

Introduction

Spacewalk is a systems management solution, potentially interesting for CERN Linux machines. From the Spacewalk Twiki [\[1\]](#):

Spacewalk is an open source Linux and Solaris systems management solution. It allows you to:

- * Inventory your systems (hardware and software information)
- * Install and update software on your systems
- * Collect and distribute your custom software packages into manageable groups
- * Provision (Kickstart) your systems
- * Manage and deploy configuration files to your systems
- * Monitor your systems
- * Provision virtual guests
- * Start/stop/configure virtual guests

Spacewalk is the upstream project for the source of Red Hat Network Satellite. Spacewalk works with RHEL, Fedora, and other RHEL derivative distributions like CentOS, Scientific Linux, etc.

We want to evaluate the product, and its possible integration into the CERN environment, by the end of Q2 2010.

Evaluation criteria:

We should investigate the following aspects:

General

- Quality of the product
- Documentation
- Strength of the community

Functionality

- User interface
 - ◆ Adding machines, grouping them
 - ◆ Upgrading machines
 - ◆ Installing machines
- Reporting

Manageability, operations

- Administration:
 - ◆ Adding SLC versions, channels, packages
- How to provide a reliable service?
 - ◆ Stability of software
 - ◆ Failover setup
- Scalability
 - ◆ How many clients, groups can be supported?
 - ◆ How many OS versions, channels?
- FTE cost of running a service

Integration into CERN infrastructure

- How does Spacewalk integrate with:

- ◆ LANDb
- ◆ AIMS
- ◆ Linuxsoft
- ◆ ELFms (?)
- Can Spacewalk replace any of the above?
- What would be the cost of such an integration?

Links

- <http://www.redhat.com/spacewalk/> Spacewalk homepage @ Redhat
- <https://fedorahosted.org/spacewalk/> Spacewalk Twiki @ Fedora

Installation

- Installation
 - ◆ <https://fedorahosted.org/spacewalk/wiki/HowToInstall>
 - ◆ <https://fedorahosted.org/spacewalk/wiki/OracleXeSetup>

NOTE: Do not use @ character for database user password:

create user spacewalk identified by sPac3waLk default tablespace users;

Connect to the database using sqlplus:

```
sqlplus spacewalk/sPac3waLk@//localhost/XE
```

- SLC specific:
 - ◆ Edit ~/.bash_profile:

```
PATH=$PATH:$HOME/bin:/usr/lib/oracle/xe/app/oracle/product/10.2.0/server/bin
ORACLE_HOME=/usr/lib/oracle/xe/app/oracle/product/10.2.0/server/ export PATH export
ORACLE_HOME
```

- Download from http://spacewalk.redhat.com/yum/1.4-client/RHEL/5/x86_64/ :
 - ◆ rhn-client-tools-1.4.16-1.el5.noarch.rpm
 - ◆ rhnlib-2.5.39-1.el5.noarch.rpm

```
yum -y localinstall --nogpgcheck /home/sk/spacewalk/rhnlib-2.5.39-1.el5.noarch.rpm yum -y localinstall
--exclude=rhn-remover --nogpgcheck /home/sk/spacewalk/rhn-client-tools- 1.4.16-1.el5.noarch.rpm echo
"rhn-client-tools-1.4.16-1" >> /etc/yum/pluginconf.d/versionlock.list echo "rhnlib-2.5.39-1" >>
/etc/yum/pluginconf.d/versionlock.list yum -y localinstall --nogpgcheck
oracle-instantclient-selinux-11.2.0.1-1.el5.noarch.rpm yum -y localinstall --nogpgcheck
oracle-instantclient-sqlplus-selinux-11.2.0.1-1.el5.noarch.rpm yum -y localinstall --nogpgcheck
oracle-xe-selinux-10.2.0.20-1.el5.noarch.rpm /usr/bin/gpasswd -a root dba
```

- disable /etc/yum.repos.d/slc5-cernonly.rep (disable cern repos because of rhn-remover while installing spacewalk packages)

```
yum install spacewalk-oracle
```

- Client installation - <https://fedorahosted.org/spacewalk/wiki/RegisteringClients>

Configuration

- Spacewalk configuration help:
 - ◆ http://docs.redhat.com/docs/en-US/Red_Hat_Network_Satellite/5.4/htmlsingle/Deployment_Guide/index.html
 - ◆ http://docs.redhat.com/docs/en-US/Red_Hat_Network_Satellite/5.4/html/Client_Configuration_Guide/index.html
 - ◆ http://docs.redhat.com/docs/en-US/Red_Hat_Network_Satellite/5.4/html/Channel_Management_Guide/index.html

Development Documentation

- Overall - <https://fedorahosted.org/spacewalk/wiki/DeveloperDocs#Workingwiththecode>
- Development environment setup
 - ◆ <https://fedorahosted.org/spacewalk/wiki/GitGuide>
 - ◆ <https://fedorahosted.org/spacewalk/wiki/EclipseSetup>
 - ◆ http://docs.redhat.com/docs/en-US/Red_Hat_Network_Satellite/5.4/html/API_Overview/index.html
- Security
 - ◆ UI development - <https://fedorahosted.org/spacewalk/wiki/JavaDesign>
 - ◆ User permissions implementation discussion - <https://fedorahosted.org/spacewalk/wiki/UserPermissions>
 - ◆ ACLs - <https://fedorahosted.org/spacewalk/wiki/AclDesign>
 - ◆ LDAP configuration - <https://fedorahosted.org/spacewalk/wiki/SpacewalkWithLDAP>
- Feature requests/discussions - <https://fedorahosted.org/spacewalk/wiki/BrainBox>
- Roadmap - <https://fedorahosted.org/spacewalk/roadmap>

This topic: LinuxSupport > SpacewalkEvaluation

Topic revision: r3 - 2011-08-02 - SvetoslavZhelev



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