

Taste of Training Webinar Series

Troubleshooting RPM Package Issues

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Resolving RPM dependency issues



Sources of useful information

RPM package metadata Yum repository metadata Log file - /var/log/yum.log



Displaying package dependencies

yum deplist PACKAGE

```
# rpm -q --requires PACKAGE
# rpm -q --provides PACKAGE
```



Resolving package dependencies

yum downgrade PACKAGE

rpm -Uvh --oldpackage PACKAGE
rpm -Uvh --force PACKAGE



Using Yum to lock package versions

Install the yum-plugin-versionlock package

```
# yum versionlock list
# yum versionlock add WILDCARD
# yum versionlock delete WILDCARD
# yum versionlock clear
```



Insert Screenshare Here



Recovering a corrupt RPM database



Steps for fixing a corrupt RPM database

- 1. Remove stale lock files.
- 2. Backup the RPM database.
- 3. Verify the RPM database integrity.
- 4. If necessary, create a dump of the corrupt database file and use it to create an intact version.
- 5. Rebuild the RPM database indexes.



Insert Screenshare Here



Identifying and recovering changed files



Verifying installed packages

rpm -V *PACKAGE* # rpm -Va

Install the yum-plugin-verify package

yum verify *PACKAGE*# yum verify-rpm *PACKAGE*



Recovering changed files

```
# rpm --setperms PACKAGE
# rpm --setugids PACKAGE
```

yum reinstall PACKAGE



Insert Screenshare Here



Troubleshooting Red Hat Subscription Management issues



Accessing software updates from Red Hat

The entitlement process is a three-step process:

- 1. Products are added to a system.
- 2. Register the system with Red Hat directly or a Red Hat Satellite server.
- 3. Attach subscriptions to the system.



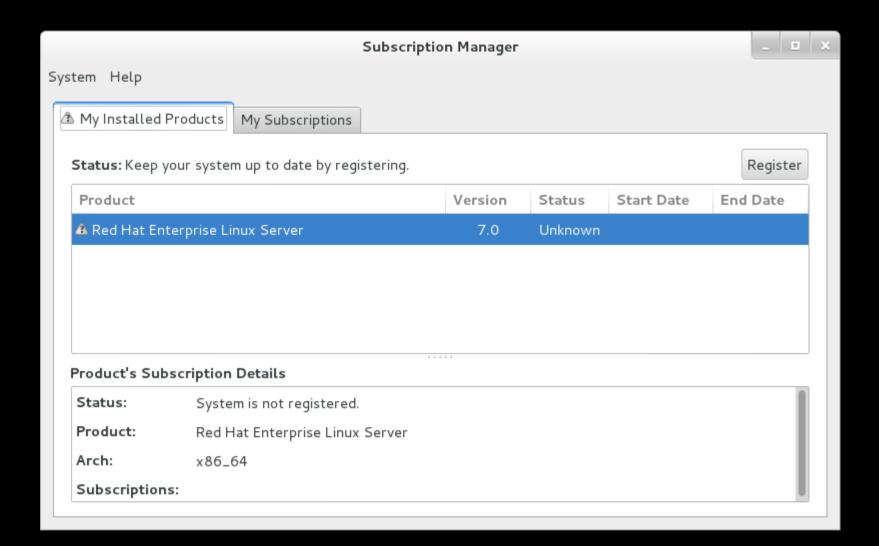
Connecting to Red Hat Subscription Manager

Red Hat Enterprise Linux tools used to access RHSM:

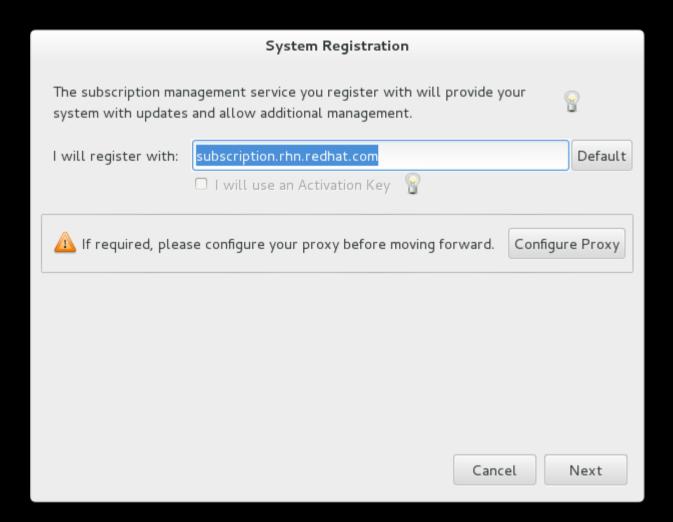
subscription-manager-gui subscription-manager

Client systems must be able to access RHSM server and content delivery server via port 443.





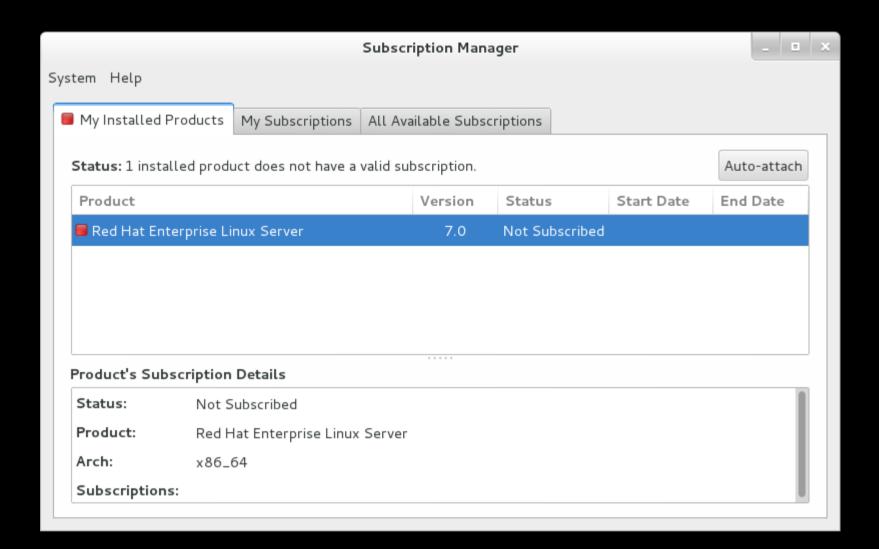




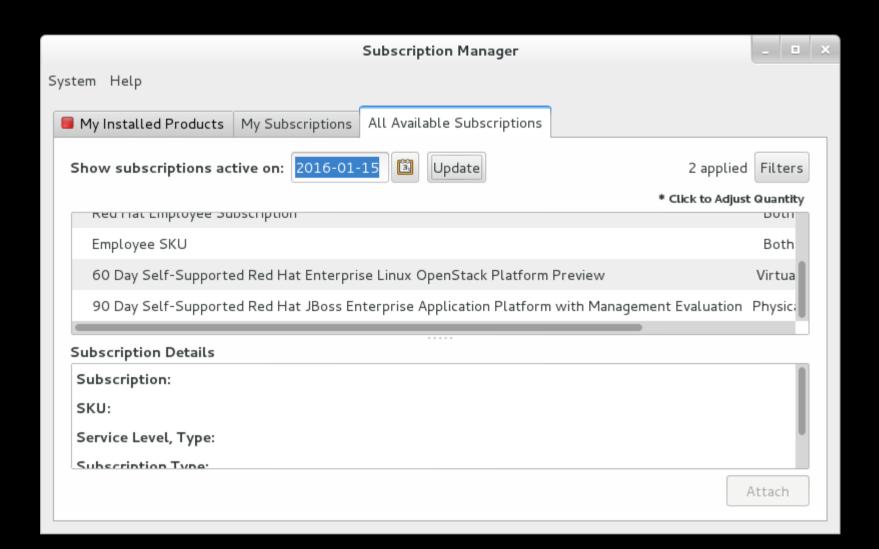




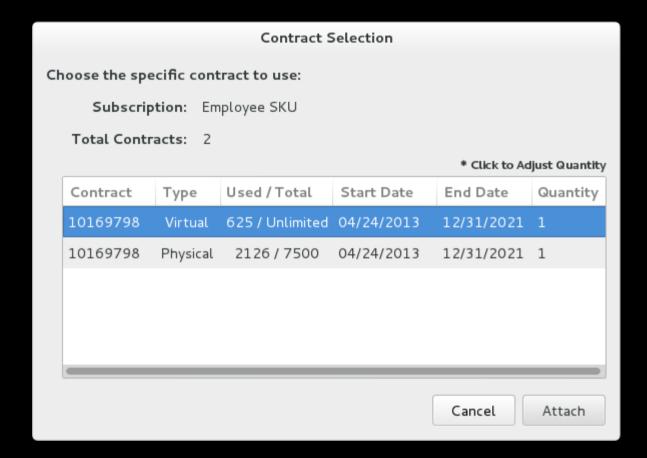




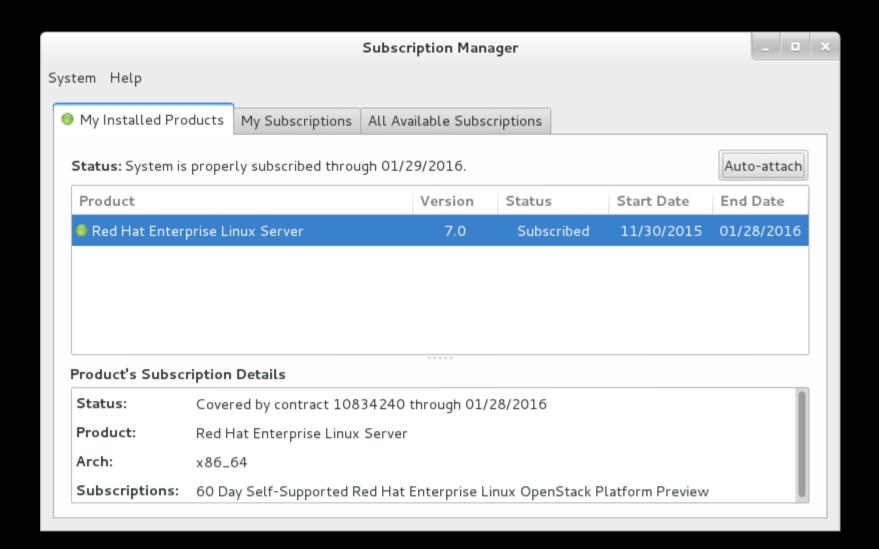














Troubleshooting RHSM problems

Examining log files
Troubleshooting configuration files
Inspecting certificates
Diagnosing network connectivity



Insert Screenshare Here



More troubleshooting topics?

Upcoming Red Hat course:

Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH342) 4-day course with hands-on exercises



Questions?



