Practical Training Seminar
on
Linux System Administration

Jawahar Shikshan Sansthan

- JSS is a government registered organization since 1969 and deals in organizing training and development programmes for the talented youth of the society.
- Has conducted free training camps sponsored by many govt. departments and Industries.
- Currently offering Industry based real time project oriented practical training for engineering students.

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- Overview of fedora
- Installing fedora
- About desktop
- Linux commands
- Linux system administration
- Connecting to the internet
- Setting up local area network
- Server setup and configuration
- Computer security issues

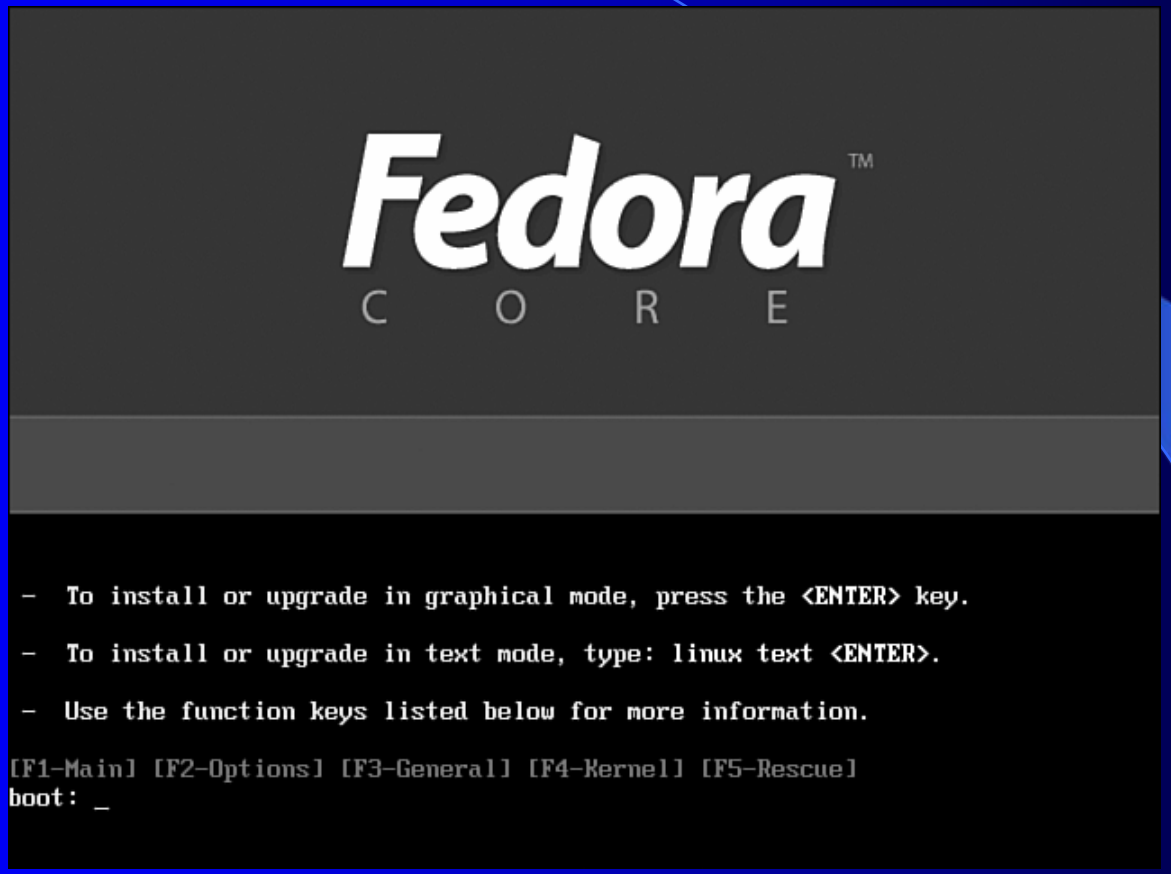
Overview of fedora

- Operating system
- What is linux?
- Why use linux?
- Features of linux

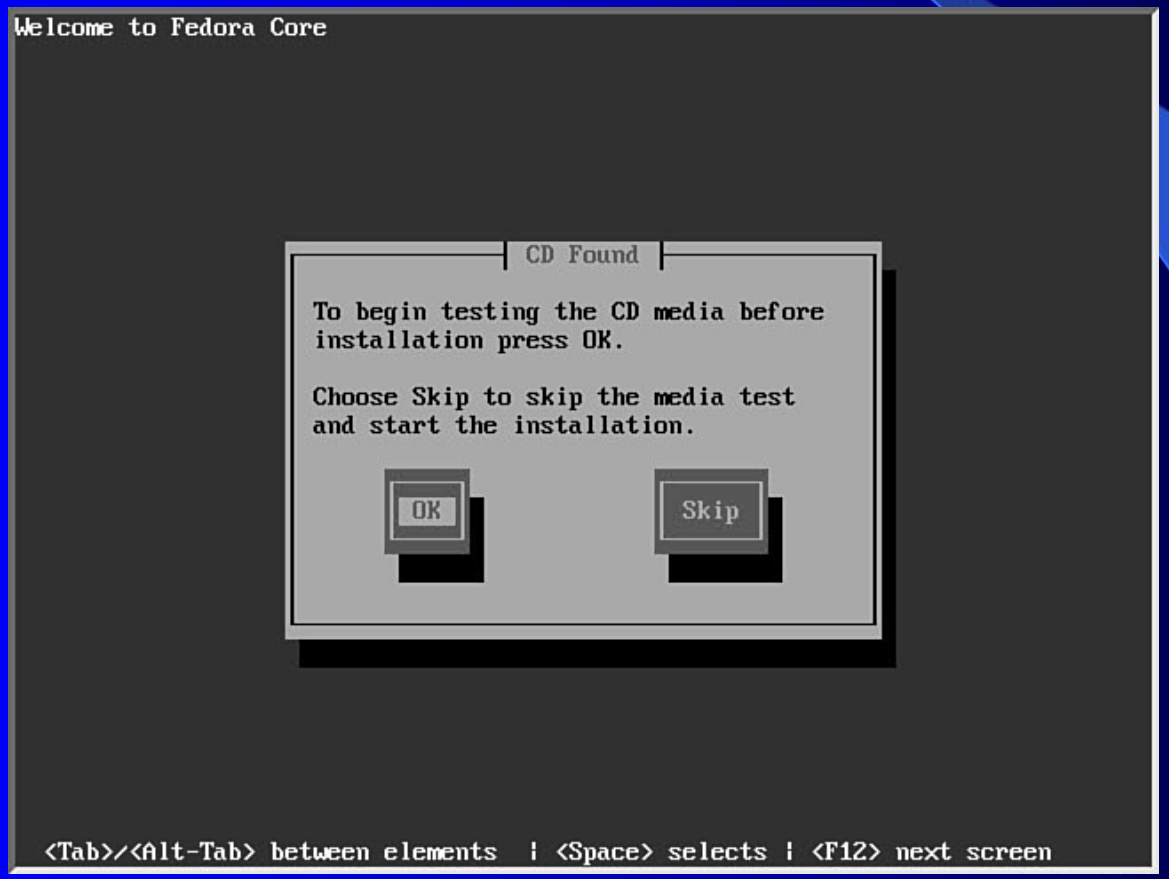
Installing fedora

- Beginning the installation
- Partitioning the drive
- Network configuration
- Firewall and security configuration
- Setting the time zone
- Creating the root passwords and user accounts
- Software selection and installation
- Shutting down

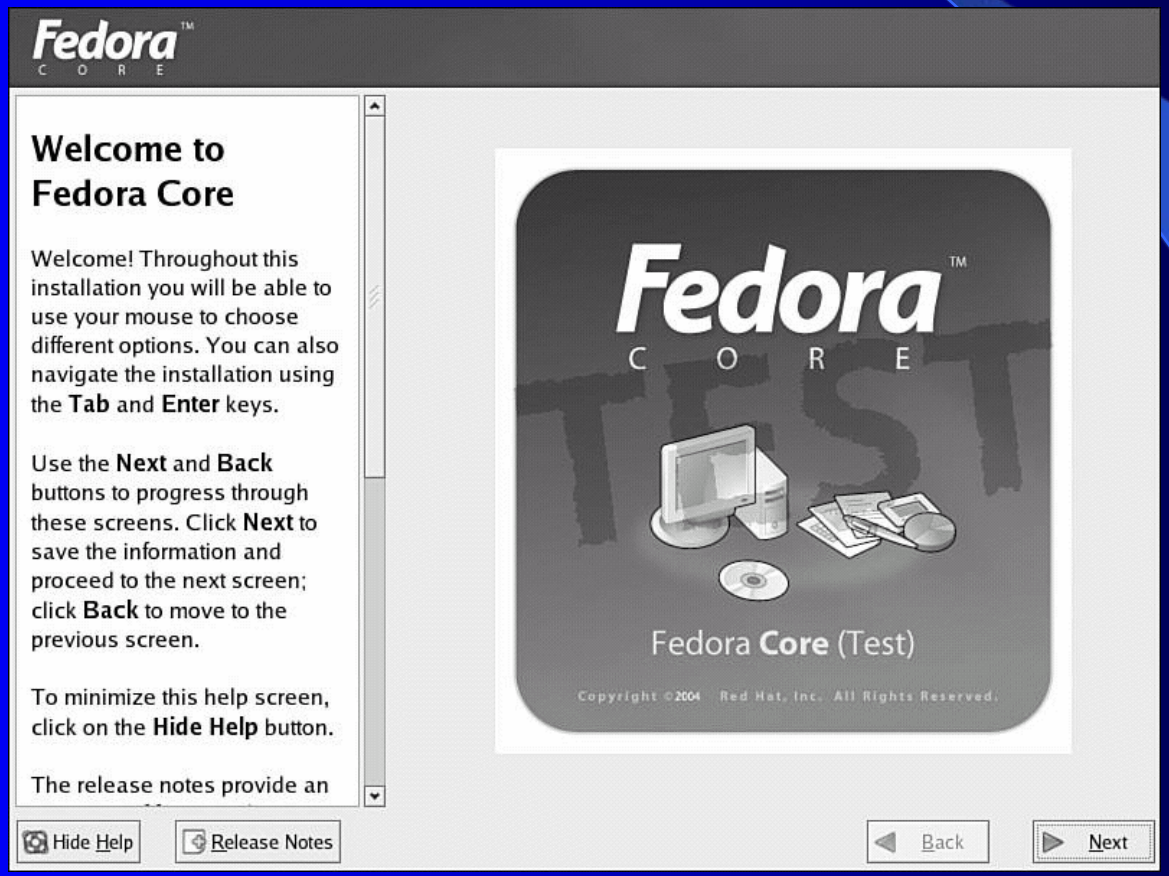
Beginning the installation



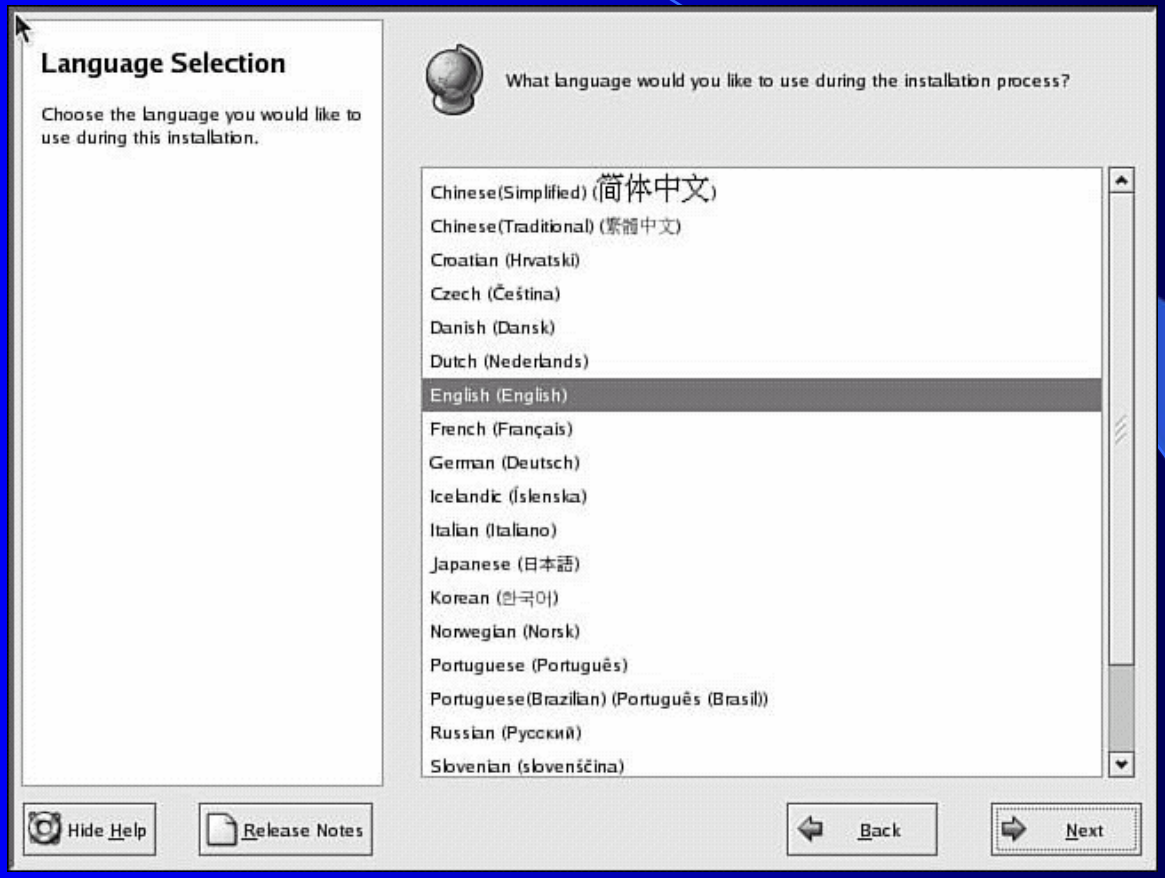
Check CD-ROM media before installation



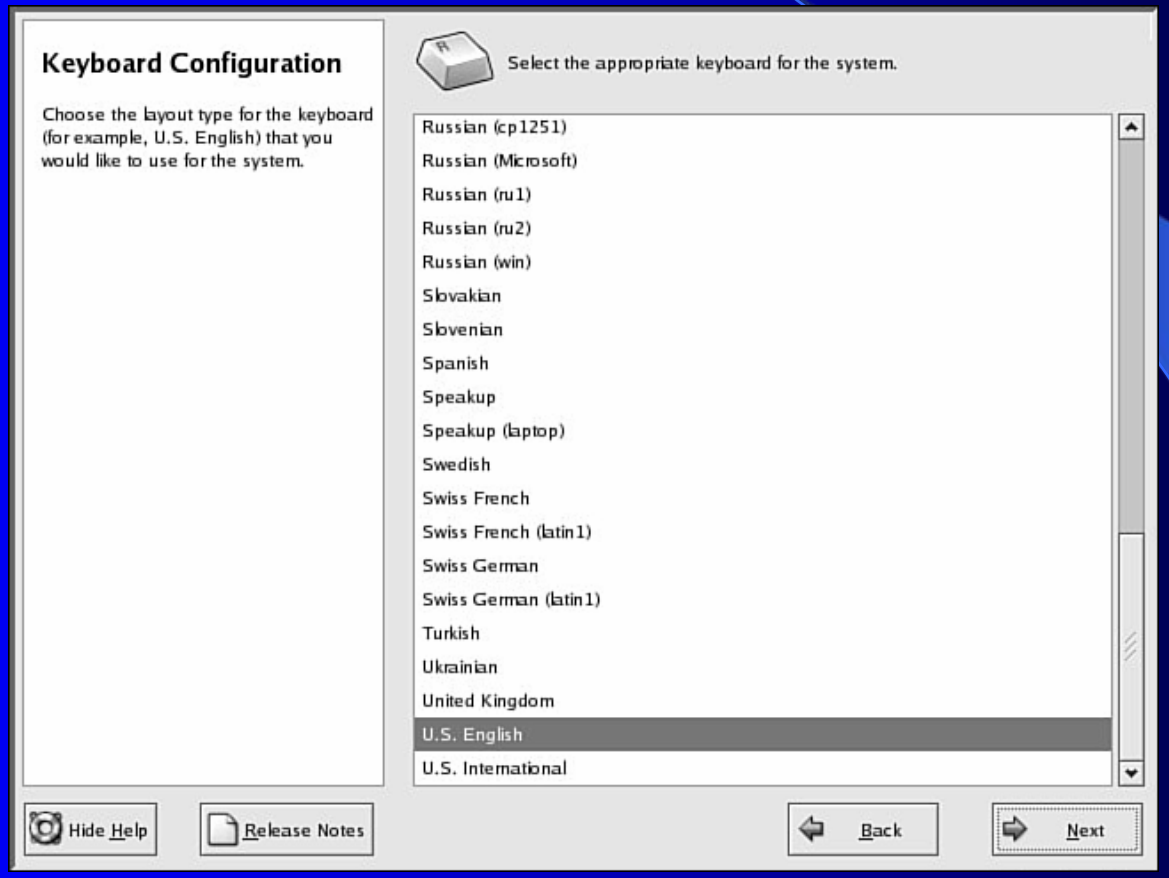
Read help or release notes before installing fedora



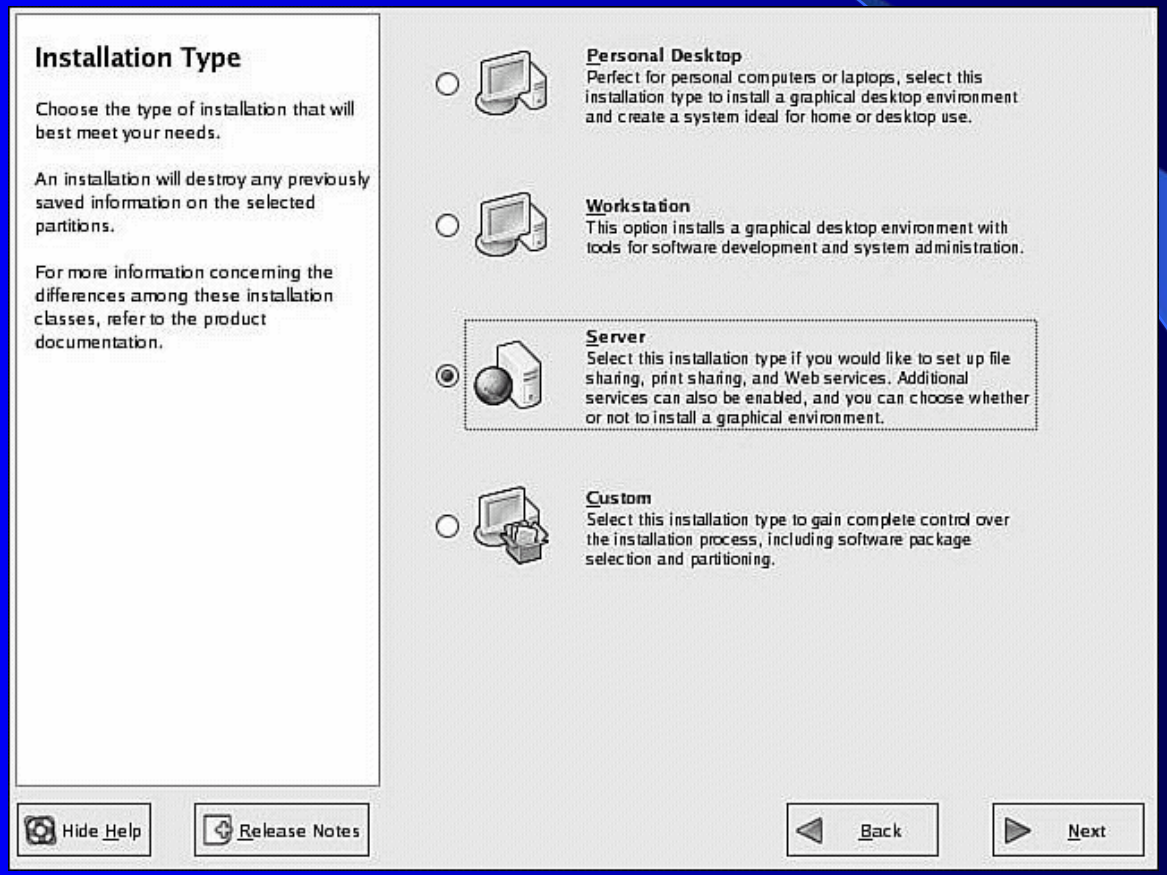
Select language



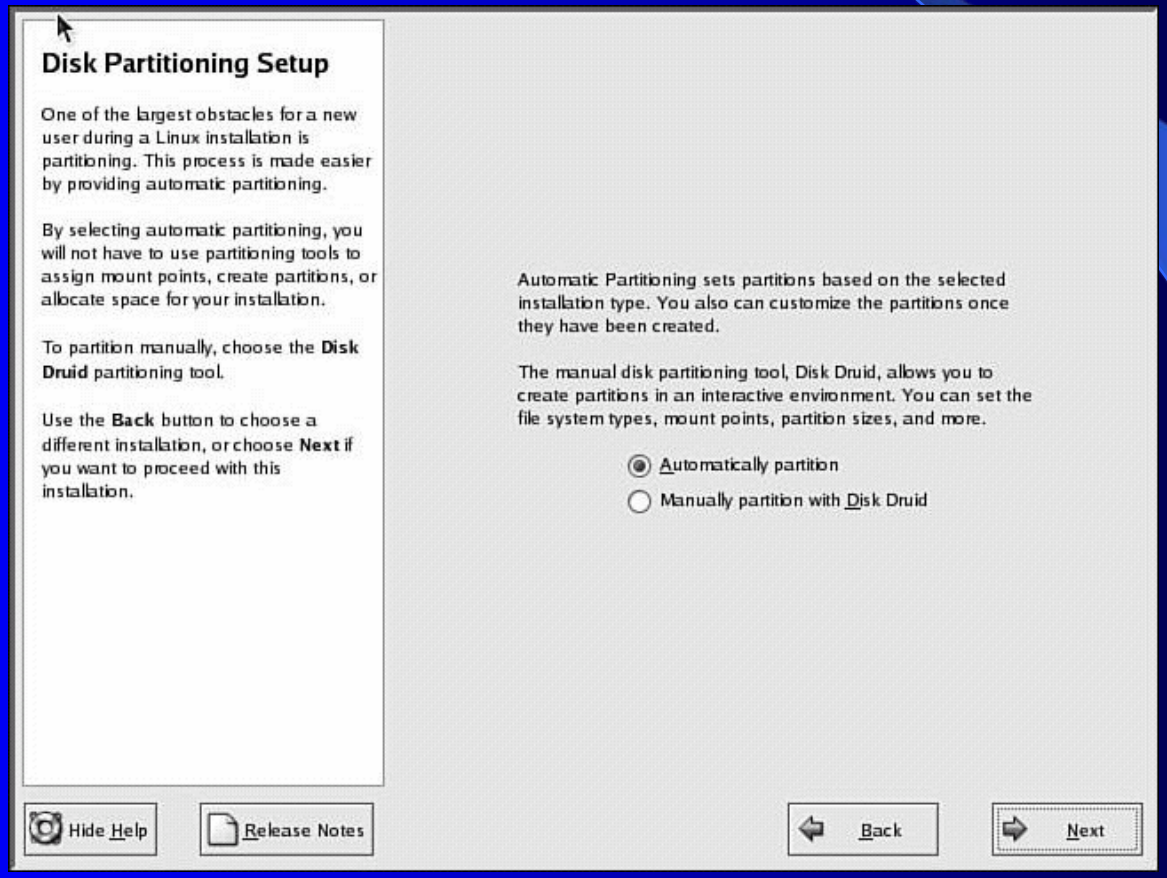
Select default keyboard



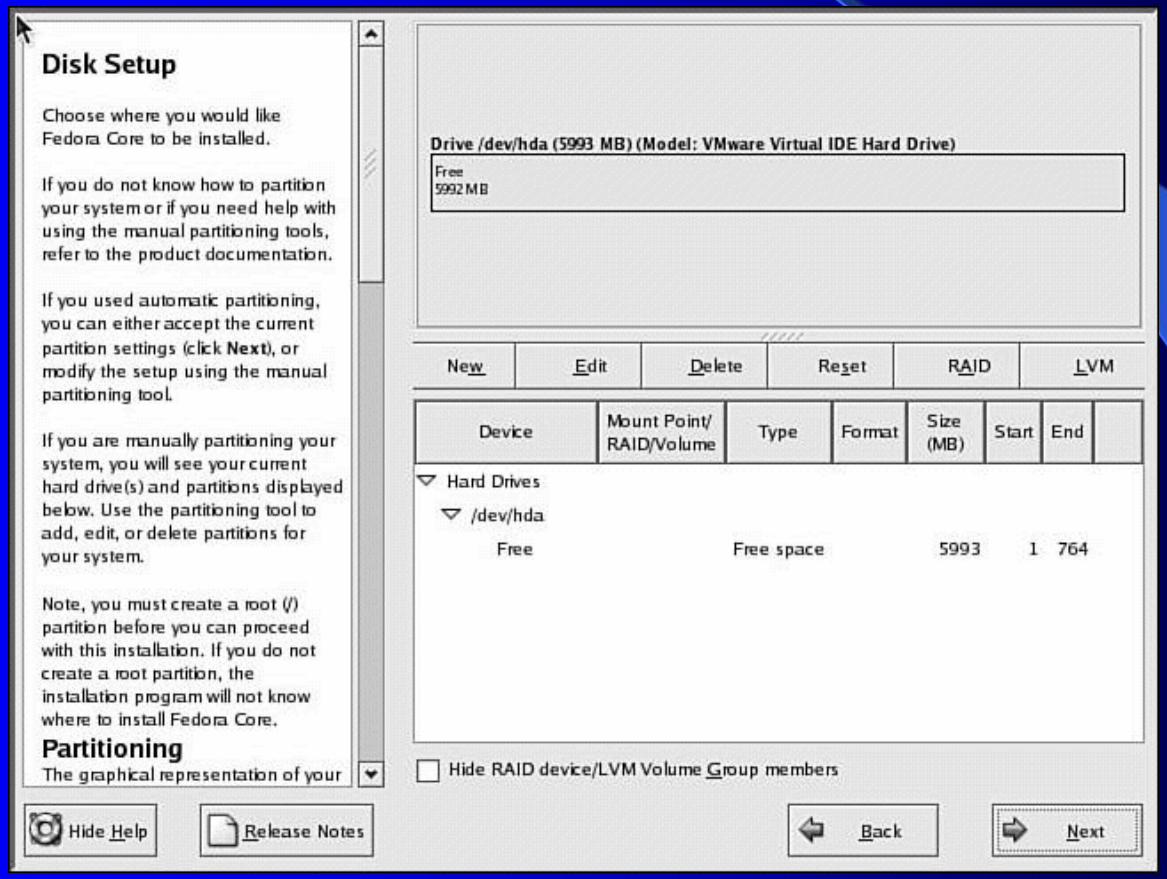
Select installation type



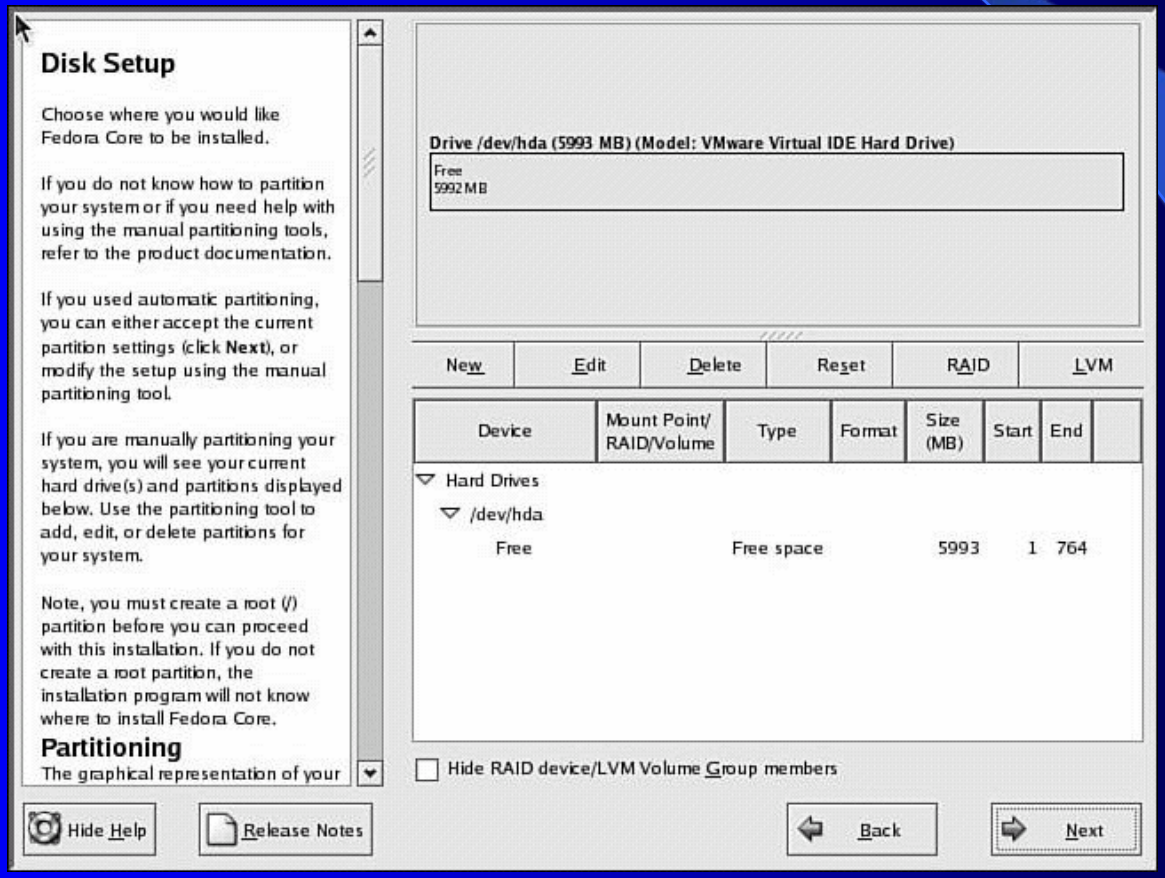
Partitioning scheme



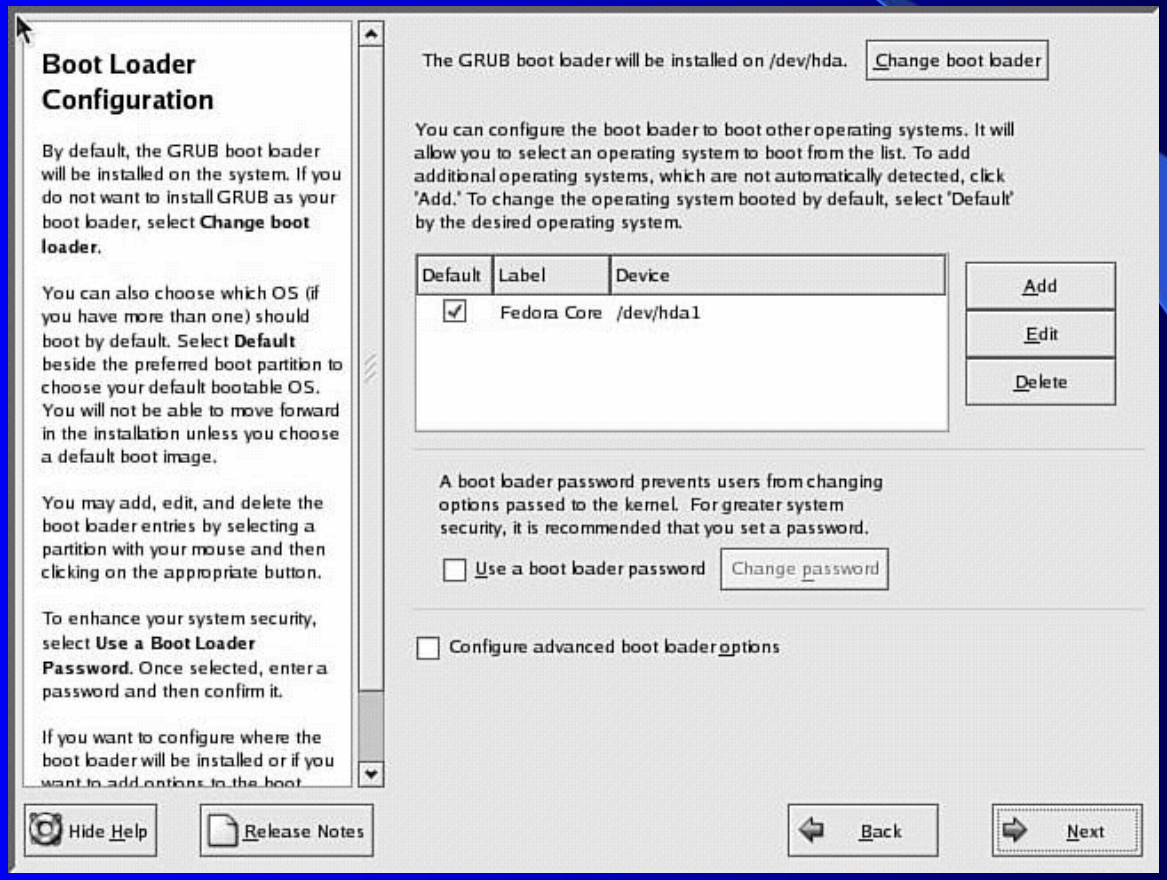
Use disk druid for partition



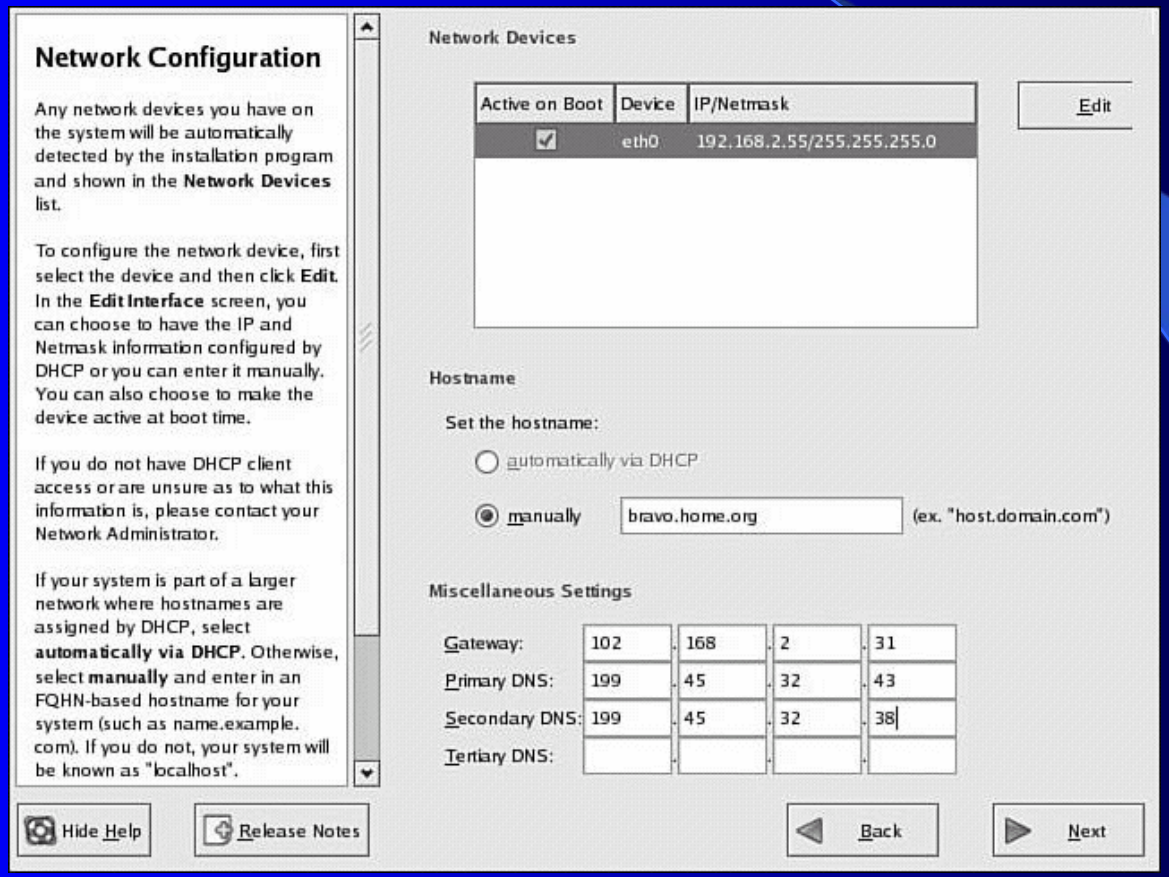
Review the partitioning scheme



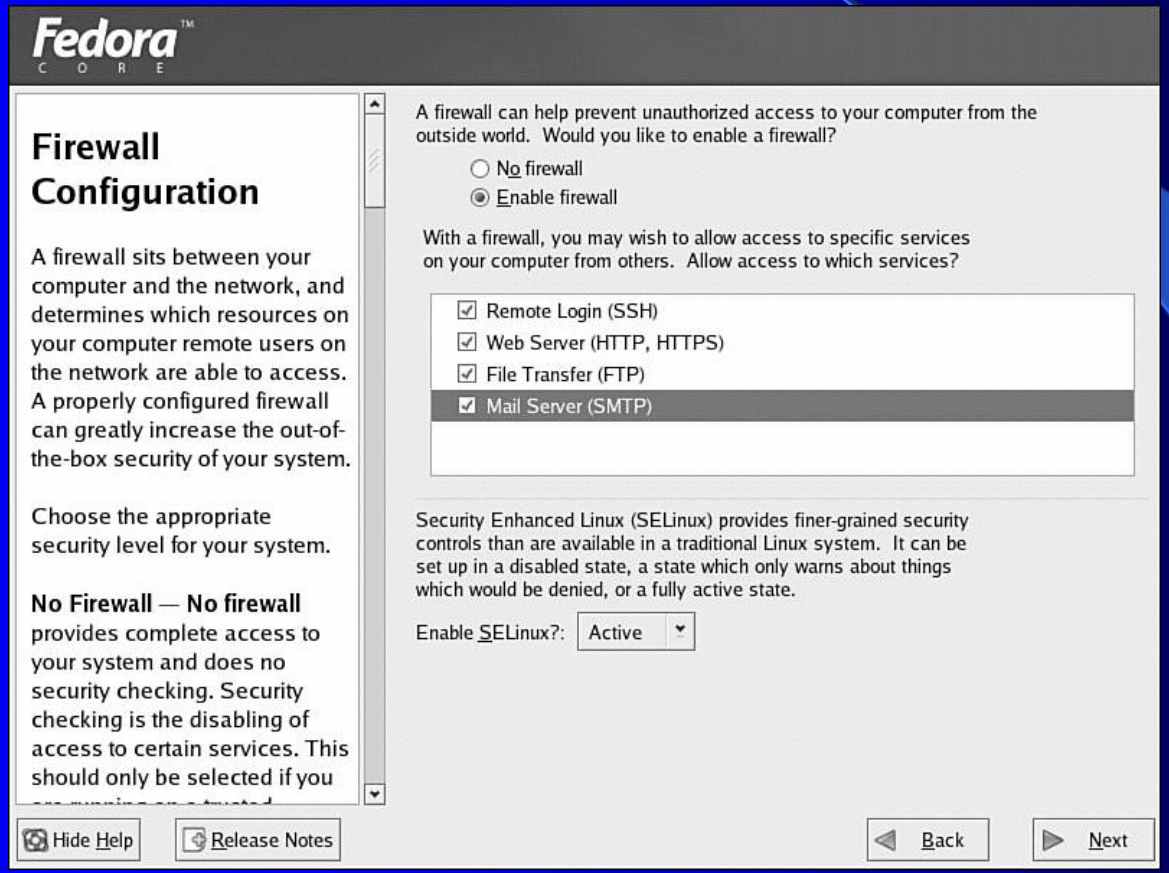
configure a boot loader



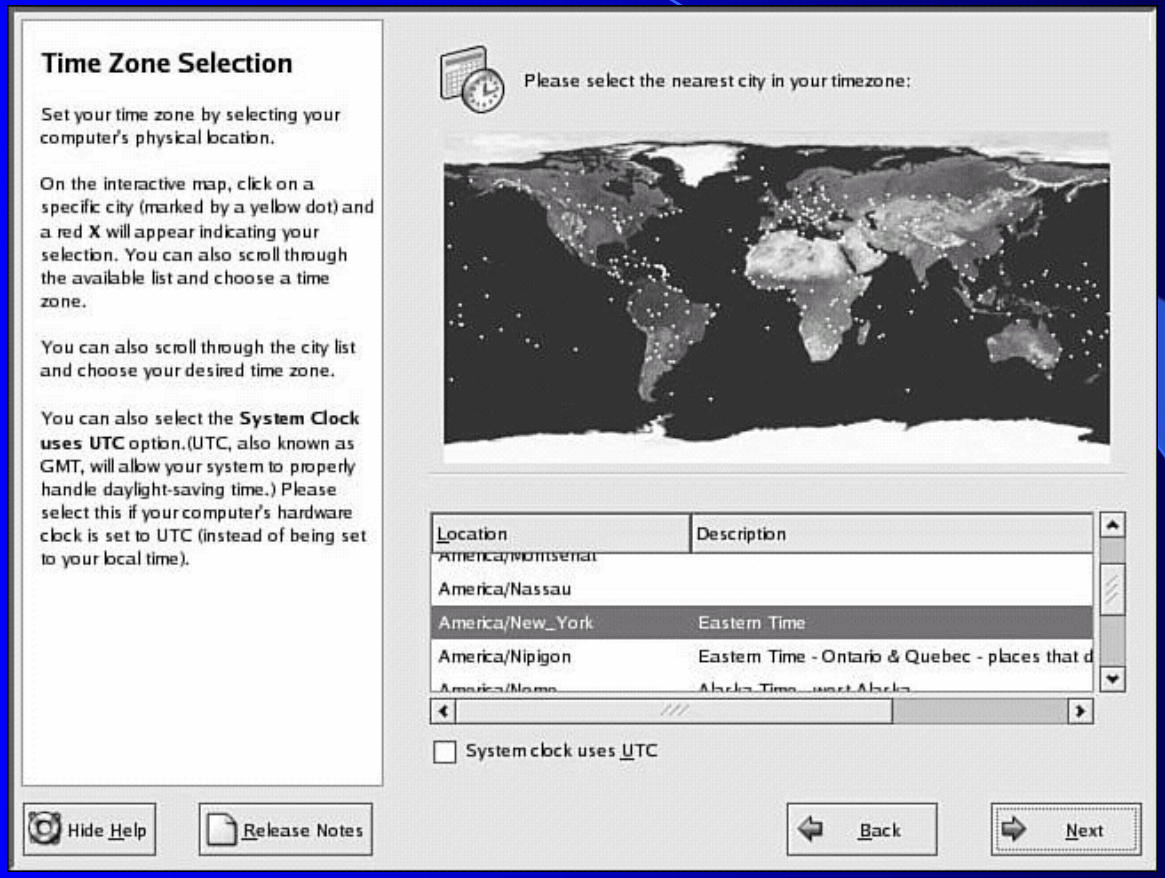
Network configuration



Firewall configuration

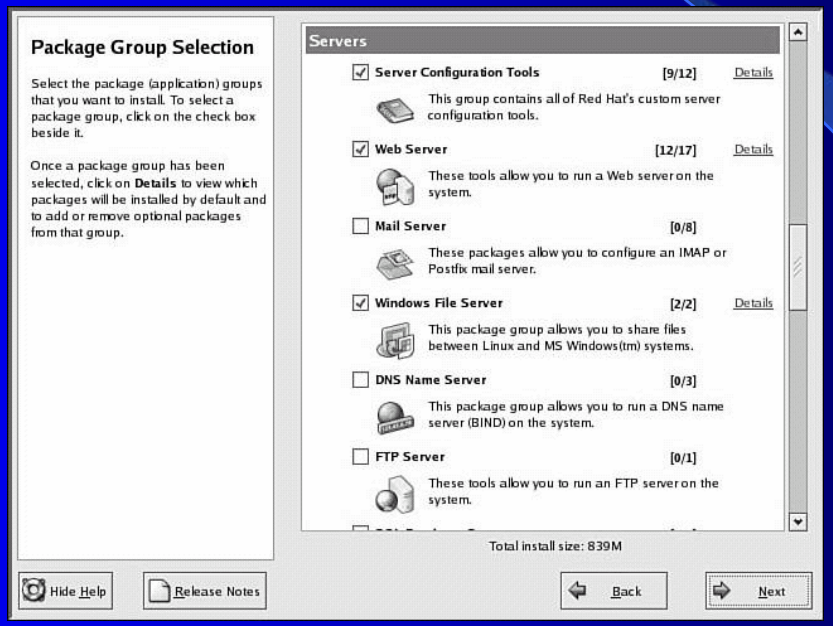


Select time zone

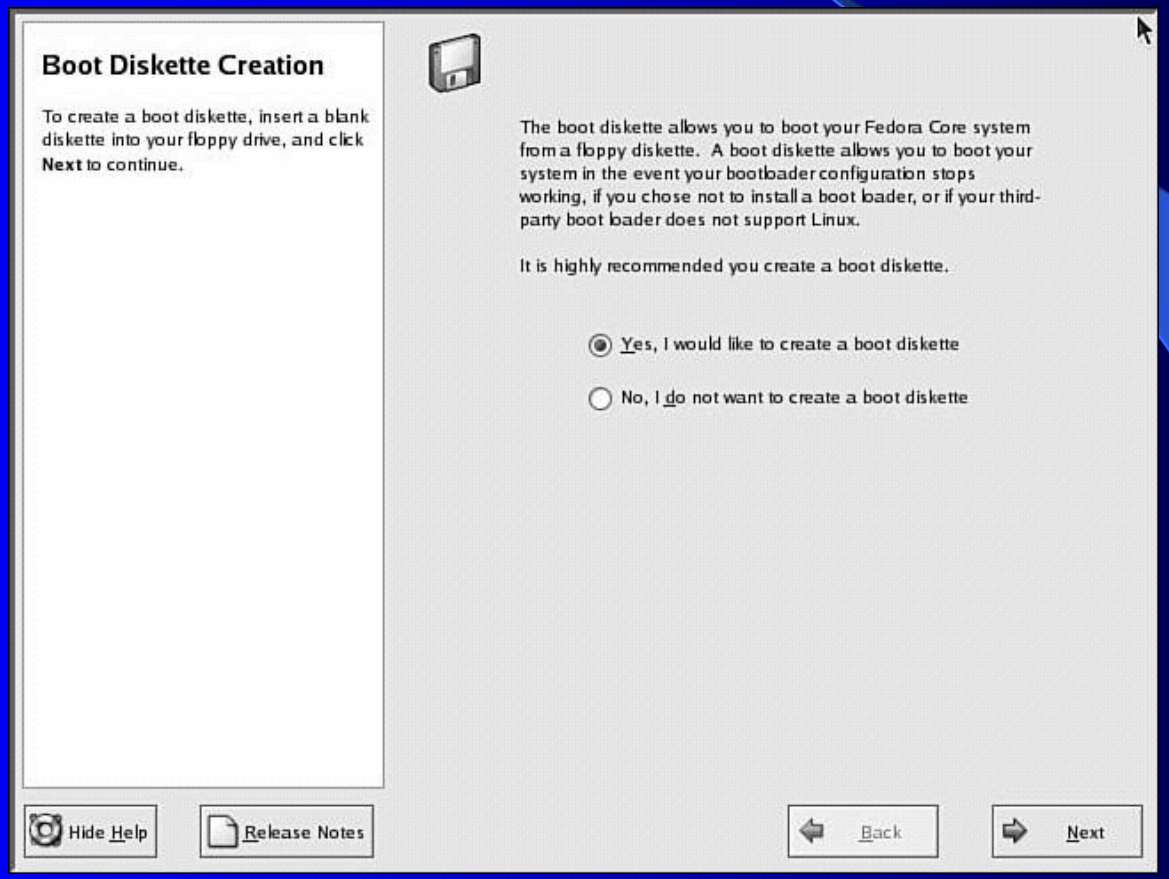


Creating the root password

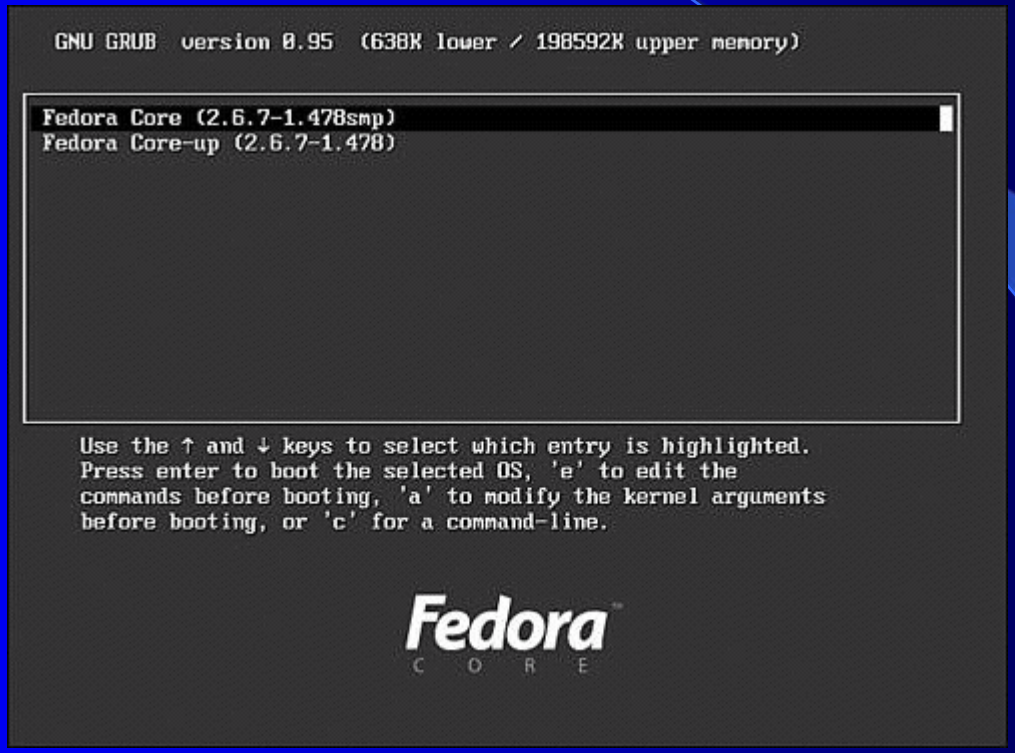
Software selection



Create boot disk



Boot fedora with GRUB



About desktop

- Getting familiar with the desktop
- Using the Gnome desktop
- Exiting Gnome

Linux commands

- The shell interface
- Checking the login session
- Checking directories and permissions
- Creating file and directories

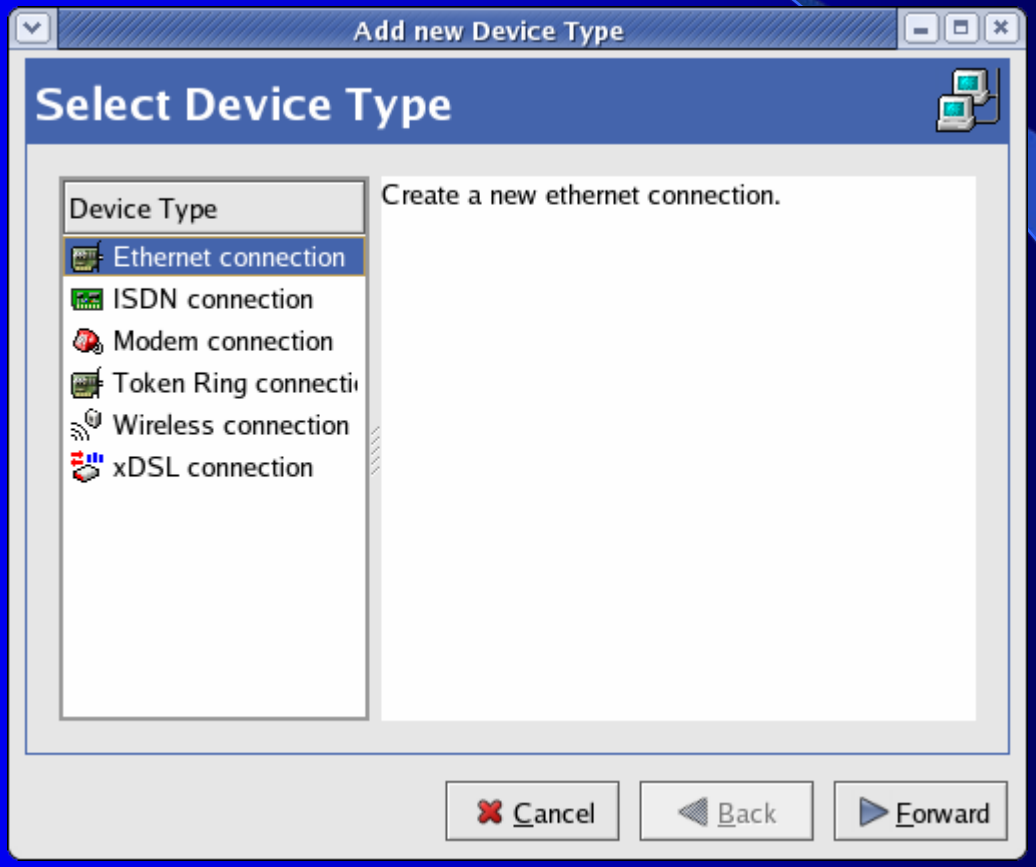
Linux system administration

- Becoming super user
- Temporarily changing user identity with su command
- Using graphical administrative tools
- Administrative commands
- Administrative configuration files

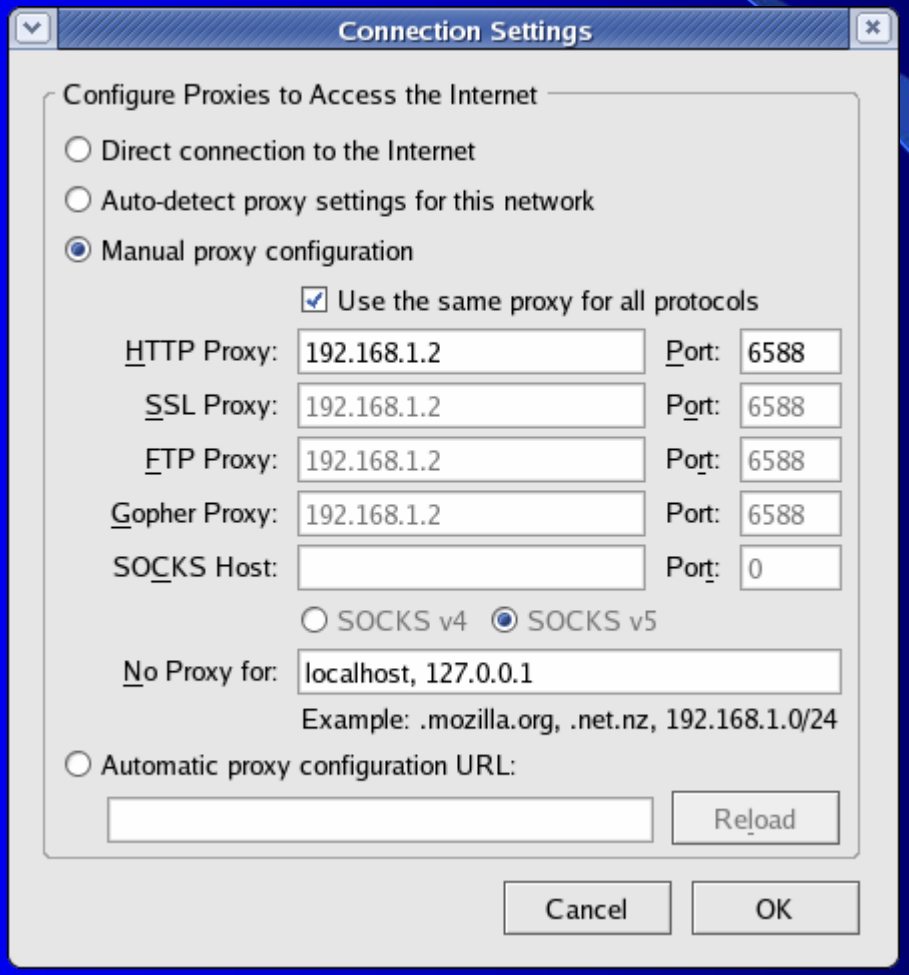
Connecting to the internet

- Setting up dial-up PPP
- Creating a dial- up connection with the internet configuration wizard
- Launching PPP connection
- Setting up linux as a proxy server
- Configuring mozilla or firefox to use as a proxy

Creating a dial –up connection



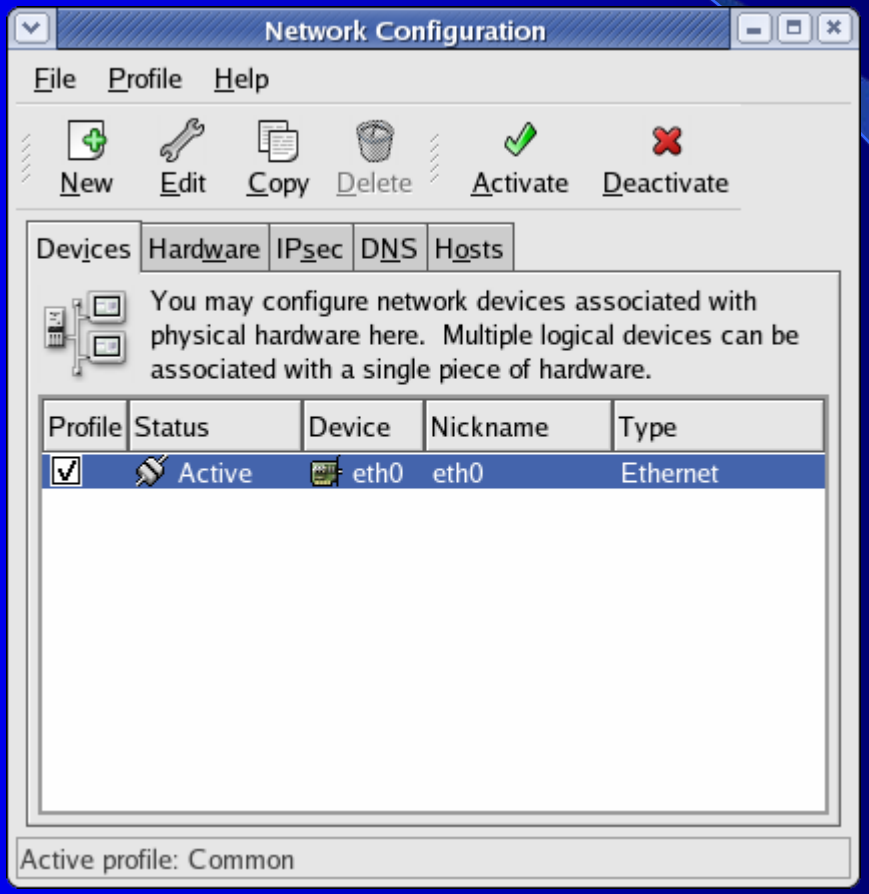
Configuring mozilla to use as a proxy



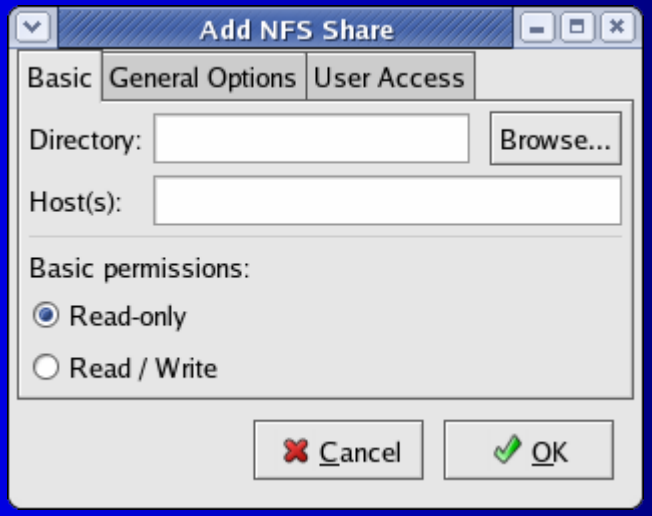
Setting up local area network

- LAN topologies
- LAN equipment
- Networking with TCP/IP
- Configuring TCP/IP
- Adding windows computer’s to user LAN
- IP address classes

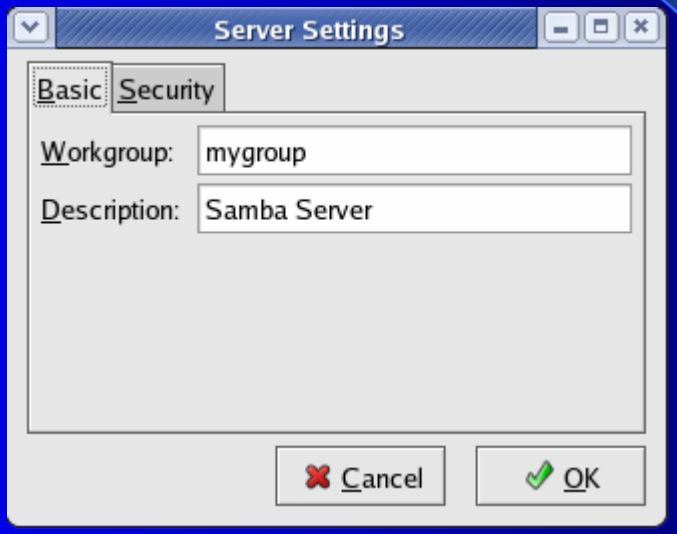
Configuring TCP/IP



NFS share


Add NFS Share
Basic
General Options
User Access
Directory:
Browse...
Host(s):
Basic permissions:
Read-only
Read / Write
Cancel
OK

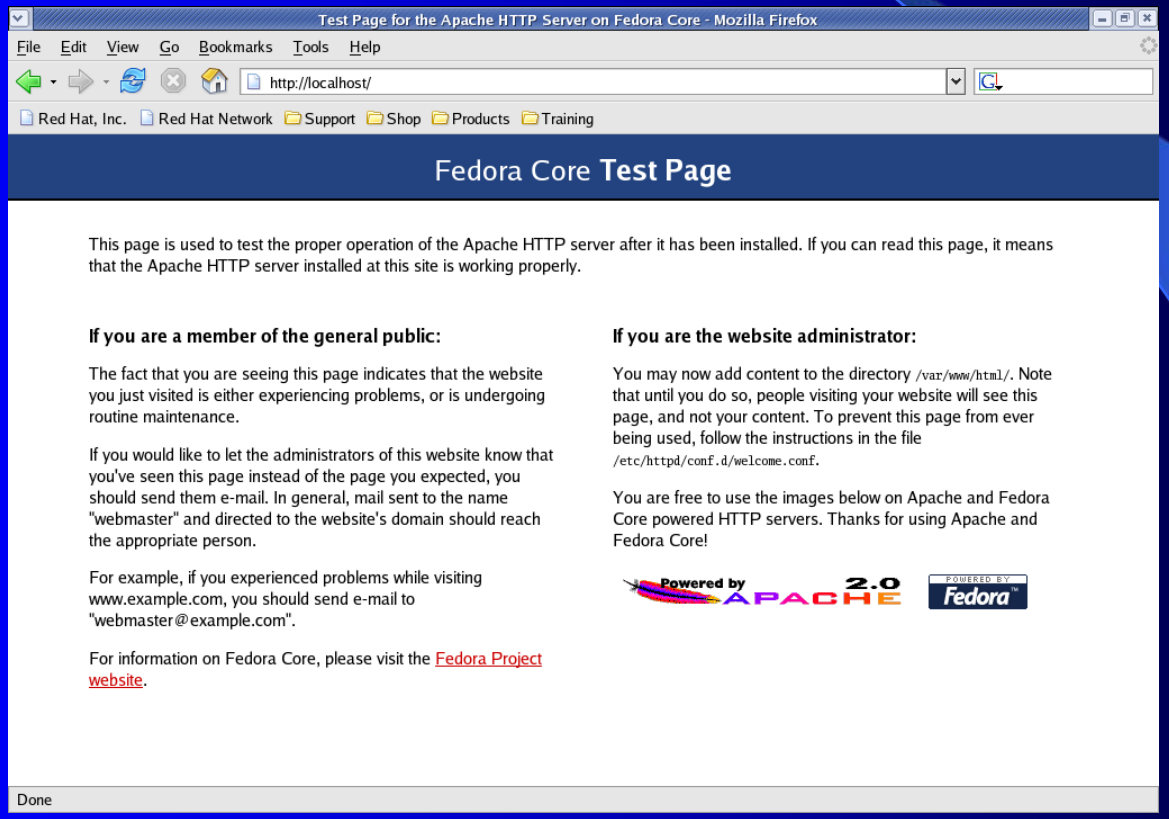
Samba server



Server setup and configuration

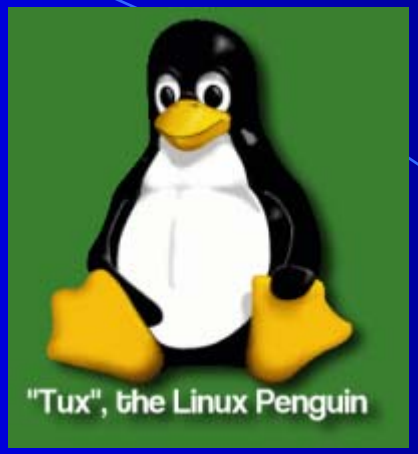
- Setting up NFS file server
- Setting up Samba file server
- The Apache web server
- Setting up FTP server

Apache Web Server



COMPUTER SECURITY ISSUES

- LINUX security checklist
- Securing linux with IP table firewalls
- Configuring an IP table firewall
- Securing Linux features



Thanks !