



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 Intel / AMD	s390 and s390x i386 and x86_64	Red Hat Enterprise Linux 4, 5 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: 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



<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



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Press enter.


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What language would you like to use during the installation process?

- Chinese(Simplified) (简体中文)
- Chinese(Traditional) (繁體中文)
- Croatian (Hrvatski)
- Czech (Čeština)
- Danish (Dansk)
- Dutch (Nederlands)
- English (English)
- Estonian (eesti keel)
- Finnish (suomi)
- French (Français)
- German (Deutsch)
- Greek (Ελληνικά)
- Gujarati (ગુજરાતી)

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Select your language and click Next.


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Select the appropriate keyboard for the system.

- Slovenian
- Spanish
- Swedish
- Swiss French
- Swiss French (latin1)
- Swiss German
- Swiss German (latin1)
- Tamil (Inscript)
- Tamil (Typewriter)
- Turkish
- U.S. English**
- U.S. International
- Ukrainian
- United Kingdom

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keyboard or input method and click Next.

RED HAT ENTERPRISE LINUX 5



Select the appropriate keyboard for the system.

Slovenian
Spanish
Swedish
Swiss French
Swiss French (latin1)
Swiss German
Swiss German (latin1)
Tamil (Inscript)
Tamil (Typewriter)
Turkish
U.S. English
U.S. International
Ukrainian
United Kingdom

Installation Number

To install the full set of supported packages included in your subscription, please enter your Installation Number

Installation Number:

Skip entering Installation Number

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Click on skip entering installation number and click Next.

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Select the appropriate keyboard for the system.

- Slovenian
- Spanish
- Swedish
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- Swiss French (latin1)
- Swiss German
- Swiss German (latin1)
- Tamil (Inscript)
- Tamil (Typewriter)
- Turkish
- U.S. English**
- U.S. International
- Ukrainian
- United Kingdom

Skip


 If you're unable to locate the Installation Number, consult <http://www.redhat.com/apps/support/in.html>.

If you skip:

- * You may not get access to the full set of packages included in your subscription.
- * It may result in an unsupported/uncertified installation of Red Hat Enterprise Linux.
- * You will not get software and security updates for packages not included in your subscription.

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Press skip box.

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Select the appropriate keyboard for the system.

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- Swiss French (latin1)
- Swiss German
- Swiss German (latin1)
- 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

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click Yes.

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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 your own.

Remove linux partitions on selected drives and create default layout. ▾

Select the drive(s) to use for this installation.

<input checked="" type="checkbox"/>	sda	8189 MB	ATA VBOX HARDDISK
-------------------------------------	-----	---------	-------------------

+ Advanced storage configuration

Review and modify partitioning layout

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 Next

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 partiti

Select the drive

sda 81E



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

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click Next.

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Network Devices

Active on Boot	Device	IPv4/Netmask	IPv6/Prefix	Edit
<input checked="" type="checkbox"/>	eth0	DHCP	DHCP	

Hostname

Set the hostname:

automatically via DHCP

manually (e.g., host.domain.com)


Miscellaneous Settings

Gateway:

Primary DNS:

Secondary DNS:

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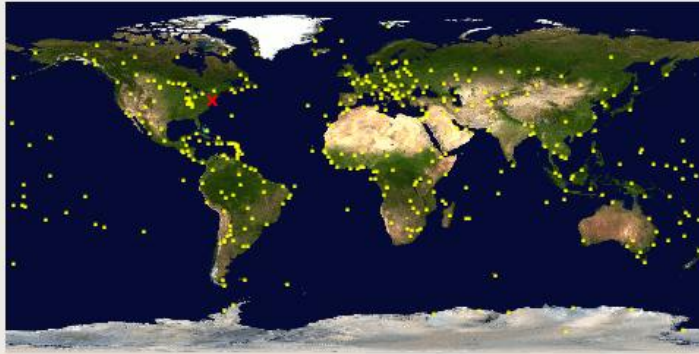
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click Next.

RED HAT ENTERPRISE LINUX 5


Please click into the map to choose a region:





America/New_York

Eastern Time

System clock uses UTC

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Select your region and click Next.


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The root account is used for administering the system. Enter a password for the root user.

Root Password:

Confirm:

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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

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click Next.

RED HAT ENTERPRISE LINUX 5

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- Customize now

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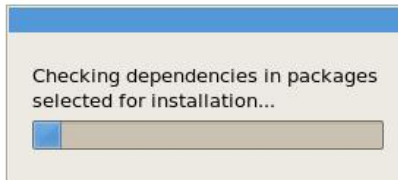
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RED HAT ENTERPRISE LINUX 5


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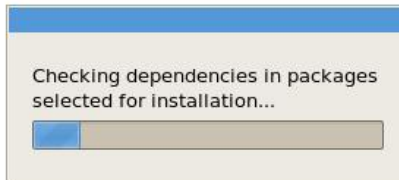
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RED HAT ENTERPRISE LINUX 5

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RED HAT ENTERPRISE LINUX 5

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- Customize later
- Customize now

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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.

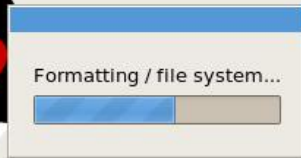
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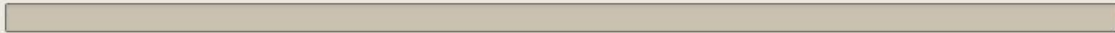
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click Next.

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hat®



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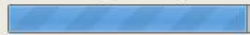
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Formatting / file system...



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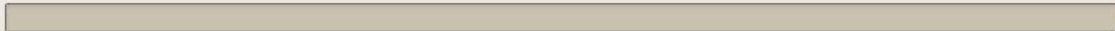
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Transferring install image to hard drive...

at.

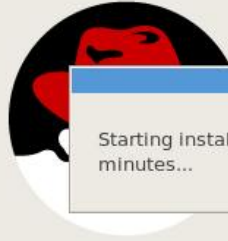


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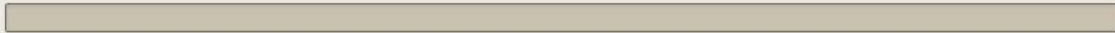
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Starting install process. This may take several minutes...

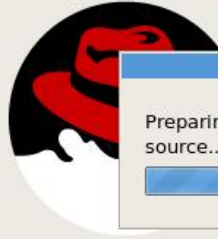


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Preparing transaction from Installation
source...




at.®



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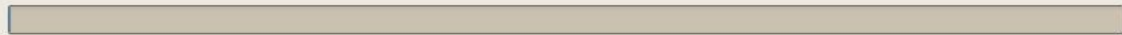
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**RED HAT
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Installing glibc-common-2.5-12.i386 (62 MB)
Common binaries and locale data for glibc

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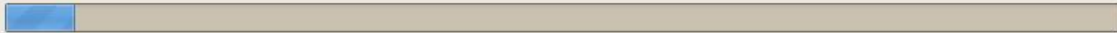
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+

**RED HAT
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Installing libgcrypt-1.2.3-1.i386 (338 KB)
A general-purpose cryptography library.

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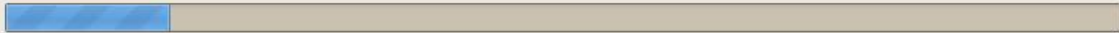
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Installing libXcursor-1.1.7-1.1.i386 (53 KB)
X.Org X11 libXcursor runtime library

Remaining time: 8 minutes

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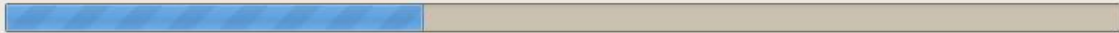
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Installing libutempter-1.1.4-3.fc6.i386 (36 KB)
A privileged helper for utmp/wtmp updates

Remaining time: 6 minutes

 [Release Notes](#)

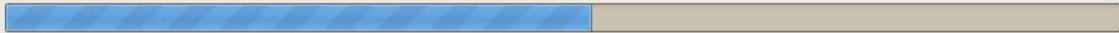
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redhat.




Installing kernel-2.6.18-8.el5.i686 (33 MB)
The Linux kernel (the core of the Linux operating system)

Remaining time: 4 minutes

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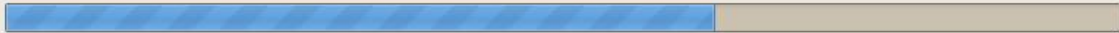
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Installing gnome-mag-0.13.1-1.fc6.i386 (247 KB)
GNOME Magnifier

Remaining time: 4 minutes

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redhat.



Installing nautilus-2.16.2-6.el5.i386 (12 MB)
Nautilus is a file manager for GNOME.

Remaining time: 4 minutes

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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

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Installing xorg-x11-fonts-misc-7.1-2.1.el5.noarch (2 MB)
misc bitmap fonts for the X Window System

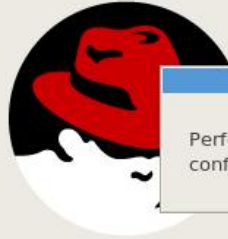
Remaining time: 2 minutes

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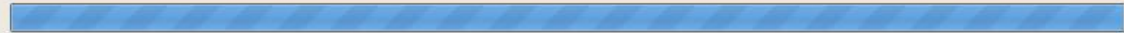
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Performing post install
configuration...

at.



Installing minicom-2.1-3.i386 (592 KB)
A text-based modem control and terminal emulation program.

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RED HAT ENTERPRISE LINUX 5




Congratulations, the installation is complete.

Remove any media used during the installation process and press the "Reboot" button to reboot your system.

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 Reboot

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...
```

```
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...█

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Press any key to enter the menu

Booting Red Hat Enterprise Linux Server (2.6.18-8.el5) in 1 seconds... █

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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/LogVol100 rhgb quiet
  [Linux-bzImage, setup=0x1e00, size=0x1ad0541]
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/UrGroup00/LogUr100 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 

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► Show Details

Starting networking 

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ENTERPRISE LINUX




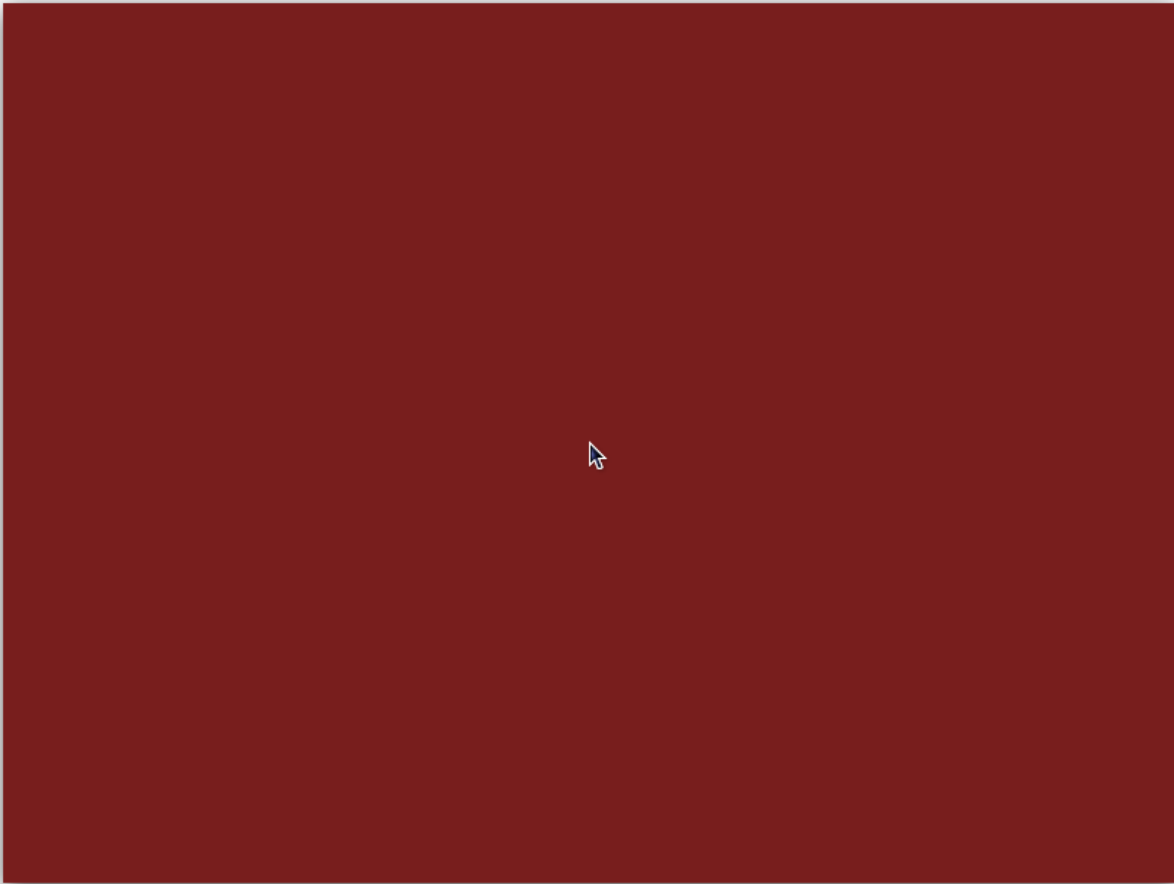
► Show Details

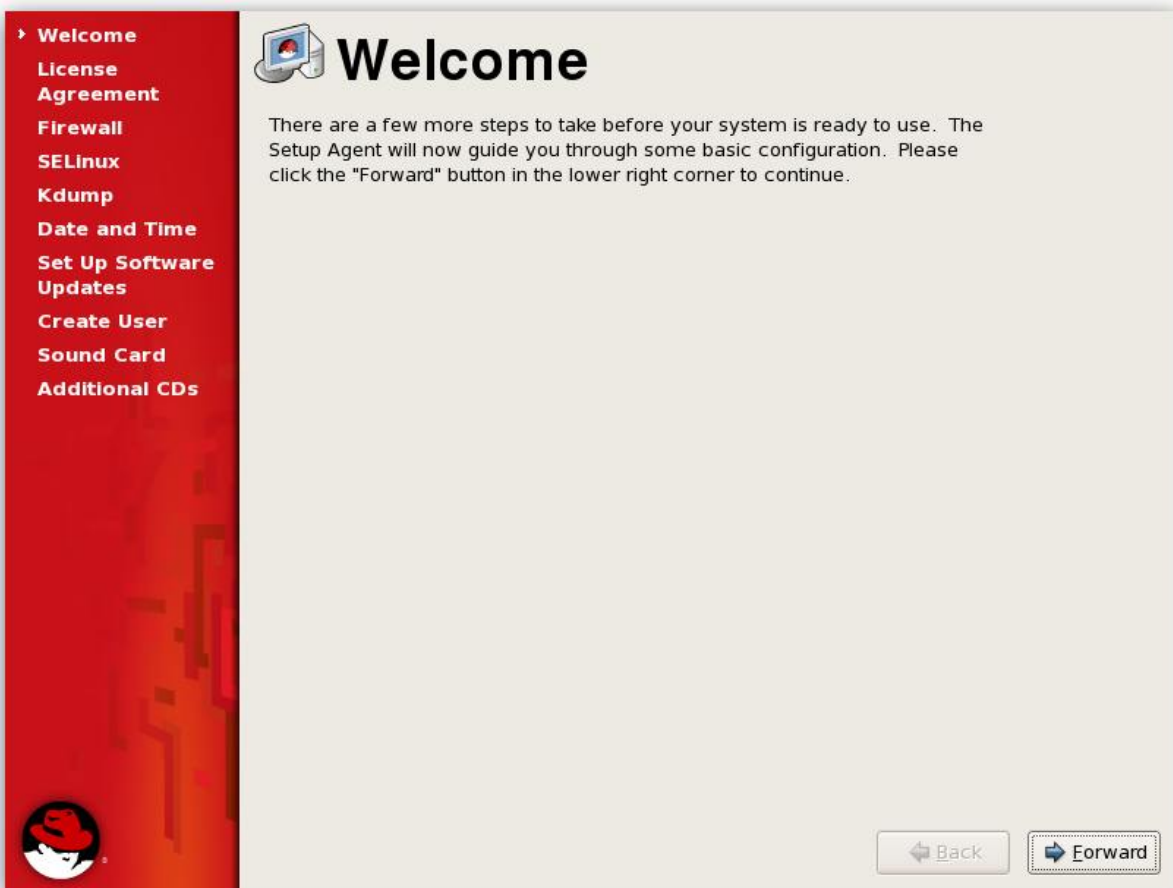
Starting sshd 

RED HAT
ENTERPRISE LINU



▶ [Show Details](#) Starting Red Hat Network support 





The image shows a window titled "Welcome" from a Red Hat Linux installation. On the left is a red sidebar with a list of menu items: Welcome, License Agreement, Firewall, SELinux, Kdump, Date and Time, Set Up Software Updates, Create User, Sound Card, and Additional CDs. The main area has a light gray background with a computer icon and the word "Welcome" in large black text. Below this, a paragraph of text explains that the Setup Agent will guide the user through basic configuration and instructs them to click the "Forward" button. At the bottom right, there are two buttons: "Back" and "Forward". The "Forward" button is highlighted with a dashed border. A small Red Hat logo is visible in the bottom left corner of the sidebar.

▸ Welcome
License Agreement
Firewall
SELinux
Kdump
Date and Time
Set Up Software Updates
Create User
Sound Card
Additional CDs

Welcome

There are a few more steps to take before your system is ready to use. The Setup Agent will now guide you through some basic configuration. Please click the "Forward" button in the lower right corner to continue.

← Back → Forward

Click forward.

Welcome

▶ **License Agreement**

Firewall

SELinux

Kdump

Date and Time

Set Up Software Updates

Create User

Sound Card

Additional CDs

License Agreement

END USER LICENSE AGREEMENT
RED HAT® ENTERPRISE LINUX® AND RED HAT APPLICATIONS

This end user license agreement (“EULA”) governs the use of any of the versions of Red Hat Enterprise Linux, any Red Hat Applications (as set forth at www.redhat.com/licenses/products), and any related updates, source code, appearance, structure and organization (the “Programs”), regardless of the delivery mechanism.

1. License Grant. Subject to the following terms, Red Hat, Inc. (“Red Hat”) grants to you (“User”) a perpetual, worldwide license to the Programs pursuant to the GNU General Public License v.2. The Programs are either a modular operating system or an application consisting of hundreds of software components. With the exception of certain image files identified in Section 2 below, the license agreement for each software component is located in the software component's source code and permits User to run, copy, modify, and redistribute (subject to certain obligations in some cases) the software component, in both source code and binary code forms. This EULA pertains solely to the Programs and does not limit User's rights under, or grant User rights that supersede, the license terms of any particular component.

Yes, I agree to the License Agreement

No, I do not agree

[Back](#) [Forward](#)

Check I accept the license terms and Click forward.

Welcome
License Agreement
▶ **Firewall**
SELinux
Kdump
Date and Time
Set Up Software Updates
Create User
Sound Card
Additional CDs

Firewall

You can use a firewall to allow access to specific services on your computer from other computers and prevent unauthorized access from the outside world. Which services, if any, do you wish to allow access to?

Firewall: Enabled

Trusted services:

- FTP
- Mail (SMTP)
- NFS4
- SSH
- Samba
- Secure WWW (HTTPS)

▶ Other ports

Back Forward

Click forward.



The image shows a window titled "SELinux" with a red sidebar on the left. The sidebar contains a list of menu items: "Welcome", "License Agreement", "Firewall", "SELinux" (highlighted with a right-pointing arrow), "Kdump", "Date and Time", "Set Up Software Updates", "Create User", "Sound Card", and "Additional CDs". At the bottom of the sidebar is a small circular logo featuring a red hat. The main content area of the window has a light gray background. At the top left of this area is a small icon of a computer monitor and keyboard. To its right is the title "SELinux" in a large, bold, black font. Below the title is a paragraph of text: "Security Enhanced Linux (SELinux) provides finer-grained security controls than those available in a traditional Linux system. It can be set up in a disabled state, a state which only warns about things which would be denied, or a fully active state. Most people should keep the default setting." Below this text is a label "SELinux Setting:" followed by a dropdown menu that currently displays "Enforcing". At the bottom right of the window are two buttons: "Back" with a left-pointing arrow and "Forward" with a right-pointing arrow.

Welcome
License Agreement
Firewall
▶ **SELinux**
Kdump
Date and Time
Set Up Software Updates
Create User
Sound Card
Additional CDs

SELinux

Security Enhanced Linux (SELinux) provides finer-grained security controls than those available in a traditional Linux system. It can be set up in a disabled state, a state which only warns about things which would be denied, or a fully active state. Most people should keep the default setting.

SELinux Setting:

[← Back](#) [→ Forward](#)

Click forward.

Welcome
License Agreement
Firewall
SELinux
› Kdump
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Kdump

Kdump is a kernel crash dumping mechanism. In the event of a system crash, kdump will capture information from your system that can be invaluable in determining the cause of the crash. Note that kdump does require reserving a portion of system memory that will be unavailable for other uses.

Enable kdump?

Total System Memory (MB):	503
Kdump Memory (MB):	<input type="text" value="128"/>
Usable System Memory (MB):	375

[← Back](#) [Forward →](#)

Click forward.

Welcome
License Agreement
Firewall
SELinux
Kdump
▶ Date and Time
Set Up Software Updates
Create User
Sound Card
Additional CDs

Date and Time

Please set the date and time for the system.

Date & Time | Network Time Protocol

Date

◀ September ▶ ▶ 2012 ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Time

Current Time : 06:34:06

Hour : 6

Minute : 33

Second : 26

Back Forward

Select your time and click Next.

Welcome
License Agreement
Firewall
SELinux
Kdump
Date and Time
▶ Set Up Software Updates
Create User
Sound Card
Additional CDs

Set Up Software Updates

This assistant will guide you through connecting your system to Red Hat Network (RHN) for software updates, such as:

- Your Red Hat Network or Red Hat Network Satellite login
- A name for your system's Red Hat Network profile
- The address to your Red Hat Network Satellite (optional)

If you do not have a Red Hat Login, this assistant will allow you to create one.

[Why Should I Connect to RHN? ...](#)

Would you like to register your system at this time? **(Strongly recommended.)**

Yes, I'd like to register now.

No, I prefer to register at a later time.

[← Back](#) [Forward →](#)

Select your desired option for Updates.
Click forward.

Welcome
License Agreement
Firewall
SELinux
Kdump
Date and Time
Set Up Software Updates
▶ **Create User**
Sound Card
Additional CDs

Create User

It is recommended that you create a 'username' for regular (non-administrative) use of your system. To create a system 'username,' please provide the information requested below.

Username:

Full Name:

Password:

Confirm Password:

If you need to use network authentication, such as Kerberos or NIS, please click the Use Network Login button.

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

- Welcome
- License Agreement
- Firewall
- SELinux
- Kdump
- Date and Time
- Set Up Software Updates
- Create User
- ▶ Sound Card
- Additional CDs

Sound Card

An audio device has been detected in your computer.

Click the "Play" button to hear a sample sound. You should hear a series of three sounds. The first sound will be in the right channel, the second sound will be in the left channel, and the third sound will be in the center.

The following audio device was detected.

Selected card

Vendor: Intel Corporation
Model: 82801AA AC'97 Audio
Module: snd-intel8x0

Sound test

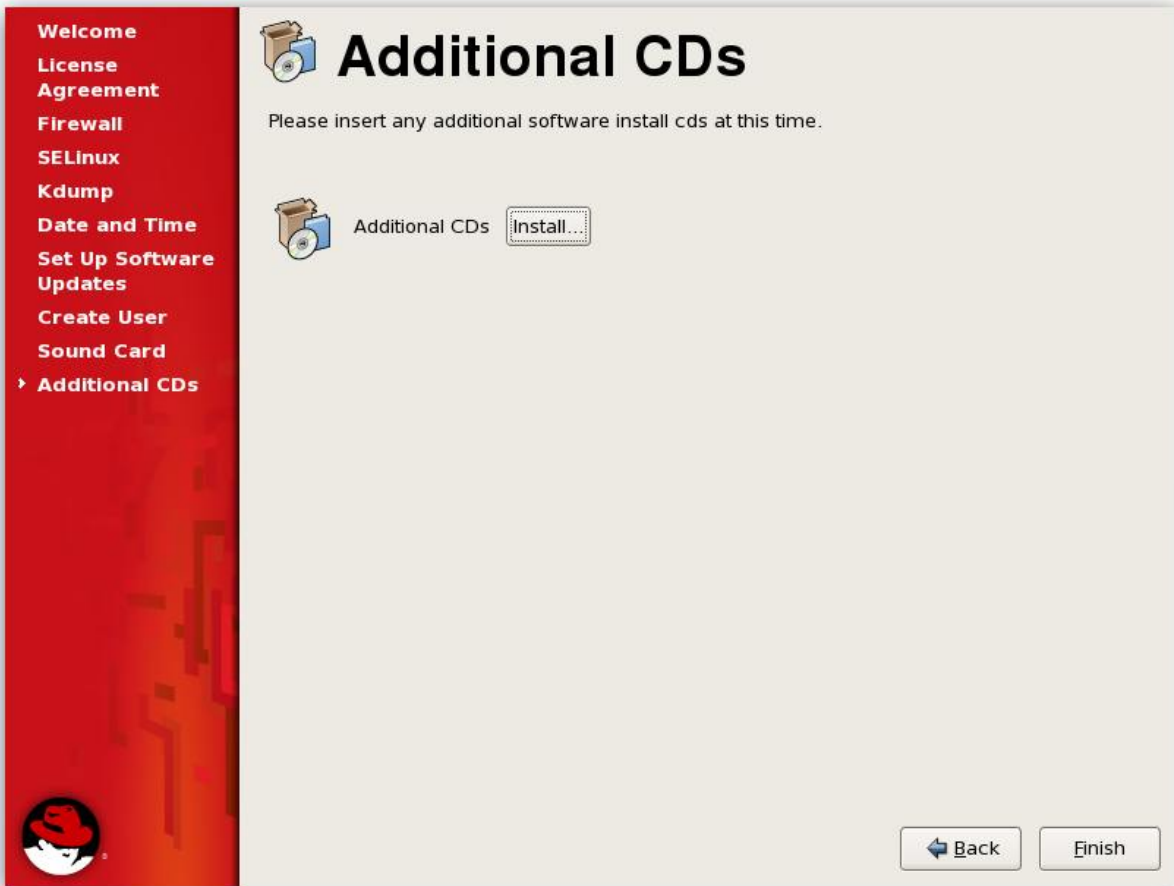
... Stopped ... Repeat

Volume settings

Device settings

PCM device

click forward



click finish



RED HAT ENTERPRISE LINUX 5

Username:

Please enter your username

 Language  Session  Restart  Shut Down

Enter user name



RED HAT ENTERPRISE LINUX 5

Username:

satish

Please enter your username

 Language  Session  Restart  Shut Down

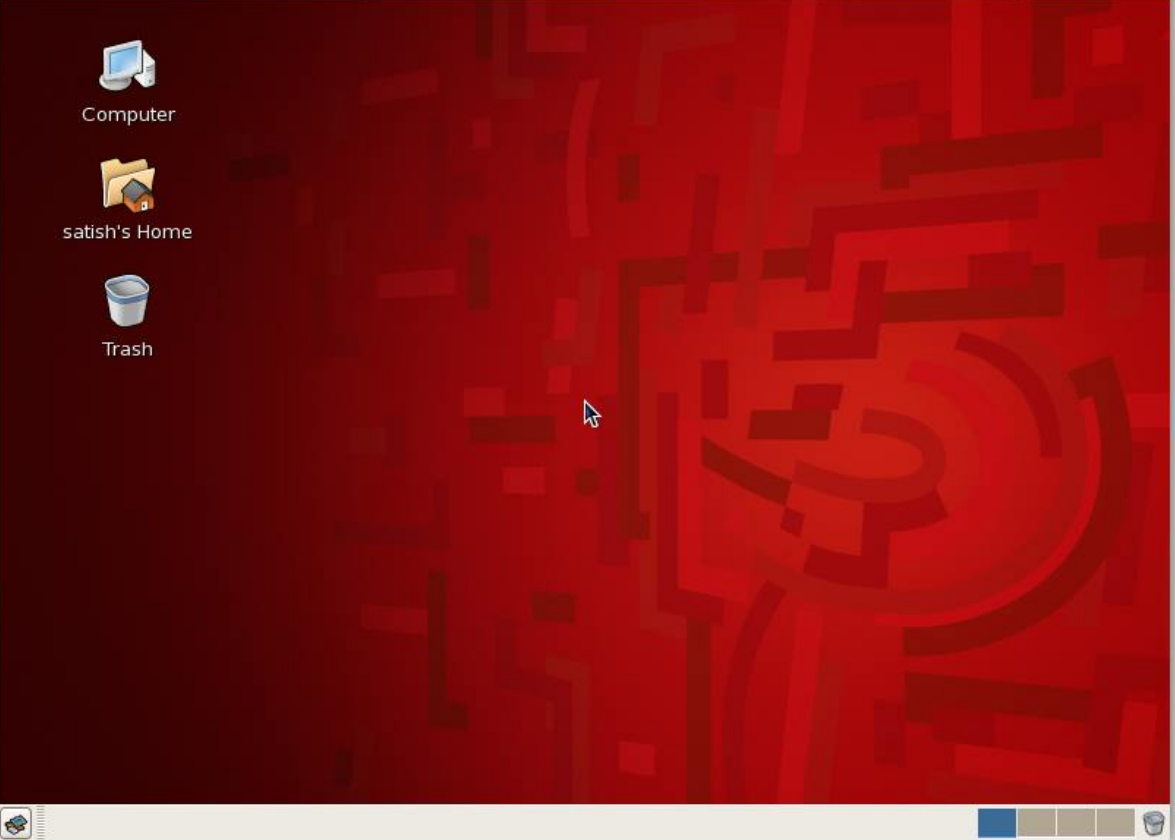


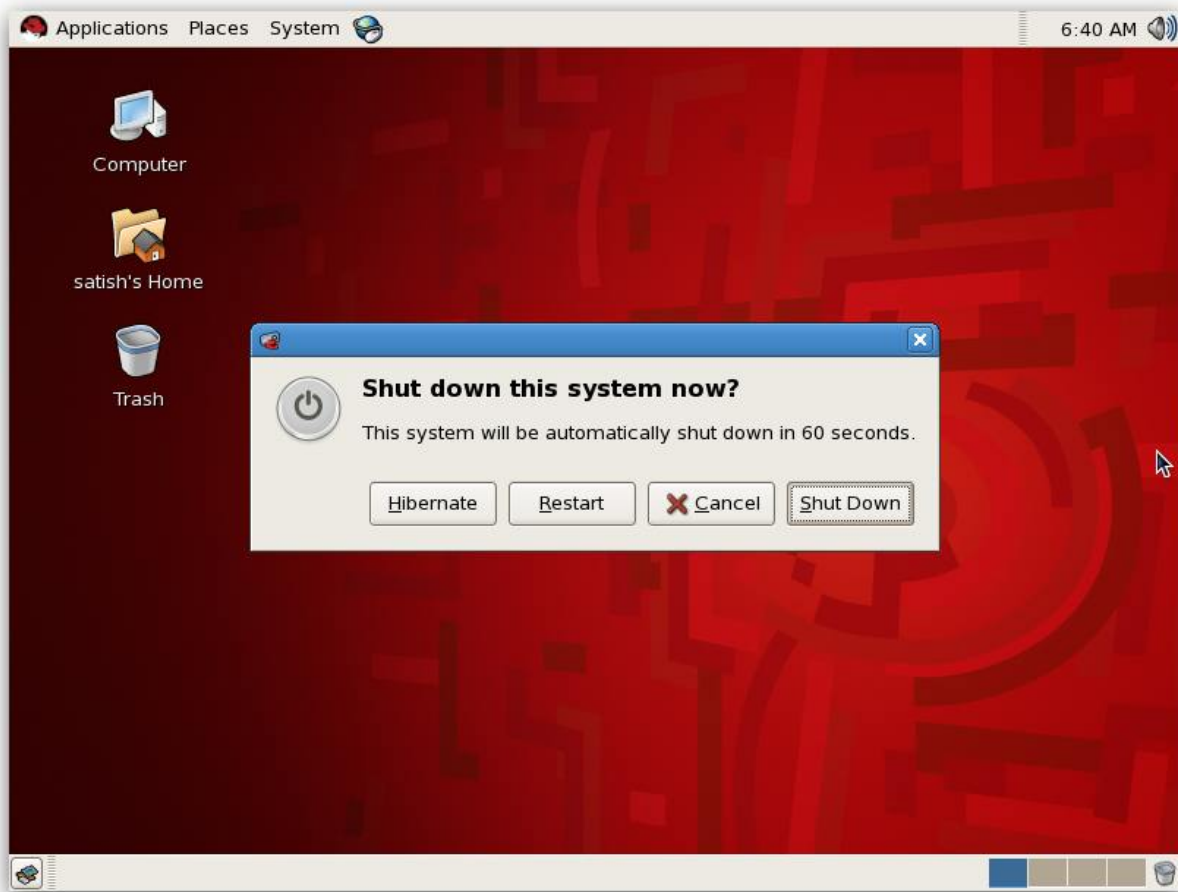
RED HAT ENTERPRISE LINUX 5

Password:

 Language  Session  Restart  Shut Down

Enter password





```
---  
System is restarting, please wait ...  
---  
INIT: Sending processes the TERM signal  
---
```

```
---  
System is restarting, please wait ...  
---
```

```
INIT: Sending processes the TERM signal  
Shutting down smartd: [ OK ]  
Shutting down Avahi daemon: [ OK ]  
Stopping HAL daemon: [ OK ]  
Stopping yum-updatesd: [ OK ]  
Stopping anacron: [ OK ]  
Stopping atd: [ OK ]  
Stopping cups: [ OK ]  
Stopping hpiod: [ OK ]  
Stopping hpssd: [ OK ]  
Shutting down xfs: [ OK ]  
Shutting down console mouse services: [ OK ]  
Stopping sshd: [ OK ]  
Shutting down sm-client: [ OK ]  
Shutting down sendmail: [ OK ]  
Stopping acpi daemon: [ OK ]  
Stopping crond: [ OK ]  
Shutting down RPC idmapd: [ OK ]  
Stopping autofs: Stopping automount: _
```

```
Stopping system message bus: [ OK ]  
Stopping NFS statd: [ OK ]  
Stopping mcstransd: [ OK ]  
Stopping portmap: [ OK ]  
Stopping auditd: audit(1347878448.174:17): audit_pid=0 old=1649 by auid=42949672  
95 subj=system_u:system_r:auditd_t:s0 [ OK ]  
Stopping PC/SC smart card daemon (pcscd): [ OK ]  
Shutting down kernel logger: [ OK ]  
Shutting down system logger: [ OK ]  
Shutting down hidd: [ OK ]  
Stopping Bluetooth services: [ OK ]  
Shutting down interface eth0: [ OK ]  
Shutting down loopback interface: [ OK ]  
Shutting down restorecond: [ OK ]  
Flushing firewall rules: [ OK ]  
Setting chains to policy ACCEPT: filter [ OK ]  
Unloading iptables modules: [ OK ]  
Flushing firewall rules: [ OK ]  
Setting chains to policy ACCEPT: filter [ OK ]  
Unloading iptables modules: Removing netfilter NETLINK layer. [ OK ]  
Starting killall: [ OK ]  
Sending all processes the TERM signal... [ OK ]  
_
```

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



redhat.
CERTIFIED
ENGINEER

If you have any problems just Mail me

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FAITH IS A FORCE OF LIFE