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Prepared by OS Integration

Compaq Computer Corporation

Contents

"Quick Setup" with Red Hat Linux 7.1 on the Compaq ProLiant DL320 Server

Abstract: This document provides information on installing and implementing a Red Hat Linux 7.1 operating system on the Compaq ProLiant DL320 server. It includes a feature description of the ProLiant DL320 and a step-by-step installation with Red Hat Linux 7.1. Appendix A provides a hardware system requirements table for you to fill in and reference as you are installing Red Hat an your ProLiant DL320. Appendix B contains a listing of Compaq and Red Hat Linux related web resources.

For additional information regarding the configuration of Linux on Compaq ProLiant servers, visit the Linux at Compaq website: <u>http://www.compaq.com/linux</u>.

For the latest Linux documentation and white papers check: <u>http://www.compaq.com/products/servers/linux/whitepapers.html</u>.

To view the "Installing Linux on Compaq ProLiant Servers" white paper:

http://www.compaq.com/products/servers/linux/compaq-howto.html

Note: Read this document before installing Red Hat Linux 7.1 on your Compaq ProLiant DL320 or ProLiant DL320e servers.

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"Quick Setup" with Red Hat Linux 7.1 on the Compaq ProLiant DL320 Server Integration Note prepared by OS Integration

First Edition (June 2001) Document Number 1557-0601A-WWEN

Compaq ProLiant DL320 Server

Designed to meet the growing needs of both small and medium size businesses, the Compaq ProLiant DL320 undergoes thousands of hours of quality assurance, integration, optimization, and testing to assure maximum reliability on hardware and software to keep networks up and running continuing to enhance business productivity. Compaq also participates in the Red Hat Linux Hardware Certification Program and our engineers constantly review the Compaq hardware and drivers to ensure compatibility with Red Hat Linux.

New Features of Red Hat Linux 7.1

The latest release of Red Hat Linux 7.1 positions Red Hat Linux as an enterprise class operating system. Red Hat Linux 7.1 kernel (2.4.x) is now configured for 2 gigabytes of virtual memory for the kernel and 2 gigabytes of virtual memory for individual processes. Rebuilding the kernel with one of the CONFIG_{1,2,3} gigabyte options will add either more or less virtual memory to the kernel, allowing process virtual memory to be adjusted as well.

Significant improvements over the previous kernel (2.2.x) are apparent in the following areas:

- Supports up to 8 Multiprocessors and 64 GB RAM
- Eliminates the PCI bus limit and makes virtual memory limitless
- Supports a greater number of users and groups and includes a revised scheduler to handle more processes
- Supports USB and IEEE 1394, also referred to as FireWireTM, devices.
- Improves multi-threaded network stack

Using the Compaq System Erase Utility

To begin the installation of Red Hat Linux 7.1 on your ProLiant DL320 start with a system erase. If you do not have a SmartStart CD-ROM and if your ProLiant DL320 is not fresh from the factory, download the Compaq System Erase Utility at this URL: http://www.compaq.com/support/files/server/us/download/9156.html.

Follow the steps below to use the System Erase Utility.

- 1. Obtain One (1) formatted 1.44-MB diskettes.
- 2. Download the SoftPaq to a directory on your hard drive and change to that directory. The file that is downloaded is an executable with a filename based on the SoftPaq Number.
- 3. From that drive and directory, execute the downloaded file and follow the on-screen instructions.

The following files will be created: QRST5.EXE 276090xx._01 README.1ST where "xx" is US (English), or JP (Japanese).

4. Run QRST5.EXE to create the diskettes.

- 5. After the diskettes have been created, you may delete the SoftPaq file downloaded in step 2 and all files generated.
- 6. To run the Compaq System Erase Utility, power down your computer, place the Compaq System Erase Utility diskette 1 in Drive A:, then power up your computer.

If you have the Compaq SmartStart for Servers CD-ROM, boot the server. Starting with a system erase ensures you begin the installation process from a known non-configured state.

- 1. Boot your server using the SmartStart CD-ROM or your bootable floppy disk.
- 2. Select Run System Erase Utility from the Main menu, then select Yes.
- 3. Restart the server.

ROM Based Setup Utility (RBSU)

The ultra thin, ultra density rack mounted Compaq ProLiant DL320 supports a ROM based setup allowing you to use these "quick setup" instructions. The Compaq RBSU is a new setup feature enabling you to easily configure your Compaq ProLiant DL320 server. The RBSU is loaded by pressing F9 when prompted at POST. For example, it allows you to set the date and time, boot controller order; hardware interrupts, and advanced system settings. The first time the server is powered up you will be prompted to enter RBSU and select the Operating System version as well as the preferred language.

Installing Red Hat Linux 7.1

For this "Quick Setup" guide, we will be using the Red Hat Linux 7.1 CD-ROM. Usually, when performing server installations; you do not need to install X window (or the GUI interface), however for the purposes of this document, we will be configuring the X window system.

We will also use the **Automatic Partitioning** available in Red Hat Linux 7.1. These partitions will be automatically created. If you would like additional information on partitioning your hard drive is available at <u>http://www.redhat.com/support/docs/howto</u> or you can review the Red Hat Linux 7.1 documentation provided with your Red Hat Linux 7.1 package.

- 1. Begin the Red Hat Linux 7.1 installation using the CD-ROM.
 - a. Select CD-ROM, and then click the OK button.
 - b. Insert the Red Hat Linux CD-ROM into your CD-ROM drive.
 - c. Select the **OK** button and press **[Enter]**.

At this time, the installation program probes your system and attempts to identify your CD-ROM drive. Notice the HELP sidebar to the left of the GUI to help guide you through the installation.

- 2. Select the language.
 - a. Select the language you use (i.e., English or other language).
 - b. Click the Next button.
- 3. Set the Keyboard configuration.
 - a. Select Model of keyboard or Generic (with number of keys).
 - b. Select Layout.

- c. Select **enable** or **disable** for the dead keys.
- d. Click the **Next** button.
- 4. Set the mouse configuration.
 - a. Select the mouse type for your system or Generic mouse.

Red Hat Linux 7.1 automatically discovers the following mouse Types: PS2 and bus.

If you are using a serial mouse, choose the correct port and device. By selecting the **Emulate 3 Buttons** checkbox, you will be able to use a two-button mouse as if it had three buttons (pressing both mouse buttons simultaneously). If you are installing the X Window System, select the Emulate 3 Buttons option to use a three-button mouse.

- b. Click the **Next** button. The Welcome screen appears with information about registering your software.
- 5. Install options.

The following installation options are available: workstation, server, laptop, custom, or upgrade.

- a. Select the Server radio button.
- b. Click the **Next** button.
- 6. Select your disk partitioning type.

<u>.</u>	Red Hat Linux
Online Help	Disk Partitioning Please select the type of disk partitioning you would like to use. Automatic partitioning will erase any preexisting Linux installations on your system. Selecting manual partitioning allows you to create the partitions by hand.
during a Linux installation is partitioning. Red Hat Linux makes this process much simpler by providing an option for automatic partitioning.	 Automatically partition and REMOVE DATA ♦ Manually partition with Disk Druid ♦ Manually partition with fdisk [experts only]
By selecting automatic partitioning, you will not have to use the Disk Druid or fdisk partitioning tools to assign mount points or allocate space for your installation.	
? Hide Help ? Release Notes	_ ☐ Back

Figure1. Partitioning

a. Select the Automatic partition and REMOVE DATA radio button.

Automatic partitioning removes any existing Linux partitions.

- b. Click the Next button.
- 7. Setup your network configurations.

	Red Hat Linux
Online Help Network Configuration Choose your network card and whether you would like to configure using DHCP. If you have multiple Ethernet devices, each device will have its own configuration screen. You can switch between device screens, (for example eth0 and eth1); the information you give will be specific to each screen. If you select Activate on boot, your network card will be started when you boot. If you do not have DHCP client access or are unsure as to what this information is, please contact your Network Administrator. Next enter, where applicable, the	Network Configuration eth0 Configure using DHCP Activate on boot IP Address: 192.168.0.1 Network: 192.168.0.254 Broadcast: 192.168.0.1 Hostname: sparky.redhat.com Gateway: 192.168.0.1 Primary DNS: 207.175.42.153 Secondary DNS:
IP Address, Netmask, Network, and Broadcast addresses. If you are unsure about any of these	
? Hide Help ? Release Notes	⊲ Back Next

Figure 2. Network Configuration

Choose whether you would like to configure your IP address using DHCP.

- a. By selecting the **Activate on boot** checkbox, your network interface will start when you boot your server.
- b. Type in the IP Address, Netmask, Network, and Broadcast, addresses if needed.

If you have a fully qualified domain name for the network device, type it in the **Hostname** field.

- c. Type the **Gateway** and **Primary DNS** (if applicable the **Secondary DNS** and **Ternary DNS**) addresses.
- d. Click the Next button.
- 8. Configure your firewall.

	ion		
Please choose you	ur security level:		
(•	High	C Medium	🗍 No firewall
Use default fire	wall rules		
C Customize			
Trusted devices:	cipcb0		
Allow incoming:	DHCP SSH Telnet WWW (HTTP) Mail (SMTP) FTP		
Other ports:			
	Use default firer Customize Trusted devices: Allow incoming:	Trusted devices: wvlan0 Allow incoming: DHCP SSH Telnet WWW (HTTP) Mail (SMTP) FTP	High Medium Use default firewall rules Customize Trusted devices: cipcb0 wvlan0 Allow incoming: DHCP SSH Telnet WWW (HTTP) Mail (SMTP) FTP

Figure 3. Firewall Configuration

a. Select the High, Medium or No Firewall radio button.

NOTE: Choosing **High** will not allow the following: Active mode FTP (passive mode FTP, used by default in most clients, should still work), IRC DCC file transfers, RealAudioTM, and the Remote X Window System clients.

b. Select the **Use default firewall rules** or **Customize** radio button to add trusted devices or to allow additional incoming services.

You can allow access to ports not listed here, by listing them in the **Other ports** field. Use the following format: **port:protocol**. To specify multiple ports, separate them with commas.

- c. Click the **Next** button.
- 9. Select your time zone configuration.

You will see two tabs. The first tab allows you to configure your time zone by your location and the second tab allows you to specify a UTC offset such as daylight savings.

- a. Select your Time Zone.
- b. Click the Next button.
- 10. Establish language support.
 - a. Select the language you use (i.e., English or other language).
 - b. Click the **Next** button.
- 11. Configure your account.

			Rea H	at Linu
Account	Account Configura	ion		
	Root Password:	******		
Configuration	Confirm:	*****		
Note : Setting up a root account		Root pass	word accepted.	
nd password is one of the most	Account Name:	imoore		
mportant steps during your nstallation. Your root account	Password	******	Password (confirm):	*****
nables you to install packages,	Password:		· · · L	
pgrade RPMs and do most system	J		word accepted.	
naintenance. Logging in as root	Full Name:	Jewell Moore		
vives you complete control over your system and is very powerful.	Add	Edit	Delete	New
You should be sure to use the root	Account Name F	ull Name		
ccount only for administration.	jmoore J	ewell Moore		
vour general use and su – to gain				
oot access when you need to fix				
omething quickly. These basic				
ules will minimize the chances of a ypo or incorrect command doing				
lamage to your system.				
Enter a password for the root account. The password must be at east six characters in length				

Figure 4. Account Configuration

Setting the Root Password –Administrate ONLY

a. Type in your [password] in the password window (must be at least six characters long). Confirm your password in the password window.

Setting Up User Accounts

- a. Enter an account name.
- b. Enter and confirm a password for that user account. Enter the full name of the account user and click **Add**. Your account information will be added to the account list, and the user account fields will be cleared so that you can add another user.
- c. Click the Next button.

You can also choose **New** to add a new user. Enter the user's information and use the **Add** button to add the user to the account list. Use **Edit** or **Delete** for user accounts you have created and no longer need.

12. Select the packages to install.

GNOME and **KDE** are graphical user interfaces (desktop environments) similar to Windows allowing you to navigate the Linux landscape effortlessly. Before these two packages evolved, Linux users had to memorize many shortcuts and commands and type them at the command line to navigate or accomplish tasks. Compaq recommends selecting at least one of these packages if you are not a Linux or UNIX guru.

ine Help	Red Hat I	
Selecting Package Groups	Printer Support	-
Select the package groups that you want to install. To select a package group, click on the check box beside it.		ľ
To select packages individually, you must check the <i>Select</i> <i>Individual Packages</i> box at the bottom of the screen.	KDE Mail/WWW/News Tools	
	DOS/Windows Connectivity	
	Graphics Manipulation	
	Games Games Total install size: 994M	

Figure 5. Selecting Package Groups

- a. To select packages individually, check the **Select Individual Packages** checkbox at the bottom of the screen.
- b. Select the **Packages to Install** checkboxes (choose Printer Support, X Window System, either KDE or GNOME, Mail/WWW/News Tools, DOS/Windows Connectivity and Graphics Manipulation).

Selecting **Everything** installs all the packages included with Red Hat Linux. You need approximately 1.7 GB of free disk space.

c. After selecting the components you wish to install, you can select or deselect individual packages using your mouse.

Check the **Total install size** in the lower right portion of the screen to ensure the availability of sufficient disk.

d. Click the **Next** button.

🛅 Amusements			Package	Size (MB)			
🔄 Applications				. ,			
🛅 Archiving		H	abiword	10			
🛅 CPAN		K	emacs emacs-X11	23 6			
Communications 🛅		IIII	emacs-kii emacs-el	24			
Cryptography 🛅		IH.	emacs-leim	4			
🛅 Databases			emacs-nox	3			
Editors			gedit	1			
Engineering		IH.	jed	1			
File Statement		IH.	ied-common	2			
🛅 Internet 🥅 Multimedia		IH.	jed-xjed	1			
Multimedia 💼 Networking		IH.	joe	1			
Productivity		IП	nvi-m17n	2			
Productivity		IT.	nvi-m17n-canna	1			
System			nvi-m17n-nocanna	1			
Text			psgml	1			
Development		\Box	semi	2			
Documentation			semi-xemacs	2			
			vim-X11	2			
Japanese			vim-enhanced	1			
Svetam Enviornment			vomore	88			
al install size: 994M					Select all in g	roup	Unselect all in gro
macs is a powerful, customi						le editing fea	tures, a scripting
nguage (elisp), and the cap	pability	/ to n	ead mail, news and m	nore without leaving	the editor.		

Figure 6. Individual Package Selections

NOTE: To select an individual package, double-click the checkbox beside the package name. The package information will appear at the bottom of the screen. You can also select or deselect all packages listed within a particular group by clicking on the **Select all in group** or **Unselect all in group** buttons.

- a. At the bottom of the screen, under the list of missing packages, an **Install packages to satisfy dependencies** checkbox is selected by default. By leaving this checked, the installation program will resolve package dependencies automatically by adding all required packages to the list. The **Unresolved Dependencies** screen will only appear if you are missing items needed by the packages you selected.
- b. Click the Next button.
- 13. Configure authentication.

To configure the NIS option, you must be connected to an NIS network and have your passwords and other network information ready.

	Red Hat Linu
line Help	Authentication Configuration
	Enable MD5 passwords
Authentication	Enable shadow passwords
Configuration	Enable NIS
You can skip this section if you will	NIS Domain:
not be setting up network passwords. If you are unsure, ask your system administrator for	Use broadcast to find NIS server NIS Server:
assistance.	Enable LDAP
Unless you are setting up an NIS	LDAP Server:
password, you will notice that both	LDAP Base DN:
MD5 and shadow are selected. Using both will make your system	Use TLS lookups
as secure as possible.	🖵 Enable Kerberos
Enable MD5 Passwords	Realm:
allows a long password to be used (up to 256	KDC:
characters) instead of the standard eight letters or less.	Admin Server:
 Use Shadow Passwords provides a very secure method of retaining passwords for you. The password filed in the 	

Figure 7. Authentication Configuration

- a. Select the **Enable MD5 passwords** checkbox (allows a long password to be used (up to 256 characters).
- b. Select the **Enable shadow passwords** checkbox, a secure method for retaining passwords).
- c. Select the **Enable NIS** check box to run a group of computers in the same Network Information Service domain with a common password and group file.

You can choose from the following two options:

- **NIS Domain** allows you to specify the domain or group of computers your system belong.
- Use broadcast to find NIS server allows you to broadcast a message to your local area network to find an available NIS server.
- d. Select the Enable LDAP checkbox to use LDAP for some or all authentication.

Choose from the following options:

- LDAP Server, allows access a specific server by providing an IP address.
- LDAP Base DN, discovers user information by its Distinguished Name (DN).
- e. Select the **Use TLS lookups** checkbox to allow LDAP to send encrypted user names and passwords to an LDAP server before authentication.
- f. Select the **Enable Kerberos** checkbox, a secure system for providing network authentication services.

There are three options to choose from here:

- **Realm** allows access a network that uses Kerberos, composed of one or a few servers and a potentially large number of clients.
- **KDC** grants access to the Key Distribution Center (KDC), a machine that issues Kerberos tickets (TGS).
- Admin Server allows you to access a server running kadmind.
- g. Click the **Next** button.
- 14. Configure the GUI X Configuration tool.

Configuring Your Videocard

The next step is to configure an X server for your system.

Online Help X Configuration In most cases your video hardware can be probed to automatically determine the best settings for your display. Although, the installation program probes to determine the best video card for your system, you can choose another video card if needed. Once you have selected your video card if needed. Once you have selected your video card. If you decide that the values you have selected are incorrect, you can click the Restore original values button to return to the suggested probed settings. You can also choose to Skip X Configuration if you would rather configure X after the installation or not at all. X the card RAM: Z MB Restore original values Xi dee card RAM: Z MB Restore original values X configure X after the installation or not at all.		Red Hat Linux
suggested probed settings. S3 868 with ATT 20C409 You can also choose to Skip X S3 868 with ATT 20C409 Configuration if you would rather configure X after the installation or not at all. S3 866 with SDAC (86C716) Video card RAM: 2 MB Restore original values	X Configuration Although, the installation program probes to determine the best video card for your system, you can choose another video card if needed. Once you have selected your video card, choose the amount of video RAM present on your card. If you decide that the values you have selected are incorrect, you can click the Restore original	X Configuration In most cases your video hardware can be probed to automatically determine the best settings for your display. If the probed settings do not match your hardware select the correct setting below: V ■ neadob S 3801/805 (generic) S 3801/805 with ATT20c490 RAMDAC S 3801/805 with ATT20c490 RAMDAC and ICD2061A S 3801/805 with S GenDAC S 3801/805 with S GenDAC S 3801/805 with S C1148(5,7,9) RAMDAC S 3864 with SC1148(5,7,9) RAMDAC S 3864 with STC120498 or 21C498 S 3864 with STC120498 S 38
Image: Skip X Configuration Image: Skip X	suggested probed settings. You can also choose to Skip X Configuration if you would rather configure X after the installation or not at all.	S3 868 with ATT 20C409 S3 868 with ATT 20C498 or 21C498 S3 868 with SDAC (86C716) S3 862 c80 (VIRGE/MX) S3 86C280 (VIRGE/MX+) S3 86C357 (VIRGE/GX2) Video card RAM: 2 MB Skip X Configuration

Figure 8. X Configuration

X configurator presents a list of video cards for you to choose from. If your video card does not appear on the list, X configurator may not support it. Check the Red Hat Hardware Compatibility List (HCL) available at <u>http://hardware.redhat.com/hcl/genpage2.cgi</u>.

You can choose **Unlisted Card** and attempt to configure it by matching your card's video chipset with one of the available X servers.

- a. Select your **Videocard** from the list by using your mouse, then allow Red Hat to autodetect it.
- b. Click the **Next** button.

Configuring Your Monitor

X configurator will then display a listing of monitors. You can either use the monitor that is auto detected or select a different monitor.

IMPORTANT: If your monitor does not appear on the list, select the most appropriate **Generic** model available. Do not select a monitor *similar* to your monitor unless you are certain that the monitor you are selecting does not exceed the capabilities of your monitor. Doing so may damage your monitor.

- a. Select your Monitor Type or a Generic from the list.
- b. Click the **Next** button.

Custom Configuration

	Red Hat Linux
Online Help	Customize Graphics Configuration
Custom Configuration Choose the correct color depth and	
resolution for your X configuration. Click Test Setting to try out this configuration. If you do not like what you are presented with while testing, click No to choose another resolution.	Color Depth:
If you installed both GNOME and KDE, you can choose which one you would like to be your default desktops environment. Otherwise, it will only show GNOME or KDE as the desktop default.	High Color (16 Bit) Test Setting Your desktop environment is:
You can also choose whether you want to boot your system into a text or graphical environment once Red Hat Linux is installed. Unless you have special needs, booting	GNOME
into a graphical environment (similar to a Windows environment) is recommended. If	Please choose your login type:
Hide Help Release Notes	d Back D Next

Figure 9. Custom Configuration

- a. Choose the correct color depth and resolution for your X configuration.
- b. Click the Test Setting button to try out this configuration.
- c. If you installed both GNOME and KDE, select one as your default desktop environment.
- d. For the Login Type, select **Graphical** radio button. Compaq recommends booting into a graphical environment unless you have special needs.
- e. Click the Next button.
- 15. Prepare for the install.

You will now see a screen preparing you for the installation of Red Hat Linux.

Installing Packages

You should see bars showing the packages you selected with their total progress, size, and summary information as they are being installed.

			Red Hat	t Linux
Online Help				
Installing Packages	Package: vim-common-6 Size: 10,076 KBytes Summary: The common file		n of the VIM editor.	
We've gathered all the information needed to install Red Hat Linux on your system. It may take a while to	Package Progress:			
install everything, depending on	Status	Packages	Size	Tim
how many packages need to be installed.	Total	483	998 M	0:27.2
liistalleu.	Completed	128	248 M	0:06.4
	Remaining	355	750 M	0:20.3
		r	e d hat	-
P Hide Help ? Release Notes			d Back	⊳ Next

Figure 10. Installing Packages

a. Click the **Next** button.

After pressing the **Next** button, partitions will be written and packages will be installed. To cancel this installation process, hit your computer's Reset button or use the **Ctrl+Alt+Del** to restart your machine

16. Create a boot diskette.

IMPORTANT: When performing a partitionless installation, you must create a boot disk. Without this diskette, Red Hat Linux will not boot.

Red Hat Linux



Figure 11. Boot Disk Creation

- a. Insert a blank, formatted diskette into your diskette drive.
- b. Remove it from your diskette drive and label it clearly since you may need it for future restores.
- c. Click the Next button.
- 17. Complete the installation.

The installation program will now prompt you to prepare your system for reboot.

- a. Remove all media from the diskette drive or the CD-ROM in the CD-ROM drive.
- b. After the power-up sequence completes, you should see the LILO GUI prompt. Do one of the following things:
 - o Press [Enter] (LILO's default boot)
 - Select the **boot label**, followed by **[Enter]** (Following a timeout period, LILO will automatically boot the default entry)

Following these steps, you should see one or more screens of messages scroll by, then you should see a login: prompt or a GUI login screen. You have now completed the installation of Red Hat 7.1 Linux.

Troubleshooting

Red Hat Linux 7.1 stores the installation log at */tmp/install.log*. If you experience problems during the installation, refer to this log to determine which steps completed normally.

Check Appendix A for website support for Red Hat Linux 7.1 and Compaq ProLiant servers.

For more information see the *Official Red Hat Linux Getting Started Guide* online at <u>http://www.redhat.com/support/manuals</u> and the Red Hat Linux errata pages available at <u>http://www.redhat.com/support/errata</u>.

Compaq Related Questions and Answers

Where can I get more information on Compaq and Linux?

The Compaq Linux website hosts an array of information, such as the distributions Compaq supports, white papers, customer advisories, support matrices, and a direct link to all Linux SoftPaqs for servers and storage options located at <u>http://www.compaq.com/linux/</u>.

Does Compaq have Open Source projects?

Compaq is hosting a number of ongoing open source software projects running on ProLiant platforms. The Compaq open source website contains engineering projects, technical papers, news and articles from within the Compaq open source community. Compaq also aids in the support of Linux by regularly contributing software to the Linux kernel. Visit us at http://www.opensource.compaq.com/.

Why start with a system erase?

Starting with a system erase ensures you begin the installation process from a known nonconfigured state.

How do I perform a system erase?

Boot from the SmartStart CD-ROM for servers and choose System Erase from the Main menu. You can also download the Compaq System Erase Utility at http://www.compaq.com/support/files/server/us/download/9156.html.

How do I get to the main menu of SmartStart if all that shows is a boot: instead of the graphical menu when booting to the SmartStart CD?

One method is to build and use the System Erase Diskette. Create this diskette from the Compaq Disk Builder by inserting the SmartStart CD-ROM into a system running Microsoft Windows; the Autorun feature automatically starts the Disk Builder program.

Appendix A – System Requirements Table

Use this table for recording information about your Compaq ProLiant DL320 server before installing Red Hat Linux 7.1 and keep it as a reference.

Table 1. System requirements reference table

Description	Installed Hardware and Network Information
Hard drive(s): type, label, size; ex: IDE hda=1.2 GB	
Partitions: map of partitions and mount points; ex: /dev/hda1=/home, /dev/hda2=/	
(Fill this in once you know where the partitions will reside)	
Memory: amount of RAM installed on your system; ex: 64 MB, 128 MB	
CD-ROM : interface type; ex: SCSI, IDE (ATAPI)	
SCSI adapter: if present, make and model number; ex: SCSI adapter	
Network card: if present, make and model number	
Mouse: type, protocol, and number of buttons; ex: generic 3 button PS/2 mouse, 2 button serial mouse	
Monitor: make, model, and manufacturer specifications	
Video card: make, model number and size of VRAM	
Sound card : make, chipset and model number; ex: Sound Blaster 32/64	
IP, DHCP, and BOOTP addresses : four numbers, separated by dots; ex: 10.0.2.15	
Netmask : four numbers, separated by dots; ex: 255.255.248.0	
Gateway IP address : four numbers, separated by dots; ex: 10.0.2.245	
One or more name server IP addresses (DNS): one or more sets of dot-separated numbers; ex: 10.0.2.1 domain name: the name given to your organization	
Hostname : the name of your computer; your personal choice of names; ex: cookie, southpark	

Appendix B Web Resources

In addition to hardware and software products, Compaq also provides information enabling you to stay current on the latest developments and assisting you in making deployment decisions. Table 1 lists Compaq web resources.

Table 1. Compaq web resources

Item	Web Location
Compaq and Linux commit to deliver the best systems and services available in the industry, built upon a foundation of strong commitment to industry standards. Our support for Linux includes close alliances with the major Linux distributions, contributions to open source projects, and expansion of our portfolio of solutions, technology, and services to incorporate support for Linux.	http://www.compaq.com/linux/
Compaq Resource Paq for Linux contains utilities, technical documentation, software drivers, and customer support information for administrators and users of Compaq server products	http://www.compaq.com/products/servers/linux/linuxpaq.ht ml
Compaq OpenSource contains a listing of current opensource projects and additional information regarding the opensource movement.	
Compaq <i>ActiveUpdate</i> offers proactive notification and delivery of the latest software updates. Do not waste time searching the web. Subscribe to Compaq ActiveUpdate for automatic delivery of software updates for your Compaq servers, desktops, workstations, and portables.	http://www.compaq.com/products/servers/management/acti veupdate/index.html
Compaq Intelligent Manageability products maximize the availability, performance and operations of all Compaq servers, storage systems, workstations, desktops, and portables. Compaq, with its partners, offers best-in-class industry standard management systems to deploy, operate, and maintain your hardware investment. This website also provides tools, guides, and information to reduce expense, minimize complexity, and speed execution.	http://www.compaq.com/manage
Compaq SmartStart for Servers provides everything you need to get your servers up and running with full Compaq support.	http://www.compaq.com/products/servers/SmartStart/index. html
Compaq <i>ActiveAnswers</i> gives you the benefit of our experience to help manage your system and reduce the time, risks, and complexity associated with deploying solutions.	http://www.compaq.com/activeanswers
Compaq System ROMPaqs are available for Compaq industry-standard server products.	http://www.compaq.com/support/files/server/us/index.html
Customer Advisories inform you of any known problems and workarounds regarding Compaq products.	http://www.compaq.com/support/techpubs/Customer_advis ories/index.html
Press releases and Communiqués announce the availability of new products and versions.	http://www.compaq.com/newsroom/pr

continued

Table 1.	Compaq web	resources	(continued)
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Item	Web Location
Compaq Server Software Download Center website provides the capability to download device drivers, utilities, services, and BIOS required for Compaq ProLiant servers.	http://www.compaq.com/support/files/server/us/index.html
White Papers (complete listing) inform you of ways to optimize your environment and obtain the maximum benefit from software enhancements.	http://www.compaq.com/support/techpubs/whitepapers/ind ex.html

Information specific to Linux and Red Hat can be found at the locations listed in Table 2.

Table 2. Linux and Red Hat resources on the web

Item	Location
The Official Red Hat Linux 7.1 Reference Guide is available at the official Red Hat website. This reference contains useful information about your Red Hat Linux system. From fundamental concepts, such as the structure of the Red Hat Linux file system, to the finer points of disk partitioning and authentication control.	http://www.redhat.com/support/manuals/RHL-7.1-Manual/ref- guide/
The Official Red Hat Linux Customization Guide contains information on how to customize your Red Hat Linux system to fit your needs. If you are looking for step- by-step, task-oriented guides for configuring and customizing your system.	http://www.redhat.com/support/manuals/RHL-7.1- Manual/customization-guide/
Red Hat "HowTo" sites for Tips and FAQs' contains documents to help you install, set up, and troubleshoot your Linux system.	http://www.redhat.com/support/docs/howto
Red Hat Certified Hardware list assists you in the selection of hardware.	http://www.redhat.com/support/hardware
Red Hat Manuals and Documentation are the same guides that come with Red Hat's boxed products.	http://www.redhat.com/apps/support/documentation.html
Red Hat Hardware Compatibility List (HCL) assists you in the selection of hardware and ensure compatibility.	http://hardware.redhat.com/hcl/genpage2.cgi
Red Hat News provides current and past press releases about Red Hat's products, services, and partnerships.	http://www.redhat.com/about/press_releases.html
Red Hat Errata contains the most recent information about important updates, fixes, and corrections for Red Hat Linux	http://www.redhat.com/support/errata
Linux Kernel Information provides the latest information about the Linux kernel.	http://www.kernel.org/