Basic UNIX 3 Linux for Windows Users

Information Technology Services Iowa State University

Basic UNIX 3: Linux for Windows Users

Where we're going:

- Windows vs. Linux: differences vs. similarities
- Getting Started
- Working at the Desktop(s)
- Managing Files
- Finding Applications
- Getting Help

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Differences between Windows and Linux

- Choice of GUI vs. Command Line
- Monolithic vs. Modular Design
- Administrator/User Dichotomy
- GUI vs. Command Line Administration

This section of the class makes the assumption that you are comfortable with Microsoft Windows, but want to deal with Linux on your own terms. While the hardcores who've been using UNIX forever may laugh at us, some of us prefer dealing with Linux through a graphical desktop. That's okay. In this section, we'll contrast Windows and Linux, then show you how working at the Linux graphical desktop is like and unlike Windows, building on your Windows experience. Finally, we'll take a brief look at the art of being compatible with Windows, show you where to look for new software, and how to get help.

While they appear similar at the desktop, Linux and

Windows are very different "under the hood". Linux lets you choose how to you want to work with it, and the

underlying structure makes it more secure and easier to

administer by design.

Choice of GUI vs. Command Line

- · Windows has only one user interface
- · Linux has lots of choices
 - X Windows (graphical user interfaces) with a variety of window managers
 - Text console (good for remote access, small machines, servers without monitors)

While Windows has a single user interface, Linux has many choices. The graphical desktop uses X Windows, which was designed from the start to work both locally and over a network connection. A number of different graphical desktop managers are available to fit your machine and your working style. If bandwidth concerns, machine horsepower or disabilities make working with the graphical desktop a problem, a wide variety of console applications let you manage servers remotely and/or do useful work with a text terminal.



Monolithic vs. Modular Design

- Windows: "everything" is incorporated into the kernel (Explorer, Internet Explorer, Windows Media Player, etc.)
- Linux: more modular; desktop manager, Web browser, media players run on top of the Kernel and cannot take down the system if they crash (well, at least not as easily) and can be customized by the user



The Microsoft Way is to incorporate many features into the Windows kernel. Internet Explorer, for example, is intimately integrated into Windows -- so much so that fixing a security problem with IE may require rebuilding much of Windows (and a couple of months), and crashing IE will take Windows down. Linux, on the other hand, is modular; the graphical environment, desktop manager, Web browser and media players are separate programs that run on top of the Linux kernel. Crashing one of them (like the Web browser) shouldn't kill the Kernel, and making changes to them is much easier.

UNIX has always made a distinction between users and administrators. Only an administrator ("root") can install

software or make modifications to system settings; ordinary

users can change their own preferences and install software

in their own directories but can't affect anyone else. This

greatly reduces the spread of viruses and the hassles of

can't as easily infect the machine with a virus or mess up

Administrator/User Dichotomy

- Ordinary users do not have power to install software or change system settings
- Administrators can install software, change system settings, kill processes, read/write files in any directory
- This ability is actually in Windows 2000/XP, but seldom used (especially in home systems) because of legacy Windows compatibility

GUI vs. Command Line Administration

- Windows administration almost always done from a GUI (Control Panel, Administrative Tools or Microsoft Management Console)
- Linux adminstration usually done from a command line
 - Easily done remotely (Linux servers don't need monitors, keyboards)
 - Easily scriptable and automated



management. Windows does provide this feature in Windows 2000 and XP, but many Windows applications can't be run correctly by a non-privileged user, so hardly anyone uses the feature (especially on home systems). Linux applications, on the other hand, have always been designed with this in mind. That makes Linux just a little bit more secure than Windows, as a non-privileged user

other people's settings.

Windows machines are really designed to be managed from graphical tools. That's great for a few machines, but difficult when you manage many servers or desktops. Almost all management tasks in Linux can be done from a text console (i.e., remotely) and a wide variety of scripting tools are available. That's better if you're managing lots of servers; servers don't even need keyboards and monitors, and can be managed over a network or even a dialup.

Logging In

- Usernames and passwords
 - Assigned by the system administrator, or (on Iowa State Linux boxes) your ISU NetID and password
- Choose your window manager
- Choose your language



Most Linux distributions require a username and password to log in to the machine. If you don't have one, contact the administrator of the machine. Machines with Iowa State Linux installed use the ISU Kerberos system to govern access to the machine; your ISU NetID and password will be enough if you're on the machine's access control list. (Again, see the machine's administrator.)

If you want to use the default window manager (Gnome) and the default language (English) you can just log in now. However, you may want to wait a bit ...

Before you enter your username and password, you can

the username and password we gave you.]

Logging In	select a different window manager from the default. Some of the choices:
 Usernames and passwords Choose your window manager Default RHEL installation includes GNOME, KDE and FailSafe (a very minimal WM) Choose your language 	 Gnome Desktop (the default on RHEL) K Desktop Environment (KDE, the default for many of us) Fallback (a very minimal window manager) Because Nautilus has problems with Iowa State Linux, we tend to use KDE. Older machines may work better with stripped-down window managers like IceWM or WindowMaker.
	[Exercise: begin by selecting Gnome.]
Logging In • Usernames and passwords • Choose your window manager	Linux by default supports a wide variety of languages (especially important for those in Europe, where much of Linux is written). You can select a language on the login screen, and that language will be used in menus and icon names.
 Choose your language Linux can be installed to include support for many languages 	[Exercise: you'll have to stick with English in our training lab, as we didn't install language files for everything. When you install your own Linux machine, however, you can add the support for any language in the list (or all of them, if you've lots of disk space). Now go ahead and log in using

📤 Applications Actions 👰 🥸 🖏 🖉 🍞

 Gnome Desktop Desktop icons open in Nautilus username's Home (/home/username) Computer (all drives) Trash Top Edge Panel (functions of Start Menu and System Tray) Bottom Edge Panel (select windows and virtual desktops) 	The Gnome desktop looks a little different from the Windows desktop. As with any UN*X system, your files are stored in your home directory (/home/username). This directory can be on another disk, or even on another machine; Iowa State Linux uses your AFS home directory. The Gnome Desktop gives you an icon for this directory, as well as a "Computer" directory containing all of the mounted drives on your system. There's also a Trash icon to which files may be dragged to dispose of them. The functions of the Windows Taskbar, including the Start Menu and the System Tray, are divided in Gnome Desktop into two panels: one on the top edge of the Desktop and the other on the bottom edge.
• Applications Menu (= Windows All Programs) • Applications Actions I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	 The left end of the top edge panel has the Application Menu; it has the same function as Windows XP's All Programs menu. [Exercise: click on the Application Menu icon and take a minute to explore the categories. A couple of notes: Controls for the way your windows and desktop appear, how your keyboard and mouse work, and other things unique to your user are found under "Preferences". Most of the items under "System Settings" and "System Tools" affect all users, and will require the root password, as they make changes to the system as a whole. Nearly all of the items installed in this lab are included with Red Hat Enterprise Linux, including OpenOffice.org, Evolution and all the games. Almost all the software you'll need to do useful work is already installed at no extra
	charge. The Action Menu is where you can run a named application
 Applications Menu (= Windows All Programs) Actions Menu (run application, logout, screen shot, etc.) 	and log out. There's also a file search similar to Windows' Search, a tool to capture the screen to a graphics file, and a useful "Lock screen" tool to prevent anyone from seeing your screen without entering your password.



Top Edge Panel

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NewBasicUNIX3.sxi - OpenOff Presentation

Most of the bottom edge panel is used to display buttons for open windows in the current virtual workspace. Clicking

The Application Launcher buttons let you launch selected

applications with a single mouse click. Holding the mouse

the button selects that window; right-clicking the button displays a menu for moving, resizing, and moving the

[Exercise: if you don't see any buttons, open a couple of items from the Application Menu. Home is a good start, and you'll find a calculator (or two) in the Accessories menu. Clicking the Close box in the upper right-hand corner of a window will usually close it if you open something big by mistake.]



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In the KDE Panel, the application buttons are just to the right of the K Menu. Moving the mouse over a button displays the name of the application the button starts and a short description of what the application is for.



The Pager is used to switch between virtual desktops (which the Gnome people call virtual workspaces.) Unlike the Gnome desktop, the Pager just shows numbered buttons for each desktop in a compact array. There is a KPager application under Accessories that will let you see thumbnails of the different workspaces.

KDE Panel

- K Menu (= Windows Start Menu)
- Application Buttons
- Desktop Switcher

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[Exercise: if you don't have any windows open, go to the KDE Menu and choose Home and perhaps an accessory or two, so you can see what these buttons look like and what they do.]

KDE Panel

- K Menu (= Windows Start Menu)
- Application Buttons
- Desktop Switcher
- Buttons for open windows
- Applets —

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What happens when you click on an applet depends on the applet. Some raise a menu (much like the Windows System tray) and some have a click-on, click-off system. Clicking on the time brings up a nice calendar.

Switching between windows is much like Windows; either <Alt/Tab> between windows [in the same workspace, about

which more later], click on the window you want, or click

the appropriate button in the Panel. Clicking the button of

Some (more primitive) window managers may demand that

you click on the titlebar to select a window. Most modern

[Exercise: if you haven't opened a couple of windows, open two or more and use the various techniques to switch

an open window will minimize it into the Panel.

window managers don't.

between them.]

Switching Between Windows

- Varies; most modern WM accept the Windows <Alt/Tab>, clicking on the window or clicking on the appropriate button in the Panel
- Clicking on the button of an open window will minimize it and bring another to the top
- Some window managers (like Blackbox and TWM) insist that you click on the window titlebar or use arrows on the manager bar



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Manipulating windows

- Moving and resizing windows much like MS Windows except for:
 - Double-clicking on the title bar rolls up the window into the title (windowshading)
 - A window can be forced "Always on Top"
 - Those mysterious "To Desktop" or "Move to Workspace *n*" items...



Most of the Windows rules for moving and resizing windows work in most window managers:

- Click, hold and drag the title bar to move the window;
- Click, hold and drag an edge to resize a window;
- Click in the close box to close the window;
- Click the minimizer box to move the window to a panel button.
- Click the maximizer box to blow up the window to screen size.

There are a couple of non-Windows tricks that KDE and Gnome can do:

- The "On Top" button forces the windows to appear on top even if another window is the active window;
- There are a number of commands for moving windows between virtual workspaces.

[Exercise: play a bit with the windows you've opened.]

 Virtual Workspaces Separate semi-independent workspaces on the same machine <alt tab=""> switches between windows on the same workspace</alt> Click on the Pager or press <ctrl tab=""> to change workspaces</ctrl> To move a window to enother workspace alight 	Let's work some more with virtual workspaces. You can move windows that belong together to another workspace, and <alt tab=""> will only switch between the windows in that workspace. Just click on the upper-left-hand corner of the window and choose the desktop you want to move the window to. Then use the Pager to go to that desktop, or use <ctrl tab=""> instead. You can also specify that the window appear in all workspaces – handy for IM clients.</ctrl></alt>
• To move a window to another workspace, click upper-left-hand button and choose a workspace	 [Exercises: Move to another desktop (like 2) and back; Pick a window and move it to another desktop; Verify that <alt tab=""> doesn't show that window in the marquee;</alt> Switch to the other desktop and move the window back to desktop 1.]
Closing windows	The Windows rules for closing windows also work in most window managers:
 To close a window: Choose File -> Exit in the application Click the close box (upper right-hand corner) Press <alt f4=""></alt> In a terminal window, press <ctrl d=""></ctrl> 	 Select Exit from the first menu; Press <alt f4="">;</alt> Click in the close box to close the window. If you're working in a terminal window, you can also close that window by pressing <ctrl d="">; that's the end-of-file character in UN*X, and that means you've ended input to the shell, so it closes automatically.</ctrl>
	[Exercise: close the windows you've opened using these techniques. Select System Tools -> Terminal from the KDE Menu to open a shell window, then press <ctrl d=""> to close it again.]</ctrl>

Mouse actions

- Most window managers use all three buttons!
- Copy/paste -- may be different from Windows and may vary from DM to DM
 - Highlighting *is* copying
 - Middle-click is paste (left-and-right click, if you only have two buttons, or wheel-click will work with wheel mice)
- Most applications and window managers provide right-click contextual menus as well.

Ideally, you'll have a three button mouse to work with Linux but hardly anyone ever does. So:

- Left-and-right click = middle click (that's tricky)
- Wheel-click on a wheel mouse = middle click

The biggest difference is the fact that the simple act of highlighting copies the highlighted text into the Clipboard. And middle-clicking pastes the text in the cursor location. No menu choice, no <Ctrl/C>, nothing. (Most applications also support the Windows-style copy and paste, but you'll miss this in Windows once you get the hang of it in Linux.)

[Exercise:

- Use the Launcher button to start Firefox.
- From the KDE Menu, select Programming -> Nedit.
- Switch to the Mozilla window and highlight some text.
- Switch to the Text Editor window and middle-click to paste.]

File Managers

- The default file manager will vary with Desktop Manager
 - KDE -> Konqueror
 - Gnome -> Nautilus
 - Others...
- As always, you have a choice; you can run Nautilus under KDE, etc.
- Nautilus has problems with OpenAFS; use Konqueror for AFS volumes instead.

The program used to move, copy, open and delete files is a file manager. (In Windows, it's EXPLORER.EXE, though hardly anyone knows that.) In Linux you have lots of choices. Each window manager (KDE, Gnome, etc.) has a default choice (as shown above) but you can still use whatever file manager you like. (Because Nautilus has problems with OpenAFS, we tend to steer away from it even in Gnome.)

File Managers

- And there's always the shell ...
 - Console commands always work in a terminal window, even if you're in an unfamiliar window manager
 - Look for Konsole, Gnome Terminal, xterm, or rxvt

True, hardcore UN*X geeks can still move, copy and open files from a command shell (just like old DOS hackers can do it from the Command Prompt in Windows).

[Exercise:

- Use System Tools -> Terminal to open a terminal window.
- Choose Run Command, then run xterm to open a different kind of console window.
- Use the ls command in both windows to display your home directory's files.
- Use <Ctrl/D> in both windows to close.]

Using Konqueror

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- To start, choose KDE Menu > Home or double-left-click on Home on the Desktop
- Initially starts in user's home directory; use Up button if you want to see upper-level directories
- Use Up and Back buttons to navigate
- Double-click to open, right-click on files for action menu

Your files will be in your home directory

(/home/username). That directory may be on your machine, or it might be on a server somewhere. It doesn't matter to Linux. To work with your files, just choose Home from the KDE Menu or double-click on the Home icon. The Konqueror window looks a bit like the Explorer window; a list of directories appears on the left, with file and folder icons for the selected directory on the right. You can double-click on a file or folder to open it or right-click on a file to present an action menu. The shift and control keys let you select multiple files just like Windows.

The Up button shifts the active window to the directory above the current one, while the Back button takes you back to the previous directory you were in (wherever that was).

[Exercise: Select Home from the KDE Menu and use the navigation buttons to explore the system.]

If you want to copy or move files, you have several choices:

- Open another Konqueror window and drag-and-drop the files from one window to another;
- Copy the file(s) with the right-click menu, change directories, then right-click and choose Paste.
- Open another Tab with the New Tab button, change directory and paste into the new tab.
- Right-click on the file(s) and select "Copy to..." and the appropriate folder.

Konqueror is not only a file manager but a Web browser. You can open Web servers, ftp sites, etc. in a window and copy and paste just like you do with directories.

[Exercises:

- Open another Konqueror window, then copy a file from a directory other than home in the first window you opened to the second one.
- Open the ISU ftp server (ftp://ftp.iastate.edu) in the first window and copy the README file to your home directory.]

More on Konqueror

- Drag-and-drop between windows works, or use copy-and-paste
- Right-click -> Copy To can be used to copy to a folder.
- Web and ftp servers can be opened as well (use URL)
- Several views are available in the View menu
- The New Tab button allows you to open more than one directory in the same window

- Disks must be unmounted before you remove them.
- Under Gnome, CDs and DVDs will automatically mount and create a desktop icon when they're inserted; right-click and select "Eject" to unmount
- Under KDE, the CD icon appears on the desktop; right-click and select "Eject" to unmount.
- Floppies must be mounted by double-clicking in Computer (Gnome) or under Devices in Konqueror before using them; right-click and select "Unmount volume" before you remove them.

More on Removable Disks

- Removable disks appear in the directory tree under the /media directory.
 Floppy = /media/floppy
 - CDROM/DVD = /media/cdrom CD-RW = /media/cdrecorder
- Before removing the disk, right-click on the disk and choose "Unmount" or (as root) enter the command eject /media/device

Since all your files are in your home directory, you shouldn't need to use a removable disk unless you're (a) moving files to/from another computer without a network, (b) backing up your home directory or (c) installing software from a CD/DVD. Those are things that can cause insecurities, so Linux normally demands that root mounts and unmounts removable disks before they can be used. The icons on the Desktop, in Computer or Konqueror can break that rule, so that you can mount and unmount floppies and Zip disks.

[Exercise: insert a diskette in the machine's drive, open Konqueror, then double-click on the "Floppy" icon to mount it.]

Don't press the buttons on the drive to remove a removable disk! Before removing a removable disk, right-click on its icon and choose "Unmount" to unmount it. Files and data may be lost if you don't. Then right-click again and choose "Eject" to get Zips and CDs out. Or you can unmount and eject any removable disk with the shell command

```
eject /media/device.
```

[Exercise: in the Konqueror window for the floppy disk, right-click on the floppy and choose "Unmount". Remove the floppy from the drive.]

Formatting a Floppy

- 1. Insert a disk
- 2. Choose System Tools -> Floppy Formatter (Gnome only) or run the command gfloppy
- 3. Enter a volume label
- 4. Click Format.

You'll still need to mount the floppy after formatting it.

Linux isn't as paranoid about floppies as it used to be, when only root could format a floppy. If you want to format a floppy from a terminal window, type the su command, then type gfloppy to run the floppy formatter.

File Associations

- Konqueror can identify files by extension, by MIME type, or by analysis
- · Where possible, Konqueror will display thumbnails of the file
- In Konqueror, choose Settings > Configure Konqueror > File Associations
- Enter a pattern or select a filetype, then choose the application to open it with and move it to the top of the list





Nedit -- Notepad on Steroids

- Nedit is a GUI text editor looking at first glance like Notepad
- Edit menu includes case switching, indentation
- Programmer's editor features include syntax highlighting for standard languages
- Search and replace includes regular expressions
- Selected text can be fed into a shell command (like grep and awk)

f you want to specify an application to open a particular type of file, choose Tools -> Configure Konqueror -> File Associations. Select the type of file (they're sorted by MIME type, so images will fall under image/something) and you'll see a list of applications that Konqueror knows can open the file. All of these applications will appear when you right-click and select "Open With ... ". Move the one you want to use for the Open command (or doubleclicking) to the top of the list with the "Move Up" button.

[Exercise: In Konqueror, choose Tools -> Configure Konqueror. Now click on File Associations in the left pane of the window, then choose image/png as the file type. Move the bottom application in the list up to the top by highlighting it and using the "Move Up" button.]

If you deal with text files (program source, HTML the hard way, flat-file databases, etc.) you'll need an editor. If you need something with power but don't want to spend the time to really become familiar with Emacs or VI, Nedit is a good choice. It can do a wide variety of editing tricks, highlights tags in common languages, and if what's there isn't enough you can pipe all or selected text to a shell command (including text filters like grep, awk, perl and python).

Living with Linux in a Windows World

- · Accessing Windows shares
- Equivalent and/or compatible applications
- WINE (run some Windows applications)
- Crossover Office (run Microsoft Office)

There are a huge number of free and proprietary software packages available for Linux for every conceivable purpose. The fact remains, though, that Linux users are a minority in a Windows-dominated world. We usually have to be compatible with Windows users and their applications to coexist. Fortunately, there are alternatives. We can access Windows shares, run compatible and equivalent applications wherever possible, or we can run Windows applications when necessary.

Accessing Windows Shares

- Works in either Nautilus or KonquerorEnter an URL in the form:
- smb://username@servername/sharename/path
- Nautilus also has the File -> Connect to Server command, which puts an icon on the Desktop as well. (You should unmount these when you're finished.)

✓	Connect t	o Server
Service type:	Windows share	~
Server:		servername
Optional ir	nformation:	
<u>S</u> hare:		sharename
Eolder:		path
<u>U</u> ser Nam	e:	usemame
<u>N</u> ame to u	se for connection:	
Browse Net	work 🛛 💥 Ca	ncel Connect

You can easily access Windows shares from either Nautilus or Konqueror. Windows are "SMB" shares, so simply enter an SMB URL for the location of the form "smb://username@servername/sharename/path". (The path is optional.) The share will open in a window.

If you want a more permanent connection, use the "File -> Connect to Server" command in Nautilus. Nautilus will create an icon on the Desktop that can be used to reconnect to the share.

Equivalent/compatible applications

- Microsoft Office
 - OpenOffice.org / StarOffice
 - Abiword/Gnumeric
- Microsoft Outlook
 - Ximian Evolution
- Photoshop
 - Gimp

http://www.linux.ie/newusers/alternatives.php



For Microsoft Office compatibility the logical choice is OpenOffice.org (*aka* StarOffice). If you have an older machine with less than 128 MB of memory, a better match might be "GnomeOffice", i.e., the Abiword word processor and the Gnumeric spreadsheet. These have good (but not perfect) compatibility with MS Office and require a lot less horsepower. Other applications have equivalents as well. The URL http://www.linux.ie/newusers/alternatives.php is a link to a database of Linux equivalents to common (and not so common) Windows applications.

WINE (WINE Is Not an Emulator)

- WINE allows you to run **some** Windows software under Linux by translating Windows API calls to equivalent Linux/X library calls
- WINE doesn't run all Windows software, but the list is growing rapidly.
- Install apps with wine setupcommand, run with wine appfilename
- http://www.winehq.com



Where are Wine's files?

- Each user gets a private "machine" located at /home/username/.wine
- The Windows hard disk is under "c_drive"
- *.reg files are the Windows Registry
- The actual UNIX filesystem is under "dosdevices/z:"

Wine a security risk?

- Users can install a wide variety of Windows applications, including potential security risks, *without a root password!*
- Good news: apps run with the user's privileges, they still can't modify system files other than their own

Wine is a tool that attempts to let you run Windows applications under Linux. It's not perfect, and it works better if there's a copy of Windows installed on the machine so it can utilize DLLs from the Windows install, but it does allow some Windows applications to run. You can run applications that need Wine with the command

wine applicationfilename

If the program has to be installed in Windows, just run the setup routine from Wine first, then use the wine command to start whatever the executable file is. You can get Wine (and information on what programs run with it) from http://www.winehq.com.

So, if I install a program under Wine, where does it go? There's a hidden directory in each user's directory named ".wine". In that directory are folders representing the Windows hard drive (c_drive) and the full UNIX filesystem (dosdevices/z:). Under the C drive folder you'll find "My Documents", "Program Files" and "windows". (I've found that for some Windows applications to work it's useful to create a symbolic link to "windows" named "Windows".)

If Wine is installed by root, then it's installed in a sharable location and everyone can run root's installed applications – but they can't install software themselves except in their own area.

Wine runs with the user's privileges, so Windows applications can't access anything that UNIX applications can't. If you need to access a FAT partition, you'll probably have to run Wine as root, or make changes to the permissions when you mount the FAT partition (normally, FAT partitions are read-only for everyone but root). Running as root means that the application can tinker with files and ports below 1024 to its heart's content, so be careful and read the Wine documentation if you need to do anything too fancy.

Crossover Office

- Crossover Office is an enhanced (commercial) version of WINE specifically designed to run Microsoft Office, including Internet Explorer and Access, and other applications.
- A server edition allows thin client machines to run Windows apps without having software installed locally (and without CALs)
- http://www.codeweavers.com



Simple Windows applications seem to work well under Wine, but Microsoft Office isn't simple. Crossover Office is an enhanced version of Wine that is specifically designed to run Microsoft Office. This works remarkably well for this purpose; unfortunately, it costs money. (It will be available in the new 139 Durham Linux lab, along with Microsoft Office.) There's also a server edition that allows thin client machines running little more than an X server to run Office on a Linux server machine – without the Client Access Licenses (for Windows Terminal Server) required by the Windows 2003 Server solution.

Locating software

Databases of free and commercial applications

- http://sourceforge.net/softwaremap/trove_list.php
- http://freshmeat.net (login required)
- http://www.ibiblio.org/pub/Linux/
- http://www.linux.org/apps/index.html
- http://linux.about.com/od/soft



Getting Help

- KDE Help system KDE Menu -> Help
- Man pages man *commandname* or browse in KDE Help
- Red Hat Linux manuals http://www.redhat.com/docs/
- Linux Documentation Project http://www.tldp.org
- Linux Newbie Help Files http://www.tuxfiles.org/



While there's a lot of software included in a Linux distribution, it doesn't have everything. Finding software for a Linux machine can be a bit more difficult than finding it for Windows; they don't get stocked as much at the bookstore or local computer place. The URLs given here are indexes to Linux software, both Free and Open Source software and commercial packages. SourceForge (sourceforge.net) and FreshMeat (freshmeat.net) catalog Open Source software projects for Linux and other operating systems, and are a good first place to look for problem solutions.

What about help? There's help for KDE in the KDE Menu under "Help". Also available in KDE Help are the "man pages", the help for Linux commands used in a command shell. You can also read that help in the shell window with the command man commandname. For Red Hat Linux users, the manuals are all available online at http://www.redhat.com/docs. For more help, the Linux Documentation Project organizes all of the "Howto" and "FAQ" documents covering hundreds of Linux topics. Those documents can be difficult to understand for the Linux newcomer. For those folks, the Newbie Help Files are a little easier to understand. Many books on Linuxrelated topics are available in print and online from O'Reilly Media (see http://www.oreilly.com/). And if all other help fails, you can purchase Linux for Dummies (along with a host of companion Linux ??? for Dummies books) at your favorite bookseller.

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