Avaya VisAbility™ Management Suite Release 1.2

Configuring Red Hat Linux

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Preventing Toll Fraud
Toll Fraud is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or working on your company's behalf). Be aware that there is a risk of toll fraud associated with your system and that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya Fraud Intervention
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Providing Telecommunications Security
Telecommunications security of voice, data, and/or video communications is the prevention of any type of intrusion to, that is, either unauthorized or malicious access to or use of, your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or working on your company's behalf. Whereas, a "malicious party" is Anyone, including someone who may be otherwise authorized, who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based) or asynchronous (character-, message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll-facility access)
- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company, including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

Your Responsibility for Your Company's Telecommunications Security
The final responsibility for securing both this system and its networked equipment rests with you – an Avaya customer's system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure your:

- Avaya provided telecommunications systems and their interfaces
- Avaya provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products

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1 Welcome

Purpose

This book explains how to set up Red Hat Linux on the server that run components of the Avaya VisAbility™ Management Suite.

Prerequisites

Configuring Linux requires familiarity with Linux operating systems. Experience using Red Hat is highly desirable.

Intended Audience

We wrote this book for system administrators who are responsible for installing software on Linux-based systems.

Conventions Used in This Book

In this book, we use the following typographical conventions:

- We use bold type for emphasis and for any information that you should type; for example: **save translation**.
- We use Courier font for any information that the computer screen displays; for example: `login`.
- We use arrows to indicate options that you should select on cascading menus; for example: “Select File>Open” means choose the “Open” option from the “File” menu.

Additional Resources

The following additional books exist to help you during installation and configuration of selected applications in the suite:

- Avaya VisAbility Management Suite Installation Overview, 555-233-148

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   http://www.adobe.com.

5. Access http://www.avaya.com/support

6. Click `Product Documentation`.

7. Click `System and Network Management.`

8. Under the heading "VisAbility Management Suite," locate the heading, "Avaya VisAbility™ Management Suite" and then click the link corresponding to the software release for which you want documentation.

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2 Linux Server Installation

This document specifies the options that you must select during the installation of Red Hat Linux 7.3 to support Avaya MultiVantage Fault & Performance Manager, Avaya MultiVantage Proxy Agent, and Avaya MultiVantage Configuration Manager. This document is copied from the appendix of the Avaya VisAbility Management Suite Implementation Guidelines, which is available from your Avaya client executive.

If an option is not specified in this document, select the default response.

Installing Red Hat Linux 7.3

1. At the "Install Type" prompt (screen #5), choose the 'Install' and 'Server' options.
2. At the "Disk Partitioning Setup" prompt (screen #6), choose 'Manually Partition with Disk Druid.'
3. At the "Disk Setup" prompt (screen #7), delete any partitioning that appears for the hard drive, using the DELETE button.
4. Then, add partitions in accordance with the table below, using the ADD button.

   The precise partition sizes are shown for a 40GB hard drive. If the hard drive is bigger than 40GB, use the proportion column to partition the hard drive.

Mount Point	Partition Size (40MB HD)	Proportion of Disk Space (>40MB HD)	File System Type
/	800 MB	2%	ext3
/boot	100 MB	1%	ext3
/home	7000 MB	18%	ext3
/usr	13000 MB	33%	ext3
/var	13000 MB	33%	ext3
/swap	2048 MB	5%	swap
/tmp	3000 MB	8%	ext3
Total	38948 MB	100%	

5. At the "Network Configuration" prompt (screen #10), clear the 'Configuration using DHCP' checkbox and instead select 'static IP.'

6. Then, enter the static IP address; subnet mask; hostname; gateway; and primary, secondary, and tertiary DNS addresses.

7. At the "Firewall Configurations" prompt (screen #12), select 'No firewall' with 'Use default firewall rules.'

*** Note:** The VisAbility Management Suite installation process will override the setting and select the default firewall rules.

8. At the "Account Configuration" prompt (screen #15), enter the password for the root user, and then add users including one for Avaya remote services.

9. At the "Package Group Selection" prompt (screen #16), select 'Classic X window System,' 'GNOME,' and 'Anonymous FTP Server.'

Installing Additional Software

1. After you install Red Hat, you must install the following individual RPM (Red Hat Package Manager) files from the Red Hat CD:

   a. mgetty (install 1st)

   b. mgetty-sendfax

   c. UUCP

2. In addition, verify that the following RPM files were loaded during the Red Hat installation:

   a. ppp

   b. vnc

   c. vnc-server

If you need to install an RPM, follow the instructions below.

Installing RPM files

1. Insert the Red Hat installation CD in the CD-ROM drive.
2. Open the Terminal Emulation program.
3. Type cd /mnt/cdrom/RedHat/RPMS.

*** Note:** If Linux responds "directory does not exist," you may have to manually mount the CD-ROM drive. To do so, type: mount /mnt/cdrom, then repeat "cd" command.

4. At the $ prompt, type rpm –iv <name of RPM package>.

Determining whether RPM files are already installed

1. In the terminal emulation window, at the $ prompt, type rpm –qa <name of RPM package>.
2. To search for RPM files using a partial RPM package name, at the $ prompt type:

   Rpm –qa | grep <partial name with * for letters not specified>,

   For example, **rpm –qa | greg vnc*.rpm** to determine if any RPM packages beginning with "vnc" have been installed.