Eureka Streams Fedora Installation



Fedora Installation Draft

Eureka Streams Fedora Installation Edition 0

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This document provides step-by-step instructions for installing a private instance of Eurekastreams from Lockheed-Martin. Eurekastreams combines social features to enable employees within your company or organization to collaborate in new ways. Eurekastreams provides features that bring multiple, disparate sources of content into manageable streams.

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Chapter 1. Draft

Executive Summary

This chapter provides a high-level overview of the project.

1.1. Related documents

· Statement of Work (SOW)

1.2. Technologies used

This project incorporates the following technologies:

Red Hat

- Publican
- Red Hat Enterprise Linux 5
- Fedora Linux

1.3. Scope

1.3.1. Focus on content, not formatting

This documentation system leverages open-source tools to create professional documents without worrying about the format. It provides several advantages:

- · Rapid document creation
 - · Include files directly
 - Manage revisions
 - · Publish content automatically
- Automatic formatting based on stylesheets
 - · Consistent look and feel
 - · Format is based on semantic content
- · Automatic creation of
 - · Table of contents
 - · List of figures
 - · Index (based on tagged content)

1.3.2. Create professional documents based on templates

This package provides the **ej** command for creating documents. The **ej** command is short for **engagement journal** and does several things:

- · Creates a working directory containing a template engagement journal
- · Enables the author to work with plain-text files
- Provides a Makefile, which...
 - 1. converts plain-text, lightweight markup into docbook
 - 2. converts docbook into well-formatted output, such as PDF



Note

The **ej** command provides the above features *now*.

1.3.3. Manage a central document repository

The **ejadm** command administers a collection of documents. In the future, the **ejadm** command will provide a front-end to version control and publishing, enabling users to:

- · List documents by author, client name, or document title
- · Search documents
- · Publish documents
- · Manage revisions
- · Check-out documents
- Check-out document modules; e.g., runbook procedures



Important

The ejadm command does not yet provide the features listed above.

1.3.4. Another scope element

Use asciidoc in your source to denote things that should be **bold** or *italicized*.

List titles are optional and begin with a dot (no space)

- · First bullet point in no implied order of progression
- · Second bullet point
 - · Sub-bullet
 - Another sub-bullet
- · Third bullet point
- Denote commands, such as the cat /proc/cpuinfo command, in backticks

Draft Challenges and Risks

List titles are bold, and this portion is also italicized

- 1. Numbered lists are good for procedures
- 2. Pretty easy, right?
 - a. A sub-step
 - b. Second sub-step
- 3. Third major step

1.4. Challenges and Risks

1.4.1. Publican versions

Publican embeds a *product* version number in the title of the document. This is really annoying, but fits within the design goals of **Publican**.

Sigh...to get rid of it:

- 1. Edit en-US/Book_Info.xml
- 3. Change it to read
- 4. Rebuild by running the make all command



Note

A future version of the ej command will probably do this for you.

1.4.2. Low-latency Environment

This solution does not require any background process (also known as a *daemon*) to run. This avoids any impact on low-latency requirements for RHEL.

1.4.3. DNS Architecture

Any network infrastructure based on TCP/IP protocols should have a well-designed DNS. This document provides work-arounds for an infrastructure in which DNS is less than optimal.

Causes

- · Lack of heirarchical delegation to subdomains
- Missing A records
- Inconsistent cname records
- · Improper forwarders

Effects

- · Hosts cannot reach each other
- · Kerberos-based authentication fails

Workarounds

- Pre-populating the /etc/hosts file provides unique names for each record
- A naming standard has been developed for adding entries to the /etc/hosts file
- Use RHN Satellite Server to push out the /etc/hosts file

1.4.4. Multicast traffic

Red Hat Cluster Suite requires multicast traffic on intervening switches.

1.5. Recommendations

1.5.1. Fix your DNS

Please fix your DNS asap.

1.5.2. Implement multicast correctly

Really, I mean a \$35 D-Link switch can do it.

1.5.3. Design a standard operating environment around Client Name's Satellite Server

Client Name has an RHN Satellite Server. We should develop a plan to:

- · Define standard configurations for Client Name RHEL servers
- Add existing servers to the satellite server for management of
 - · Patches
 - · In-house software
 - Configuration files that deviate from stock. RHN Satellite server provides basic revision control for config files.
- · Deploy future servers

1.5.4. Disable unnecessary services

A number of services are enabled by default and can be disabled to save resources. The following code snippet can be added as a standard part of **%post** in a baseline kickstart.

#!/bin/bash

unnecessary="

Draft Centralized logging

```
avahi-daemon
pcscd
bluetooth
hidd
iptables
cpuspeed
prog=$(basename $0)
def_run=$(grep -'^id.*initdefault' -/etc/inittab -| cut --d: --f2)
for svc in $unnecessary; do
 chkconfig ---list $svc -| grep --q -"$def_run:on" && continue
  logger --t $prog -"disabling $svc"
  service $svc stop
 chkconfig $svc off
file=/etc/sysconfig/network
grep --q NOZEROCONF $file -|| \
 logger --t $prog -"disabling zeroconf"
 echo -"NOZEROCONF=disabled" >> $file
```

The script reports its actions in /var/log/messages, as shown in this example output:

```
Nov 17 16:51:42 hostname disable-services: disabling avahi-daemon
Nov 17 16:51:42 hostname disable-services: disabling pcscd
Nov 17 16:51:44 hostname disable-services: disabling bluetooth
Nov 17 16:51:44 hostname disable-services: disabling hidd
Nov 17 16:51:44 hostname disable-services: disabling iptables
Nov 17 16:51:44 hostname disable-services: disabling cpuspeed
```

1.5.5. Centralized logging

We should consider making **rsyslog** a part of the baseline build. A centralized log host can be virtualized and addressed using a DNS CNAME, such as **syslog01**. This would allow the virtual host to be relocated as needed without impacting existing configurations.

Rsyslog is an enhanced multi-threaded syslogd supporting, among others, MySQL, syslog/tcp, RFC 3195, permitted sender lists, filtering on any message part, and fine grain output format control. It is quite compatible to stock sysklogd and can be used as a drop-in replacement. Its advanced features make it suitable for enterprise-class, encryption protected syslog relay chains while at the same time being very easy to setup for the novice user.

1.5.6. Event correlation

Client Name should consider installing Simple Event Correlator (SEC) on the syslog host.

See http://simple-evcorr.sourceforge.net for more information on SEC.

SEC is an open source and platform independent event correlation tool that was designed to fill the gap between commercial event correlation systems and homegrown solutions that usually comprise a few simple shell scripts. SEC accepts input from regular files, named pipes, and standard input, and can thus be employed

as an event correlator for any application that is able to write its output events to a file stream. The SEC configuration is stored in text files as rules, each rule specifying an event matching condition, an action list, and optionally a Boolean expression whose truth value decides whether the rule can be applied at a given moment. Regular expressions, Perl subroutines, etc. are used for defining event matching conditions. SEC can produce output events by executing user-specified shell scripts or programs (e.g., snmptrap or mail), by writing messages to pipes or files, and by various other means.

SEC has been successfully applied in various domains like network management, system monitoring, data security, intrusion detection, log file monitoring and analysis, etc. The applications SEC has been used or integrated with include HP OpenView NNM and Operations, CiscoWorks, BMC Patrol, Nagios, SNMPTT, Snort IDS, Prelude IDS, etc.

-http://simple-evcorr.sourceforge.net

1.5.7. Bash Scripting

Client Name admins should develop Bash scripting skills. I spent some time with the Linux team to cover scripting and command-line navigation. Using scripts to automate management tasks provides useful benefits:

Benefits of Bash scripting

- Understand how system scripts operate
- · Resolve run-time issues with servers
- · Ability to test scripts before running in production
- Avoids risk of entering commands by hand on production servers
- · Reproduce tasks efficiently
- · Over time, build a library of common scripts

Free, self-study resources

The following two resources are freely available online and provide a great reference for individuals who prefer to self-study.

Introductory tutorial on Bash scripting

http://tldp.org/HOWTO/Bash-Prog-Intro-HOWTO.html

Advanced Bash scripting guide (PDF)

http://freshmeat.net/projects/advancedbashscriptingguide

Instructor-led training

For instructor-led training with labs, Red Hat offers a course that includes Bash scripting and Linux command-line skills. RH033 Red Hat Linux Essentials for Windows Professionals and other Operating System Users is available in a traditional corporate classroom environment or as a virtual Internet-based class.

Draft Reviewers

Red Hat classroom course RH033

https://www.redhat.com/courses/rh033_red_hat_linux_essentials

Red Hat virtual course RH033VT

https://www.redhat.com/elearning/rh033vt_red_hat_linux_essentials/

1.6. Reviewers

Name	Title	Email
Jane Austen	Technical Writer	jane.austen@example.com ¹
Compliance Person	Senior Auditor	compliance.person@example.com
Another Name	Project Manager	another.name@redhat.com ³
Yet Another	Technical Account Manager	yet.another@redhat.com4

1.7. Approvers

Name	Title	Email
John Doe	Director of Systems	john.doe@example.com ⁵
	Engineering	Villa III



Chapter 2. Draft

Runbook Procedures

2.1. Installation

This installation is based on the instructions at http://www.eurekastreams.org/build-and-run/.

2.1.1. Install prerequisite packages

These steps install numerous dependencies.



Note

These steps use **sudo** to run commands as **root**. You could also run **sudo -i** to become **root**.

1. Install maven2

sudo yum --y install maven2 maven2-manual

2. Install memcached

sudo yum --y install memcached
sudo -/sbin/service memcached start
sudo -/sbin/chkconfig memcached on

3. Install Git

sudo yum --y install git-all

4. Install Postgres client and server

sudo yum --y install postgresql postgresql-server

5. Install Java from http://www.java.com/en



Chapter 3. Draft

Technical Discussion

This section provides technical details about the packaging and deployment of HP PSP components for ISE.

3.1. PSP Software

To download the PSP software:

- 1. Visit http://www.hp.com/servers/psp
 - a. Follow the link for **Downloads**
 - b. Choose RHEL 5 Server x86 64
- 2. The HP site delivers three parts
 - a. Download Part 1 (XML file) as psp.xml
 - b. Download Part 2 (tarball) with name intact
 - c. Download Part 3 (MD5 checksum) and save as md5sum.txt in the same directory as tarball
- 3. Verify integrity of the download

```
md5sum --c md5sum.txt
```

Expected output:

```
psp-8.31.rhel5.x86_64.en.tar.gz: OK
```



Important

This is not a true integrity check since it lacks a digital signature, but it is the best we can do at the moment.

- 4. Extract the tarball to inspect its contents
 - a. Extract the distribution tarball

```
[pmorgan@x200 hp-psp]$ tar xvzf psp-8.31.rhel5.x86_64.en.tar.gz compaq/csp/compaq/csp/compaq/csp/linux/cpqacuxe-8.30-5.0.noarch.rpm.tar.gz compaq/csp/linux/cpq_cciss-3.6.20-30.rhel5.x86_64.rpm.tar.gz compaq/csp/linux/e1000-8.0.16-1.src.rpm.tar.gz compaq/csp/linux/e1000e-1.0.15-1.src.rpm.tar.gz compaq/csp/linux/fibreutils-2.5-4.x86_64.rpm.tar.gz compaq/csp/linux/hpacucli-8.30-5.0.noarch.rpm.tar.gz compaq/csp/linux/hpacucli-8.30-5.0.noarch.rpm.tar.gz compaq/csp/linux/hpdiags-8.3.0-14.linux.x86_64.rpm.tar.gz compaq/csp/linux/hp-fc-enablement-1.1-9.noarch.rpm.tar.gz compaq/csp/linux/hp-health-8.3.1.2-2.rhel5.x86_64.rpm.tar.gz compaq/csp/linux/hp-health-8.3.1.2-2.rhel5.x86_64.rpm.tar.gz
```

```
compaq/csp/linux/hp-ilo-8.3.0-118.rhel5.x86_64.rpm.tar.gz
compaq/csp/linux/hp-lpfc-8.2.0.22-8.noarch.rpm.tar.gz
compaq/csp/linux/hpmouse-1.1.2-33.noarch.rpm.tar.gz
compaq/csp/linux/hponcfg-2.2.0-5.noarch.rpm.tar.gz
compaq/csp/linux/hp-OpenIPMI-8.3.1-15.rhel5.x86_64.rpm.tar.gz
compaq/csp/linux/hp_qla2x00src-8.02.23-1.noarch.rpm.tar.gz
compaq/csp/linux/hp_qla2x00src-mezz-8.02.23-1.noarch.rpm.tar.gz
compaq/csp/linux/hpsmh-3.0.2-77.x86_64.rpm.tar.gz
compaq/csp/linux/hp-smh-templates-8.3.0.9-13.noarch.rpm.tar.gz
compaq/csp/linux/hp-snmp-agents-8.3.0.27-24.rhel5.x86_64.rpm.tar.gz
compaq/csp/linux/hpvca-2.2.1-3.linux.rpm.tar.gz
compaq/csp/linux/mptlinux-4.00.13.07-1.rhel5.x86_64.rpm.tar.gz
compaq/csp/linux/netxtreme2-5.0.17-1.src.rpm.tar.gz
compaq/csp/linux/nx_nic-4.0.406-5.src.rpm.tar.gz
compaq/csp/linux/qla4xxx-5.01.01.04-1.src.rpm.tar.gz
compaq/csp/linux/tg3-3.99h-1.src.rpm.tar.gz
compaq/csp/linux/hppldu-1.0.26-1.tar.gz
compaq/csp/linux/hppldu-librpms-1.0.26-1.tar.gz
compaq/csp/linux/install830.sh
compaq/csp/linux/bp000666.xml
compaq/csp/linux/hppldu_v831.rhel5.txt
```

b. Extract additional tarballs

```
find compaq/ --regex -'.*tar.gz' --exec tar xvf {} \;
```

c. Some of the packages appear from the name to conflict, so check the packager for each:

```
{
for rpm in $(ls *rpm); do
    echo -" ======= $rpm ======="
    rpm --qip $rpm
done
} 2> -/dev/null -| tee -/tmp/pkg-descriptions -| less
```



Note

See the relevant appendix for the complete **pkg-descriptions** file.



Warning

Some of the components are specific, *out-of-date* versions of vendor packages; others, *uncertified* replacements for certified drivers.

Based on the above, the most interesting components on initial review seem to be:

• cpqacuxe: HP Array Configuration Utility

```
Name
            -: cpqacuxe
                                            Relocations: (not relocatable)
Version
            -: 8.30
                                                 Vendor: Hewlett-Packard Company
           -: 5.0
                                             Build Date: Wed 08 Jul 2009 10:14:24 PM EDT
Release
Install Date: (not installed)
                                            Build Host: Prowl.americas.hpqcorp.net
Group
           -: Applications/System
                                             Source RPM: cpqacuxe-8.30-5.0.src.rpm
Size
           -: 12284428
                                                License: See cpqacuxe.license
```

Draft PSP Software

Signature -: (none)

Packager -: Hewlett-Packard Company
URL -: http://www.hp.com/linux
Summary -: HP Array Configuration Utility

Description -:

The HP Array Configuration Utility is the web-based disk array

configuration program for Array Controllers.

• hpacucli: HP Command Line Array Configuration Utility

Name -: hpacucli Relocations: (not relocatable)

Version -: 8.30 Vendor: Hewlett-Packard Company
Release -: 5.0 Build Date: Wed 08 Jul 2009 06:14:52 PM EDT

Install Date: (not installed)

Group

-: Applications/System

Build Host: Prowl.americas.hpqcorp.net
Source RPM: hpacucli-8.30-5.0.src.rpm

Size -: 15748051 License: See hpacucli.license

Signature -: (none)

Packager -: Hewlett-Packard Company URL -: http://www.hp.com/linux

Summary -: HP Command Line Array Configuration Utility

Description -:

The HP Command Line Array Configuration Utility is the disk

array configuration program for Array Controllers.

· hpdiags: hp Insight Diagnostics

Name -: hpdiags Relocations: (not relocatable)

Version -: 8.3.0 Vendor: (none)

Release -: 14 Build Date: Mon 10 Aug 2009 04:53:48 PM EDT

Install Date: (not installed) Build Host: linux-X64

Group -: Applications/System Source RPM: hpdiags-8.3.0-14.src.rpm

Size -: 64303983 License: commercial

Signature -: (none)

URL -: http://www.hp.com/linux Summary -: hp Insight Diagnostics

Description -:

Identifies and exercises system components.

• hp-health: HP System Health Application and Command Line Utilities

Name -: hp-health Relocations: (not relocatable)

Version -: 8.3.1.2 Vendor: Hewlett-Packard Company

Release -: 2 Build Date: Thu 17 Sep 2009 03:21:17 PM EDT

Install Date: (not installed)

Group

-: System Environment

Size

-: 1506986

Build Host: bld72.sdg.adapps.hp.com

Source RPM: hp-health-8.3.1.2-2.src.rpm

License: 2008 Hewlett-Packard Development

Company, L.P.

Signature -: (none)

Packager -: Hewlett-Packard Company

URL -: http://www.hp.com/go/proliantlinux

Summary -: HP System Health Application and Command Line Utilities

Description -:

This package contains the System Health Monitor for all hp Proliant systems with ASM, ILO, & ILO2 embedded management asics. Also contained are the

command line utilities.

hp-ilo: HP iLO Channel Interface Driver

Name -: hp-ilo Relocations: (not relocatable)

Version -: 8.3.0 Vendor: Hewlett-Packard Company

Build Date: Fri 26 Jun 2009 01:10:10 PM EDT Release -: 118.rhel5

Install Date: (not installed) Build Host: rhel5ebuild

Source RPM: hp-ilo-8.3.0-118.rhel5.src.rpm Group -: System Environment/Kernel

License: GNU Public License Size -: 1910611

Signature -: (none)

Packager -: Hewlett-Packard Company

URL -: http://www.hp.com/go/proliantlinux -: HP iLO Channel Interface Driver Summary

Description -:

This is the Hewlett-Packard integrated Lights-Out (iLO) system management controller channel interface device driver. This driver establishes a channel from the iLO 2 controller to an application such that the application can

communicate directly to the iLO 2 controller.

hponcfg: RILOE II/iLo online configuration utility

Name -: hponcfg Relocations: (not relocatable)

Vendor: Hewlett-Packard Company Version -: 2.2.0 Release -: 5 Build Date: Tue 02 Jun 2009 11:35:56 PM EDT

Install Date: (not installed) Build Host: nt179237.ind.hp.com Group -: Utilities/System Source RPM: hponcfg-2.2.0-5.src.rpm

-: 200492 License: Proprietary Size

Signature -: (none)

-: Hewlett-Packard Company Packager -: http://www.hp.com/go/ilo URI

Summarv -: hponcfg -- An RILOE II/iLo online configuration utility

Description -:

Hponcfg is a command line utility that can be used to configure iLO/RILOE II from with in the operating system without requiring a reboot of the server.

hpsmh: HP System Management Homepage

Name -: hpsmh Relocations: (not relocatable)

Version -: 3.0.2 Vendor: Hewlett-Packard Company

-: 77 Build Date: Sat 20 Jun 2009 12:45:38 PM EDT Release

Install Date: (not installed) Build Host: linux

-: Applications/System Source RPM: hpsmh-3.0.2-77.src.rpm

-: 43065778 License: COPYRIGHT 2004-2009 Hewlett-Size

Packard Development Company, L.P. All rights reserved.

Signature -: (none)

Packager -: Hewlett-Packard Company URL -: http://www.hp.com/linux Summary -: HP System Management Homepage Description -:

The HP System Management Homepage v3.0.2.77

hp-snmp-agents: Insight Management Agents(SNMP) for HP ProLiant Systems

Name -: hp-snmp-agents Relocations: (not relocatable) Version

-: 8.3.0.27 Vendor: Hewlett-Packard Company

Release -: 24 Build Date: Tue 28 Jul 2009 12:52:56 PM EDT

Install Date: (not installed) Build Host: bld73.sdg.adapps.hp.com

Group -: System Environment Source RPM: hp-snmp-agents-8.3.0.27-24.src.rpm Size -: 5428602 License: 2008 Hewlett-Packard Development

Company, L.P.

Signature -: (none)

-: Hewlett-Packard Company Packager

-: http://www.hp.com/go/proliantlinux URL

Summary -: Insight Management Agents(SNMP) for HP ProLiant Systems

```
Description -:
This package contains the SNMP server, storage, and nic agents for all
hp Proliant systems with ASM, ILO, & ILO2 embedded management asics.
```



Note

The above components are binary-only and do not require building.

These additional components appear interesting, but possibly invasive:

• fibreutils: Complimentary programs and scripts for HP supported FC HBAs

Name -: fibreutils Relocations: (not relocatable) -: 2.5 Vendor: Hewlett-Packard Company Version Release -: 4 Build Date: Tue 25 Nov 2008 11:42:36 AM EST Install Date: (not installed) Build Host: deimos.mro.cpqcorp.net Group -: Applications/System Source RPM: fibreutils-2.5-4.src.rpm License: Proprietary Size -: 161229 Signature -: (none) Packager -: Hewlett-Packard Company -: http://www.hp.com -: Provides complimentary programs and scripts for HP supported FC HBAs Summary Description -: This RPM has the following components: * Miscellaneous scripts and programs to compliment HP supported FC drivers: lssd lssg adapter_info probe-luns hp_rescan hp_system_info scsi_info sysfs_scandisk sysfs_scan_rport



Note

This component may provide redundant functionality with standard tools provided by **sg3_utils**, **lspci**, **dmidecode**, and other packages.

3.2. Test installation of PSP components

This section describes how to test the installation of interesting PSP components in an isolated environment with no impact on other environments.

3.2.1. Goals of test installation

The goals of a test installation procedure:

- · Build in an isolated environment
- · Determine whether components are buildable

- · Determine build dependencies
- · Determine run-time dependencies

3.2.2. Procedure for test installation

- 1. Copy the binary PSP packages to lunch18
- 2. Attempt to install without yum

```
[pmorgan@lunch18 ~]$ sudo rpm --Uvh *rpm
error: Failed dependencies:
    libGLU.so.1()(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libXaw.so.7()(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libXmu.so.6()(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5 is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5()(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(CXXABI_1.2) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(CXXABI_1.2)(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(GLIBCPP_3.2) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(GLIBCPP_3.2)(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(GLIBCPP_3.2)(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libstdc++.so.5(GLIBCPP_3.2.2)(64bit) is needed by hpdiags-8.3.0-14.x86_64
    libsensors.so.3()(64bit) is needed by hp-snmp-agents-8.3.0.27-24.x86_64
    net-snmp is needed by hp-snmp-agents-8.3.0.27-24.x86_64
```

3. Attempt to use yum to pick up dependencies

```
sudo yum localinstall ---nogpgcheck *rpm
```

Actual output

```
---snip--
Installing for dependencies:
compat-libstdc++-33
                                    ise-rhel-5.3-x86_64
                                                                           232 k
            i386
                   3.2.3-61
 compat-libstdc++-33
            x86_64 3.2.3-61
                                ise-rhel-5.3-x86_64
ise-rhel-5.3-x86_64
                                                                           227 k
            x86_64 1.0.2-8.1
libXaw
                                                                          328 k
           x86_64 1.0.2-5
x86_64 3.5.5-3
libXmu
                                   ise-rhel-5.3-x86_64
                                                                           63 k
libXpm
                                   ise-rhel-5.3-x86_64
                                                                           44 k
                                   ise-rhel-5.3-x86_64
                                                                          528 k
lm_sensors x86_64 2.10.7-4.el5
mesa-libGLU x86_64 6.5.1-7.7.el5
                                     ise-rhel-5.3-x86_64
                                                                           226 k
            x86_64 1:5.3.2.2-5.el5 ise-rhel-5.3-x86_64
 net-snmp
                                                                           716 k
 ---snip--
Running Transaction
 Installing -: lm_sensors
                                                                     [ 1/17]
  Installing
                -: libXmu
                                                                     [ 2/17]
 Installing
                -: net-snmp
                                                                     [ 3/17]
 Installing
                -: libXpm
                                                                     [ 4/17]
  Installing
                -: libXaw
                                                                      5/17]
                -: mesa-libGLU
  Installing
                                                                     [ 6/17]
                -: compat-libstdc++-33
 Installing
                                                                     [ 7/17]
Detected Red Hat Enterprise Linux AS/ES/WS/SERVER 5
Created hpsmh user and group...
 Installing
                -: hpsmh
                                                                     [ 8/17]
* System Management Homepage installed successfully with *
* default configuration values. To change the default
* configuration values, type the following command at
```

```
* the root prompt:
 -/opt/hp/hpsmh/sbin/smhconfig
************
This RPM is not supported on RHEL 5.3 or greater
error: %pre(fibreutils-2.5-4.x86_64) scriptlet failed, exit status 1
       install: %pre scriptlet failed (2), skipping fibreutils-2.5-4
 Installing
             -: hp-ilo
                                                            [10/17]
Please read the Licence Agreement for this software at
        -/opt/hp/hp-ilo/hp-ilo.license
By not removing this package, you are accepting the terms
of the included licenses.
The man page, hp-ilo(4), describes how to enable and use
the hp-ilo device driver.
 Installing -: hponcfg
Installing -: compat-libstdc++-33
                                                            [11/17]
                                                            [12/17]
 Installing
             -: cpgacuxe
                                                            [13/17]
 Installing -: hpacucli
Installing -: hp-health
                                                            [14/17]
                                                            [15/17]
Please read the Licence Agreement for this software at
        -/opt/hp/hp-health/hp-health.license
By not removing this package, you are accepting the terms
of the -"HP Proliant Essentials Software End User License Agreement".
______
NOTE: In order to activate the software contained in this package, you must
     type -'/etc/init.d/hp-health start' as -'root' user.
______
The hp-health RPM has installed successfully.
 Installing -: hp-snmp-agents
                                                            [16/17]
Please read the Licence Agreement for this software at
        -/opt/hp/hp-snmp-agents/hp-snmp-agents.license
By not removing this package, you are accepting the terms
of the -"HP Proliant Essentials Software End User License Agreement".
Installing -/opt/hp/hp-snmp-agents/nic/etc/HPcmanic.pp SELinux policy module
_____
NOTE: In order to activate the software contained in this package, you must
     type -'/sbin/hpsnmpconfig' as -'root' user.
     Once configuration is completed start the agents by typing
     -/etc/init.d/hp-snmp-agents start
______
 Installing -: hpdiags
                                                            [17/17]
Stopping hpsmhd: [ OK -]
Starting hpsmhd: [ OK -]
Installed: cpqacuxe.i386 0:8.30-5.0 fibreutils.x86_64 0:2.5-4 hp-health.x86_64
0:8.3.1.2-2 hp-ilo.x86_64 0:8.3.0-118.rhel5 hp-snmp-agents.x86_64 0:8.3.0.27-24
hpacucli.i386 0:8.30-5.0 hpdiags.x86_64 0:8.3.0-14 hponcfg.noarch 0:2.2.0-5 hpsmh.x86_64
Dependency Installed: compat-libstdc++-33.i386 0:3.2.3-61 compat-libstdc++-33.x86_64
0:3.2.3-61 libXaw.x86_64 0:1.0.2-8.1 libXmu.x86_64 0:1.0.2-5 libXpm.x86_64 0:3.5.5-3
lm_sensors.x86_64 0:2.10.7-4.el5 mesa-libGLU.x86_64 0:6.5.1-7.7.el5 net-snmp.x86_64
1:5.3.2.2-5.el5
Complete!
```

```
---snip--
```

4. Check disk usage in /opt

```
[pmorgan@lunch18 ~]$ sudo du --lsh -/opt
119M -/opt
```

3.2.3. Test configuration

Dave Shouse provided configuration settings for the test installation.

Equinix

SNMP trap destination is 6.3.5.202

Telx SNMP trap destination is 6.4.5.202

Community strings for both environments

SNMP read only string: 0p7im15e SNMP read/write string: 3p51lon!

3.3. RPM Details

This section describes the major ingredients needed for building the RPMs for deployment.



Draft Draft

Appendix A. Revision History

Revision 0 Fri Aug 13 2010 Initial creation of book by publican Paul Morgan pmorgan@redhat.com





Draft Draft

Appendix B. Reference Material

B.1. Eurekastreams

Eurekastreams public site

http://www.eurekastreams.org

Github

http://github.com/lmco/eurekastreams

Wikipedia

http://en.wikipedia.org/wiki/Eureka_Streams

B.2. Asciidoc



