash version 5.1.19.6 starting
_
```

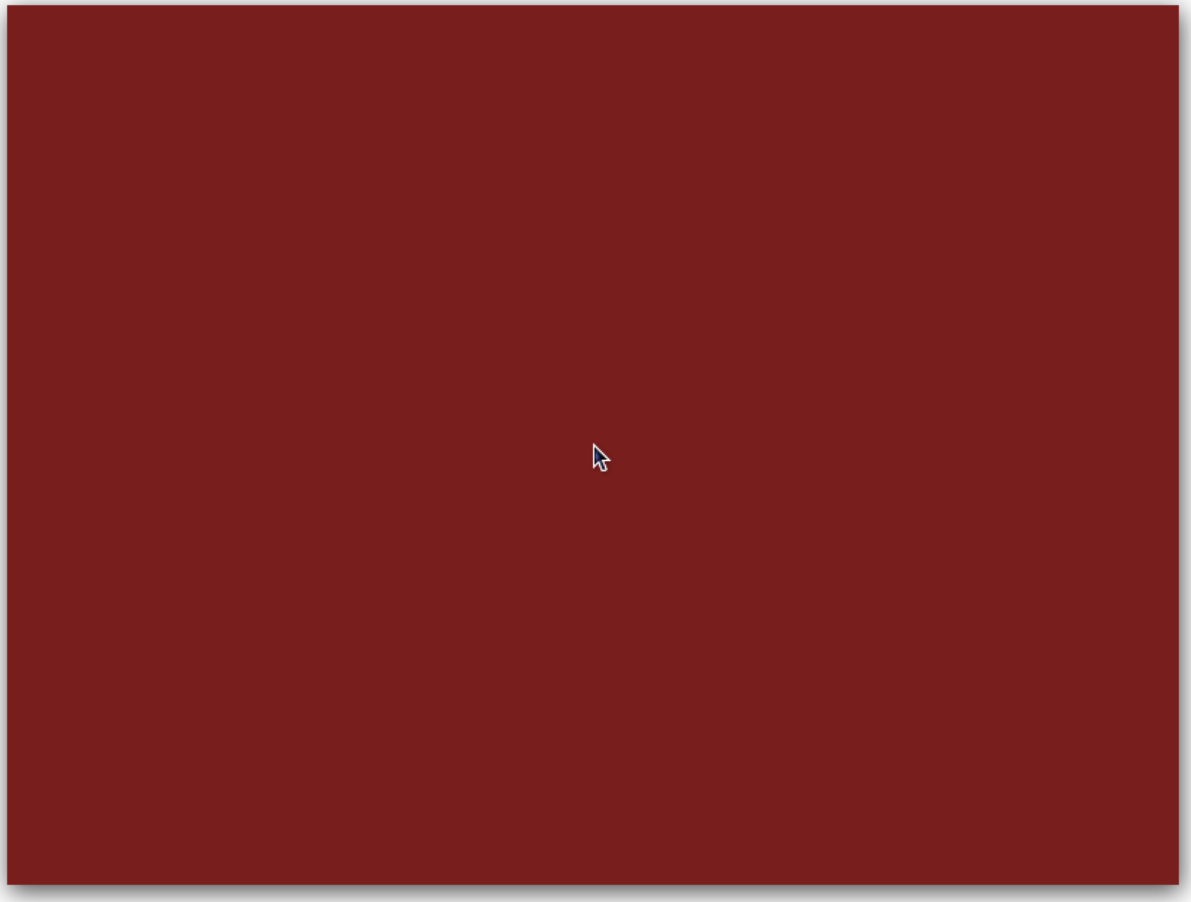


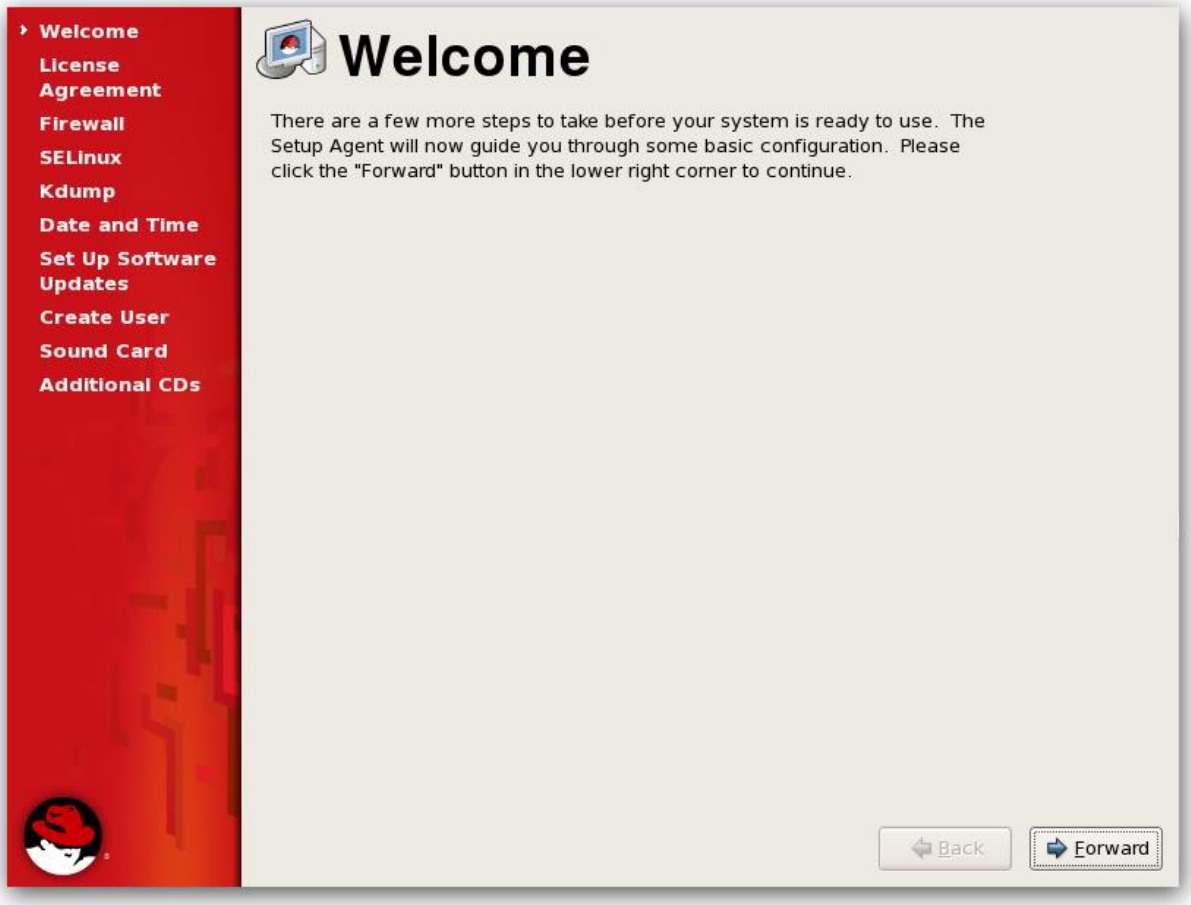
Show Details
Setting the hostname
RED HAT
ENTERPRISE LINUX


Show Details
Starting networking
RED HAT
ENTERPRISE LINUX


Show Details
Starting sshd
RED HAT
ENTERPRISE LINU


Show Details
Starting Red Hat Network support
RED HAT
ENTERPRISE LINU





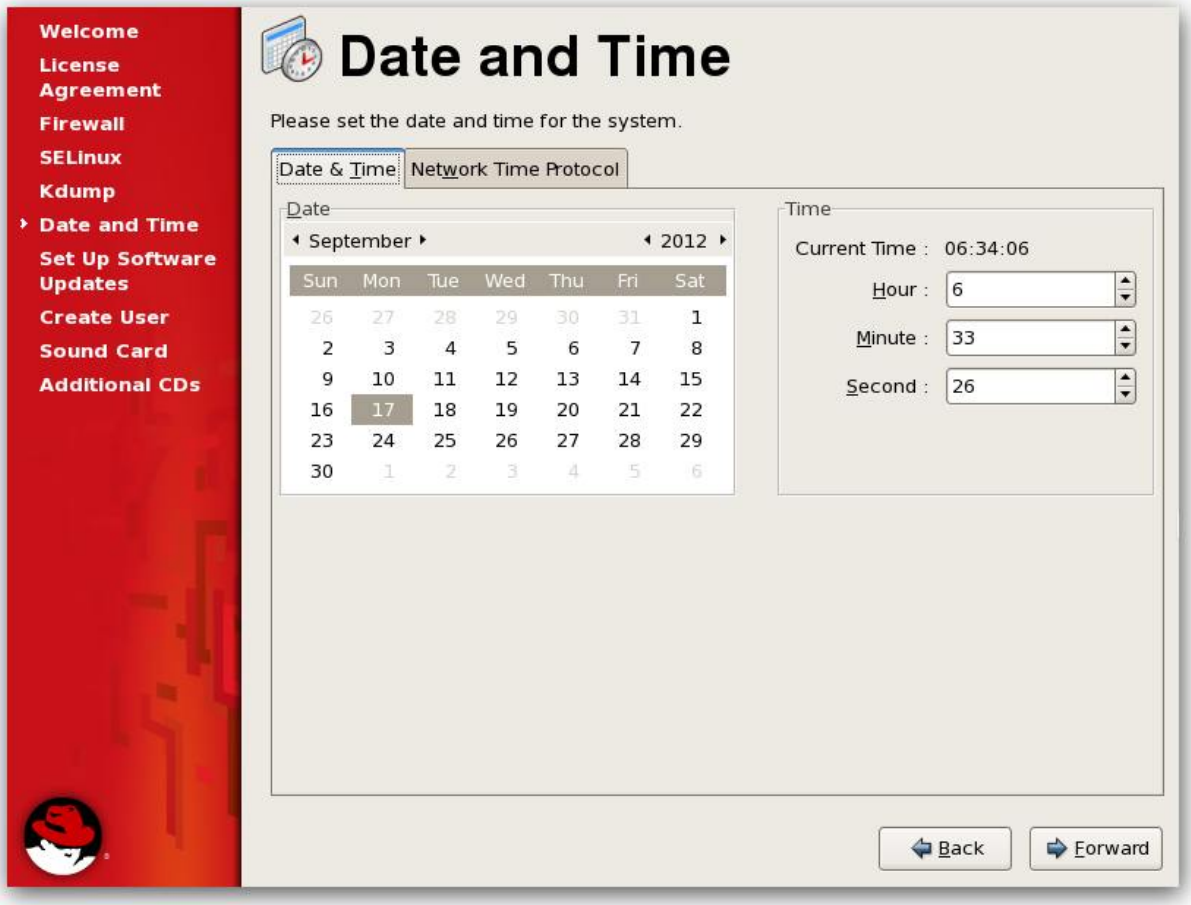
Click forward.

Check I accept the license terms and Click forward.

Click forward.

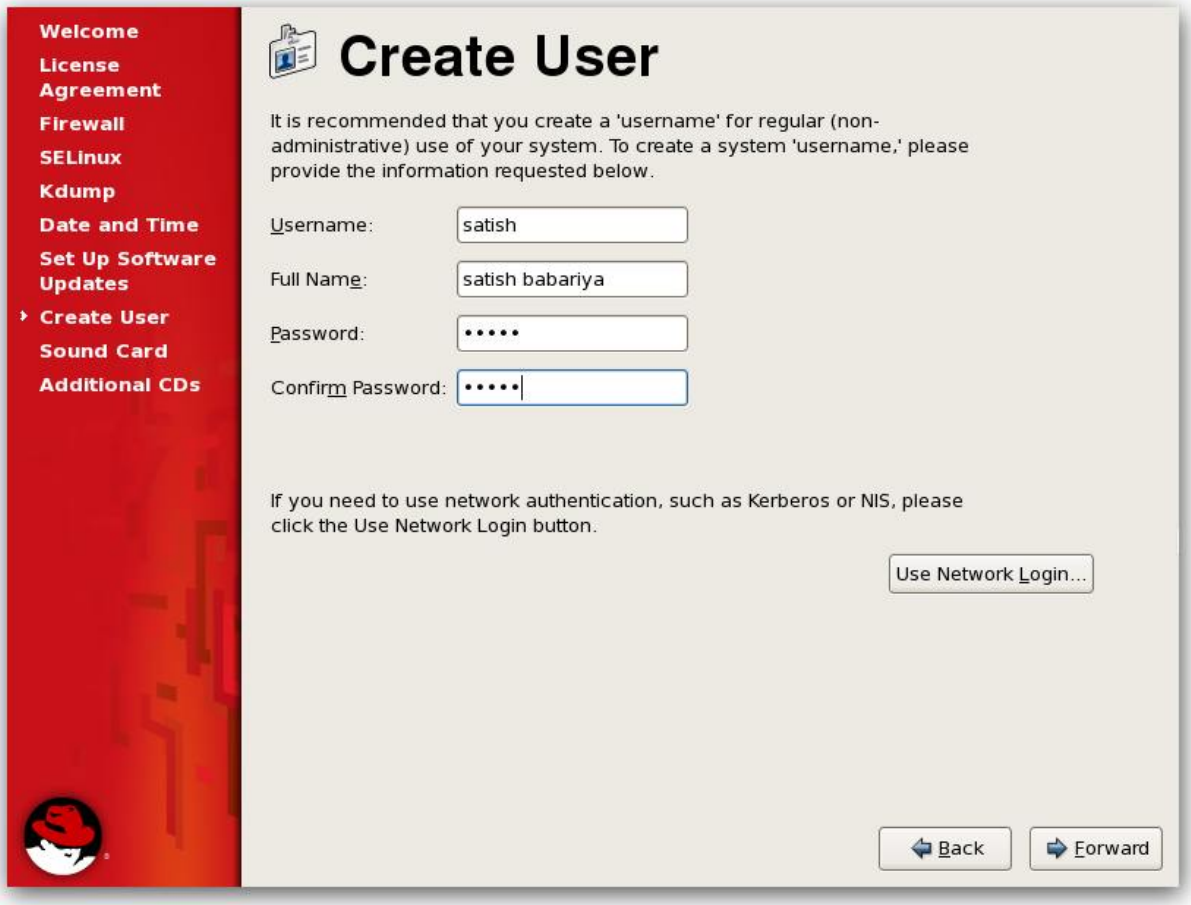
Click forward.

Click forward.

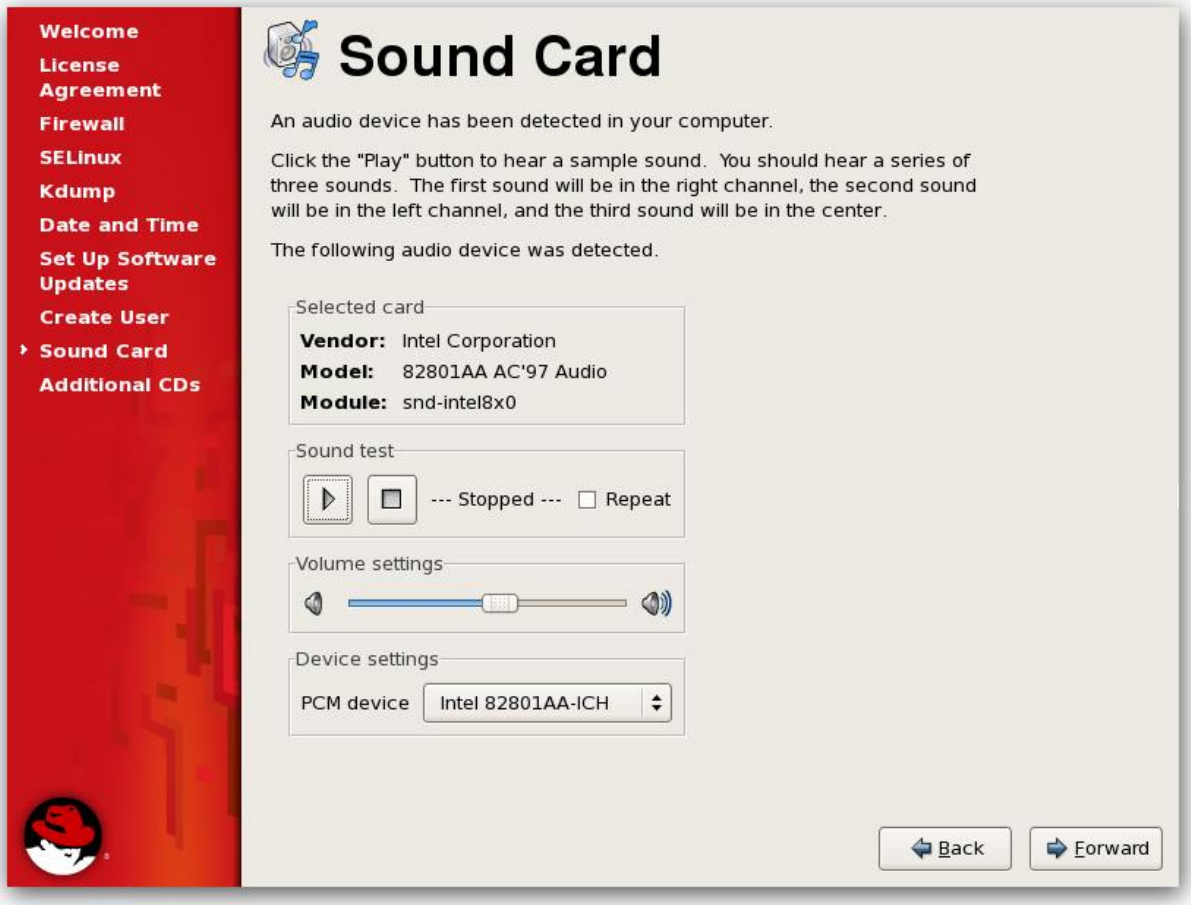


Select your time and click Next.

Select your desired option for Updates.
Click forward.

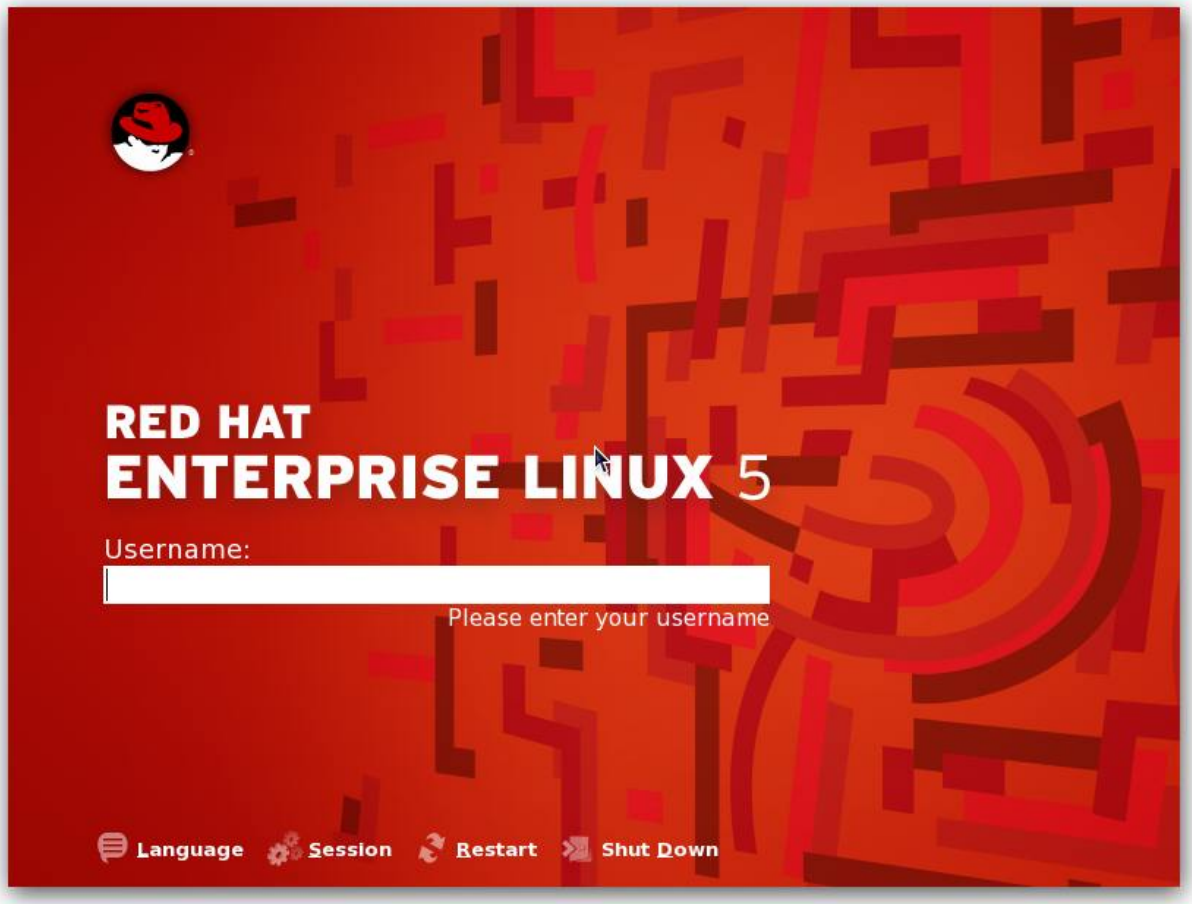


Type your desired user name in the text- box and click forward

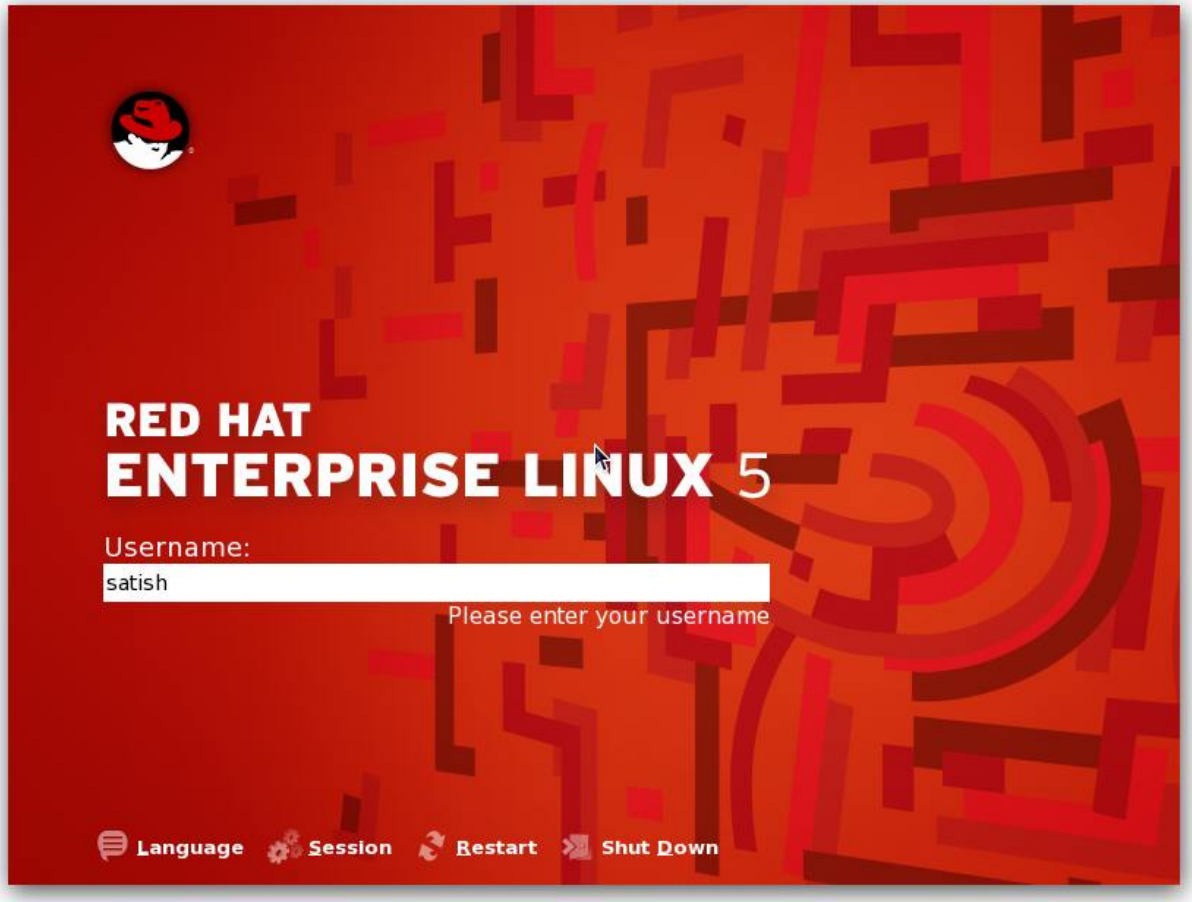


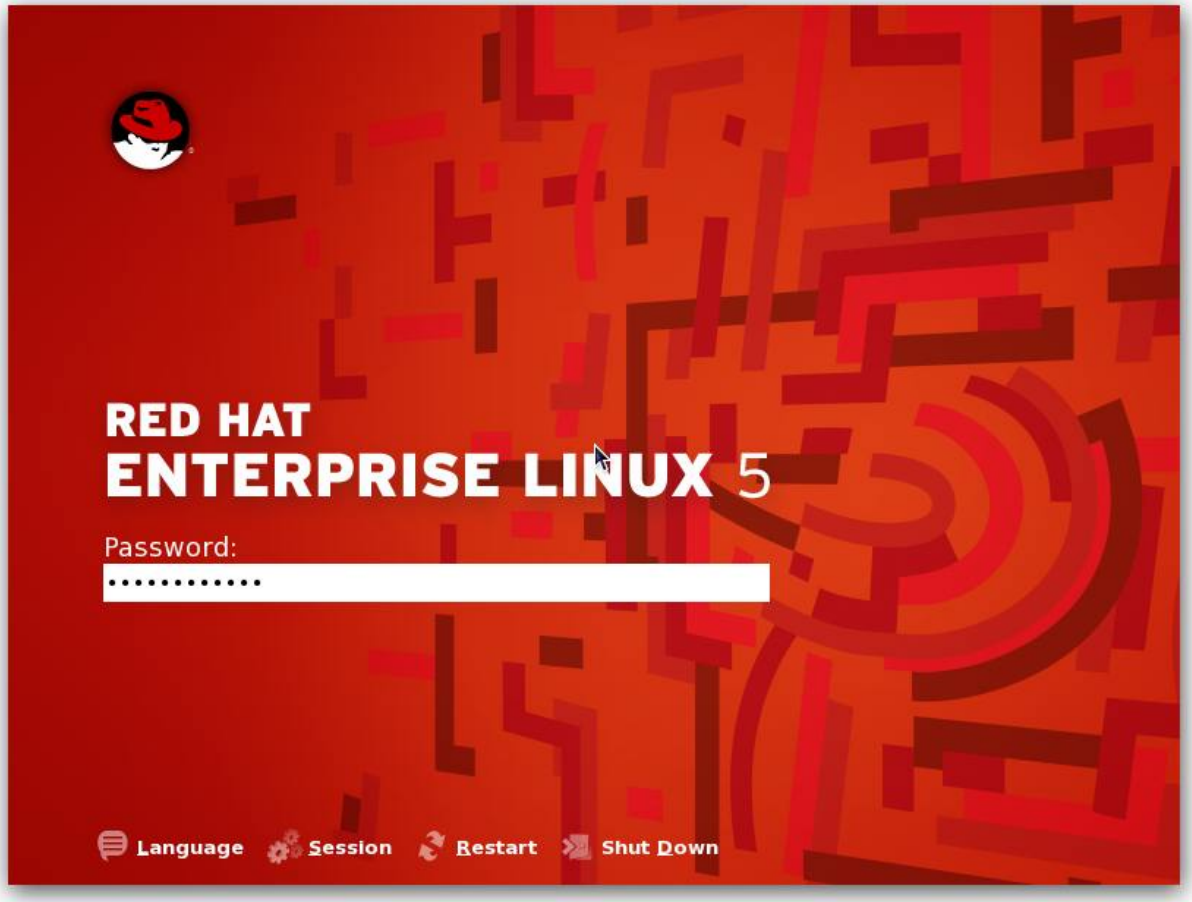
click forward

click finish

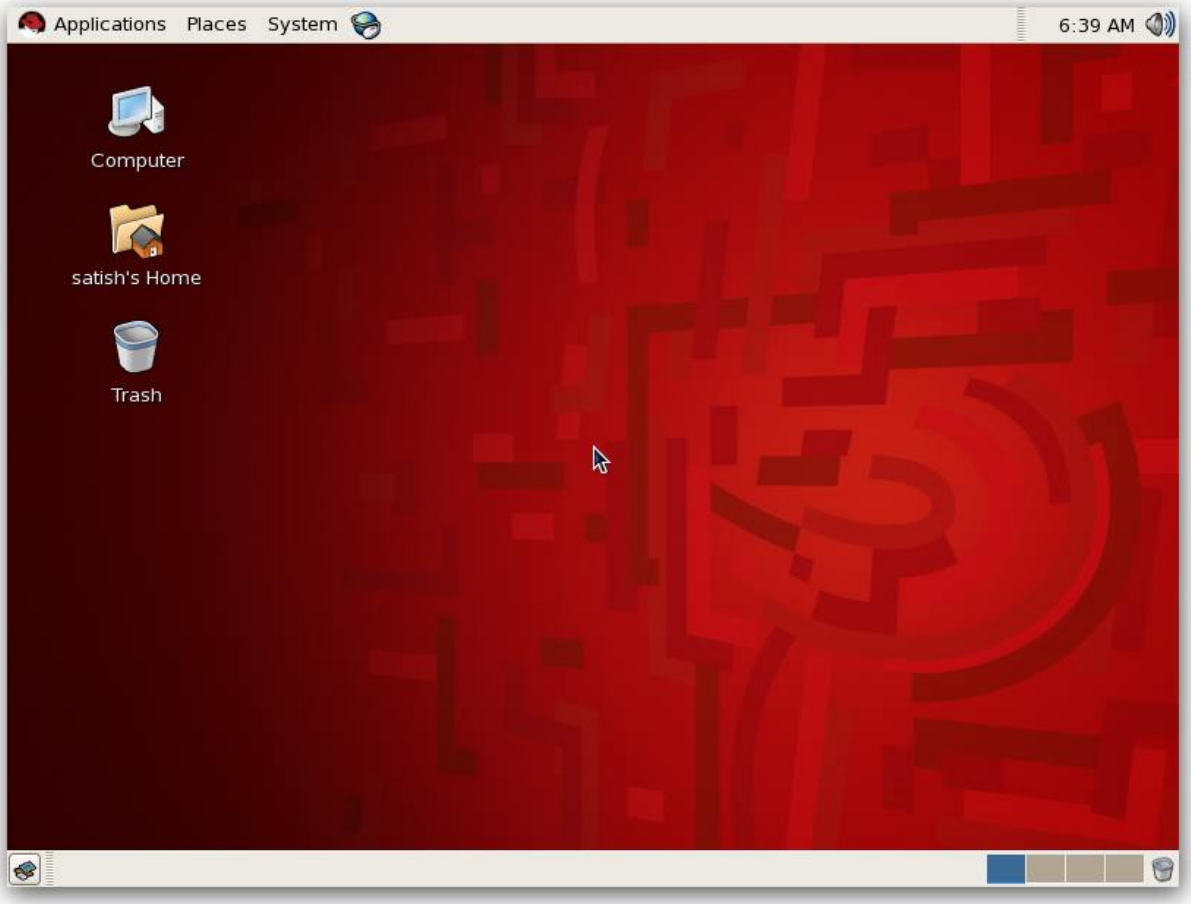


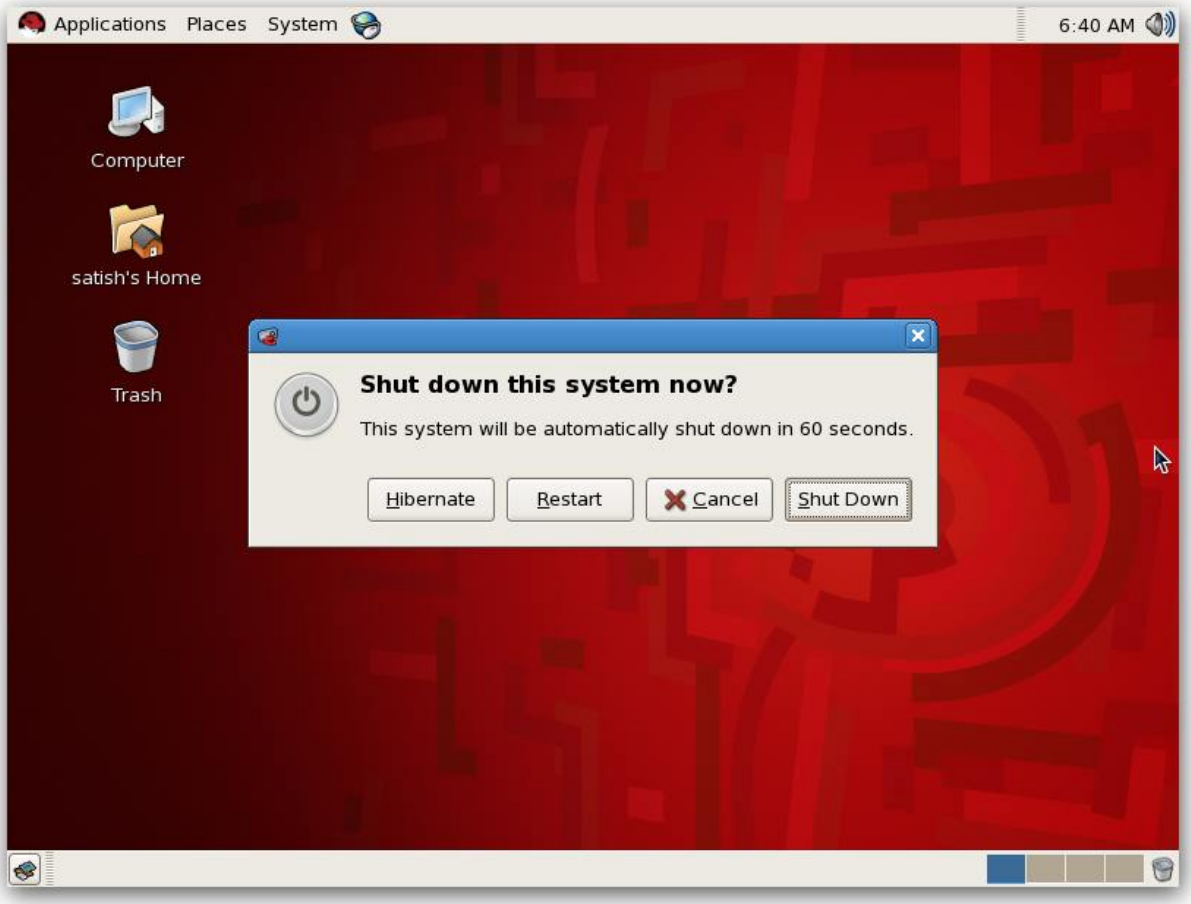
Enter user name

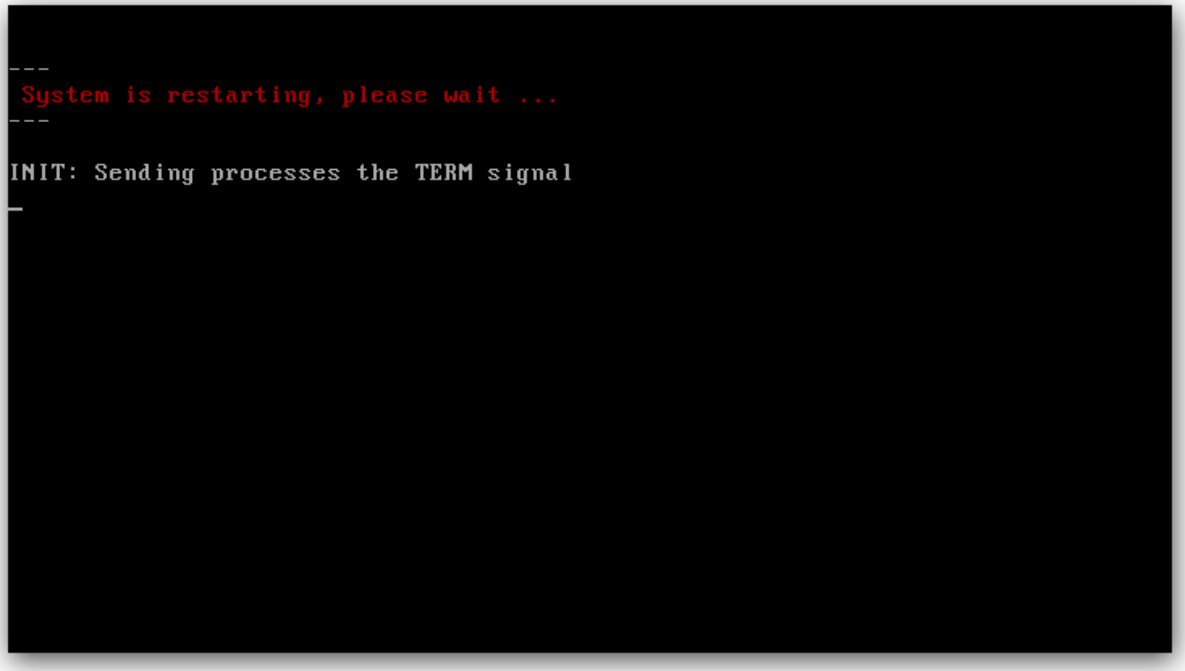

RED HAT
ENTERPRISE LINUX 5
Username:
satish
Please enter your username
Language
Session
Restart
Shut Down



Enter password

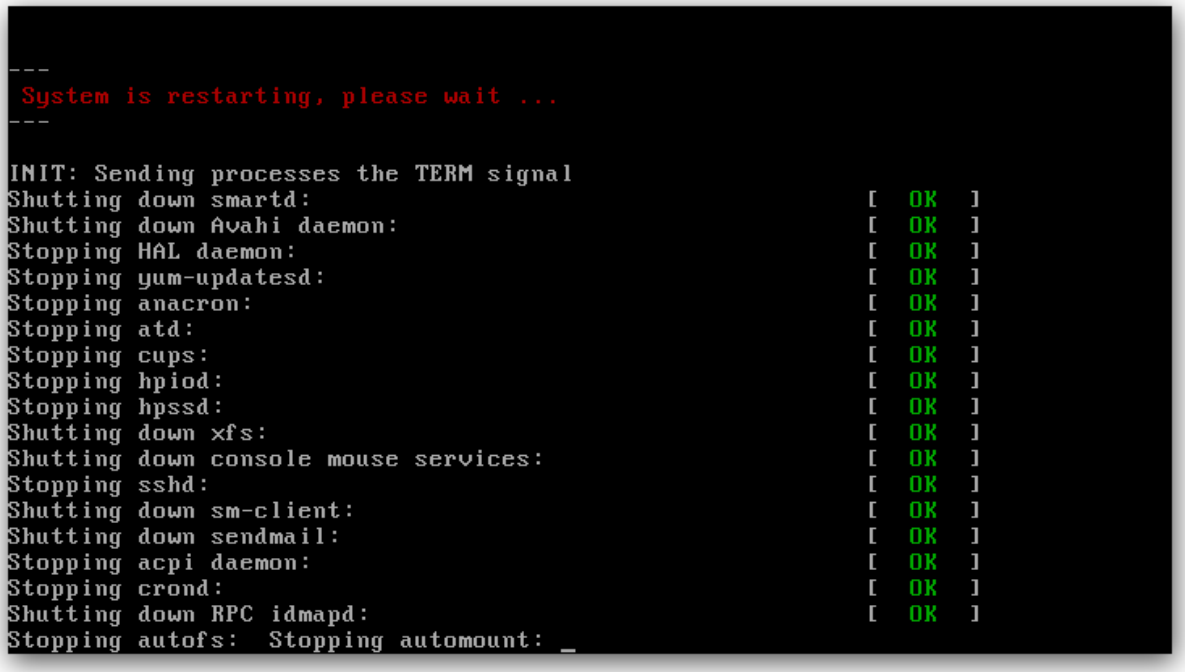

Applications
Places
System
6:39 AM
Computer
satish's Home
Trash

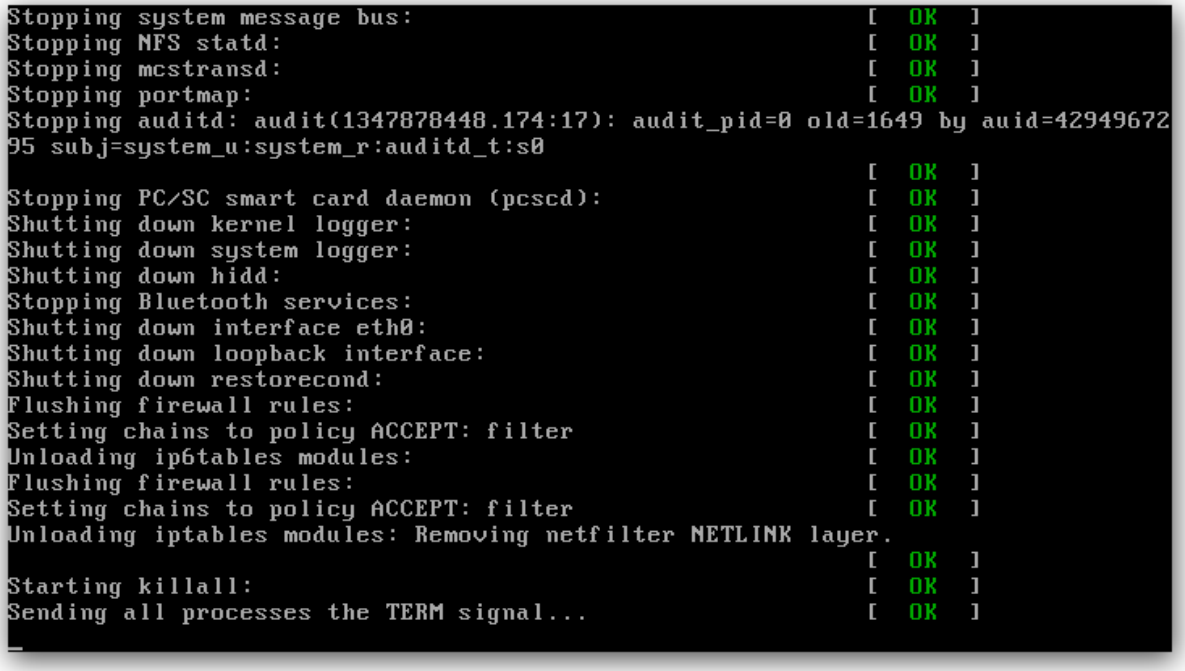

Applications
Places
System
6:40 AM
Computer
satish's Home
Trash
Shut down this system now?
This system will be automatically shut down in 60 seconds.
Hibernate
Restart
Cancel
Shut Down



System is restarting, please wait ...

INIT: Sending processes the TERM signal





And there you have a fresh copy of red hat enterprise linux 5.0

redhat.
CERTIFIED
ENGINEER

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FAITH IS A FORCE OF LIFE