



U Y U N I

Uyuni 2025.05

Reference Guide

May 21 2025



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# Chapter 1. Preface

Reference

Uyuni 2025.05

This document is divided into several sections:

- **Web UI Reference:** Organized to mirror the structure of the Uyuni Web UI, this section allows you to quickly find relevant information while navigating the interface.
- **spacecmd Reference:** A comprehensive guide to the **spacecmd** command-line interface. It includes an **alphabetized list** of all available commands along with their correct usage.
- **Command Line Tools:** An overview of the various **command-line utilities** available in Uyuni, helping you streamline administrative tasks.

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## Chapter 2. WebUI Reference

### 2.1. Home Menu

The **Home** section is a dashboard that contains a summary of your current Uyuni status, including tasks, client information, and critical security updates.

#### 2.1.1. Home Overview

The **Home > Overview** section is a dashboard that contains a summary of your current Uyuni status, including tasks, client information, and critical security updates.

#### 2.1.2. Notification Messages




The **Home > Notification Messages** section shows all current messages produced by Uyuni. By default, messages will remain current for thirty days. After this period, messages are deleted whether or not they are marked as read.

To see unread messages, navigate to the **Unread Messages** tab. To see all messages, navigate to the **All Messages** tab.

Click **Refresh** to update the list.

Perform bulk actions by checking messages in the list. Click **Delete selected messages** to bulk delete messages. Click **Mark selected as read** to bulk read messages.

Table 1. Notification Message Severity Statuses

Icon	Description	Example
	Information	Client onboarding has failed.
	Warning	Channel synchronization has completed.
	Error	Channel synchronization has failed.

#### 2.1.3. User Account Menu

The **Home > User Account** section allows you to change user account preferences.

##### 2.1.3.1. My Account

The **Home > User Account > My Account** section allows you to change user account preferences.

Modify your personal information, such as name, password, and title from the **Home > User Account >**



**My Account** page. To modify this information, make the changes in the appropriate text fields and click the **Update** button at the bottom.

If you forget your password or username, navigate to Web UI sign in page, click **About**, and click **Lookup Login/Password**. Enter the username or email address, and click **Send Password** or **Send Login** to have the missing information sent to you.

### 2.1.3.2. Addresses

The **Home > User Account > Addresses** section allows you set your mailing, billing, and shipping addresses, and associated phone numbers.

Click **Fill in this address** or **Edit this address** below the address to be modified or added, make your changes, and click **Update**.

### 2.1.3.3. Change Email

The **Home > User Account > Change Email** section allows you to set the email Uyuni sends notifications to.

Enter your new email address and click the **Update** button. Invalid email addresses, including those ending in **@localhost** are filtered and rejected.

If you would like to receive email notifications about patch alerts or daily summaries for your systems, ensure you have checked the **Receive email notifications** option in **Home > My Preferences** section.

### 2.1.3.4. Account Deactivation

The **Home > User Account > Account Deactivation** section allows you to cancel your Uyuni user account.

When you click **Deactivate Account** your user account will be deleted, you will be signed out, and you will not be able to sign back in.

If you do this by accident, you will need to contact your Uyuni Administrator to reactivate your user account.



- If you are the only Uyuni Administrator for your organization, you can not deactivate your account.

## 2.1.4. My Preferences

The **Home > My Preferences** section allows you to configure Uyuni Web UI options.

*Table 2. Home Preferences*

Option	Description	Default
Email Notification	Receive email for client and Taskomatic notifications, including a daily summary email.	Checked
Uyuni List Page Size	Maximum number of items that can appear in a list on a single page.	25 entries
"Overview" Start Page	Select the information panes to display on the <b>Home &gt; Overview</b> page.	All checked
Time Zone	Set your local timezone.	System timezone
Interface Language	Set the language to use in the Web UI.	Default language
Style Theme	Set the style theme to use in the Web UI.	susemanager-light
CSV Files	Select whether to use comma or semi-colon delimiters when producing downloadable CSV files.	Comma

For information about changing the default preferences, see **Administration > Users**.

### 2.1.5. My Organization

The **Home > My Organization** section allows you to configure your current organization.

For more information about organizations, see **Administration > Organizations**.

#### 2.1.5.1. Organization Configuration

The **Home > My Organization > Configuration** section allows you to configure your current organization.

*Table 3. Organization Configuration Options*

Option	Description	Default
Enable staging contents	For clients in this organization, allow content staging by default.	Unchecked

Option	Description	Default
Enable Errata E-mail Notifications	For users in this organization, send email notifications when errata (patches) are available.	Checked
Enable Upload of Detailed SCAP Files	Allow detailed SCAP content files to be uploaded for auditing.	Unchecked
Allow Deletion of SCAP Results	Allow SCAP results to be deleted after the audit is complete.	Checked
Allow Deletion After	The number of days after an SCAP audit is complete, that results can be deleted.	90 days
Synchronize patches on Content Lifecycle Management build	Controls whether the patch attributes and affected packages should be synchronized to cloned patches when building a content Project	Checked

- For more information about content staging, see **Administration > Content-staging**.
- For more information about OpenSCAP, see **Administration > Openscap**.
- For more information about organizations, see **Administration > Organizations**.
- For more information about Content Lifecycle Management, see **Administration > Content-lifecycle**.

#### 2.1.5.2. Organization Trusts

The **Home > My Organization > Organization Trusts** section shows the trusts that you have established within your organization. This section also shows the channels that are available to other users through trusts.

For more information about organization trusts, see **Administration > Organizations**.

#### 2.1.5.3. Organization Configuration Channels

The **Home > My Organization > Configuration Channels** section shows the configuration channels available within your organization. Configuration channels can be created in the Uyuni Web UI by navigating to **Configuration > Channels**. Apply configuration channels to your organization using the Uyuni Web UI.

For more information about organizations, see **Administration > Organizations**.

## 2.2. Systems Menu

The **Systems** section allows you to manage your client systems.

The **Systems** menu contains submenu entries in the left navigation bar and as its overview page displays the **Systems > System List > All** listing with all client systems registered to the Uyuni Server.

This listing contains information about the clients, including available software updates, extra packages (otherwise often referenced as non-compliant packages), and the base channel they are subscribed to.

All the submenu entries:

- **System List** - **Reference > Systems**
- **System Groups** - **Reference > Systems**
- **System Set Manager** - **Reference > Systems**
- **Bootstrapping** - **Reference > Systems**
- **Proxy Configuration** - **Reference > Systems**
- **Advanced Search** - **Reference > Systems**
- **Activation Keys** - **Reference > Systems**
- **Stored Profiles** - **Reference > Systems**
- **Custom System Info** - **Reference > Systems**
- **Autoinstallation** - **Reference > Systems**
- **Virtual Host Managers** - **Reference > Systems**

Click the name of a client to go to that client system's **Details** overview page and all its tabs and subtabs. For more information about the **System Details** overview page in the Web UI, see **Reference > Systems**.

Check a client to add it to the system set manager. For more information about the system set manager, see **Client-configuration > System-set-manager**.

Click **Add Systems** to go to **Systems > Bootstrapping**. For more about bootstrapping new clients, see **Reference > Systems**.

For more information about managing clients, see **Client-configuration > Uyuni-client-config-overview**.

### 2.2.1. Systems List

The **Systems > System List** section lists all clients available in your Uyuni environment.

For more information about managing clients, see **Client-configuration > Uyuni-client-config-overview**.

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The **Systems > System List** section is split into submenus:

#### 2.2.1.1. All

The **Systems > System List > All** section lists every client that you have permission to manage.

#### 2.2.1.2. Physical Systems

The **Systems > System List > Physical Systems** section lists every client that is installed on physical hardware.

#### 2.2.1.3. Virtual Systems

The **Systems > System List > Virtual Systems** section lists every client that is installed on virtual hardware. The list includes all your virtual hosts, and the virtual guests that are attached to them.

For virtual guests that are registered to the Uyuni Server, click the name of the guest to manage it. Virtual guests that are not registered are shown, but cannot be managed in the Web UI.

For more information about virtual clients, see **Client-configuration > Virtualization**.

#### 2.2.1.4. Unprovisioned Systems

The **Systems > System List > Unprovisioned Systems** section lists every bare metal client that the Uyuni Server is aware of, but has not yet been registered.

For more information about bare metal clients, see **Client-configuration > Autoinst-intro**.

#### 2.2.1.5. Out of Date

The **Systems > System List > Out of Date** section lists every client that has available updates.

For more information about managing client updates, see **Client-configuration > Package-management**.

#### 2.2.1.6. Requiring Reboot

The **Systems > System List > Requiring Reboot** section lists every client that requires rebooting.

#### 2.2.1.7. Non Compliant

The **Systems > System List > Non Compliant** section lists every client that has non-compliant packages installed. Packages are considered non-compliant if they have been installed from a source other than Uyuni. In the list, the **Extra Packages** column shows the number of non-compliant packages on the client. If there is at least one non-compliant package, you can click the number to display listings of those non-compliant packages per system.

#### 2.2.1.8. Without System Type

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The **Systems > System List > Without System Type** section lists every client that does not have a base system type recorded.

For more information about system types, see **Client-configuration > System-types**.

#### 2.2.1.9. Ungrouped

The **Systems > System List > Ungroups** section lists every client that is not assigned to a system group.

For more information about system groups, see **Client-configuration > System-groups**.

#### 2.2.1.10. Inactive

The **Systems > System List > Inactive** section lists every client that has not checked in with the the Uyuni Server in 24 hours or more.

For more information about client connections to the server, see **Client-configuration > Contact-methods-intro**.

For more information on troubleshooting inactive clients, see **Administration > Troubleshooting**.

#### 2.2.1.11. Recently Registered

The **Systems > System List > Recently Registered** section lists every client that has registered within a given period. Select the period to view from the **View systems registered** field.

#### 2.2.1.12. Proxy

The **Systems > System List > Proxy** section lists every client that is registered as a proxy.

#### 2.2.1.13. Duplicate Systems

The **Systems > System List > Duplicate Systems** section lists clients that share IP addresses, host names, or MAC addresses. Use the tabs to compare clients.

#### 2.2.1.14. System Currency

The **Systems > System List > System Currency** section lists all clients with information about available updates, and provides a currency score for each. You can use the currency score to determine in which order clients should be updated. A score with a larger number indicates that a client is not current, and might require critical updates.

#### 2.2.1.15. System Types

The **Systems > System List > System Types** section lists every client, their base system type, add-on system type, and base channel. It also gives a count of clients of each system type.

For more information about system types, see **Client-configuration > System-types**.




### 2.2.2. System Groups

The **Systems > System Groups** section displays the list of system groups in your organization.

Click the name of a group to work with it, or to add or delete clients in the group.

The list shows an icon if there are updates available for any of the clients in the group. Click the icon to see more information about the updates available.

*Table 4. Update Status Icons*

Icon	Description	Action Required
	No applicable updates	All clients in this group are up to date
	Updates available	One or more clients have updates ready to install
	Security updates needed	One or more clients have security updates that must be installed
	Status unknown	Displaying status of available updates is disabled

For more information about system groups, see **Client-configuration > System-groups**.

### 2.2.3. System Set Manager

The **Systems > System Set Manager** section allows you to manage clients that you have added to the system set manager.

For more information about the system set manager, see **Client-configuration > System-set-manager**.

#### 2.2.3.1. System Set Manager Overview

The **Systems > System Set Manager > Overview** section allows you to manage clients that you have added to the system set manager (SSM). You can also access this page by clicking the **systems selected** icon in the top menu bar.

For more information about SSM, see **Client-configuration > System-set-manager**.

The **Systems > Systems Set Manager** menu is split into tabs:

##### 2.2.3.1.1. Overview

This section provides quick access to all the of the SSM tabs.

#### 2.2.3.1.2. Systems

This section lists all clients currently in the SSM. It provides information about the updates available, when the client last checked in, the registered base channel, and system type. Click the client name to see more information.

#### 2.2.3.1.3. Patches

This section lists all patches available for upgrade on clients currently in the SSM. Click the number in the **Affected** column to see which clients a patch applies to. To perform upgrades, check the patches to apply and click **Apply Patches**.

For more information about patch management, see **Client-configuration > Patch-management**.

#### 2.2.3.1.4. Packages

This section is split into subtabs.

The **Packages > Upgrade** subtab lists all packages available for upgrade on clients currently in the SSM. To perform upgrades, check the packages to upgrade and click **Upgrade Selected Packages**.

The **Packages > Install** subtab allows you to install new packages on all clients currently in the SSM. To install packages, click the base channel that contains the package, check the packages to install, and click **Install Selected Packages**.

The **Packages > Remove** subtab allows you to remove packages from all clients currently in the SSM. If clients in the SSM have different versions of a package installed, multiple versions are available in the list. To remove packages, select the packages to remove, and click **Remove Selected Packages**.

For more information about package management, see **Client-configuration > Package-management**.

#### 2.2.3.1.5. Groups

This section lists all system groups clients currently available in your organization. Click **Create Group** to create a new system group. For each group in the list, check **Add** to add all clients in the SSM to the group, check **Remove** to remove all clients in the SSM from the group, or check **No Change** to leave group assignments as they are. Click **Alter Membership** to change group assignments.

For more information about system groups, see **Client-configuration > System-groups**.

#### 2.2.3.1.6. Channels

This section lists all base channels clients currently subscribed to by clients currently in the SSM. You can change all clients subscribed to a current base channel to a new base channel, by selecting the new base channel and following the prompts.



For more information about software channels, see **Client-configuration > Channels**.

For more information about using the SSM to change base channels, see **Client-configuration > System-set-manager**.

#### 2.2.3.1.7. Configuration

This section is split into subtabs.

The **Configuration > Deploy Files** subtab lists all configuration files available for deployment. Click the number in the **Systems** column to see which clients are currently subscribed to the configuration file. To assign a configuration file to the clients currently in the SSM, check the configuration file, and click **Schedule File Deploy**.

The **Configuration > Compare Files** subtab lists all configuration files available for comparison. This compares the configuration file deployed on a client with the configuration file stored on the Uyuni Server. Click the number in the **Systems** column to see which clients are currently subscribed to the configuration file. To compare configuration files, check the configuration files to compare, and click **Schedule File Comparison**.

The **Configuration > Subscribe to Channels** subtab lists all configuration channels available for subscription. To subscribe the clients in the SSM to a new configuration channel, check the configuration channel, click **Continue**, and follow the prompts.

The **Configuration > Unsubscribe from Channels** subtab lists all configuration channels clients in the SSM are currently subscribed to. To unsubscribe the clients in the SSM from a configuration channel, check the configuration channel and click **Unsubscribe Systems**.

The **Configuration > Enable Configuration** subtab lists clients in the SSM that are capable of using configuration management, but have not yet been enabled. To enable clients in the SSM to use configuration management, check the client and click **Enable Configuration Management**.

For more information about configuration management, see **Client-configuration > Configuration-management**.

#### 2.2.3.1.8. Provisioning

This section is split into subtabs.

The **Provisioning > Autoinstallation** subtab lists all clients in the SSM available for autoinstallation, with their base channel. To schedule autoinstallation, select an autoinstallable type, click **Continue** and follow the prompts.

The **Provisioning > Power Management Configuration** subtab allows you to configure power management for the clients in the SSM. For more information about power management, see **Client-configuration > Power-management**.

The **Provisioning > Power Operations** subtab allows you to power on, power off, or reboot the clients in the SSM. For more information about power management, see **Client-configuration > Power-management**.

For more information about autoinstallation, see **Client-configuration > Autoinst-intro**.

#### 2.2.3.1.9. States

For Salt clients, the **States > Highstate** subtab allows you to apply the highstate to all clients in the SSM.

#### 2.2.3.1.10. Audit

For more information about auditing, see **Administration > Auditing**.

#### 2.2.3.1.11. Misc

This section is split into subtabs.

The **Misc > Preferences** subtab allows you to configure the custom information, system types, and system preferences for the clients in the SSM.

The **Misc > Hardware** subtab allows you to schedule a hardware profile refresh for the clients in the SSM.

The **Misc > Software** subtab allows you to schedule a package profile refresh for the clients in the SSM.

The **Misc > Remote Command** subtab allows you to schedule a remote command to be executed on the clients in the SSM.

The **Misc > Custom Values** subtab allows you to set or remove custom key values for the clients in the SSM.

The **Misc > Reboot** subtab allows you to schedule a reboot for the clients in the SSM.

The **Misc > Transfer** subtab allows you to move clients in the SSM to a new organization.

The **Misc > Delete** subtab allows you to delete the system profiles of clients in the SSM.

#### 2.2.3.2. System Set Manager Task Log

The **Systems > System Set Manager > Task Log** section shows all actions applied to clients that you have added to the system set manager (SSM). The SSM Task Log lists all actions performed against clients currently in SSM. Click an entry to see more information about the action.

This section is divided into tabs:

The **All** tab lists all actions that have been performed. The **In Progress** tab lists all actions that are

currently in progress. The **Completed** tab lists all actions that have been completed.

For more information about SSM, see **Client-configuration > System-set-manager**.

### 2.2.4. Bootstrapping

The **Systems > Bootstrapping** section allows you to register a single Salt client.

*Table 5. Bootstrap Options*

Option	Description	Default
Host	The hostname of the client to be registered	-
SSH port	The port on the client that allows SSH access	22
User	The user name to use to log in to the client	root
Authentication Method	Choose <b>Password</b> for simple authentication, or <b>SSH Private Key</b> to use SSH authentication.	Password
Password	The password to use to log in to the client	-
SSH Private Key	Upload the SSH Private Key to use to log in to the client	-
SSH Private Key Passphrase	The passphrase for the SSH Private Key, or leave blank for no password.	-
Activation Key	The activation key to use to register the client. Leave blank to use the universal default activation key, or select <b>None</b> for no activation key.	None
Proxy	The proxy to which the client should be registered. Leave blank if you are not using a proxy.	None
Disable SSH strict host key checking	Automatically adds the host key to the known hosts file	Checked
Manage system completely via SSH	Uses only the SSH contact method	Unchecked



- SSH private keys are stored only for the duration of the bootstrapping process.
- They are deleted from the Uyuni Server as soon as bootstrapping is complete.

When you have completed the details of the client you want to register, click **Bootstrap**. When the client has completed registering, navigate to **Systems > System List** to see details.

For more information about bootstrapping, see **Client-configuration > Registration-webui**.

### 2.2.5. Proxy Configuration

The **Systems > Proxy Configuration** section allows you to configure proxy clients.

### 2.2.6. Advanced Search

The **Systems > Advanced Search** section allows you to perform global searches within your Uyuni environment. Searches can include network information, hardware devices, location, activity, packages, details, DMI information, and hardware.

Type your search term in the **Search For** field. Select the criterion to search by, use the radio buttons to specify whether you want to query all systems or only those in the **System Set Manager**, and click the **Search** button. Check **Invert Result** to list only results that do not match the specified criteria.

When you add a distribution, synchronize channels, or register a client, it can take several minutes for it to be indexed and appear in search results. To force a rebuild of the search index, use this command at the command prompt:

```
rhnssearch cleanindex
```

### 2.2.7. Activation Keys

The **Systems > Activation Keys** section lists the current activation keys for your organization.

The universal default activation key, if set, is automatically used for all clients registered to your organization, unless you specify a different activation key.

The list of activation keys shows the name and description for each key, and how many times the key has been used. It also shows if the key is currently enabled for your organization. Click the key description to see more information about the activation key.

Click **Update Activation Keys** to refresh the list with recent changes.

Click **Create Key** to create a new activation key.

For more information about activation keys, see **Client-configuration > Activation-keys**.

### 2.2.8. Stored Profiles


The **Systems > Stored Profiles** section lists the stored profiles for your organization. Profiles can be used to compare packages installed on clients.

Click the name of a profile to see more information about the packages in the profile, or to edit the name or description.

For more information about using profiles to compare packages, see **Client-configuration > Package-management**.

### 2.2.9. Custom System Information

The **Systems > Custom System Info** section lists the custom system information available to clients in your organization.

Click  to create a new custom system key. Click the key label to see more information, and to edit the value.

For more information about custom system information, see **Client-configuration > Custom-info**.

### 2.2.10. Autoinstallation Menu

The **Systems > Autoinstallation** section allows you to manage clients for autoinstallation.

For more information about autoinstallation, see **Client-configuration > Autoinst-intro**.

#### 2.2.10.1. Autoinstallation Overview

The **Systems > Autoinstallation > Overview** section displays an overview of your autoinstallation settings, including clients that are autoinstalling, or scheduled to be autoinstalled.

The **Systems > Details > Overview** subtab is split into sections:

#### Autoinstallation Summary

This section lists the AutoYaST and Kickstart profiles currently available, and the number of clients installed with each profile.

#### Autoinstallation Actions

This section provides links to actions related to autoinstallation. You can also access these using the **Systems > Autoinstallation** menu.

#### Systems Currently Autoinstalling

This section lists all clients that are currently autoinstalling, along with their status.

## Systems Scheduled to be Autoinstalled

This section lists all clients that are scheduled for autoinstallation, along with their status.

Click [Create Kickstart Profile](#) to create a new Kickstart profile. Click [Upload Kickstart/AutoYaST File](#) to upload a new autoinstallation file.

For more information about autoinstallation, see **Client-configuration > Autoinst-intro**.

### 2.2.10.2. Autoinstallation Profiles

The **Systems > Autoinstallation > Profiles** section lists all profiles currently available. The list includes information about if the profile is active, the distribution it is based on, and if it being managed with Uyuni.

Click the name of a profile to see more information.

Click [Create Kickstart Profile](#) to create a new Kickstart profile. Click [Upload Kickstart/AutoYaST File](#) to upload a new autoinstallation file.

For more information about autoinstallation profiles, see **Client-configuration > Autoinst-profiles**.

### 2.2.10.3. GPG and SSL Keys

The **Systems > Autoinstallation > GPG and SSL Keys** section lists all GPG public keys and SSL certificates currently available. Click the name of a key to see more information.

Click [Create Stored Key/Cert](#) to store a new GPG key or SSL certificate.

For more information about GPG keys and SSL certificates, see **Client-configuration > Gpg-keys**.

### 2.2.10.4. Distributions

The **Systems > Autoinstallation > Distributions** section lists the available autoinstallable distributions.

Click the distribution name to see more information. Click [Create Distribution](#) to create a new autoinstallable distribution.

For more information about autoinstallable distributions, see **Client-configuration > Autoinst-distributions**.

### 2.2.10.5. File Preservation

The **Systems > Autoinstallation > File Preservation** section allows you to store lists of files, to use them in Kickstart profiles later on.

Click [Create File Preservation List](#) to create a new list.

For more information about Kickstart file preservation, see **Client-configuration > Autoinst-profiles**.

#### 2.2.10.6. Autoinstallation Snippets

The **Systems > Autoinstallation > Autoinstallation Snippets** section allows you to store code snippets, to use them in autoinstallation profiles later on.

Click **Create Snippet** to create a new code snippet.

For more information about autoinstallation profiles using these code snippets, see **Client-configuration > Autoinst-profiles**.

#### 2.2.11. Virtual Host Managers

The **Systems > Virtual Host Managers** section lists the active virtual host managers (VHMs).

VHMs can be used to collect private or public cloud instances and organize them into virtualization groups.

For more information about VHMs, see **Client-configuration > Vhm**.

### 2.3. System Details

The **System Details** section allows you to manage the details for a chosen client. To get to this section, click the name of a client anywhere throughout the Web UI to see the relevant **System Details** page for the client.

The **System Details** section is divided into tabs and subtabs. Each tab and some subtabs have own sections in this document.

The **Systems > Details > Overview** subtab is displayed by default. Which tabs are available is dependent on the **system type** of the client you have selected. Most often, the following are available:

- **Details** - xref:reference:systems/system-details/sd-details.adoc
- **Software** - xref:reference:systems/system-details/sd-software.adoc
- **Configuration** - xref:reference:systems/system-details/sd-configuration.adoc
- **Provisioning** - xref:reference:systems/system-details/sd-provisioning.adoc
- **Groups** - xref:reference:systems/system-details/sd-groups.adoc
- **Audit** - xref:reference:systems/system-details/sd-audit.adoc
- **States** - xref:reference:systems/system-details/sd-states.adoc
- **Formulas** - xref:reference:systems/system-details/sd-formulas.adoc

- **Recurring Actions** - [xref:reference:systems/system-details/sd-recurring-actions.adoc](reference:systems/system-details/sd-recurring-actions.adoc)
- **Events** - [xref:reference:systems/system-details/sd-events.adoc](reference:systems/system-details/sd-events.adoc)

For more information about managing clients, see **Client-configuration > Uyuni-client-config-overview**.

### 2.3.1. Overview

The **Systems > Details > Overview** section shows a summary of information about the selected client, including the current system status. This subtab is displayed by default when you click the name of a client anywhere throughout the Web UI.

Click **Delete System** to delete the system profile. Deleting a system profile will not destroy or remove the client, but you will no longer be able to manage it with Uyuni. If you delete a system profile by mistake, you can re-register the client using bootstrap.

The **Systems > Details > Overview** subtab is split into sections:

#### 2.3.1.1. System Status

The section shows the current status of the client. If no action is required for this client, the status is **System is up to date**.

If the client has new software ready for installation, the status is **Software Updates Available**, along with details of updates. Apply updates by navigating to **System Details > Packages**.

#### 2.3.1.2. System Info

This section shows general information about the client.

*Table 6. System Info Columns*

Column Name	Description	Conditions
Hostname	The hostname used by the client with the Uyuni Server.	-
FQDN	The fully qualified domain name of the client.	Shown only if it differs from the host name.
IP address	The IPv4 IP address of the client.	-
IPv6 address	The IPv6 IP address of the client.	-
Minion ID	The minion ID of the client.	Salt clients only.
Virtualization	The type of virtualization used by the client.	Virtualized clients only.
UUID	The universally unique identifier.	-



Column Name	Description	Conditions
Kernel	The kernel currently in use on the client.	-
Uyuni System ID	A unique identifier generated by Uyuni when the client is registered.	-
Activation key	The activation key used to register the client.	Remains blank if the client has not been activated.
Installed products	Software products currently installed on the client.	-

For more information about system locks, see **Client-configuration > System-locking**.

#### 2.3.1.3. Subscribed Channels

This section shows the base and child software channels this client is subscribed to.

Click **Alter Channel Subscriptions** to change the channel subscriptions for this client. Click a channel name to go to the **Channel Details** tab.

For more information about channels, see **Client-configuration > Channels**.

#### 2.3.1.4. System Events

This section shows the most recent system events for this client.

*Table 7. System Events Columns*

Column Name	Description
Checked in	The time that the client last successfully checked in with the Uyuni Server.
Registered	The time that the client registered with Uyuni.
Last booted	The time that the client was most recently started or rebooted.

Click **Schedule system reboot** to set a time for the client to reboot. The reboot will occur when the client next checks in with the Uyuni Server after the scheduled time. For more on task scheduling, see **Administration > Task-schedules**.

#### 2.3.1.5. System Properties

This section shows further information about the client.

Table 8. System Properties Columns

Column Name	Description
System types	Lists the system type applied to the client. Client type is Salt
Notifications	Lists the current notification options for this client.
Contact method	The method used by this client to communicate with the Uyuni Server.
Auto patch update	Indicates if the client is receiving patches automatically.
Maintenance Schedule	Specifies which maintenance schedule is assigned to this client.
System name	The system name of the client. By default, this is the host name, but it can be changed.
Description	General information about the client. By default, this is automatically gathered when the client is registered, but it can be changed.
Location	The physical location of the client. By default, this is not set, but it can be added.

For more information about contact methods, see **Client-configuration > Contact-methods-intro**.

Click [Edit These Properties](#) to go to **System Details > Details > Properties** subtab.

### 2.3.1.6. Properties

The **Systems > Details > Properties** section allows you to edit details about the selected client, including the system name and details.

Table 9. Edit System Details Settings

Setting Name	Description	Default Setting
System Name	The name of the system to use within the Uyuni Web UI.	The hostname of the client.
Base System Type	The type of base system used by the client.	Shown for information only, you cannot edit this.
Add-on System Types	Check additional system types to add features such as build hosts, or monitoring.	Only available system types for this client are shown.

Setting Name	Description	Default Setting
Notifications	Check to receive notifications of updates or patches, and to include this client in the daily summary.	Checked.
Auto Patch Update	Check to have available patches automatically applied.	Unchecked.
Description	This field can contain any text you want.	The operating system, release, and architecture of the system when it first registered to Uyuni.
Facility Address	The physical location of the client.	Blank

#### 2.3.1.7. Remote Command

The **Systems > Details > Remote Command** section allows you to run commands remotely on the selected client.

Before doing so, you must first configure the system to accept such commands. For more information about using remote commands, see **Administration > Actions**.

#### 2.3.1.8. Reactivation

The **Systems > Details > Reactivation** section allows you to generate reactivation keys for the selected client. Reactivation keys can be used once only to re-register the client and regain all Uyuni settings.

For more information about reactivation keys, see **Client-configuration > Activation-keys**.

#### 2.3.1.9. Hardware

The **Systems > Details > Hardware** section shows detailed hardware information about the selected client, including architecture, networking, and memory.

Click **Schedule Hardware Refresh** to update this page with the latest hardware information. To change the primary network interface on the client, select the correct interface in the **Primary Network Interface** field in the **Networking** section. For clients with multiple fully qualified domain names (FQDNs) configured, change the primary FQDN by selecting it in the **Primary FQDN** field in the **Networking** section. Click **Update Properties** to save your changes.



Refreshing hardware information happens once a month automatically when the **system-profile-refresh** taskomatic job runs.

#### 2.3.1.10. Transfer

The **Systems > Details > Transfer** section allows you to move clients between organizations. Clients can only belong to one organization at any time.



You will need to establish trust between organizations when you want to move clients. For more information, see **Administration > Organizations**.

To move a client to a different organization, select the name of the organization in the **Organization Name** field, and click **Migrate System**.



When you move a client to a different organization, channel assignments, system group membership, custom data values, configuration channels, reactivation keys, and snapshots are deleted from the system configuration. You will need to set these values again when the move is complete.

#### 2.3.1.11. Notes

The **Systems > Details > Notes** section lists notes about the selected client.

Click **Create Note** to create a new note. Give your note a subject, and add any details you require. Click **Create** to save the note.

Notes are listed in the table with a time stamp of when they were last edited. Click the subject of a note to edit or delete it.

#### 2.3.1.12. Custom Info

The **Systems > Details > Custom Info** section lists the custom system information that has been applied to the selected client.

Click **Create Value** to apply a new custom system key to the client. Click the key label to see more information, and to edit the value.

For more information about custom system information, see **Client-configuration > Custom-info**.

### 2.3.2. Software

The **Systems > Software** section allows you to manage software on the selected client.

#### 2.3.2.1. Patches

The **Systems > Software > Patches** section displays a list of all patches currently available to the selected client.

To apply a patch, check it in the list and click **Apply Patches** to schedule the installation. The **Status** column in the list shows whether an update has been scheduled. Click the status for more information about the action.

For more information about patching, see **Client-configuration > Patch-management**.

### 2.3.2.2. Packages

The **Systems > Software > Packages** section allows you to manage packages on the selected client.

Click **Update Package List** to refresh the list of available packages.

The **Systems > Software > Packages** tab is split into subtabs:

#### List/Remove

Lists all packages currently installed on the selected client. Click the name of a package to see more information. To uninstall packages, check the package in the list and click **Remove Packages**.

#### Upgrade

Lists packages that have newer versions available. Click the name of a package to see more information. To upgrade packages, check the package in the list and click **Upgrade Packages**. Any EULAs will be accepted automatically.

#### Install

Lists packages that are available for installation on the selected client. Click the name of a package to see more information. To install packages, check the package in the list and click **Install Selected Packages**. Any EULAs will be accepted automatically.

#### Profiles

Compare packages installed on the selected client with a stored profile, or with packages installed on another client. When the comparison is made, you can choose to modify the selected client to match. To compare with a stored profile, select the profile and click **Compare**. To compare with another client, select the client name and click **Compare**.

#### Non Compliant

Lists packages that are installed on the selected client, but are not available in any of the subscribed software channels.

For more information about packages, see **Client-configuration > Package-management**.

### 2.3.2.3. AppStreams

The **Systems > Software > AppStreams** section allows you to manage the list of enabled AppStream modules on the selected client.



The **Systems > Software > AppStreams** tab is only available if the client has any AppStream channels assigned.

The page lists all the AppStream modules that are currently available to the client. After modifying the selection of enabled modules, click **Apply Changes** to schedule an action to update the selection on the

client.

For more information about managing AppStreams on a client, see **Client-configuration > Appstreams**.

#### 2.3.2.4. Software Channels

The **Systems > Software > Software Channels** section allows you to manage the software channels on the current client. For more information about software channels, see **Client-configuration > Channels**.

The **Systems > Software > Software Channels** subtab is split into sections:

##### 2.3.2.4.1. Base Channel

This section shows the base channel the current client is subscribed to, as well as any other available base channels.

Click the chain icon next to a base channel to see more information about the channel. Change the base channel subscription by selecting the new base channel, and click **Next** to schedule the change.

The child channels associated with the base channel are populated in the **Child Channels** section. Mandatory child channels are pre-selected. Toggle the **include recommended** switch to also select recommended child channels.



By default, cloned vendor channels match the original vendor channel and automatically select the dependencies. You can disable the automatic selection for cloned channels by adding the following option in `/etc/rhn/rhn.conf`:

```
java.cloned_channel_auto_selection = false
```

In general, channel pre-selection is necessary to avoid problems with missing dependencies for a given channel but it only works flawlessly for vendor channels. For cloned channels, Uyuni relies on the channel label to define dependencies and use it in auto selection. This heuristic sometimes lead to either selecting unnecessary child channels or overlooking some essential ones. Users should exercise caution and pay attention in such case that correct channels are selected.

For Salt clients, apply the highstate after changing software channels.

##### 2.3.2.4.2. Child Channels

This section shows the software product and child channels associated with the currently selected base channel.

Hover over the information icon next to the channel name to see channel requirements. Click the chain icon next to a base channel to see more information about the channel.

Child channels are can be either recommended or mandatory. Mandatory child channels must be installed for the selected client to use the associated base channel. Recommended child channels should be

installed to provide additional packages. All other child channels are optional.

Check the child channels you want to install, and click **Next** to schedule the change.

#### 2.3.2.5. Product Migration

The **Systems > Software > Product Migration** section allows you to upgrade clients to the latest service pack of their underlying operating system. Product migration also allows you to migrate openSUSE Leap to the corresponding SLE SP level or clients such as Red Hat Enterprise Linux, or CentOS to SUSE Liberty Linux. Check the product version you want to upgrade the client to, and click **Select Channels**.

For more information about service pack upgrades, see **Client-configuration > Client-upgrades-product-migration**.

### 2.3.3. Configuration

The **Systems > Configuration** section allows you to manage the configuration files for the selected client. Configuration files are distributed with a configuration channel.

For more information about configuration channels, see **Client-configuration > Configuration-management**.

The **Systems > Configuration** tab is split into subtabs:

#### 2.3.3.1. Overview

The **Systems > Configuration > Overview** subtab is split into sections:

##### Configuration Overview

This section contained the total number of available configuration files, and channel subscriptions. Click the name of a configuration file or channel to see more information. Click **Subscribe to channels** to subscribe to additional configuration channels.

##### Recent Events

This section shows when the configuration channels was most recently deployed on the selected client. It also shows the most recent time that a comparison was performed.

##### Configuration Actions

This section allows you to deploy or to compare configuration channels on the selected client.

#### 2.3.3.2. View Files

The **Systems > Configuration > View Files** subtab is split into subtabs for centrally managed, and locally managed configuration files.

The **Centrally-Managed Files** and **Locally-Managed Files** subtabs both show a list of all

available configuration files. Click **View** to see details about the configuration file. Click **Compare** to compare the configuration file to other files, or to various revisions of itself. Click the configuration channel name to see more information about the channel that contains this configuration file. Click the revision number to see additional details about the configuration file.

#### 2.3.3.3. Deploy Files

The **Systems > Configuration > Deploy Files** shows a list of available configuration files that can be deployed on the selected client.

#### 2.3.3.4. Compare Files

The **Systems > Configuration > Compare Files** shows a list of available configuration files that can be compared to Uyuni managed configuration files. Check the configuration file to compare and click **Compare Files** to schedule a comparison. Click the revision number to see additional details about the configuration file. Click the configuration channel name to see more information about the channel that contains this configuration file.

#### 2.3.3.5. Manage Configuration Channels

The **Systems > Configuration > Manage Configuration** subtab is split into subtabs:

##### List/Unsubscribe from Channels

This section shows the list of currently subscribed channels. To unsubscribe the selected client from a configuration channel, check the channel, and click **Unsubscribe**. Click the configuration channel name to see more information about the channel that contains this configuration file.

##### Subscribe to Channels

This section shows the list of configuration channels that are available for the selected client to subscribe to. To subscribe the selected client to a configuration channel, check the channel, and click **Continue**.

##### View/Modify Rankings

This section shows the currently subscribed configuration channels, in ranked order. Where settings conflicts occur between configuration channels, channels closer to the top of the list take precedence. To complete subscription to a configuration channel, review the rankings, adjust as necessary using the up and down arrows, and click **Update Channel Rankings**.

### 2.3.4. Provisioning

The **Systems > Provisioning** section allows you to manage provisioning for the selected client. This includes managing and scheduling autoinstallation and booting the selected client.

The **Systems > Provisioning** tab is split into subtabs:

#### 2.3.4.1. Autoinstallation



This section displays a list of the available autoinstallation profiles for the selected client. Select a time and date for autoinstallation to re-install the client.

For more information about autoinstallation, see **Client-configuration > Autoinst-intro**.

#### 2.3.4.2. Power Management

This section allows you to power on, power off, and reboot the selected client.

This feature uses either the IPMI or Redfish protocol and is managed using a Cobbler profile. The selected client must have a power management controller supporting one of these protocols. For Redfish, ensure you can establish a valid SSL connection between the client and the Uyuni Server.

Complete the details for the power management server, and click the appropriate button for the action to take. Click **Get status** to determine if the client is currently running. Click **Save only** to save the details without taking any action.

Click **Remove Cobbler System Profile** to remove the current client's system profile from Cobbler. For more information about unattended provisioning with Cobbler, see **Client-configuration > Autoinst-unattended**.

For more information about power management, see **Client-configuration > Power-management**.

#### 2.3.5. Groups

The **Systems > Groups** section shows the system groups the selected client is assigned to.

The **Systems > Groups** subtab is split into sections:

For more information about system groups, see **Client-configuration > System-groups**.

##### 2.3.5.1. List/Leave

This section lists all groups that the selected client belongs to.

Click the group name to see more information about the system group. To remove the selected client from a system group, check the group, and click **Leave Selected Groups**.

##### 2.3.5.2. Join

This section lists all groups that are available for the selected client to subscribe to.

Click the group name to see more information about the system group. To join a system group, check the group, and click **Join Selected Groups**.

#### 2.3.6. Audit

The **Systems > Audit** section displays the results of OpenSCAP scans that you have performed on the selected client.

The Security Certification and Authorization Package (SCAP) is a standardized compliance checking solution for enterprise-level Linux infrastructures. Uyuni uses OpenSCAP to implement the SCAP specifications.

For more information about OpenSCAP, see **Administration > Openscap**.

The **Systems > Audit** subtab is split into sections:

#### 2.3.6.1. List Scans

This section displays the results of openSCAP scans that have been performed on the selected client.

The table columns on this page are:

*Table 10. OpenSCAP Scan Results*

Name	Description
Xccdf Test Result	The name of the test result
Diff	FIXME
Completed	The time that the scan was completed
Compliance	The unweighted pass/fail ratio
P	The number of checks that passed
F	The number of checks that failed
E	The number of errors that occurred
U	The number of checks with an unknown status
N	The number of checks that were not applicable to the selected client
K	The number of checks not run
S	The number of checks that were not selected
I	The number of checks that have information available for review
X	The number of checks that reported a status of fixed
Total	The total number of checks run

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Click the name of a scan test result to see details about the result.

### 2.3.6.2. Schedule

This section allows you to schedule a scan for the selected client.

### 2.3.7. States

The **Systems > States** section allows you to manage Salt states on the selected client. States provide configuration templates for Salt clients. Applying the highstate applies all outstanding Salt states. This is only available for Salt clients.

For more information about Salt states, see **Specialized-guides > Salt**.

The **Systems > States** subtab is split into sections:

#### 2.3.7.1. Highstate

This section provides details of the highstate for the selected client. It includes a state summary for the selected client, showing a list of states, formulas, and configuration channels. To schedule a time to apply the highstate, select the date and time and click **Apply Highstate**. Toggle the **Test mode** switch to test the highstate before you apply it.

#### 2.3.7.2. Packages

This section allows you to manage package states for the selected client. Package states determine which packages and versions should be installed on the selected client.

Use the search tool to search for the package you want to change. To set the package state to install the package, select **Installed** as the new state. To always upgrade the package to the latest version, select **latest**. Click **Save** to save the changes to the state. Click **Apply changes** to apply the new package state to the selected client.

Use the **Changes** subtab to see what changes will occur on the selected client when this state is applied.

#### 2.3.7.3. Configuration Channels

This section allows you to manage configuration channels for the selected client.

Use the search tool to search for the configuration channel you want to manage. This section shows the list of configuration channels that are available for the selected client to subscribe to. To subscribe the selected client to a configuration channel, check the channel, and click **Apply**.

Use the **Changes** subtab to see what changes will occur on the selected client when this state is applied.

For more information about configuration channels, see **Client-configuration > Configuration-management**.

### 2.3.8. Formulas

The **Systems > Formulas** section allows you to manage Salt formulas on the selected client. This is only available for Salt clients.

This section lists all currently installed formulas. Check the formulas you want to apply, and click **Save**. When a formula is applied, it will create a new subtab. Navigate to the subtab to configure the formula on the selected client. After most formula actions, you will need to apply the highstate to pick up the changes.

For more information about formulas, see **Specialized-guides > Salt**.

### 2.3.9. Ansible

The **System Details > Ansible** tab allows you to use the Ansible features on the Control Node system.

The tab is split into the following subtabs:

#### Control Node

Fields for defining playbook directories and paths to inventory files on your Ansible Control Node.

#### Playbooks

Lists all playbooks in the defined paths. You can click a playbook to display its details or to schedule its execution.

#### Inventories

Lists all inventory files in the defined paths. Clicking an inventory file in the list introspects its contents.

For more information, see **Administration > Ansible-integration**.

#### 2.3.9.1. Recurring Actions

The **Systems > Recurring Actions** section allows you to manage recurring actions on the selected client. You can schedule an arbitrary set of Salt states or the highstate to be executed at desired intervals. This is only available for Salt clients.

For more information about Salt states, see **Specialized-guides > Salt**.

Currently, Uyuni supports the following action types as recurring actions:

- **Highstate:** Execute the highstate.
- **Custom state:** Execute a set of custom states. A custom state can be either an internal state provided by Uyuni, or a configuration channel created by a user.

For more information about configuration channels, see **Client-configuration > Configuration-**

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management.

#### 2.3.9.1.1. Creating Recurring Actions

To create new schedules, click the **Create** icon on the top right corner. Choose a supported action type, give your recurring schedule a name, select a time and day for it to recur, and click **Create Schedule**. Toggle the **Test mode** switch to test the highstate before you apply it.

#### 2.3.9.1.2. Recurring Action Details

View the details about an action from the action list. In the **Actions** column, click the **Details** icon for the action you are interested in.

#### 2.3.9.1.3. Disabling Recurring Actions

Disabling an action stops the action recurring, but does not delete it. To disable a recurring action toggle the **Active** switch off. Enable them again by toggling the **Active** switch on. Disabled recurring actions remain in the list, but are not executed.

#### 2.3.9.1.4. Editing Recurring Actions

In the **Actions** column, click the **Edit** icon for the action you want to change. On the **Schedule Recurring Action** page, the existing properties are pre-filled. Make your changes, and click **Update Schedule**.

#### 2.3.9.1.5. Deleting Recurring Actions

Deleting an action permanently removes it. To start using the action again, you will need to create a new action. In the **Actions** column, click the **Delete** icon for the action you want to delete, and confirm the deletion.

For more information about recurring actions, see **Administration > Actions**.

### 2.3.10. Events

The **Systems > Events** section shows past, current, and scheduled actions for the selected client.

For more information about actions, see **Administration > Actions**.

The **Systems > Event** tab is split into subtabs:

#### 2.3.10.1. Pending

This section shows actions that are scheduled, but have not yet started.

Click the name of an action to see more information. To cancel an action, check the action and click **Cancel Selected Events**.

### 2.3.10.2. History

This section shows actions that have been completed on the selected client.

Click the summary of an action to see more information.

### 2.3.11. Proxy

The **Systems > System List > Proxy** section shows all clients connected to the selected client as a proxy. This is only available when the selected client is registered to Uyuni as a proxy.

For more information about setting up a proxy, see **Installation-and-upgrade > Install-proxy**.

### 2.3.12. Virtualization

The **Systems > Virtualization** section allows you to manage the virtual guests registered to the selected client. This is only available when the selected client is registered as a virtual host.

For more information about virtualization, see **Client-configuration > Virtualization**.

The **Systems > Virtualization** tab is split into subtabs:

#### 2.3.12.1. Guests

This section lists the virtual guests registered to the selected client. This is only available when the selected client is registered as a virtual host.

The list shows these columns:

*Table 11. Virtual Guest List Columns*

Column	Description
Guest	The name of the virtual guest
System	The client the virtual guest is registered to
Updates	Icon indicates if the guest has outstanding patches
State	Indicates if the guest is running, suspended, stopped, or crashed
Current Memory	The amount of RAM allocated to the guest
vCPUs	The number of virtual processors allocated to the guest
Base Software Channel	The base software channel the guest is registered to
Action Status	Any currently running action

Column	Description
Actions	Use these buttons to start, stop, or change the guest

To perform bulk actions on multiple virtual guests, select the guests, and click the appropriate action button above the table. For Salt clients, click [Create Guest](#) to configure and create a new virtual guest.



- Virtual guests must be registered to virtual hosts. Virtual guests cannot be registered to a virtual guest.

### 2.3.12.2. Storage

This section lists the virtual storage pools and volumes defined on the selected client. This is only available when the selected client is registered as a Salt virtual host.

The list shows these columns:

*Table 12. Virtual Storage Pools List Columns*

Column	Description
Name	The name of the virtual storage pool or volume
State	Indicates if the pool is running, suspended, stopped, or crashed
Autostart	Checked if the pool starts automatically when the virtual host is booted
Persistent	Checked if the pool persists between virtual host reboots
Location	The absolute path to the pool on the virtual host
Usage	The percentage of storage in use. Displays <b>unknown</b> if the pool is not running.
Actions	Use these buttons to start, stop, or change the pool

Click [Create Pool](#) to configure and create a new virtual storage pool.

### 2.3.12.3. Networks

This section lists the virtual networks defined on the selected client. This is only available when the selected client is registered as a Salt virtual host.

The list shows these columns:

*Table 13. Virtual Networks List Columns*

Name	The name of the virtual network
State	Indicates if the network is running, suspended, stopped, or crashed
Autostart	Checked if the network starts automatically when the virtual host is booted
Persistent	Checked if the network persists between virtual host reboots
Bridge	The name of the associated network bridge
Action Status	Shows the status of any pending actions
Actions	Use these buttons to stop, edit, or delete the network

Click [Create Network](#) to configure and create a new virtual network.

## 2.4. Salt Menu

The **Salt** section displays details of your Salt clients. You can use this menu to perform remote commands or define a state catalog for your Salt clients.

For more information about using Salt with Uyuni, see **Specialized-guides > Salt**.

### 2.4.1. Keys

The **Salt > Keys** section displays the key fingerprints of your current Salt clients.

Key fingerprints are exchanged between the Uyuni Server and Salt clients to verify the identity of the server and the client. This prevents Salt clients from connecting to the wrong server.

Click [Refresh](#) to update the list. Click the name of a client to go to **Systems > Details** for that client.

Table 14. Salt Keys List Columns

Column	Description
Name	Name of the Salt client.
Fingerprint	Key fingerprint of the Salt client.
State	The status of the key exchange: <b>accepted</b> indicates that the client key has been verified by the Uyuni Server.



Column	Description
Actions	Click the <b>Delete</b> icon to delete the client key from the server. Clients that have had their key deleted will need to be onboarded again.

### 2.4.2. Remote Commands

The **Salt > Remote Commands** section allows you to perform remote commands on one or more of your Salt clients. Remote commands allows you to issue commands to individual Salt clients, or to all clients that match a search term.

For more information about remote commands, see **Administration > Actions**.

### 2.4.3. Formula Catalog

The **Salt > Formula Catalog** section allows you to see which formulas are currently installed on your Uyuni Server, and are available to be used on your Salt clients. Install and configure formulas by navigating to **Systems > Details** for the client you want to configure, and navigate to the **Formulas** tab.

For more information about Uyuni formulas, see **Specialized-guides > Salt**.

## 2.5. Images Menu

The **Images > Image List** section displays your current operating system images.

For more information about images, see **Administration > Image-management**.

### 2.5.1. Image List

The **Images > Image List** section displays your current operating system images.

Click **Import** to import a new Docker image. You can only import new images created from a Docker image using this mechanism. To import images based on Kiwi instead, see **Administration > Image-management**.

Click **Refresh** to update the list.

Perform bulk actions by checking images in the list. Click **Delete** to bulk delete images.

Table 15. Image List Columns

Column	Description
Name	Name of the image.

Column	Description
Version and Revision	Version and revision of the image.
Updates	Any updates that are currently available for the image.
Patches and Packages	Any patches or packages that are currently available for the image.
Build	The current status of the build: <b>Built</b> , <b>Scheduled</b> , <b>Building</b> or <b>Failed</b> .
Last Modified	The time and date the image was last modified.

For more information about images, see **Administration > Image-management**.

### 2.5.2. Images Build

The **Images > Build** section allows you to build operating system images for installing on clients.

Table 16. Image Build Options

Option	Description	Default
Image Profile	Select the image profile to use. Manage image profiles at <b>Images &gt; Profiles</b> .	Blank.
Build Host	Select the build host for the new image.	Blank.
Earliest	Schedule the time and date for the build to begin.	Current system time and date.
Add to	Select which action chain to add the build task to.	New action chain.

Built images are listed in **Images > Image List**.

For more information about images, see **Administration > Image-management**.

### 2.5.3. Images Profiles

The **Images > Profiles** section displays your current image profiles.

Click **Create** to create a new image profile. Click **Refresh** to update the list.

Perform bulk actions by checking profiles in the list. Click **Delete** to bulk delete profiles.

For more information about images, see **Administration > Image-management**.

### 2.5.4. Images Stores

The **Images > Stores** section displays your current image stores.

Click **Create** to create a new image store. Click **Refresh** to update the list.

Perform bulk actions by checking images in the list. Click **Delete** to bulk delete image stores.

For more information about images, see **Administration > Image-management**.

## 2.6. Patches Menu

The **Patches** menu helps you find and manage available patches for your clients.

For more information about patching, see **Client-configuration > Patch-management**.

### 2.6.1. Patch Details

The **Patches > Patch List > Patch Details** section displays the details of a selected patch. Click the advisory number of a patch in the **Patch List** to see more information about the patch.

This section is divided into tabs.

#### 2.6.1.1. Details

The **Details** tab shows the patch report provided by SUSE.

In the **Affected Channels** section, all channels that contain the affected package are listed. Click the channel name to go to **Software > Channel Details**.

For security patches, additional information is shown about the vulnerability, including the CVE and OVAL details.

If available, the original advisory provided by the vendor of the patch is shown in the section **Vendor Advisory**.

For more information about SUSE Update Advisories, see <https://www.suse.com/support/update/>.

#### 2.6.1.2. Packages

The **Packages** tab provides links to each of the updated packages by channel. Click the name of a package to go to **Software > Channel Details**.

#### 2.6.1.3. Affected Systems

The **Affected Systems** tab provides a list of installed clients that the patch affects. You can install updates from this tab.

Click the name of a client to go to **Systems > System Details**.

Each client in the list shows the current status of the patch on that client. This column identifies only the most recent action. Click the name of a status in the list to go to the **Action Details** page.

Table 17. Client Update Status Icons

Description	Action Required	N/A
Check the status manually.	Pending	The client will be updated at the next synchronization.
Picked Up	The client is in the progress of updating.	Completed
The client successfully installed the patch.	Failed	The client attempted to install the patch, but encountered an error.





## 2.6.2. Patch List

### 2.6.2.1. Relevant Patches

The **Patches > Patch List > Relevant** section displays a list of all patches released by SUSE that apply to your installed clients.

Each patch in the list shows a patch type, an advisory number, a short description, the number of clients in your network affected, and the date the patch was last updated. Click the advisory number to see more information about the patch. For more information about the **Patches > Patch List > Patch Details** section, see xref:reference:patches/patch-details.adoc

Table 18. Patch Status Icons

Icon	Description	Action Required
	Bug fix	Recommended
	Product enhancement advisory	Optional
	Security update	Essential
	Affects package management stack	Recommended







To receive email when new patches are available, navigate to **Home > My Preferences** and check **Receive email notifications**.

### 2.6.2.2. All Patches

The **Patches > Patch List > All** section displays a list of all patches released by SUSE. Not all of the patches will apply to your clients.

Each patch in the list shows a patch type, an advisory number, a short description, the number of clients in your network affected, and the date the patch was last updated. Click the advisory number to see more information about the patch.

Table 19. Patch Status Icons

Icon	Description	Action Required
	Bug fix	Recommended
	Product enhancement advisory	Optional
	Security update	Essential
	Affects package management stack	Recommended

For more information about patching, see **Client-configuration > Patch-management**.

### 2.6.3. Advanced Search for Patches

The **Patches > Advanced Search** section allows you to use advanced criteria to search for patches.

You can search for patches by looking for your search term in different fields:

Table 20. Patch Advanced Search Options

Option	Description	Example
All Fields	Search in all fields	<b>glibc</b>
Patch Advisory	Search within the name or label fields	<b>slessp1-glibc</b>
Package Name	Search within the package name field only	<b>kernel</b>
CVE	Search within the CVE name or number field only	<b>CVE-2006-4535</b>

You can also search within different types of patches, or within a range of issue dates.

For more information about patching, see **Client-configuration > Patch-management**.

### 2.6.4. Manage Patches

The **Patches > Manage Patches** section shows you all custom patches.

Each patch in the list shows a patch type, an advisory name, a short description, and the date the patch was last updated. Click the advisory name to go to **Patches > Patch List > Patch Details** for the patch.

To create a new patch, click **Create Patch**. To delete a patch, select it in the list, and click **Delete Patches**.



- If you use Uyuni with a proxy, manage patches only on the Uyuni Server. The Uyuni Proxy will receive updates from the server directly. If you manage patches on a proxy, the servers will be unable to synchronize correctly.

For more information about patching, see **Client-configuration > Patch-management**.

### 2.6.5. Clone Patches

The **Patches > Clone Patches** section allows you to create copies of existing patches to distribute to your clients.

To clone a patch, the patch must apply to one of your existing software channels. If the patch was part of a software channel that was cloned, then you can clone the patch from the cloned channel.

See all patches that are available for cloning by selecting the channel name in the **View patches potentially applicable to:** field, and click **View**. From the list, check the patch to clone, and click **Clone Patch**. You need to confirm the details to perform the clone.

## 2.7. Software Menu

The **Software** section allows you to view and manage software channels, repositories, and packages.

For more information about software channels, see **Client-configuration > Channels**.

### 2.7.1. Channel Details

The **Software > Channel List > Channel Details** section displays the details of a selected channel. Click the name of a channel in the **Channel List** to see more information about the channel.

This section is divided into tabs.

#### 2.7.1.1. Details

The **Details** tab shows the basic channel details, including a description of the channel, and the dates it was last modified and built. This tab also provides contact information for the maintainer of the product and the GPG key details, where available.

### 2.7.1.2. Managers

The **Managers** tab shows which users are authorized to manage the selected channel. The list shows the username, real name, and email address of the channel manager, as well as the current status of the user.

Organization and Channel administrators can manage any channel. Uyuni Administrators can change roles for specific users by clicking the username.

For more information about user management, see **Administration > Users**.

### 2.7.1.3. Patches

The **Patches** tab shows all available patches for packages in the selected channel. The list displays the advisory type, names, synopsis, and the date the patch was last updated. Click the advisory name to go to the **Patch Details** page.

For more information about managing patches and packages, see **Client-configuration > Patch-management**.

### 2.7.1.4. Packages

The **Packages** tab shows all packages in the selected channel. The list shows the package name, summary, and the provider of the package. Click the package name to go to the **Package Details** page.

For more information about managing patches and packages, see **Client-configuration > Patch-management**.


### 2.7.1.5. Subscribed Systems

The **Subscribed Systems** tab shows the clients currently subscribed to the selected channel. The list shows the client name and type. Check a client in the list to add it to the system set manager. Click the client name to go to the **System Details** page.

For more information about the system set manager, see **Client-configuration > System-set-manager**.

### 2.7.1.6. Target Systems

The **Target Systems** tab shows the clients eligible for subscription to the selected channel. This tab is only available if the selected channel is a child channel. The list shows the client name and type, and the associated base channel.

To subscribe a client to the selected channel, check the client in the list, and click .

For more information about software channels, see **Client-configuration > Channels**.

### 2.7.1.7. AppStreams

The **AppStreams** tab is only visible for modular channels and it shows all the available modules in the channel. The list shows the module name and the streams available for the module. The default stream for each module is indicated with a highlighted color.

For more information about AppStreams and how to use them, see [administration:content-lifecycle-examples.pdf](#).

### 2.7.2. Channel List Menu

The **Software > Channel List** section allows you to view and manage software channels and packages on your clients.

For more information about software channels, see **Client-configuration > Channels**.

The **Software > Channel List > All** section displays a list of all software channels that are available to your organization.

Each software channel in the list shows a channel name, a provider, the number of packages and patches in the channel, and the number of clients currently subscribed to the channel. Click the plus sign next to the name of a parent channel to expand the entry and see all the related child channels. Click the channel name to see more information about the channel.

Within the **Software > Channel List** section you can select which subset of channels you would like to see by navigating to tabs, or the sub-menu items.

*Table 21. Channel List Filters*

Filter	Description
All	All channels available to your organization.
SUSE	Channels provided by SUSE.
Popular	Channels most subscribed to by clients in your organization.
My Channels	Software channels that belong to your organization, including custom channels.
Shared	Channels shared with others in the organizational trust.
Retired	Channels that have reached end-of-life and no longer receive updates.

For more information about software channels, see **Client-configuration > Channels**.

### 2.7.3. Package Search



The **Software > Package Search** section allows you to search all packages.

Enter your search term in the **Search For** field.

Table 22. What to Search Options

Option	Description
Free form	Performs a general search. Use keywords with this option to perform more specific searches.
Name only	Searches only in the names of packages.
Name and Summary	Searches within the name and one-line summary of packages.
Name and Description	Searches within names and long descriptions of packages.

Check the **Channels relevant to your systems** option to search only channels available for your existing clients. Check the **Specific channel you have access to** option to search within a specific channel. Check the **Packages of a specific architecture** to search only for a particular hardware architecture.

You can perform more specific searches by using keywords in the **Search For** field and selecting the **Free Form** option.

Table 23. Keyword Search Options

Keyword	Description	Example
name	Search package names	<b>name:SUSE</b>
version	Search for a package version	<b>version:15</b>
filename	Search within package file names	<b>filename:sles</b>
description	Search within the long description	<b>description:java</b>
summary	Search within the one-line summary	<b>summary:java</b>
arch	Search for a package architecture	<b>arch:x86_64</b>

For example, if you want to search all SUSE Linux Enterprise packages that include **java** in the description and the summary, use this search:

```
summary:java and description:java
```

For more information about software channels, see **Client-configuration > Channels**.

## 2.7.4. Manage Menu

The **Software > Manage** section allows you to manage custom channels, packages, and repositories.

For more information about custom channels, see **Administration > Custom-channels**.

### 2.7.4.1. Manage Channels

The **Software > Manage > Channels** section allows you to manage custom channels.

Click **Create Channel** to create a new custom channel.

To clone an existing channel, click **Clone Channel** and select the channel to clone. You can choose to clone channel with or without all current patches, or select specific patches for inclusion.

For more information about custom channels, see **Administration > Custom-channels**.

### 2.7.4.2. Manage Packages

The **Software > Manage > Packages** section allows you to manage packages that are owned by your organization.

Select a channel from the drop-down box to see all packages related to that channel. If you have administration privileges within your organization, you can also delete packages.

- Orphaned packages are packages that are synchronized by Uyuni, but not associated with a software channel. For handling those packages, see [client-configuration:package-management.pdf](#).
- For more information about custom channels, see **Administration > Custom-channels**.

### 2.7.4.3. Manage Repositories

The **Software > Manage > Repositories** section allows you to manage custom or third-party package repositories and link the repositories to an existing channel.

Click **Create Repository** to create a new repository.

For more information about custom repositories and channels, see **Administration > Custom-channels**.

## 2.7.5. Distribution Channel Mapping

The **Software > Distribution Channel Mapping** section lists your defined default base channels. When you register a client for the first time, they will automatically be assigned to these software channels, in accordance with their architecture and operating system. Default channel mappings can be edited, but not deleted.

Click **Create Distribution Channel Mapping** to create a new channel map.

Table 24. Distribution Channel Mapping Columns

Column	Description
Operating System	The client operating system this mapping applies to.
Release	The operating system release this mapping applies to.
Architecture	The client system architecture architecture this mapping applies to.
Channel Label	The label of the channel.
Organization Specific	Checked if this mapping applies only to the current organization.

For more information about software channels, see **Client-configuration > Channels**.

## 2.8. Content Lifecycle Management Menu

In the **Content Lifecycle** section, you can customize and test packages before updating production clients.

Content lifecycle management allows you to select software channels as sources, adjust them as required for your environment, and thoroughly test them before installing onto your production clients.

For more information about content lifecycle management, see **Administration > Content-lifecycle**.

### 2.8.1. Projects

In the **Content Lifecycle > Projects** section, you can create new content lifecycle management projects, and edit existing projects.

For more information about content lifecycle management, see **Administration > Content-lifecycle**.

### 2.8.2. Filters

In the **Content Lifecycle > Filters** section, you can create various types of filters. With the filters you control the content that is used when a content lifecycle project is built.

For more information about content lifecycle management, see **Administration > Content-lifecycle**.

## 2.9. Audit Menu

The **Audit** menu provides access to features for managing security updates on your clients. Audit tasks

include finding and updating clients with the latest CVE patches, subscription matching, and managing OpenSCAP scans.






### 2.9.1. CVE Audit




The **Audit > CVE Audit** section shows you which CVEs have been applied to your clients. A CVE (common vulnerabilities and exposures) is a fix for a publicly known security vulnerability. It is important that you apply CVEs to your clients as soon as they become available.

Each CVE contains an identification number, a description of the vulnerability, and links to further information. CVE identification numbers use the form **CVE-YEAR-XXXX**.

Clients are listed with a patch status icon.

*Table 25. Patch Status Icons*

Icon	Description	Action Required
	Affected, patches are not released for the CVE.	The client is affected by a vulnerability for which a patch has not yet been released.
	Affected, patches were released for the CVE but Uyuni can't find them in any of the relevant channels.	The client is affected by a vulnerability that received a patch, but Uyuni is unable to locate any of the patches in relevant channels.
	Affected, only partial patches are available for the CVE.	The client is affected by a vulnerability and Uyuni has patches for it, but applying the patches will only fix some of the vulnerable packages.
	Affected, patches are available in channels that are not assigned	The client is affected by a vulnerability and Uyuni has patches for it, but the channels offering the patches are not assigned to the client.
	Affected, patches are available in a product migration target	The client is affected by a vulnerability and Uyuni has patches for it, but applying the patch requires migrating the product to a newer version.

Icon	Description	Action Required
	Affected, at least one patch is available in an assigned channel	The client is affected by the vulnerability and Uyuni has patches available in a channel that is directly assigned to the client.
	Not affected	The client is not affected because none of the CVE vulnerable packages are installed.
	Patched	A patch has been successfully installed on the client.

For more information about CVE auditing, see **Administration > Auditing**.

### 2.9.2. Subscription Matching

The **Audit > Subscription Matching** section provides reports that match your currently installed clients to your existing product subscriptions. Subscription matching reports provide information about clients that do not have a subscription, and subscription start and end dates.

Table 26. Subscription Matching Options

Column	Description
Part Number	Identifier of the matched product
Description	Description of the matched product
Policy	The type of subscription matched to the product
Matched/Total	The number of clients currently using the subscription, of the total available. If the subscription is fully matched, the quantity column value is highlighted.
Start Date	Start date of the subscription
End Date	End date of the subscription

Table entries are highlighted if they are due to expire within three months. Table entries that have already expired are shown in grayscale.

For messages relating to subscription matching, navigate to the **Messages** tab.

Table 27. Subscription Matching Messages

Message	Type	Description	Action
Unsupported part number detected	Debug	The detected part number is unknown or unsupported.	Call SUSE support and open a Service Request ticket to have the part number added to the product.
Physical system is reported as virtual guest, please check hardware data	Debug	A client is reporting as virtual, but could be a physical client.	Check the client hardware data.
Virtual guest has unknown host, assuming it is a physical system	Warning	A virtual client has an unknown host. During the matching process, it was treated as a physical system. This might translate into a wrong subscription assignment.	Check the virtual host manager (VHM) configuration to ensure it is reporting correctly. For Linux-based hosts using <b>libvirt</b> , check that the host is registered, and that the virtual host system type is set correctly.
System has an unknown number of sockets, assuming 16	Warning	Unable to determine how many CPUs a client has. Uyuni used the default value of 16 CPUs every time the number was relevant for matching a subscription. This might translate into a wrong subscription assignment.	Schedule a hardware refresh on this client.
Two subscriptions with the same part number are in a bundle	Informational	Two subscriptions were identified to be part of a bundle and, as result, they were merged together during the computation process.	No actions needed.
Two subscriptions with the same part number (and other properties) have been merged together	Informational	Two subscription shared multiple common properties and they were merged together during the computation process.	No actions needed.

Message	Type	Description	Action
Pinned match adjusted due to merged subscriptions	Informational	A user defined pin was updated since the chosen subscription was merged with another one.	No actions needed.
Subscription with unsupported part number and no associated product has been ignored.	Informational	An unknown subscription without any associated product has been detected and it was ignored during the matching process.	No actions needed.

To pin clients to a particular subscription, navigate to the **Pins** tab.

Table 28. Pin Statuses

Status	Description
Satisfied	The client and subscription were matched correctly.
Not satisfied	The client was not successfully matched with a subscription.
Pending next run	Waiting for the next matcher run.

For more information about subscription matching, see **Administration > Subscription-matching**.

### 2.9.3. OpenSCAP Menu

The **Audit > OpenSCAP** section displays the results of OpenSCAP scans that you have performed on your clients.

The Security Content Automation Protocol (SCAP) is a synthesis of interoperable specifications derived from community ideas. Uyuni uses OpenSCAP to implement the SCAP specifications.

For more information about OpenSCAP, see **Administration > Openscap**.

#### 2.9.3.1. OpenSCAP

The **Audit > OpenSCAP** section displays the results of OpenSCAP scans that you have performed on your clients.

The Security Certification and Authorization Package (SCAP) is a standardized compliance checking solution for enterprise-level Linux infrastructures. Uyuni uses OpenSCAP to implement the SCAP specifications.

For more information about OpenSCAP, see **Administration > Openscap**.

### 2.9.3.2. All Scans

The **Audit > OpenSCAP** section displays the results of OpenSCAP scans that you have performed on your clients.

□The Security Content Automation Protocol (SCAP) is a synthesis of interoperable specifications derived from community ideas.

*Table 29. OpenSCAP Scan Details*

Name	Description	Evaluation Results
System	The name of the scanned client.	
XCCDF Profile	The evaluated profile.	
Completed	The time that the scan was completed.	
Satisfied	The total number of rules that have been satisfied.	A rule is satisfied if the result of the evaluation is <b>Pass</b> or <b>Fixed</b> .
Dissatisfied	The total number of rules that are not satisfied.	A rule is dissatisfied if the result of the evaluation is <b>Fail</b> .
Unknown	The total number of rules that were not able to be evaluated.	A rule is unknown if the result of the evaluation is <b>Error</b> , <b>Unknown</b> or <b>Not checked</b> .



Rules can also return other results, including **Informational**, **Not Applicable**, or **Not Selected**. Rules that return these results are not shown in the scan results.

For more information about OpenSCAP, see **Administration > Openscap**.

### 2.9.3.3. XCCDF Diff

The **Audit > OpenSCAP > XCCDF Diff** section allows you to compare two OpenSCAP XCCDF scans.

For more information about OpenSCAP, see **Administration > Openscap**.

### 2.9.3.4. Advanced Search

The **Audit > OpenSCAP > Advanced Search** section allows you to search through OpenSCAP scans and results.

For more information about OpenSCAP, see **Administration > Openscap**.



## 2.10. Configuration Menu

The **Configuration** section provides access to features for managing the configuration of Uyuni clients.



The **Configuration** menu is only available if you are signed in with a configuration administrator or Uyuni administrator account.

Within the configuration pages, you can:

- manage clients using configuration files
- configure channels offering configuration files
- manage configuration files themselves

Centrally managed files are available to multiple clients, while locally managed files are available to individual clients only.

### 2.10.1. Configuration Overview

The **Configuration > Overview** section is a dashboard that contains a summary of the configuration files that are managed by your organization in Uyuni. There are different panes listing files that are managed centrally in configuration channels and files that are managed locally with individual system profiles.

For more information about managing configuration files, see **Client-configuration > Configuration-management**.

#### Configuration Summary

Provides quick information about your configuration files. Click the blue text to the right to display:

- Systems with managed configuration files
- Configuration channels
- Centrally managed configuration files
- Locally managed configuration files

#### Configuration Actions

**Configuration Actions** offers direct access to the most common configuration management tasks:

- View clients with managed configuration files
- View all managed configuration files
- View all managed configuration channels
- Create a new configuration channel
- Enable configuration management on clients

## Recently Modified Configuration Files

The list shows which files have changed when and to which channel they belong. If no files have been changed, no list appears.

Table 30. Recently Modified Configuration Files Columns

Column	Description
Filename	Absolute filename of the configuration file.
Configuration Channel	Name of the configuration channel.
Modified	The time and date the file was modified.

Click the name of a file to see its **Details** page. Click the channel name to see its **Channel Details** page.

## Recently Scheduled Configuration File Deployments

Each scheduled action is listed along with the status of the action. Any scheduled configuration task, from enabling configuration management on a system to deploying a specific configuration file, is displayed. Here you can quickly assess if all tasks have been successfully carried out or fix any problems.

+

Table 31. Scheduled Configuration File Deployments Columns

Column	Description
System	Host name of the system where you want to deploy the configuration file.
Files to be Deployed	Number of files to be deployed.
Scheduled By	The user who scheduled the job.
Scheduled For	The time and date the file deployment will happen.
Status	Status of the deployment: <b>Queued</b>

+ Clicking the blue status text displays the **System Details > Schedule** page for the specified system.

### 2.10.2. Channels

Uyuni manages both central and local configuration channels and files. Central configuration management allows you to deploy configuration files to multiple systems, by using state channels. When you create a state channel, you can create or upload custom Salt states. For more information about custom states, see **Specialized-guides > Salt**.

Click the name of the configuration channel to see the details page for that channel. If you click the

number of files in the channel, you are taken to the **List/Remove Files** page of that channel. If you click the number of systems subscribed to the configuration channel, you are taken to the **Configuration Channel Details > Systems > Subscribed Systems** page for that channel.

### 2.10.2.1. Configuration Channel Details

#### Overview

The **Overview** page of the **Configuration Channel Details** page is divided into several panels:

#### Channel Properties [Management]

Edit the name, label, and description of the channel by clicking **Edit Properties**.

#### Channel Information

Provides status information for the contents of the channel.

#### Configuration Actions

Provides access to the most common configuration tasks. For Salt clients, there is a link to edit the **init.sls** file.

This panel allows you to deploy, compare, and add and create files. Some action are only available if you have files created and clients assigned to configuration channels.

#### List/Remove Files

This page only appears if there are files in the configuration channel. You can remove files or copy the latest versions into a set of local overrides or into other central configuration channels. Check the box next to files you want to manipulate, then click the action button at the bottom.

#### Add Files

The **Add Files** page has three subtabs of its own, which allow you to **Upload**, **Import**, or **Create** configuration files to be included in the channel.

#### Upload File

To upload a file into the configuration channel, browse for the file on your local system, populate all fields, and click the **Upload Configuration File** button. The **Filename/Path** field is the absolute path where the file will be deployed.

You can set the **Ownership** via the **user name** and **group name** and the **Permissions** of the file when it is deployed.


If the client has SELinux enabled, you can configure **SELinux contexts** to enable the required file attributes (such as user, role, and file type).

If the configuration file includes a macro (a variable in a configuration file), enter the symbol that marks the beginning and end of the macro. For more information on using macros, see [reference:configuration/files-locally-managed.pdf](#).

## Import Files

To import files from other configuration channels, including any locally managed channels, check the box to the left of any file you want to import. Then click [Import Configuration Files](#).



A sandbox icon (  ) indicates that the listed file is currently located in a local sandbox. Files in a system's sandbox are considered experimental and could be unstable. Use caution when selecting them for a central configuration channel.

## Create File

Create a configuration file, directory, or symbolic link to be included in the configuration channel.

## Deploy Files

This page only appears when there are files in the channel and a system is subscribed to the channel. Deploy all files by clicking the [Deploy All Files](#) button or check selected files and click the [Deploy Selected Files](#) button. Select to which systems the files should be applied. All systems subscribed to this channel are listed. If you want to apply the file to a different system, subscribe it to the channel first. To deploy the files, click [Confirm & Deploy to Selected Systems](#).

## Systems

Manage systems subscribed to the configuration channel with two subtabs:

### Subscribed Systems

All systems subscribed to the current channel are displayed. Click the name of a system to see the [System Details](#) page. To unsubscribe a system from the configuration channel, check the box to the left of the system name and click [Unsubscribe systems](#).

### Target Systems

This subtab displays a list of systems enabled for configuration management but not yet subscribed to the channel. To add a system to the configuration channel, check the box to the left of the system name and click [Subscribe systems](#).

## 2.10.3. Files

This page allows you to manage your configuration files independently. Both centrally managed and locally managed files can be reached from sub-pages.



By default, the maximum file size for configuration files is 128 KB (131072 bytes). SUSE supports a configuration file size up to 1 MB. Larger files are not guaranteed to work.

The default maximum file size is set on the Uyuni Server in these files:

```
# /usr/share/rhn/config-defaults/rhn_web.conf
web.maximum_config_file_size = 131072
```

```
# /usr/share/rhn/config-defaults/rhn_server.conf
maximum_config_file_size = 131072
```

Copy these variables to `/etc/rhn/rhn.conf` and edit them. Values are specified in bytes, for example:

```
# /etc/rhn/rhn.conf
web.maximum_config_file_size = 262144
server.maximum_config_file_size = 262144
```

Then restart **spacewalk**:

```
spacewalk-service restart
```

### 2.10.3.1. Centrally Managed Configuration Files

Centrally managed files are available to multiple systems. Changing a file within a centrally managed channel may result in changes to several systems. Locally managed files supersede centrally managed files. For more information about locally managed files, see **Reference > Configuration**.

This page lists all files currently stored in your central configuration channel.

Table 32. Centrally Managed Files Columns

Column	Description
Path	Absolute filename of the configuration file.
Configuration Channel	Name of the configuration channel.
Systems Subscribed	Number of systems subscribed.
Systems Overriding	

Click the **Path** of a file to see **Details** tab of the file. Click the name of the **Configuration Channel** to see the **Overview** tab of the channel. Clicking **Systems Subscribed** shows you all systems currently subscribed to the channel containing that file. Click **Systems Overriding** to see all systems that have a local (or override) version of the configuration file. The centrally managed file will not be deployed to those systems.

### 2.10.3.2. Locally Managed Configuration Files

Locally managed configuration files apply to only one system. They may be files in the system's sandbox or files that can be deployed to the system at any time. Local files have higher priority than centrally managed files. If a system is subscribed to a configuration channel with a given file and additionally has a locally managed version of that file, the locally managed version will be deployed.

The list of all local (override) configuration files for your systems includes the local configuration

channels and the sandbox channel for each Provisioning-entitled system.

Click the **Path** of the file to see its **Config File Details**. Click the name of the system to which it belongs to see its **System Details > Configuration > Overview** page.

For more information about configuration management, see **Client-configuration > Configuration-management**.

## 2.10.4. Systems Menu

Displays status information about your system in relation to configuration. There are two sub-pages: **Managed Systems** and **Target Systems**.

### 2.10.4.1. Managed Systems

By default the **Managed Systems** page is displayed. The listed systems have been fully prepared for configuration file deployment. The number of locally managed and centrally managed files is displayed.

Click the name of a system to show the relevant **System Details > Configuration > Overview** page.

Click the number of local files to show the **System Details > Configuration > View/Modify Files > Locally Managed Files** page, where you can manage which local (override) files apply to the system.

Click the number of centrally managed files to show the **System Details > Configuration > Manage Configuration Channels > List/Unsubscribe from Channels** page. On this page, you can unsubscribe from channels.

### 2.10.4.2. Target Systems

This page shows the systems that are not prepared for configuration file deployment, or are not yet subscribed to a configuration channel.

The table has three columns:

- The system name
- If the system is prepared for configuration file deployment
- The steps necessary to prepare the system.

To prepare a system, check the box to the left of the profile name then click the **Enable Uyuni Configuration Management** button. All of the preparatory steps that can be automatically performed are scheduled by Uyuni.



You will need to perform some manual tasks to enable configuration file deployment. Follow the on-screen instructions provided to assist with each step.

## 2.11. Schedule Menu

The **Schedule** section allows you to view actions and action chains.

Actions include:

- Package alterations, including installation, upgrade, removal, and rolling back of packages
- Client reboots
- Patch installation
- Configuration file alterations, including deploy, upload, and diff
- Hardware profile updates
- Package list profile updates
- Automated installation initiation
- Product migrations
- Remote commands

For more information about actions, see **Administration > Actions**.

### 2.11.1. Pending Actions

The **Schedule > Pending Actions** section shows actions that are in progress, or that have not yet started. Use the **Filter by Action** field to search the list.

Cancel pending actions by checking the action in the list, and clicking **Cancel Actions**. If you archive a pending action, it is not canceled, but the action item moves from the **Pending Actions** list to the **Archived Actions** list.

Table 33. Actions List Columns

Column	Description
Action	Type of action to perform. Click the action to go to <b>Action Details</b> .
Scheduled Time	The earliest time to perform the action.
Succeeded	Number of clients on which this action was successful.
Failed	Number of clients on which this action has failed.
Pending	Number of clients on which this action is currently running
Total	Total number of clients on which this action has been scheduled.

For more information about actions, see **Administration > Actions**.

### 2.11.2. Recurring Actions

The **Schedule > Recurring Actions** section shows all recurring actions that you have permissions for.



The recurring actions list on this page is a read-only table. To modify a schedule, you can follow the links in the **Target Name** column and list the schedules of an individual target.

#### Recurring Action Details

View the details about an action from the action list. In the **Actions** column, click the **Details** icon for the action you are interested in.

For more information about recurring actions, see **Administration > Actions**.

### 2.11.3. Completed Actions

The **Schedule > Completed Actions** section shows actions that have been successfully completed. Use the **Filter by Action** field to search the list. Archive completed actions by checking the action in the list, and clicking **Archive Actions**.

Table 34. Completed Actions List Columns

Column	Description
Action	Type of action to perform. Click the action to go to <b>Action Details</b> .
Scheduled Time	The earliest time to perform the action.
Succeeded	Number of clients on which this action was successful.
Failed	Number of clients on which this action has failed.
Pending	Number of clients on which this action is currently running
Total	Total number of clients on which this action has been scheduled.

For more information about actions, see **Administration > Actions**.

### 2.11.4. Archived Actions

The **Schedule > Archived Actions** section shows actions that you have marked as archived. Use the **Filter by Action** field to search the list. Completed or failed actions can be archived.



For more information about actions, see **Administration > Actions**.

### 2.11.5. Action Chains

The **Schedule > Action Chains** If you need to perform a number of sequential actions on your clients, you can create an action chain to automate them.

For more information about action chains, see **Administration > Actions**.

### 2.11.6. Maintenance Windows

The **Schedule > Maintenance Windows** section allows you to manage your maintenance window schedules. To create a maintenance schedule, you need to have an existing **.ical** file that contains the calendar. Upload the calendar, create a new schedule, and assign the schedule to a client. When a schedule is applied to a client, you are prevented from executing some actions outside of the specified period.

Navigate to **Schedule > Maintenance Windows > Schedules** to see a list of all current schedules. Click **Create** to create a new schedule. Click **Edit** to change the schedule.

Navigate to **Schedule > Maintenance Windows > Calendars** to see a list of all current calendars. Click **Create** to create a new calendar. Click **Edit** to change the calendar.

For more information about maintenance windows, see **Administration > Maintenance-windows**.

## 2.12. Users Menu

The **Users** menu provides access to grant and edit permissions for those who administer your system groups. You can create new users, and edit user details, roles, and system groups.



The **Users** menu is only available if you are signed in to Uyuni with an administrator account.

For more information about managing users, see **Administration > Users**.

### 2.12.1. User Details

The **User Details** section provides additional details about the user account, and allows you to manage permissions for the user. You can also deactivate or delete users from this section.

For more information about managing users, see **Administration > Users**.

The **User Details** section is split into tabs:

#### 2.12.1.1. Details

This tab allows you to change the name and password of the user account, and provides information about

the various permissions the user has assigned.

Use this section to assign or remove administrator roles, except for the Uyuni Administrator. To change a user's Uyuni Administrator role, navigate to **Admin > Users** and check or uncheck **Uyuni Admin?** as required.

#### 2.12.1.2. System Groups

This tab shows the system groups the user is assigned to. Check or uncheck system groups as required.

#### 2.12.1.3. Systems

This tab shows the clients the user is able to administer. Use system groups to modify client access levels.

Select multiple systems from this page to add them to the system set manager (SSM). For more information about SSM, see **Client-configuration > System-set-manager**.

#### 2.12.1.4. Channel Permissions

This tab shows the channel permissions for the user.

The **Subscription** subtab shows channels that the user has subscription permissions for. The **Management** subtab shows channels that the user has management permissions for.

Check channels in the list to grant permissions.

#### 2.12.1.5. User Preferences

This tab is used to configure preference settings for users.

Table 35. User Preferences

Option	Description	Default
Email Notification	Receive email for client and Taskomatic notifications, including a daily summary email.	Checked
Uyuni List Page Size	Maximum number of items that can appear in a list on a single page.	25 entries
"Overview" Start Page	Select the information panes to display on the <b>Home &gt; Overview</b> page.	All checked
Time Zone	Set your local timezone.	System timezone

Option	Description	Default
CSV Files	Select whether to use comma or semi-colon delimiters when producing downloadable CSV files.	Comma

#### 2.12.1.6. Addresses

This tab shows the mailing addresses associated with the user. Click [Fill in this address](#) to set a mailing address. Click [Edit this address](#) to change an existing mailing address.

### 2.12.2. User List

The **Users > User List** section provides access to the lists of users.

#### 2.12.2.1. Active Users

The **Users > User List > Active** section shows all active users in your Uyuni Server.

Each user in the list shows the username, real name, assigned roles, and the date the user last signed in. Click [Create User](#) to create a new user account. Click the username to go to the [User Details](#) page.

For more information about managing users, see **Administration > Users**.

#### 2.12.2.2. Deactivated Users

The **Users > User List > Deactivated** section shows all deactivated users in your Uyuni Server.

Each user in the list shows the username, real name, assigned roles, the date the user last signed in, the user who deactivated the account, and the date the account was deactivated. Click [Create User](#) to create a new user account. Click the username to go to the [User Details](#) page.

To reactivate a user, check the username in the list and click [Reactivate](#).

For more information about managing users, see **Administration > Users**.

#### 2.12.2.3. All Users

The **Users > User List > All** section shows all activated and deactivated users in your Uyuni Server. Deleted users are not shown in the list.

Each user in the list shows the username, real name, assigned roles, the date the user last signed in, and the current status of the user. Click [Create User](#) to create a new user account. Click the username to go to the [User Details](#) page.

For more information about managing users, see **Administration > Users**.

### 2.12.3. System Group Configuration

The **Users > System Configuration** section allows you to configure system groups for your users.

System groups allow you to grant permissions to a group of users, instead of granting permissions to individuals. This is particularly useful if you have many users.

You can also configure system groups for users that have been externally authenticated.

For more information about managing users with system groups, see **Administration > Users**.

## 2.13. Admin Menu

The **Admin** menu provides access to features for managing Uyuni configuration. Configuration tasks include creating and managing organizations, users, and tasks. You can also use the setup wizard to help configure Uyuni.



The **Admin** menu is only available if you are logged in to Uyuni with an administrator account.

### 2.13.1. Setup Wizard

The **Admin > Setup Wizard** section helps you configure Uyuni. It is the default page when you use the Uyuni Web UI for the first time.

Table 36. Setup Wizard Options

Option	Description
HTTP Proxy	Configure an HTTP proxy connection.
Organization Credentials	Configure an organization for accessing SUSE Customer Center.
Products	View product entitlements and subscribe to product channels.

#### 2.13.1.1. Configure the HTTP Proxy

Uyuni can connect to the SUSE Customer Center (SCC) or other remote servers using a proxy. Navigate to the **HTTP Proxy** tab to configure the proxy.

You will need to provide the hostname of the proxy. Use the syntax **<hostname>:<port>**. For example: **example.com:8080**.

You can disable use of the proxy by clearing the fields.



When choosing a username or password for your Uyuni Proxy, ensure it does not

contain an @ or : character. These characters are reserved.

### 2.13.1.2. Configure Organization Credentials

Your SUSE Customer Center account is associated with the administration account of your organization. You can share your SUSE Customer Center access with other users within your organization. Navigate to the **Organization Credentials** tab to grant users within your organization access to your SUSE Customer Center account.

Click **Add a new credential**, enter the username and password of the user to grant access to, and click **Save**. A new credential card is shown for the user you have granted access to. Use these buttons on the card to edit or revoke access:

- Check credential validation status (green tick or red cross icon). To re-check the credential with SCC, click the icon.
- Set the primary credentials for inter-server synchronization (yellow star icon).
- List the subscriptions related to a certain credential (list icon).
- Edit the credential (pencil icon).
- Delete the credential (trash can icon).

### 2.13.1.3. Configure Products

Your SUSE subscription entitles you to access a range of products. Navigate to the **Products** tab to browse the products available to you and synchronize Uyuni with SUSE Customer Center.

Filters help you search for products by description or architecture.

The list is organized by product name showing products on top which have a subscription. Freely available products appear at the end of the list. For each product, you can see the architecture it can be used on. Click the arrow next to the product name to see associated channels and extensions. Click the **Channels** icon to see the complete list of channels associated with each product.

For products based on SUSE Linux Enterprise 15 and above, you can choose to only synchronize required packages, or to also include recommended products. Toggle the **include recommended** switch on to synchronize all products, and toggle the switch off to synchronize only required products.

You can further refine which products you want to synchronize by selecting or deselecting individual product.

When you have completed your selection, click **Add products**, and click **Refresh** to schedule the synchronization.

Synchronization progress for each product is shown in a progress bar next to the product name. Depending on the products you have chosen, synchronization can take up to several hours. New products will be available for you to use in Uyuni when synchronization is complete.

If your synchronization fails, it could be because of a third party GPG key or your company firewall blocking access to the download server. Please check the notification details for the error. For more information about troubleshooting product synchronization, see **Administration > Troubleshooting**.

### 2.13.2. Organizations

The **Admin > Organizations** section allows you to create and manage your Uyuni organizations. Click an organization in the list to see details.

For more information about organizations, see **Administration > Organizations**.

### 2.13.3. Users

The **Admin > Users** section allows you to view and manage all users of the organization you are logged in to. Every user shows the username, real name, the organization they are associated with, and whether the user is an organization or Uyuni administrator.

To change a user's Uyuni Administrator role, check or uncheck **Uyuni Admin** as required.

Click a username to modify the user account details, and change other administrator roles.

For more information, see **Reference > Users**.

### 2.13.4. Manager Configuration

The **Admin > Manager Configuration** section contains tabs to allow you to configure Uyuni.

*Table 37. Configuration Options*

Option	Description
General	Configure your Uyuni installation.
Bootstrap Script	Generate a custom bootstrap script.
Organizations	Create and configure organizations and users.
Restart	Restart Uyuni. You will need to do this after making configuration changes.
Cobbler	Run a Cobbler synchronization.
Monitoring	Enable server monitoring.

#### 2.13.4.1. General

On the **Admin > Manager Configuration > General** page you can configure your Uyuni installation.

*Table 38. Bootstrap Script Options*

Option	Description	Default
Administrator Email Address	Email address of the Uyuni administrator.	Pre-populated
Uyuni Hostname	Hostname of the Uyuni Server.	Pre-populated
HTTP Proxy	The hostname and port of the proxy, if you are using one. Use syntax <b>&lt;hostname&gt;:&lt;port&gt;</b> , for example: <b>&lt;example.com&gt;:8080</b> .	None
HTTP Proxy username	The username to use on the proxy server, if you are using one.	None
HTTP Proxy password	The password to use on the proxy server, if you are using one.	None
Confirm HTTP Proxy password	The directory where RPM packages are mirrored.	<b>/var/spacwalk/</b>
RPM repository mount point	The hostname of the proxy server, if you are using one.	None
Default to SSL	Check to use SSL as the default value for communications.	Checked

#### 2.13.4.2. Bootstrap Script

In the **Admin > Manager Configuration > Bootstrap Script** section you can generate a custom bootstrap script. Bootstrap scripts are used to register clients with Uyuni. The generated script will be placed in **/srv/www/htdocs/pub/bootstrap/** on your Uyuni Server.

Table 39. Bootstrap Script Options

Option	Description	Default
Uyuni Server hostname	The hostname for the Uyuni Server to register the client to	Pre-populated
SSL cert location	Location and name of the SSL certificate	Pre-populated
Bootstrap using Salt	Check to bootstrap clients	Checked
Enable SSL	Check to use the corporate public CA certificate on the client, uncheck to use self-managed CA certificates.	Checked

Option	Description	Default
Enable Client GPG checking	Check to use GPG, uncheck to disable GPG checking	Checked
Enable Remote Configuration	Check to allow configuration from a remote server.	Unchecked
Enable Remote Commands	Check to allow commands from a remote server.	Unchecked
Client HTTP Proxy	The hostname of the proxy server, if you are using one.	Unpopulated
Client HTTP Proxy Username	The username to use on the proxy server, if you are using one.	Unpopulated
Client HTTP Proxy Password	The password to use on the proxy server, if you are using one.	Unpopulated



Do not disable SSL in your bootstrap script. Ensure that **Enable SSL** is checked in the Web UI, or that the setting **USING\_SSL=1** exists in the bootstrap script. If you disable SSL, the registration process requires custom SSL certificates. For more about custom certificates, see **Administration > Ssl-certs**.

#### 2.13.4.3. Configure Organizations

The **Admin > Manager Configuration > Organizations** section contains details about organizations in Uyuni, and provides links to create and configure organizations and users.

#### 2.13.4.4. Restart

The **Admin > Manager Configuration > Restart** section allows you to restart Uyuni. You will need to do this after making configuration changes. It will take some time for Uyuni to become available again after a restart.

#### 2.13.4.5. Cobbler

The **Admin > Manager Configuration > Cobbler** page allows you to run a Cobbler synchronization. You can repair or rebuild the contents of the **/srv/tftpboot/** and **/srv/www/cobbler/** directories after a manual modification of the Cobbler setup.

For more information about autoinstallation powered by Cobbler, see **Client-configuration > Autoinst-intro**.



SUSE only supports Cobbler functions that are available in the Uyuni Web UI, or through the Uyuni API. Only supported features are documented here.





Using NFS for the persistent volumes of Cobbler is not supported.

#### 2.13.4.6. Monitoring

The **Admin > Manager Configuration > Monitoring** section allows you to enable Uyuni monitoring with Prometheus.

For more information about monitoring, see **Administration > Monitoring**.

### 2.13.5. ISS Configuration

The **Admin > ISS Configuration** section is used to configure inter-server synchronization (ISS). ISS allows you to connect two or more Uyuni Servers and keep them up-to-date.

To set up ISS, you need to define one Uyuni Server as a master, with the other as a slave. If conflicting configurations exist, the system will prioritize the master configuration.

For more information about ISS, see **Administration > Iss**.

#### 2.13.5.1. ISS Master Setup

The **Admin > ISS Configuration > Master Setup** section is used to configure an inter-server synchronization (ISS) master.

If you are logged in to an ISS master, this page lists all slaves that can receive content from this master.

To add new slaves to the master, click **Add new slave**. You will need the slave's Fully Qualified Domain Name (FQDN).

Check the **Allow Slave to Sync?** checkbox to enable the slave to synchronize with the master.

Check the **Sync All Orgs to Slave?** checkbox to synchronize all organizations to this slave.

For more information about ISS, see **Administration > Iss**.

#### 2.13.5.2. ISS Slave Setup

The **Admin > ISS Configuration > Slave Setup** section is used to configure an inter-server synchronization (ISS) slave.

If you are logged in to an ISS slave, this page lists all masters that the slave has previously synchronized with.

To add a new master, click **Add new master**. You will need the master's Fully Qualified Domain Name (FQDN), and the full path to the CA Certificate. For example:

```
/etc/pki/trust/anchors
```

For more information about ISS, see **Administration > Iss**.

### 2.13.6. Task Schedules

The **Admin > Task Schedules** section lists all predefined task bunches. Tasks can be grouped together in bunches to simplify managing them.

This page shows the schedule for each bunch of tasks. Every schedule shows how frequently it runs using **cron** notation, the time it became active, and the bunch that it belongs to.

Click a schedule to change its frequency, disable, or delete it.



- Do not disable or delete a schedule if you are not certain what it does. Some schedules are essential for Uyuni to work properly.

For more information about task schedules, see **Administration > Task-schedules**.

### 2.13.7. Task Engine Status

The **Admin > Task Engine Status** section shows all running tasks by the Uyuni task engine.

Navigate to the **Last Execution Times** tab to see the task list. Each task shows the time it was last run, and the current status of the task.

Navigate to the **Runtime Status** tab to see all tasks that have run in the past five minutes. Each task shows the start and end time, the amount of time the task ran for, and the current status. Some tasks will also provide further data, if available.

### 2.13.8. Show Tomcat Logs

The **Admin > Show Tomcat Logs** section shows the Apache Tomcat log file. You can also view the Tomcat log from the command prompt at **/var/log/rhn/rhn\_web\_ui.log**.



- The **Admin > Show Tomcat Logs** section is only available if you are signed in to Uyuni with an administrator account.

## 2.14. Help Menu

The **Help** section opens the current version of the Uyuni documentation in a new browser tab. This is the documentation installed locally on your Uyuni Server.

For all versions and formats of the Uyuni documentation, see <https://www.uyuni-project.org/uyuni-docs/>

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### 2.14.1. Documentation

The **Help > Documentation 2025.05** section opens the current version of the Uyuni documentation in a new browser tab. This is the documentation installed locally on your Uyuni Server.

For all versions and formats of the Uyuni documentation, see <https://www.uyuni-project.org/uyuni-docs/index.html>.

### 2.14.2. Release Notes

The **Help > Release Notes** section opens the current version of the Uyuni Release Notes in a new browser tab.

### 2.14.3. API Menu

The **Help > API** section contains links to the available API calls, and includes an API FAQ and sample scripts.

#### 2.14.3.1. API Overview

The **Help > API > Overview** section provides a list of available API calls. Click the name of an API call to see the relevant documentation.

For the full API documentation, see <https://documentation.suse.com/multi-linux-manager/>.

#### 2.14.3.2. API FAQ

The **Help > API > FAQ** section contains frequently asked questions related to Uyuni APIs.

#### 2.14.3.3. API Sample Scripts

The **Help: > API > Sample Scripts** section contains example API calls for you to copy. The scripts are written in Ruby, Perl, and Python.

See: <https://documentation.suse.com/multi-linux-manager/2025.05/api/suse-manager/api/scripts.html>

## Chapter 3. spacecmd Reference



- To access a shell inside the Server container, run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

The following section will help you become more familiar with the `spacecmd` command-line interface. This interface is available for Uyuni, Satellite and Spacewalk servers. `spacecmd` is written in Python and uses the XML-RPC API provided by the server.

### *What can spacecmd do for me?*

- Manage almost all aspects of Uyuni from the command line with `spacecmd`
- Tab completion is available for all commands
- Single commands can be passed to `spacecmd` without entering the interactive shell (excellent for shell scripts)
- May also be accessed and used as an interactive shell
- Advanced search methods are available for finding specific systems, thus removing the need to create system groups (nevertheless groups are still recommended)
- Complete functionality through the Spacewalk API. Almost all commands that can be executed from the Web UI can be performed via the `spacecmd` command-line

## 3.1. Configuring spacecmd



- To access a shell inside the Server container, run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

The following section provides configuration tips for `spacecmd`.

### 3.1.1. Setup spacecmd Credentials

Normally `spacecmd` prompts you for a username and password each time you attempt to login to the interactive shell. Alternatively you can configure `spacecmd` with a credentials file to avoid this requirement.

#### *Procedure: Creating a spacecmd Credentials File*

1. Create a hidden `spacecmd` directory in your home directory and set permissions:

```
mkdir ~/.spacecmd
chmod 700 ~/.spacecmd
```

2. Create a `config` file in `~/.spacecmd/` and provide proper permissions:

```
touch ~/.spacecmd/config
chmod 600 ~/.spacecmd/config
```

3. Edit the **config** file and add the following configuration lines. (You can use either localhost or the FQDN of your Uyuni server):

```
[spacecmd]
server=FQDN-here
username=username-here
password=password-here
```

4. Check connectivity by entering **spacecmd** as root:

```
# spacecmd
```

### 3.1.2. spacecmd Quiet Mode

By default spacecmd prints server status messages during connection attempts. These messages can cause a lot of clutter when parsing system lists. The following alias will force spacecmd to use quiet mode thus preventing this behavior. Add the following line to your **~/.bashrc** file:

```
alias spacecmd='spacecmd -q'
```

### 3.1.3. spacecmd Help

spacecmd help can be access by typing spacecmd **-h --help**

```
Usage: spacecmd [options] [command]

Options:
  -c CONFIG, --config CONFIG      config file to use [default: ~/.spacecmd/config]
  -u USERNAME, --username=USERNAME  use this username to connect to the server
  -p PASSWORD, --password=PASSWORD  use this password to connect to the server
  -s SERVER, --server=SERVER        connect to this server [default: local hostname]
  --nossll                          use HTTP instead of HTTPS
  --nohistory                       do not store command history
  -y, --yes                         answer yes for all questions
  -q, --quiet                      print only error messages
  -d, --debug                      print debug messages (can be passed multiple times)
  -h, --help                      show this help message and exit
```

As root you can access available functions without entering the spacecmd shell:

```
# spacecmd -- help

Documented commands (type help <topic>):
=====
```

```

activationkey_addchildchannels
activationkey_addconfigchannels
activationkey_addentitlements
activationkey_addgroups
activationkey_addpackages
activationkey_clone
activationkey_create
activationkey_delete
activationkey_details
activationkey_diff
activationkey_disable
activationkey_disableconfigdeployment
org_trustdetails
package_details
package_listdependencies
package_listerrata
package_listinstalledsystems
package_listorphans
package_remove
package_removeorphans
package_search
repo_addfilters
repo_clearfilters
repo_create
...

```

## 3.2. help

List all available spacecmd commands with the help function.

Check for additional help on a specific function by calling for example:

```
user_create --help
```

*Listing 1. Full List of Available Help Commands*

```

Documented commands (type help <topic>):
=====
activationkey_addchildchannels      org_remove trust
activationkey_addconfigchannels     org_rename
activationkey_addentitlements       org_trustdetails
activationkey_addgroups             package_details
activationkey_addpackages           package_listdependencies
activationkey_clone                 package_listerrata
activationkey_create                package_listinstalledsystems
activationkey_delete                package_listorphans
activationkey_details                package_remove
activationkey_diff                  package_removeorphans
activationkey_disable                package_search
activationkey_disableconfigdeployment repo_addfilters
activationkey_enable                 repo_clearfilters
activationkey_enableconfigdeployment repo_create
activationkey_export                repo_delete
activationkey_import                 repo_details
activationkey_list                   repo_list
activationkey_listbasechannel        repo_listfilters
activationkey_listchildchannels      repo_removefilters
activationkey_listconfigchannels     repo_rename
activationkey_listentitlements        repo_setfilters
activationkey_listgroups             repo_updatessl
activationkey_listpackages           repo_updateurl
activationkey_listsystems            report_duplicates
activationkey_removechildchannels    report_errata
activationkey_removeconfigchannels   report_inactivesystems
activationkey_removeentitlements      report_ipaddresses
activationkey_removegroups           report_kernels
activationkey_removepackages         report_outofdatesystems
activationkey_setbasechannel         report_ungroupedsystems
activationkey_setconfigchannelorder  scap_getxccdfscandetails
activationkey_setcontactmethod       scap_getxccdfscanrulesresults
activationkey_setdescription         scap_listxccdfscans
activationkey_setuniversaldefault     scap_scheduledxccdfscan

```

```

activationkey_setusagelimit
api
clear
clear_caches
configchannel_addfile
configchannel_backup
configchannel_clone
configchannel_create
configchannel_delete
configchannel_details
configchannel_diff
configchannel_export
configchannel_filedetails
configchannel_forcedeploy
configchannel_import
configchannel_list
configchannel_listfiles
configchannel_listsystems
configchannel_removefiles
configchannel_sync
configchannel_updatefile
configchannel_verifyfile
cryptokey_create
cryptokey_delete
cryptokey_details
cryptokey_list
custominfo_createkey
custominfo_deletekey
custominfo_details
custominfo_listkeys
custominfo_updatekey
distribution_create
distribution_delete
distribution_details
distribution_list
distribution_rename
distribution_update
errata_apply
errata_delete
errata_details
errata_findbycve
errata_list
errata_listaffectedsystems
errata_listcves
errata_publish
errata_search
errata_summary
filepreservation_create
filepreservation_delete
filepreservation_details
filepreservation_list
get_apiversion
get_certificateexpiration
get_serverversion
get_session
group_addsystems
group_backup
group_create
group_delete
group_details
group_list
group_listsystems
group_removesystems
group_restore
help
history
kickstart_addactivationkeys
kickstart_addchildchannels
schedule_cancel
schedule_details
schedule_getoutput
schedule_list
schedule_listarchived
schedule_listcompleted
schedule_listfailed
schedule_listpending
schedule_reschedule
snippet_create
snippet_delete
snippet_details
snippet_list
snippet_update
softwarechannel_adderrata
softwarechannel_adderratabydate
softwarechannel_addpackages
softwarechannel_addrepo
softwarechannel_clone
softwarechannel_clonetree
softwarechannel_create
softwarechannel_delete
softwarechannel_details
softwarechannel_diff
softwarechannel_errata_diff
softwarechannel_errata_sync
softwarechannel_getorgaccess
softwarechannel_list
softwarechannel_listallpackages
softwarechannel_listbasechannels
softwarechannel_listchildchannels
softwarechannel_listerrata
softwarechannel_listerratabydate
softwarechannel_listlatestpackages
softwarechannel_listpackages
softwarechannel_listrepos
softwarechannel_listsyncschedule
softwarechannel_listsystems
softwarechannel_mirrorpackages
softwarechannel_regenerateneededcache
softwarechannel_regenerateyumcache
softwarechannel_removeerrata
softwarechannel_removepackages
softwarechannel_removerepo
softwarechannel_removesyncschedule
softwarechannel_setorgaccess
softwarechannel_setsyncschedule
softwarechannel_sync
softwarechannel_syncrepos
ssm_add
ssm_clear
ssm_intersect
ssm_list
ssm_remove
system_addchildchannels
system_addconfigchannels
system_addconfigfile
system_addcustomvalue
system_addentitlements
system_addnote
system_applyerrata
system_comparepackageprofile
system_comparepackages
system_comparewithchannel
system_createpackageprofile
system_delete
system_deletenotes
system_deletepackageprofile

```

kickstart_addcryptokeys	system_deployconfigfiles
kickstart_addfilepreservations	system_details
kickstart_adoption	system_installpackage
kickstart_addpackages	system_list
kickstart_addscript	system_listbasechannel
kickstart_addvariable	system_listchildchannels
kickstart_clone	system_listconfigchannels
kickstart_create	system_listconfigfiles
kickstart_delete	system_listcustomvalues
kickstart_details	system_listentitlements
kickstart_diff	system_listerrata
kickstart_disableconfigmanagement	system_listevents
kickstart_disableremotecommands	system_listhardware
kickstart_enableconfigmanagement	system_listinstalledpackages
kickstart_enablelogging	system_listnotes
kickstart_enableremotecommands	system_listpackageprofiles
kickstart_export	system_listupgrades
kickstart_getcontents	system_lock
kickstart_getsoftwaredetails	system_reboot
kickstart_getupdatetype	system_removechildchannels
kickstart_import	system_removeconfigchannels
kickstart_import_raw	system_removecustomvalues
kickstart_importjson	system_removeentitlement
kickstart_list	system_removepackage
kickstart_listactivationkeys	system_rename
kickstart_listchildchannels	system_runscript
kickstart_listcryptokeys	system_schedulehardwarerefresh
kickstart_listcustomoptions	system_schedulepackagerefresh
kickstart_listoptions	system_search
kickstart_listpackages	system_setbasechannel
kickstart_listscripts	system_setconfigchannelorder
kickstart_listvariables	system_setcontactmethod
kickstart_removeactivationkeys	system_show_packageversion
kickstart_removechildchannels	system_syncpackages
kickstart_removecryptokeys	system_unlock
kickstart_removefilepreservations	system_updatecustomvalue
kickstart_removeoptions	system_upgradepackage
kickstart_removepackages	toggle_confirmations
kickstart_removescript	user_adddefaultgroup
kickstart_removevariables	user_addgroup
kickstart_rename	user_addrole
kickstart_setcustomoptions	user_create
kickstart_setdistribution	user_delete
kickstart_setlocale	user_details
kickstart_setpartitions	user_disable
kickstart_setselinux	user_enable
kickstartsetupupdatetype	user_list
kickstart_updatevariable	user_listavailableroles
list_proxies	user_removedefaultgroup
login	user_removegroup
logout	user_removeuser
org_addtrust	user_setemail
org_create	user_setfirstname
org_delete	user_setlastname
org_details	user_setpassword
org_list	user_setprefix
org_listtrusts	whoami
org_listusers	whoamitalkingto

Miscellaneous help topics:

=====

time systems ssm

## 3.3. history



List recent commands using the `history` command.

```
spacecmd {SSM:0}> history
 1  help
 2  api
 3  exit
 4  help
 5  time --help
 6  quit
 7  clear
spacecmd {SSM:0}>
```

## 3.4. Troubleshooting spacecmd

This section provides troubleshooting solutions when working with spacecmd

### 3.4.1. Creating a distribution where spacecmd sets localhost instead of FQDN

#### Situation

When creating a distribution with spacecmd it will automatically set `localhost` as the server name instead of the FQDN of Uyuni. This will result in the following kernel option being written:

```
install=http://localhost/ks/dist/<distributionname>
```

#### Resolution

Set the FQDN in `$HOME/.spacecmd/config` like the following:

```
test:~/.spacecmd # cat config

[spacecmd]
server=test.mytest.env
username=admin
password=password
noss1=0
```

#### Cause

This problem may be experienced if `$HOME/.spacecmd/config` has been created and the server name option was set to `localhost`.

### 3.4.2. spacecmd not accepting commands or options

When running `spacecmd` non-interactively:

- you must escape arguments passed to the command.
- always put `--` before arguments, to avoid them being treated as global arguments.
- make sure you escape any quotes that you pass to the functions so that they are not interpreted.

An example of a well-formed **spacecmd** command:

```
spacecmd -s server1 -- softwarechannel_create -n \"My Channel\" -l channel1 -a x86_64
```

### 3.4.3. spacecmd caching problems

The **spacecmd** command keeps a cache of the various systems and packages that you have installed. Sometimes, this can result in a mismatch between the system name and the system ID.

To clear the **spacecmd** cache, use this command:

```
spacecmd clear_caches
```

## 3.5. spacecmd Functions

The following sections provide descriptions for all documented spacecmd commands. Each command is grouped by the function prefix. Keep in mind that all commands may also be called using scripts and passed to spacecmd as stand-alone commands.

### 3.5.1. activationkey

The following spacecmd commands are available for use with activation keys.

#### 3.5.1.1. activationkey\_addchildchannels

Add child channels to an activation key.

```
usage: activationkey_addchildchannels KEY <CHANNEL ...>
```

#### 3.5.1.2. activationkey\_addconfigchannels

Add configuration channels to an activation key.

```
usage: activationkey_addconfigchannels KEY <CHANNEL ...> [options]
options:
  -t add channels to the top of the list
  -b add channels to the bottom of the list
```

#### 3.5.1.3. activationkey\_addentitlements

Add available entitlements to an activation key.

```
usage: activationkey_addentitlements KEY <ENTITLEMENT ...>
```



In the WebUI entitlements are known as System Types. Nevertheless the spacecmd backend still utilizes the entitlements term. Therefore any scripts you may be using can remain unchanged.

#### 3.5.1.4. activationkey\_addgroups

Add existing groups to an activation key.

```
usage: activationkey_addgroups KEY <GROUP ...>
```

#### 3.5.1.5. activationkey\_addpackages

Add packages to an activation key.

```
usage: activationkey_addpackages KEY <PACKAGE ...>
```

#### 3.5.1.6. activationkey\_clone

Clone an existing activation key.

```
usage examples:
    activationkey_clone foo_key -c bar_key
    activationkey_clone foo_key1 foo_key2 -c prefix
    activationkey_clone foo_key -x "s/foo/bar"
    activationkey_clone foo_key1 foo_key2 -x "s/foo/bar"

options:
  -c CLONE_NAME : Name of the resulting key, treated as a prefix for multiple
                  keys
  -x "s/foo/bar" : Optional regex replacement, replaces foo with bar in the
                  clone description, base-channel label, child-channel
                  labels, config-channel names
```

#### 3.5.1.7. activationkey\_create

Create a new activation key.

```
usage: activationkey_create [options]

options:
  -n NAME
  -d DESCRIPTION
  -b BASE_CHANNEL
  -u set key as universal default
  -e [enterprise_entitled,virtualization_host]
```

### 3.5.1.8. `activationkey_delete`

Delete an existing activation key.

```
usage: activationkey_delete KEY
```

### 3.5.1.9. `activationkey_details`

Show details of an existing activation key.

```
usage: activationkey_details KEY ...
```

### 3.5.1.10. `activationkey_diff`

Check the difference between two activation keys.

```
usage: activationkey_diff SOURCE_ACTIVATIONKEY TARGET_ACTIVATIONKEY
```

### 3.5.1.11. `activationkey_disable`

Disable an existing activation key.

```
usage: activationkey_disable KEY [KEY ...]
```

### 3.5.1.12. `activationkey_disableconfigdeployment`

Disable configuration channel deployment for an existing activation key.

```
usage: activationkey_disableconfigdeployment KEY
```

### 3.5.1.13. `activationkey_enable`

Enable an existing activation key.

```
usage: activationkey_enable KEY [KEY ...]
```

### 3.5.1.14. `activationkey_enableconfigdeployment`

Enable configuration channel deployment for an existing activation key.

```
usage: activationkey_enableconfigdeployment KEY
```

### 3.5.1.15. activationkey\_export

Export activation keys to a JSON formatted file.

```
usage: activationkey_export [options] [<KEY> ...]

options:
  -f outfile.json : specify an output filename, defaults to <KEY>.json
                    if exporting a single key, akeys.json for multiple keys,
                    or akey_all.json if no KEY specified (export ALL)

Note : KEY list is optional, default is to export ALL keys
```

### 3.5.1.16. activationkey\_import

Import activation keys from JSON files

```
usage: activationkey_import <JSONFILE ...>
```

### 3.5.1.17. activationkey\_list

List all existing activation keys.

```
usage: activationkey_list
```

### 3.5.1.18. activationkey\_listbasechannel

List the base channel associated with an activation key.

```
usage: activationkey_listbasechannel KEY
```

### 3.5.1.19. activationkey\_listchildchannels

List child channels associated with an activation key.

```
usage: activationkey_listchildchannels KEY
```

### 3.5.1.20. activationkey\_listconfigchannels

List configuration channels associated with an activation key.

```
usage: activationkey_listconfigchannels KEY
```

### 3.5.1.21. activationkey\_listentitlements

List entitlements associated with an activation key.

```
usage: activationkey_listentitlements KEY
```

#### 3.5.1.22. activationkey\_listgroups

List groups associated with an activation key

```
usage: activationkey_listgroups KEY
```

#### 3.5.1.23. activationkey\_listpackages

List packages associated with an activation key.

```
usage: activationkey_listpackages KEY
```

#### 3.5.1.24. activationkey\_listsystems

List systems registered with an activation key.

```
usage: activationkey_listsystems KEY
```

#### 3.5.1.25. activationkey\_removechildchannels

Remove child channels from an activation key.

```
usage: activationkey_removechildchannels KEY <CHANNEL ...>
```

#### 3.5.1.26. activationkey\_removeconfigchannels

Remove configuration channels from an activation key.

```
usage: activationkey_removeconfigchannels KEY <CHANNEL ...>
```

#### 3.5.1.27. activationkey\_removeentitlements

Remove entitlements from an activation key.

```
usage: activationkey_removeentitlements KEY <ENTITLEMENT ...>
```

#### 3.5.1.28. activationkey\_removegroups

Remove groups from an activation key.

```
usage: activationkey_removegroups KEY <GROUP ...>
```

#### 3.5.1.29. activationkey\_removepackages

Remove packages from an activation key.

```
usage: activationkey_removepackages KEY <PACKAGE ...>
```

#### 3.5.1.30. activationkey\_setbasechannel

Set the base channel for an activation key.

```
usage: activationkey_setbasechannel KEY CHANNEL
```

#### 3.5.1.31. activationkey\_setconfigchannelorder

Set the ranked order of configuration channels.

```
usage: activationkey_setconfigchannelorder KEY
```

#### 3.5.1.32. activationkey\_setcontactmethod

Set the contact method to use for systems registered with a specific key. (Use the XML-RPC API to access the latest contact methods.)

```
usage: activationkey_setcontactmethod KEY CONTACT_METHOD
```

#### 3.5.1.33. activationkey\_setdescription

Add a description for an activation key.

```
usage: activationkey_setdescription KEY DESCRIPTION
```

#### 3.5.1.34. activationkey\_setuniversaldefault

Set a specific key as the universal default.

```
usage: activationkey_setuniversaldefault KEY
```



Using a universal default key is not a Best Practice recommendation.

### 3.5.2. api

The following API command and its options are available for calling the XML-RPC API directly. Calling the API directly allows you to use the latest features in Uyuni from the command-line using spacecmd as a wrapper for stand-alone commands or used from within scripts.

To gain access to the latest feature additions call **api api.getApiCallList** from within spacecmd to list all currently available API commands formatted in json.

#### 3.5.2.1. api\_

Call XML-RPC API with arguments directly.

```
usage: api [options] API_STRING

options:
  -A, --args Arguments for the API other than session id in comma separated
              strings or JSON expression
  -F, --format Output format
  -o, --output Output file

examples:
  api api.getApiCallList
  api --args "sysgroup_A" systemgroup.listSystems
  api -A "rhel-i386-server-5,2011-04-01,2011-05-01" -F "%(name)s" \
      channel.software.listAllPackages
```

### 3.5.3. clear

Clears the terminal screen.

### 3.5.4. clear\_caches

Clear the internal caches kept for systems and packages.

```
usage: clear_caches
```

### 3.5.5. configchannel

The following spacecmd commands are available for use with configuration channels.

#### 3.5.5.1. configchannel\_addfile

Creates a configuration file.

```
usage: configchannel_addfile [CHANNEL] [options]
```



```
options:
  -c CHANNEL
  -p PATH
  -r REVISION
  -o OWNER [default: root]
  -g GROUP [default: root]
  -m MODE [default: 0644]
  -x SELINUX_CONTEXT
  -d path is a directory
  -s path is a symlink
  -b path is a binary (or other file which needs base64 encoding)
  -t SYMLINK_TARGET
  -f local path to file contents
```

Note re binary/base64: Some text files, notably those containing trailing newlines, those containing ASCII escape characters (or other characters not allowed in XML) need to be sent as binary (-b). Some effort is made to auto-detect files which require this, but you may need to explicitly specify.

### 3.5.5.2. configchannel\_backup

Backup a configuration channel.

```
usage: configchannel_backup CHANNEL [OUTDIR]

OUTDIR defaults to $HOME/spacecmd-backup/configchannel/YYYY-MM-DD/CHANNEL
```

### 3.5.5.3. configchannel\_clone

Clone configuration channels.

```
usage examples:
    configchannel_clone foo_label -c bar_label
    configchannel_clone foo_label1 foo_label2 -c prefix
    configchannel_clone foo_label -x "s/foo/bar"
    configchannel_clone foo_label1 foo_label2 -x "s/foo/bar"
```

options:

- c CLONE\_LABEL : name/label of the resulting cc (note does not update description, see -x option), treated as a prefix if multiple keys are passed
- x "s/foo/bar" : Optional regex replacement, replaces foo with bar in the clone name, label and description

Note : If no -c or -x option is specified, interactive is assumed

### 3.5.5.4. configchannel\_create

Create a configuration channel.

```
usage: configchannel_create [options]

options:
  -n NAME
  -l LABEL
  -d DESCRIPTION
```

#### 3.5.5.5. configchannel\_delete

Delete a configuration channel.

```
usage: configchannel_delete CHANNEL ...
```

#### 3.5.5.6. configchannel\_details

Show the details of a configuration channel.

```
usage: configchannel_details CHANNEL ...
```

#### 3.5.5.7. configchannel\_diff

Find differences between configuration channels.

```
usage: configchannel_diff SOURCE_CHANNEL TARGET_CHANNEL
```

#### 3.5.5.8. configchannel\_export

Export configuration channels to a json formatted file.

```
usage: configchannel_export <CHANNEL>... [options]
options:
  -f outfile.json : specify an output filename, defaults to <CHANNEL>.json
                    if exporting a single channel, ccs.json for multiple
                    channels, or cc_all.json if no CHANNEL specified
                    e.g (export ALL)
```

Note : CHANNEL list is optional, default is to export ALL

#### 3.5.5.9. configchannel\_filedetails

Show the details of a file in a configuration channel.

```
usage: configchannel_filedetails CHANNEL FILE [REVISION]
```

#### 3.5.5.10. configchannel\_forcedeploy

Forces a redeployment of files within a channel on all subscribed systems.

```
usage: configchannel_forcedeploy CHANNEL
```

#### 3.5.5.11. configchannel\_import

Import configuration channels from a json file.

```
usage: configchannel_import <JSONFILES...>
```

#### 3.5.5.12. configchannel\_list

List all configuration channels.

```
usage: configchannel_list
```

#### 3.5.5.13. configchannel\_listfiles

List all files in a configuration channel.

```
usage: configchannel_listfiles CHANNEL ...
```

#### 3.5.5.14. configchannel\_listsystems

List all systems subscribed to a configuration channel.

```
usage: configchannel_listsystems CHANNEL
```

#### 3.5.5.15. configchannel\_removefiles

Remove configuration files.

```
usage: configchannel_removefile CHANNEL <FILE ...>
```

#### 3.5.5.16. configchannel\_sync

Sync configuration files between two configuration channels.

```
usage: configchannel_sync SOURCE_CHANNEL TARGET_CHANNEL
```

#### 3.5.5.17. configchannel\_updatefile

Update a configuration file.

```
usage: configchannel_updatefile CHANNEL FILE
```

#### 3.5.5.18. configchannel\_verifyfile

Verify a configuration file.

```
usage: configchannel_verifyfile CHANNEL FILE <SYSTEMS>

<SYSTEMS> may be substituted with any of the following targets:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.6. cryptokey

The following spacecmd commands are available for use with cryptographic keys.

#### 3.5.6.1. cryptokey\_create

Create a cryptographic key.

```
usage: cryptokey_create [options]

options:
  -t GPG or SSL
  -d DESCRIPTION
  -f KEY_FILE
```

#### 3.5.6.2. cryptokey\_delete

Delete a cryptographic key.

```
usage: cryptokey_delete NAME
```

#### 3.5.6.3. cryptokey\_details

Show the contents of a cryptographic key.

```
usage: cryptokey_details KEY ...
```

#### 3.5.6.4. cryptokey\_list

List all cryptographic keys (SSL, GPG).

```
usage: cryptokey_list
```

### 3.5.7. custominfo

The following spacecmd commands are available for working with custom keys.

#### 3.5.7.1. custominfo\_createkey

Create a custom key.

```
usage: custominfo_createkey [NAME] [DESCRIPTION]
```

#### 3.5.7.2. custominfo\_deletekey

Delete a custom key.

```
usage: custominfo_deletekey KEY ...
```

#### 3.5.7.3. custominfo\_details

Show the details of a custom key.

```
usage: custominfo_details KEY ...
```

#### 3.5.7.4. custominfo\_listkeys

List all custom keys.

```
usage: custominfo_listkeys
```

#### 3.5.7.5. custominfo\_updatekey

Update a custom key.

```
usage: custominfo_updatekey [NAME] [DESCRIPTION]
```

### 3.5.8. distribution

The following spacecmd commands are available for working with kickstart distributions.

#### 3.5.8.1. distribution\_create

Create a Kickstart tree.

```
usage: distribution_create [options]  
options:
```

```
-n NAME
-p path to tree
-b base channel to associate with
-t install type [fedora|rhel_4/5/6|suse|generic_rpm]
```

### 3.5.8.2. `distribution_delete`

Delete a Kickstart tree.

```
usage: distribution_delete LABEL
```

### 3.5.8.3. `distribution_details`

Show the details of a Kickstart tree.

```
usage: distribution_details LABEL
```

### 3.5.8.4. `distribution_list`

List the available autoinstall trees.

```
usage: distribution_list
```

### 3.5.8.5. `distribution_rename`

Rename a Kickstart tree.

```
usage: distribution_rename OLDNAME NEWNAME
```

### 3.5.8.6. `distribution_update`

Update the path of a Kickstart tree.

```
usage: distribution_update NAME [options]

options:
  -p path to tree
  -b base channel to associate with
  -t install type [fedora|rhel_4/5/6|suse|generic_rpm]
```

## 3.5.9. `errata`

The following spacecmd commands are available for use with errata data.

### 3.5.9.1. `errata_apply`

Apply an patch to all affected systems.

```
usage: errata_apply ERRATA|search:XXX ...
```

#### 3.5.9.2. errata\_delete

Delete an patch.

```
usage: errata_delete ERRATA|search:XXX ...
```

#### 3.5.9.3. errata\_details

Show the details of an patch.

```
usage: errata_details ERRATA|search:XXX ...
```

#### 3.5.9.4. errata\_findbycve

List errata addressing a CVE.

```
usage: errata_findbycve CVE-YYYY-NNNN ...
```

#### 3.5.9.5. errata\_list

List all patches.

```
usage: errata_list
```

#### 3.5.9.6. errata\_listaffectedsystems

List of systems affected by an patch.

```
usage: errata_listaffectedsystems ERRATA|search:XXX ...
```

#### 3.5.9.7. errata\_listcves

List of CVEs addressed by an patch.

```
usage: errata_listcves ERRATA|search:XXX ...
```

#### 3.5.9.8. errata\_publish

Publish a patch to a channel.

```
usage: errata_publish ERRATA|search:XXX <CHANNEL ...>
```

#### 3.5.9.9. errata\_search

List patches that meet user provided criteria

```
usage: errata_search CVE|RHSA|RHBA|RHEA|CLA ...
```

Example:

```
> errata_search CVE-2009:1674  
> errata_search RHSA-2009:1674
```

#### 3.5.9.10. errata\_summary

Print a summary of all errata.

```
usage: errata_summary
```

### 3.5.10. filepreservation

The following spacecmd commands are available for working with kickstart file preservation lists.

#### 3.5.10.1. filepreservation\_create

Create a file preservation list.

```
usage: filepreservation_create [NAME] [FILE ...]
```

#### 3.5.10.2. filepreservation\_delete

Delete a file preservation list.

```
filepreservation_delete NAME
```

#### 3.5.10.3. filepreservation\_details

Show the details of a file preservation list.

```
usage: filepreservation_details NAME
```

#### 3.5.10.4. filepreservation\_list



List all file preservations.

```
usage: filepreservation_list
```

### 3.5.11. get

The following spacecmd commands are available for use with get.

#### 3.5.11.1. get\_apiversion

Display the API version of the server.

```
usage: get_apiversion
```

#### 3.5.11.2. get\_certificateexpiration

Print the expiration date of the server's entitlement certificate.

```
usage: get_certificateexpiration
```

#### 3.5.11.3. get\_serverversion

Display Uyuni server version.

```
usage: get_serverversion
```

#### 3.5.11.4. get\_session

Show the current session string.

```
usage: get_session
```

### 3.5.12. group

#### 3.5.12.1. group\_addsystems

Add systems to a group.

```
usage: group_addsystems GROUP <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
```

```
group:GROUP  
channel:CHANNEL
```

#### 3.5.12.2. group\_backup

Backup a system group.

```
usage: group_backup NAME [OUTDIR]  
OUTDIR defaults to $HOME/spacecmd-backup/group/YYYY-MM-DD/NAME
```

#### 3.5.12.3. group\_create

Create a system group.

```
usage: group_create [NAME] [DESCRIPTION]
```

#### 3.5.12.4. group\_delete

Delete a system group.

```
usage: group_delete NAME ...
```

#### 3.5.12.5. group\_details

Show the details of a system group.

```
usage: group_details GROUP ...
```

#### 3.5.12.6. group\_list

List available system groups.

```
usage: group_list
```

#### 3.5.12.7. group\_listsystems

List the members of a group.

```
usage: group_listsystems GROUP
```

#### 3.5.12.8. group\_removesystems

Remove systems from a group.

```
usage: group_removesystems GROUP <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.12.9. group\_restore

Restore a system group.

```
usage: group_backup INPUTDIR [NAME] ...
```

### 3.5.13. kickstart

The following spacecmd functions are available for use with kickstart.

#### 3.5.13.1. kickstart\_addactivationkeys

Add activation keys to a Kickstart profile.

```
usage: kickstart_addactivationkeys PROFILE <KEY ...>
```

#### 3.5.13.2. kickstart\_addchildchannels

Add a child channels to a Kickstart profile.

```
usage: kickstart_addchildchannels PROFILE <CHANNEL ...>
```

#### 3.5.13.3. kickstart\_addcryptokeys

Add cryptography keys to a Kickstart profile.

```
usage: kickstart_addcryptokeys PROFILE <KEY ...>
```

#### 3.5.13.4. kickstart\_addfilepreservations

Add file preservations to a Kickstart profile.

```
usage: kickstart_addfilepreservations PROFILE <FILELIST ...>
```

### 3.5.13.5. kickstart\_addoption

Set an option for a Kickstart profile.

```
usage: kickstart_addoption PROFILE KEY [VALUE]
```

### 3.5.13.6. kickstart\_addpackages

Add packages to a Kickstart profile.

```
usage: kickstart_addpackages PROFILE <PACKAGE ...>
```

### 3.5.13.7. kickstart\_addscript

Add a script to a Kickstart profile.

```
usage: kickstart_addscript PROFILE [options]
```

options:

- p PROFILE
- e EXECUTION\_TIME ['pre', 'post']
- i INTERPRETER
- f FILE
- c execute in a chroot environment
- t ENABLING\_TEMPLATING

### 3.5.13.8. kickstart\_addvariable

Add a variable to a Kickstart profile.

```
usage: kickstart_addvariable PROFILE KEY VALUE
```

### 3.5.13.9. kickstart\_clone

Clone a Kickstart profile.

```
usage: kickstart_clone [options]
```

options:

- n NAME
- c CLONE\_NAME

### 3.5.13.10. kickstart\_create

Create a Kickstart profile.

```
usage: kickstart_create [options]
```

```
options:
  -n NAME
  -d DISTRIBUTION
  -p ROOT_PASSWORD
  -v VIRT_TYPE ['none', 'para_host', 'qemu', 'xenfv', 'xenpv']
```

#### 3.5.13.11. kickstart\_delete

Delete kickstart profiles.

```
usage: kickstart_delete PROFILE
usage: kickstart_delete PROFILE1 PROFILE2
usage: kickstart_delete "PROF*"
```

#### 3.5.13.12. kickstart\_details

Show the details of a Kickstart profile.

```
usage: kickstart_details PROFILE
```

#### 3.5.13.13. kickstart\_diff

List differences between two kickstart files.

```
usage: kickstart_diff SOURCE_CHANNEL TARGET_CHANNEL
```

#### 3.5.13.14. kickstart\_disableconfigmanagement

Disable configuration management on a Kickstart profile.

```
usage: kickstart_disableconfigmanagement PROFILE
```

#### 3.5.13.15. kickstart\_disableremotecommands

Disable remote commands on a Kickstart profile.

```
usage: kickstart_disableremotecommands PROFILE
```

#### 3.5.13.16. kickstart\_enableconfigmanagement

Enable configuration management on a Kickstart profile.

```
usage: kickstart_enableconfigmanagement PROFILE
```

### 3.5.13.17. kickstart\_enablelogging

Enable logging for a Kickstart profile.

```
usage: kickstart_enablelogging PROFILE
```

### 3.5.13.18. kickstart\_enableremotecommands

Enable remote commands on a Kickstart profile.

```
usage: kickstart_enableremotecommands PROFILE
```

### 3.5.13.19. kickstart\_export

Export kickstart profiles to json formatted file.

```
usage: kickstart_export <KSPROFILE>... [options]
options:
  -f outfile.json : specify an output filename, defaults to <KSPROFILE>.json
                    if exporting a single kickstart, profiles.json for multiple
                    kickstarts, or ks_all.json if no KSPROFILE specified
                    e.g (export ALL)
```

Note : KSPROFILE list is optional, default is to export ALL

### 3.5.13.20. kickstart\_getcontents

Show the contents of a Kickstart profile as they would be presented to a client.

```
usage: kickstart_getcontents LABEL
```

### 3.5.13.21. kickstart\_getsoftwaredetails

Gets kickstart profile software details.

```
usage: kickstart_getsoftwaredetails KS_LABEL
usage: kickstart_getsoftwaredetails KS_LABEL KS_LABEL2 ...
```

### 3.5.13.22. kickstart\_getupdatetype

Get the update type for a kickstart profiles.

```
usage: kickstart_getupdatetype PROFILE
usage: kickstart_getupdatetype PROFILE1 PROFILE2
usage: kickstart_getupdatetype "PROF*"
```

### 3.5.13.23. kickstart\_import

Import a Kickstart profile from a file.

```
usage: kickstart_import [options]

options:
  -f FILE
  -n NAME
  -d DISTRIBUTION
  -v VIRT_TYPE ['none', 'para_host', 'qemu', 'xenfv', 'xenpv']
```

### 3.5.13.24. kickstart\_import\_raw

Import a raw Kickstart or AutoYaST profile from a file.

```
usage: kickstart_import_raw [options]

options:
  -f FILE
  -n NAME
  -d DISTRIBUTION
  -v VIRT_TYPE ['none', 'para_host', 'qemu', 'xenfv', 'xenpv']
```

### 3.5.13.25. kickstart\_importjson

Import kickstart profiles from json file.

```
usage: kickstart_import <JSONFILES...>
```

### 3.5.13.26. kickstart\_list

List the available Kickstart profiles.

```
usage: kickstart_list
```

### 3.5.13.27. kickstart\_listactivationkeys

List the activation keys associated with a Kickstart profile.

```
usage: kickstart_listactivationkeys PROFILE
```

### 3.5.13.28. kickstart\_listchildchannels

List the child channels of a Kickstart profile.

```
usage: kickstart_listchildchannels PROFILE
```

#### 3.5.13.29. [kickstart\\_listcryptokeys](#)

List the crypto keys associated with a Kickstart profile.

```
usage: kickstart_listcryptokeys PROFILE
```

#### 3.5.13.30. [kickstart\\_listcustomoptions](#)

List the custom options of a Kickstart profile.

```
usage: kickstart_listcustomoptions PROFILE
```

#### 3.5.13.31. [kickstart\\_listoptions](#)

List the options of a Kickstart profile.

```
usage: kickstart_listoptions PROFILE
```

#### 3.5.13.32. [kickstart\\_listpackages](#)

List the packages for a Kickstart profile.

```
usage: kickstart_listpackages PROFILE
```

#### 3.5.13.33. [kickstart\\_listscripts](#)

List the scripts for a Kickstart profile.

```
usage: kickstart_listscripts PROFILE
```

#### 3.5.13.34. [kickstart\\_listvariables](#)

List the variables of a Kickstart profile.

```
usage: kickstart_listvariables PROFILE
```

#### 3.5.13.35. [kickstart\\_removeactivationkeys](#)

Remove activation keys from a Kickstart profile.



```
usage: kickstart_removeactivationkeys PROFILE <KEY ...>
```

#### 3.5.13.36. kickstart\_removechildchannels

Remove child channels from a Kickstart profile.

```
usage: kickstart_removechildchannels PROFILE <CHANNEL ...>
```

#### 3.5.13.37. kickstart\_removecryptokeys

Remove crypto keys from a Kickstart profile.

```
usage: kickstart_removecryptokeys PROFILE <KEY ...>
```

#### 3.5.13.38. kickstart\_removefilepreservations

Remove file preservations from a Kickstart profile.

```
usage: kickstart_removefilepreservations PROFILE <FILE ...>
```

#### 3.5.13.39. kickstart\_removeoptions

Remove options from a Kickstart profile.

```
usage: kickstart_removeoptions PROFILE <OPTION ...>
```

#### 3.5.13.40. kickstart\_removepackages

Remove packages from a Kickstart profile.

```
usage: kickstart_removepackages PROFILE <PACKAGE ...>
```

#### 3.5.13.41. kickstart\_removescript

Add a script to a Kickstart profile.

```
usage: kickstart_removescript PROFILE [ID]
```

#### 3.5.13.42. kickstart\_removevariables

Remove variables from a Kickstart profile.

```
usage: kickstart_removevariables PROFILE <KEY ...>
```

#### 3.5.13.43. kickstart\_rename

Rename a Kickstart profile

```
usage: kickstart_rename OLDNAME NEWNAME
```

#### 3.5.13.44. kickstart\_setcustomoptions

Set custom options for a Kickstart profile.

```
usage: kickstart_setcustomoptions PROFILE
```

#### 3.5.13.45. kickstart\_setdistribution

Set the distribution for a Kickstart profile.

```
usage: kickstart_setdistribution PROFILE DISTRIBUTION
```

#### 3.5.13.46. kickstart\_setlocale

Set the locale for a Kickstart profile.

```
usage: kickstart_setlocale PROFILE LOCALE
```

#### 3.5.13.47. kickstart\_setpartitions

Set the partitioning scheme for a Kickstart profile.

```
usage: kickstart_setpartitions PROFILE
```

#### 3.5.13.48. kickstart\_setselinux

Set the SELinux mode for a Kickstart profile.

```
usage: kickstart_setselinux PROFILE MODE
```

#### 3.5.13.49. kickstartsetupdatetype

Set the update type for a kickstart profiles.

```
usage: kickstartsetupdatetype [options] KS_LABEL
options:
  -u UPDATE_TYPE ['red_hat', 'all', 'none']
```

### 3.5.13.50. kickstart\_updatevariable

Update a variable in a Kickstart profile.

```
usage: kickstart_updatevariable PROFILE KEY VALUE
```

## 3.5.14. list\_proxies

The following spacecmd function is available for listing proxies.

### 3.5.14.1. list\_proxies

List the proxies within the user's organization.

```
usage: list_proxies
```

## 3.5.15. login

Connect as a specific user to the SUSE manager server.

```
# spacecmd -- login <USERNAME>
```

## 3.5.16. logout

Logout from server as the current user.

```
# spacecmd -- logout
```

## 3.5.17. org

The following **spacecmd** functions are available for use with organizations.

### 3.5.17.1. org\_addtrust

Add a trust between two organizations

```
usage: org_addtrust YOUR_ORG ORG_TO_TRUST
```

### 3.5.17.2. org\_create

Create an organization.

```
usage: org_create [options]

options:
  -n ORG_NAME
  -u USERNAME
  -P PREFIX (Dr., Mr., Miss, Mrs., Ms.)
  -f FIRST_NAME
  -l LAST_NAME
  -e EMAIL
  -p PASSWORD
  --pam enable PAM authentication
```

### 3.5.17.3. org\_createfirst

Create the initial organization and admin user after completing the installation.

```
usage: org_createfirst [options]

options:
  -n ORG_NAME
  -u USERNAME
  -f FIRST_NAME
  -l LAST_NAME
  -e EMAIL
  -p PASSWORD
```

### 3.5.17.4. org\_delete

Delete an organization.

```
usage: org_delete NAME
```

### 3.5.17.5. org\_details

Show the details of an organization.

```
usage: org_details NAME
```

### 3.5.17.6. org\_list

List all organizations.

```
usage: org_list
```

### 3.5.17.7. org\_listtrusts

List an organization's trusts.

```
org_listtrusts NAME
```

#### 3.5.17.8. org\_listusers

List an organization's users.

```
org_listusers NAME
```

#### 3.5.17.9. org\_remove trust

Remove a trust between two organizations.

```
usage: org_remove trust YOUR_ORG TRUSTED_ORG
```

#### 3.5.17.10. org\_rename

Rename an organization.

```
usage: org_rename OLDNAME NEWNAME
```

#### 3.5.17.11. org\_trustdetails

Show the details of an organizational trust.

```
usage: org_trustdetails TRUSTED_ORG
```

### 3.5.18. package

The following spacecmd functions are available for working with packages.

#### 3.5.18.1. package\_details

Show the details of a software package.

```
usage: package_details PACKAGE ...
```

#### 3.5.18.2. package\_listdependencies

List the dependencies for a package.

```
usage: package_listdependencies PACKAGE
```

#### 3.5.18.3. `package_listerrata`

List the errata that provide this package.

```
usage: package_listerrata PACKAGE ...
```

#### 3.5.18.4. `package_listinstalledsystems`

List the systems with a package installed.

```
usage: package_listinstalledsystems PACKAGE ...
```

#### 3.5.18.5. `package_listorphans`

List packages that are not in a channel.

```
usage: package_listorphans
```

#### 3.5.18.6. `package_remove`

Remove a package from Uyuni/Satellite

```
usage: package_remove PACKAGE ...
```

#### 3.5.18.7. `package_removeorphans`

Remove packages that are not in a channel.

```
usage: package_removeorphans
```

#### 3.5.18.8. `package_search`

Find packages that meet the given criteria.

```
usage: package_search NAME|QUERY
```

```
Example: package_search kernel
```

## Advanced Search

Available Fields: name, epoch, version, release, arch, description, summary

Example: name:kernel AND version:2.6.18 AND -description:devel

### 3.5.19. proxy\_container\_config

The following spacecmd functions are available for use with proxy container configuration

#### 3.5.19.1. proxy\_container\_config\_generate\_cert

Create Uyuni Proxy container configuration and generate new SSL server certificate for it.

```
usage: proxy_container_config_generate_cert PROXY_FQDN PARENT_FQDN MAX_CACHE EMAIL

parameters:
  PROXY_FQDN  the fully qualified domain name of the proxy to create.
  PARENT_FQDN the fully qualified domain name of the server or another proxy to connect to.
  MAX_CACHE   the maximum cache size in MB. 60% of the storage is a good value.
  EMAIL       the email of the proxy administrator

options:
  -o, --output Path where to create the generated configuration. Default: 'config.zip'
  -p, --ssh-port SSH port the proxy listens one. Default: 22
  --ca-crt path to the certificate of the CA to use to generate a new proxy certificate.
           Using /root/ssl-build/RHN-ORG-TRUSTED-SSL-CERT by default.
  --ca-key path to the private key of the CA to use to generate a new proxy certificate.
           Using /root/ssl-build/RHN-ORG-PRIVATE-SSL-KEY by default.
  --ca-pass path to a file containing the password of the CA private key, will be prompted if
not passed.
  --ssl-cname alternate name of the proxy to set in the certificate. Can be provided multiple
times
  --ssl-country country code to set in the certificate. If omitted, default values from mgr-
ssl-tool will be used.
  --ssl-state state name to set in the certificate. If omitted, default values from mgr-ssl-
tool will be used.
  --ssl-city the city name to set in the certificate. If omitted, default values from mgr-
ssl-tool will be used.
  --ssl-org the organization name to set in the certificate. If omitted, default values from
mgr-ssl-tool will be used.
  --ssl-org-unit the organization unit name to set in the certificate. If omitted, default
values from mgr-ssl-tool will be used.
  --ssl-email the email to set in the certificate. If omitted, default values from mgr-ssl-
tool will be used.
```

#### 3.5.19.2. proxy\_container\_config

Create Uyuni Proxy container configuration and use already existing SSL server certificate.

```
usage: proxy_container_config [options] PROXY_FQDN PARENT_FQDN MAX_CACHE EMAIL ROOT_CA CRT
KEY

parameters:
  PROXY_FQDN  the fully qualified domain name of the proxy to create.
  PARENT_FQDN the fully qualified domain name of the server or another proxy to connect to.
  MAX_CACHE   the maximum cache size in MB. 60% of the storage is a good value.
```

```
EMAIL    the email of the proxy administrator
CA       path to the root CA used to sign the proxy certificate in PEM format
CRT      path to the proxy certificate in PEM format
KEY      path to the proxy certificate private key in PEM format
```

## options:

```
-o, --output Path where to create the generated configuration. Default: 'config.zip'
-p, --ssh-port SSH port the proxy listens one. Default: 22
-i, --intermediate-ca Path to an intermediate CA used to sign the proxy
                    certificate in PEM format. May be provided multiple times.
```

### 3.5.20. repo

The following spacecmd functions are available for working with repositories.

#### 3.5.20.1. repo\_addfilters

Add filters for a user repository.

```
usage: repo_addfilters repo <filter ...>
```

#### 3.5.20.2. repo\_clearfilters

Clears the filters for a user repository.

```
usage: repo_clearfilters repo
```

#### 3.5.20.3. repo\_create

Create a user repository.

```
usage: repo_create <options>

options:
  -n, --name    name of repository
  -u, --url     url of repository

  --ca         SSL CA certificate (not required)
  --cert       SSL Client certificate (not required)
  --key        SSL Client key (not required)
```

#### 3.5.20.4. repo\_delete

Delete a user repository.

```
usage: repo_delete <repo ...>
```

#### 3.5.20.5. repo\_details



Show the details of a user repository.

```
usage: repo_details <repo ...>
```

#### 3.5.20.6. repo\_list

List all available user repository.

```
usage: repo_list
```

#### 3.5.20.7. repo\_listfilters

Show the filters for a user repository.

```
usage: repo_listfilters repo
```

#### ===repo\_removefilters

Remove filters from a user repository.

```
usage: repo_removefilters repo <filter ...>
```

#### 3.5.20.8. repo\_rename

Rename a user repository.

```
usage: repo_rename OLDNAME NEWNAME
```

#### 3.5.20.9. repo\_setfilters

Set the filters for a user repo.

```
usage: repo_setfilters repo <filter ...>
```

#### 3.5.20.10. repo\_updatessl

Change the SSL certificates of a user repository.

```
usage: repo_updatessl <options>
options:
  --ca          SSL CA certificate (not required)
  --cert        SSL Client certificate (not required)
```

```
--key      SSL Client key (not required)
```

### 3.5.20.11. repo\_updateurl

Change the URL of a user repository.

```
usage: repo_updateurl <repo> <url>
```

## 3.5.21. report

The following spacecmd functions are available for working with reports.

### 3.5.21.1. report\_duplicates

List duplicate system profiles.

```
usage: report_duplicates
```

### 3.5.21.2. report\_errata

List all errata and how many systems they affect.

```
usage: report_errata [ERRATA|search:XXX ...]
```

### 3.5.21.2.1. report\_inactivesystems

List all inactive systems.

```
usage: report_inactivesystems [DAYS]
```

### 3.5.21.3. report\_ipaddresses

List the hostname and IP of each system.

```
usage: report_network [<SYSTEMS>]

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.21.4. report\_kernels

List the running kernel of each system.

```
usage: report_kernels [<SYSTEMS>]

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.21.5. report\_outofdatesystems

List all out-of-date systems.

```
usage: report_outofdatesystems
```

#### 3.5.21.6. report\_ungroupedsystems

List all ungrouped systems.

```
usage: report_ungroupedsystems
```

### 3.5.22. scap

The following spacecmd functions are available for working with OpenSCAP.

#### 3.5.22.1. scap\_getxccdfscandetails

Get details of given OpenSCAP XCCDF scan.

```
usage: scap_getxccdfscandetails <XID>
```

#### 3.5.22.2. scap\_getxccdfscanruleresults

Return a full list of RuleResults for given OpenSCAP XCCDF scan.

```
usage: scap_getxccdfscanruleresults <XID>
```

#### 3.5.22.3. scap\_listxccdfscans

Return a list of finished OpenSCAP scans for given systems.

```
usage: scap_listxccdfscans <SYSTEMS>
```

#### 3.5.22.4. scap\_scheduledxccdfscan

Schedule Scap XCCDF scan.

```
usage: scap_scheduledxccdfscan PATH_TO_XCCDF_FILE XCCDF_OPTIONS SYSTEMS

Example:
> scap_scheduledxccdfscan '/usr/share/openscap/scap-security-xccdf.xml' 'profile Web-Default'
\
system-scap.example.com
```

### 3.5.23. schedule

The following spacecmd functions are available for working with scheduling.

#### 3.5.23.1. schedule\_cancel

Cancel a scheduled action.

```
usage: schedule_cancel ID|* ...
```

#### 3.5.23.2. schedule\_details

Show the details of a scheduled action.

```
usage: schedule_details ID
```

#### 3.5.23.3. schedule\_getoutput

Show the output from an action.

```
usage: schedule_getoutput ID
```

#### 3.5.23.4. schedule\_list

List all actions.

```
usage: schedule_list [BEGINDATE] [ENDDATE]

Dates can be any of the following:
Explicit Dates:
Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format.
The year, month and day are required, while the hours and minutes are not; the hours and
minutes will default to 0000 if no values are provided.

Deltas:
Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future.
You can also use negative values to express times in the past (e.g., -7d would be one week
ago).
```

Units:  
 s -> seconds  
 m -> minutes  
 h -> hours  
 d -> days

### 3.5.23.5. `schedule_listarchived`

List archived actions.

usage: `schedule_listarchived [BEGINDATE] [ENDDATE]`

Dates can be any of the following:

Explicit Dates:

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format.

The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

Deltas:

Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future. You can also use negative values to express times in the past (e.g., -7d would be one week ago).

Units:

s -> seconds  
 m -> minutes  
 h -> hours  
 d -> days

### 3.5.23.6. `schedule_listcompleted`

List completed actions.

Dates can be any of the following:

Explicit Dates:

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format.

The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

Deltas:

Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future. You can also use negative values to express times in the past (e.g., -7d would be one week ago).

Units:

s -> seconds  
 m -> minutes  
 h -> hours  
 d -> days

### 3.5.23.7. `schedule_listfailed`

List failed actions.

usage: `schedule_listfailed [BEGINDATE] [ENDDATE]`

Dates can be any of the following:

Explicit Dates:

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format.

The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

Deltas:

Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future.

You can also use negative values to express times in the past (e.g., -7d would be one week ago).

Units:

s -> seconds

m -> minutes

h -> hours

d -> days

### 3.5.23.8. `schedule_listpending`

List pending actions.

```
usage: schedule_listpending [BEGINDATE] [ENDDATE]
```

Dates can be any of the following:

Explicit Dates:

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format.

The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

Deltas:

Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future.

You can also use negative values to express times in the past (e.g., -7d would be one week ago).

Units:

s -> seconds

m -> minutes

h -> hours

d -> days

### 3.5.23.9. `schedule_reschedule::`

Reschedule failed actions.

```
usage: schedule_reschedule ID|* ...
```

## 3.5.24. `snippet`

The following spacecmd functions are available for working with Kickstart snippets.

### 3.5.24.1. `snippet_create`

Create a Kickstart snippet

```
usage: snippet_create [options]

options:
  -n NAME
  -f FILE
```

#### 3.5.24.2. snippet\_delete

Delete a Kickstart snippet.

```
usage: snippet_removefile NAME
```

#### 3.5.24.3. snippet\_details

Show the contents of a snippet.

```
usage: snippet_details SNIPPET ...
```

#### 3.5.24.4. snippet\_list

List the available Kickstart snippets.

```
usage: snippet_list
```

#### 3.5.24.5. snippet\_update

Update a Kickstart snippet.

```
usage: snippet_update NAME
```

### 3.5.25. softwarechannel

The following spacecmd functions are available for working with software channels.

#### 3.5.25.1. softwarechannel\_adderrata

Add patches from one channel into another channel.

```
usage: softwarechannel_adderrata SOURCE DEST <ERRATA|search:XXX ...>
Options:
  -q/--quick : Don't display list of packages (slightly faster)
  -s/--skip  : Skip errata which appear to exist already in DEST
```

#### 3.5.25.2. softwarechannel\_adderratabydate

Add errata from one channel into another channel based on a date range.

```
usage: softwarechannel_adderratabydate [options] SOURCE DEST BEGINDATE ENDDATE
Date format : YYYYMMDD
Options:
  -p/--publish : Publish errata to the channel (don't clone)
```

### 3.5.25.3. softwarechannel\_addpackages

Add packages to a software channel.

```
usage: softwarechannel_addpackages CHANNEL <PACKAGE ...>
```

### 3.5.25.4. softwarechannel\_addrepo

Add a repo to a software channel.

```
usage: softwarechannel_addrepo CHANNEL REPO
```

### 3.5.25.5. softwarechannel\_clone

Clone a software channel.

```
usage: softwarechannel_clone [options]

options:
  -s SOURCE_CHANNEL
  -n NAME
  -l LABEL
  -p PARENT_CHANNEL
  --gpg-copy/-g (copy SOURCE_CHANNEL GPG details)
  --gpg-url GPG_URL
  --gpg-id GPG_ID
  --gpg-fingerprint GPG_FINGERPRINT
  -o do not clone any patches
  --regex/-x "s/foo/bar" : Optional regex replacement,
                           replaces foo with bar in the clone name and label
```

### 3.5.25.6. softwarechannel\_clonetree

Clone a software channel and its child channels.

```
usage: softwarechannel_clonetree [options]A
      e.g   softwarechannel_clonetree foobasechannel -p "my_"
             softwarechannel_clonetree foobasechannel -x "s/foo/bar"
             softwarechannel_clonetree foobasechannel -x "s/^/my_"

options:
  -s/--source-channel SOURCE_CHANNEL
  -p/--prefix PREFIX (is prepended to the label and name of all channels)
  --gpg-copy/-g (copy GPG details for corresponding source channel))
```



```
--gpg-url GPG_URL (applied to all channels)
--gpg-id GPG_ID (applied to all channels)
--gpg-fingerprint GPG_FINGERPRINT (applied to all channels)
-o do not clone any errata
--regex/-x "s/foo/bar" : Optional regex replacement,
                        replaces foo with bar in the clone name, label and description
```

### 3.5.25.7. softwarechannel\_create

Create a software channel.

```
usage: softwarechannel_create [options]

options:
  -n NAME
  -l LABEL
  -p PARENT_CHANNEL
  -a ARCHITECTURE ['ia32', 'ia64', 'x86_64', 'ppc',
                  'i386-sun-solaris', 'sparc-sun-solaris']
  -c CHECKSUM ['sha1', 'sha256', 'sha384', 'sha512']
  -u GPG_URL
  -i GPG_ID
  -f GPG_FINGERPRINT
```

### 3.5.25.8. softwarechannel\_delete

Delete a software channel.

```
usage: softwarechannel_delete <CHANNEL ...>
```

### 3.5.25.9. softwarechannel\_details

Show the details of a software channel.

```
usage: softwarechannel_details <CHANNEL ...>
```

### 3.5.25.10. softwarechannel\_diff

Check the difference between software channels.

```
usage: softwarechannel_diff SOURCE_CHANNEL TARGET_CHANNEL
```

### 3.5.25.11. softwarechannel\_errata\_diff

Check the difference between software channel files.

```
usage: softwarechannel_errata_diff SOURCE_CHANNEL TARGET_CHANNEL
```

### 3.5.25.12. softwarechannel\_errata\_sync

Sync errata of two software channels.

```
usage: softwarechannel_errata_sync SOURCE_CHANNEL TARGET_CHANNEL
```

### 3.5.25.13. softwarechannel\_getorgaccess

Get the org-access for the software channel.

```
usage : softwarechannel_getorgaccess : get org access for all channels
usage : softwarechannel_getorgaccess <channel_label(s)> : get org access for specific
channel(s)
```

### 3.5.25.14. softwarechannel\_list

List all available software channels.

```
usage: softwarechannel_list [options]'
options:
  -v verbose (display label and summary)
  -t tree view (pretty-print child-channels)
```

### 3.5.25.15. softwarechannel\_listallpackages

List all packages in a channel.

```
usage: softwarechannel_listallpackages CHANNEL
```

### 3.5.25.16. softwarechannel\_listbasechannels

List all base software channels.

```
usage: softwarechannel_listbasechannels [options]
options:
  -v verbose (display label and summary)
```

### 3.5.25.17. softwarechannel\_listchildchannels

List child software channels.

```
usage:
softwarechannel_listchildchannels [options]
softwarechannel_listchildchannels : List all child channels
softwarechannel_listchildchannels CHANNEL : List children for a specific base channel
options:
```

```
-v verbose (display label and summary)
```

#### 3.5.25.18. softwarechannel\_listerrata

List the errata associated with a software channel.

```
usage: softwarechannel_listerrata <CHANNEL ...> [from=yyyymmdd [to=yyyymmdd]]
```

#### 3.5.25.19. softwarechannel\_listerratabydate

List errata from channelbased on a date range.

```
usage: softwarechannel_listerratabydate CHANNEL BEGINDATE ENDDATE
Date format : YYYYMMDD
```

#### 3.5.25.20. softwarechannel\_listlatestpackages

List the newest version of all packages in a channel.

```
usage: softwarechannel_listlatestpackages CHANNEL
```

#### 3.5.25.21. softwarechannel\_listpackages

List the most recent packages available from a software channel.

```
usage: softwarechannel_listpackages CHANNEL
```

#### 3.5.25.22. softwarechannel\_listrepos

List the repos for a software channel.

```
usage: softwarechannel_listrepos CHANNEL
```

#### 3.5.25.23. softwarechannel\_listsynschedule

List sync schedules for all software channels.

```
usage: softwarechannel_listsynschedule : List all channels
```

#### 3.5.25.24. softwarechannel\_listsystems

List all systems subscribed to a software channel.

```
usage: softwarechannel_listsystems CHANNEL
```

#### 3.5.25.25. softwarechannel\_mirrorpackages

Download packages of a given channel.

```
usage: softwarechannel_mirrorpackages CHANNEL
Options:
  -l/--latest : Only mirror latest package version
```

#### 3.5.25.26. softwarechannel\_regenerateneededcache

Regenerate the needed errata and package cache for all systems.

```
usage: softwarechannel_regenerateneededcache
```

#### 3.5.25.27. softwarechannel\_regenerateyumcache

Regenerate the YUM cache for a software channel.

```
usage: softwarechannel_regenerateyumcache <CHANNEL ...>
```

#### 3.5.25.28. softwarechannel\_removeerrata

Remove patches from a software channel.

```
usage: softwarechannel_removeerrata CHANNEL <ERRATA:search:XXX ...>
```

#### 3.5.25.29. softwarechannel\_removepackages

Remove packages from a software channel.

```
usage: softwarechannel_removepackages CHANNEL <PACKAGE ...>
```

#### 3.5.25.30. softwarechannel\_removerepo

Remove a repo from a software channel.

```
usage: softwarechannel_removerepo CHANNEL REPO
```

#### 3.5.25.31. softwarechannel\_removesyncschedule

Removes the repo sync schedule for a software channel.

```
usage: softwarechannel_setsyncschedule <CHANNEL>
```

#### 3.5.25.32. softwarechannel\_setorgaccess

Set the org-access for the software channel.

```
usage : softwarechannel_setorgaccess <channel_label> [options]
-d,--disable : disable org access (private, no org sharing)
-e,--enable : enable org access (public access to all trusted orgs)
```

#### 3.5.25.33. softwarechannel\_setsyncschedule

Sets the repo sync schedule for a software channel.

```
usage: softwarechannel_setsyncschedule <CHANNEL> <SCHEDULE>

The schedule is specified in Quartz CronTrigger format without enclosing quotes.
For example, to set a schedule of every day at 1am, <SCHEDULE> would be 0 0 1 * * ?
```

#### 3.5.25.34. softwarechannel\_sync

Sync the packages of two software channels.

```
usage: softwarechannel_sync SOURCE_CHANNEL TARGET_CHANNEL
```

#### 3.5.25.35. softwarechannel\_syncrepos

Sync users repos for a software channel.

```
usage: softwarechannel_syncrepos <CHANNEL ...>
```

### 3.5.26. ssm

The following spacecmd functions are available for use with the system set manager (SSM).

#### 3.5.26.1. ssm\_add

Add systems to the SSM.

```
usage: ssm_add <SYSTEMS>

see 'help ssm' for more details
```

```
<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.26.2. ssm\_clear

Remove all systems from the SSM.

```
usage: ssm_clear
```

### 3.5.26.3. ssm\_intersect

Replace the current SSM with the intersection of the current list of systems and the list of systems passed as arguments.

```
usage: ssm_intersect <SYSTEMS>
see 'help ssm' for more details
<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNE
```

### 3.5.26.4. ssm\_list

List the systems currently in the SSM.

```
usage: ssm_list
see 'help ssm' for more details
```

### 3.5.26.5. ssm\_remove

Remove systems from the SSM.

+

```
usage: ssm_remove <SYSTEMS>
see 'help ssm' for more details
<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
```

```
group:GROUP
channel:CHANNEL
```

### 3.5.27. system

The following spacecmd functions are available for use with systems.

#### 3.5.27.1. system\_addchildchannels

Add child channels to a system.

```
usage: system_addchildchannels <SYSTEMS> <CHANNEL ...>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.2. system\_addconfigchannels

Add config channels to a system.

```
usage: system_addconfigchannels <SYSTEMS> <CHANNEL ...> [options]

options:
  -t add channels to the top of the list
  -b add channels to the bottom of the list

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.3. system\_addconfigfile

Create a configuration file.

```
Note this is only for system sandbox or locally-managed files
Centrally managed files should be created via configchannel_addfile
usage: system_addconfigfile [SYSTEM] [options]

options:
  -S/--sandbox : list only system-sandbox files
  -L/--local   : list only locally managed files
  -p PATH
  -r REVISION
  -o OWNER [default: root]
  -g GROUP [default: root]
  -m MODE [default: 0644]
  -x SELINUX_CONTEXT
```

```
-d path is a directory
-s path is a symlink
-b path is a binary (or other file which needs base64 encoding)
-t SYMLINK_TARGET
-f local path to file contents
```

Note re binary/base64: Some text files, notably those containing trailing newlines, those containing ASCII escape characters (or other characters not allowed in XML) need to be sent as binary (-b). Some effort is made to auto-detect files which require this, but you may need to explicitly specify.

#### 3.5.27.4. system\_addcustomvalue

Set a custom value for a system.

```
usage: system_addcustomvalue KEY VALUE <SYSTEMS>
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.5. system\_addentitlements

Add entitlements to a system.

```
usage: system_addentitlements <SYSTEMS> ENTITLEMENT
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.6. system\_addnote

Set a note for a system.

```
usage: system_addnote <SYSTEM> [options]
```

options:

```
-s SUBJECT
-b BODY
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```



### 3.5.27.7. system\_applyerrata

Apply errata to a system.

```
usage: system_applyerrata <SYSTEMS> [ERRATA|search:XXX ...]

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.8. system\_comparepackageprofile

Compare a system against a package profile.

```
usage: system_comparepackageprofile <SYSTEMS> PROFILE

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.9. system\_comparepackages

Compare the packages between two systems.

```
usage: system_comparepackages SOME_SYSTEM ANOTHER_SYSTEM
```

### 3.5.27.10. system\_comparewithchannel

Compare the installed packages on a system with those in the channels it is registered to, or optionally some other channel.

```
usage: system_comparewithchannel <SYSTEMS> [options]
options:
  -c/--channel : Specific channel to compare against,
                  default is those subscribed to, including
                  child channels

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.11. system\_createpackageprofile

Create a package profile.

```
usage: system_createpackageprofile SYSTEM [options]

options:
  -n NAME
  -d DESCRIPTION
```

#### 3.5.27.12. system\_delete

Delete a system profile.

```
usage: system_delete <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.13. system\_deletenotes

Delete notes from a system.

```
usage: system_deletenotes <SYSTEM> <ID|*>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.14. system\_deletepackageprofile

Delete a package profile.

```
usage: system_deletepackageprofile PROFILE
```

#### 3.5.27.15. system\_deployconfigfiles\

Deploy all configuration files for a system.

```
usage: system_deployconfigfiles <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
```

```
channel:CHANNEL
```

### 3.5.27.16. system\_details

Show the details of a system profile.

```
usage: system_details <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.17. system\_installpackage

Install a package on a system.

```
usage: system_installpackage <SYSTEMS> <PACKAGE ...>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.18. system\_list

List all system profiles.

```
usage: system_list
```

### 3.5.27.19. system\_listbasechannel

List the base channel for a system.

```
usage: system_listbasechannel <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.20. system\_listchildchannels

List the child channels for a system.

```
usage: system_listchildchannels <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.21. system\_listconfigchannels

List the config channels of a system.

```
usage: system_listconfigchannels <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.22. system\_listconfigfiles

List the managed config files of a system.

```
usage: system_listconfigfiles <SYSTEMS>'
options:
  -s/--sandbox : list only system-sandbox files
  -l/--local   : list only locally managed files
  -c/--central : list only centrally managed files
  -q/--quiet   : quiet mode (omits the header)

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.23. system\_listcustomvalues

List the custom values for a system.

```
usage: system_listcustomvalues <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.24. system\_listentitlements

List the entitlements for a system.

```
usage: system_listentitlements <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.25. system\_listerrata

List available errata for a system.

```
usage: system_listerrata <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.26. system\_listeventhistory

List the event history for a system.

```
usage: system_listeventhistory <SYSTEMS> [options]

options:
-s START_TIME list only the events happened after the specified time. [Default: returns all events]
-o OFFSET skip the first events. Ignored if -l is not specified as well. [Default: 0]
-l LIMIT limit the results to the specified number of events. [Default: no limit]

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.27. system\_listevents

List the event history for a system.

```
usage: system_listevents <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
```

```
channel:CHANNEL
```

### 3.5.27.28. `system_listhardware`

List the hardware details of a system.

```
usage: system_listhardware <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.29. `system_listinstalledpackages`

List the installed packages on a system.

```
usage: system_listinstalledpackages <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.30. `system_listnotes`

List the available notes for a system.

```
usage: system_listnotes <SYSTEM>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.31. `system_listpackageprofiles`

List all package profiles.

```
usage: system_listpackageprofiles
```

### 3.5.27.32. `system_listupgrades`

List the available upgrades for a system.

```
usage: system_listupgrades <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.33. system\_lock

Lock a system.

```
usage: system_lock <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.34. system\_reboot

Reboot a system.

```
usage: system_reboot <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.35. system\_removechildchannels

Remove child channels from a system.

```
usage: system_removechildchannels <SYSTEMS> <CHANNEL ...>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.36. system\_removeconfigchannels

Remove config channels from a system.

```
usage: system_removeconfigchannels <SYSTEMS> <CHANNEL ...>
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.37. system\_removecustomvalues

Remove a custom value for a system.

```
usage: system_removecustomvalues <SYSTEMS> <KEY ...>
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.38. system\_removeentitlement

Remove an entitlement from a system.

```
usage: system_removeentitlement <SYSTEMS> ENTITLEMENT
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.39. system\_removepackage

Remove a package from a system.

```
usage: system_removepackage <SYSTEMS> <PACKAGE ...>
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.40. system\_rename

Rename a system profile.



```
usage: system_rename OLDNAME NEWNAME
```

#### 3.5.27.41. system\_runscript

Schedule a script to run on the list of systems provided.

```
usage: system_runscript <SYSTEMS> [options]
```

options:

```
-u USER
-g GROUP
-t TIMEOUT
-s START_TIME
-l LABEL
-f FILE
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

Dates can be any of the following:

Explicit Dates:

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format. The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

Deltas:

Dates can be expressed as delta values. For example, '2h' would mean 2 hours in the future. You can also use negative values to express times in the past (e.g., -7d would be one week ago).

Units:

```
s -> seconds
m -> minutes
h -> hours
d -> days
```

#### 3.5.27.42. system\_schedulehardwarerefresh

Schedule a hardware refresh for a system.

```
usage: system_schedulehardwarerefresh <SYSTEMS>
```

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.43. system\_schedulepackagerefresh

Schedule a software package refresh for a system.

```
usage: system_schedulepackagerefresh <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.44. system\_search

List systems that match the given criteria.

```
usage: system_search QUERY

Available Fields:
id
name
ip
hostname
device
vendor
driver
uuid

Examples:
> system_search device:vmware
> system_search ip:192.168.82
```

#### 3.5.27.45. system\_setbasechannel

Set a system's base software channel.

```
usage: system_setbasechannel <SYSTEMS> CHANNEL

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.46. system\_setconfigchannelorder

Set the ranked order of configuration channels.

```
usage: system_setconfigchannelorder <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
```

```
channel:CHANNEL
```

#### 3.5.27.47. `system_setcontactmethod`

Set the contact method for a given system.

```
Available contact methods: ['default', 'ssh-push', 'ssh-push-tunnel']
usage: system_setcontactmethod <SYSTEMS> <CONTACT_METHOD>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.48. `system_show_packageversion`

Shows version of installed package on a given system.

```
usage: system_show_packageversion <SYSTEM> <PACKAGE>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.49. `system_syncpackages`

Sync packages between two systems.

```
usage: system_syncpackages SOURCE TARGET
```

### **system\_unlock**

Unlock a system.

```
usage: system_unlock <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

#### 3.5.27.50. `system_updatecustomvalue`

Update a custom value for a system.

```
usage: system_updatecustomvalue KEY VALUE <SYSTEMS>

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.27.51. system\_upgradepackage

Upgrade a package on a system.

```
usage: system_upgradepackage <SYSTEMS> <PACKAGE ...>|*

<SYSTEMS> can be any of the following:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

## 3.5.28. toggle

The following spacecmd functions are available to toggle functions on and off.

### 3.5.28.1. toggle\_confirmations

Toggle confirmation messages on/off.

```
usage: toggle_confirmations
```

## 3.5.29. user

The following spacecmd functions are available managing users.

### 3.5.29.1. user\_adddefaultgroup

Add a default group to an user account.

```
usage: user_adddefaultgroup USER <GROUP ...>
```

### 3.5.29.2. user\_addgroup

Add a group to an user account.

```
usage: user_addgroup USER <GROUP ...>
```

### 3.5.29.3. user\_addrole

Add a role to an user account.

```
usage: user_addrole USER ROLE
```

### 3.5.29.4. user\_create

Create an user.

```
usage: user_create [options]
options:
  -u USERNAME
  -f FIRST_NAME
  -l LAST_NAME
  -e EMAIL
  -p PASSWORD
  --pam enable PAM authentication
```

### 3.5.29.5. user\_delete

Delete an user.

```
usage: user_delete NAME
```

### 3.5.29.6. user\_details

Show the details of an user.

```
usage: user_details USER ...
```

### 3.5.29.7. user\_disable

Disable an user account.

```
usage: user_disable NAME
```

### 3.5.29.8. user\_enable

Enable an user account.

```
usage: user_enable NAME
```

### 3.5.29.9. user\_list

List all users.

```
usage: user_list
```

#### 3.5.29.10. user\_listavailableroles

List all available roles for users.

```
usage: user_listavailableroles
```

#### 3.5.29.11. user\_removedefaultgroup

Remove a default group from an user account.

```
usage: user_removedefaultgroup USER <GROUP ...>
```

#### 3.5.29.12. user\_removegroup

Remove a group to an user account.

```
usage: user_removegroup USER <GROUP ...>
```

#### 3.5.29.13. user\_removeole

Remove a role from an user account.

```
usage: user_removeole USER ROLE
```

#### 3.5.29.14. user\_setemail

Set an user accounts email field.

```
usage: user_setemail USER EMAIL
```

#### 3.5.29.15. user\_setfirstname

Set an user accounts first name field.

```
usage: user_setfirstname USER FIRST_NAME
```

#### 3.5.29.16. user\_setlastname

Set an user accounts last name field.

```
usage: user_setlastname USER LAST_NAME
```

#### 3.5.29.17. user\_setpassword

Set an user accounts name prefix field.

```
usage: user_setpassword USER PASSWORD
```

#### 3.5.29.18. user\_setprefix

Set an user accounts name prefix field.

```
usage: user_setprefix USER PREFIX
```

### 3.5.30. whoami

The following command is available for returning the currently logged spacecmd username.

#### 3.5.30.1. whoami

Print the currently logged spacecmd user.

```
spacecmd {SSM:0}> whoami  
admin
```

### 3.5.31. whoamitalkingto

The following spacecmd function is available for returning the server hostname.

#### 3.5.31.1. whoamitalkingto

Return the server hostname that spacecmd is connected with.

```
spacecmd {SSM:0}> whoamitalkingto  
MGR_SERVER_HOSTNAME
```

### 3.5.32. Miscellaneous Help Topics

The following help topics are printed with all functions requiring the relevant information.

#### 3.5.32.1. time

Dates can be any of the following:

**Explicit Dates:**

Dates can be expressed as explicit date strings in the YYYYMMDD[HHMM] format. The year, month and day are required, while the hours and minutes are not; the hours and minutes will default to 0000 if no values are provided.

**Deltas:**

Dates can be expressed as delta values.

For example, '2h' would mean 2 hours in the future.

You can also use negative values to express times in the past (e.g., -7d would be one week ago).

**Units:**

s -> seconds

m -> minutes

h -> hours

d -> days

### 3.5.32.2. systems

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 3.5.32.3. ssm

The System Set Manager (SSM) is a group of systems that you can perform tasks on as a group.

**Adding Systems:**

```
> ssm_add group:rhel5-x86_64
> ssm_add channel:rhel-x86_64-server-5
> ssm_add search:device:vmware
> ssm_add host.example.com
```

**Intersections:**

```
> ssm_add group:rhel5-x86_64
> ssm_intersect group:web-servers
```

**Using the SSM:**

```
> system_installpackage ssm zsh
> system_runscript ssm
```



## Chapter 4. Command Line Tools



- To access a shell inside the Server container, run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

There are several command line tools available in Uyuni. Every action that can be completed using the Web UI can be performed at a command prompt instead. Additionally, there are some actions that can only be performed at the command prompt.

Manage package and channel synchronization with:

- `spacewalk-repo-sync`
- `mgr-sync`

Manage bootstrapping with:

- `mgr-create-bootstrap-repo`

Manage the database with:

- `smdba`

Some of these command line tools are installed by default. To install a command line tool, you can use the Uyuni Web UI, or use your package manager at the command prompt.

*Procedure: Installing Command Line Tools with the WebUI*

1. In the Uyuni Web UI, navigate to **Systems > System List**, select the client to install the tool on, and navigate to the **Software > Packages > Install** sub-tab.
2. Use the search tool to search for the command line tool you want to install.
3. Check the package to install, and click **Install Selected Packages**.
4. Click **Confirm** to begin installation.

*Procedure: Installing Command Line Tools from the Command Prompt*

1. On the client that you want to install the packages on, at the command prompt, as root, use zypper to install the package:

```
zypper in <CLI_TOOL_NAME>
```

### 4.1. Synchronization CLI Tools



- To access a shell inside the Server container, run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

There are two tools for synchronizing clients to the server. For clients that are connected to the SUSE

Customer Center, use **mgr-sync**. For all other clients, use **spacewalk-repo-sync**.

#### 4.1.1. Synchronize SCC Repositories With mgr-sync

The primary use of **mgr-sync** is to connect to the SUSE Customer Center, retrieve product and package information, and prepare channels for synchronization with the Uyuni Server.

This tool is designed for use with a SUSE support subscription. It is not required for open source distributions, including openSUSE, CentOS, and Ubuntu.

The available commands and arguments for **mgr-sync** are listed in this table. Use this syntax for **mgr-sync** commands:

```
mgr-sync [-h] [--version] [-v] [-s] [-d {1,2,3}] {list,add,refresh,delete}
```

Table 40. mgr-sync Commands

Command	Description	Example Use
list	List channels, organization credentials, or products	<b>mgr-sync list channels</b>
add	Add channels, organization credentials, or products	<b>mgr-sync add channel &lt;channel_name&gt;</b>
refresh	Refresh the local copy of products, channels, and subscriptions	<b>mgr-sync refresh</b>
delete	Delete existing SCC organization credentials from the local system	<b>mgr-sync delete credentials</b>
sync	Synchronize specified channel or ask for it when left blank	<b>mgr-sync sync channel &lt;channel_name&gt;</b>

To see the full list of options specific to a command, use this command:

```
mgr-sync <command> --help
```

Table 41. mgr-sync Optional Arguments

Option	Abbreviated option	Description	Example Use
help	<b>h</b>	Display the command usage and options	<b>mgr-sync --help</b>

Option	Abbreviated option	Description	Example Use
version	N/A	Display the currently installed version of <b>mgr-sync</b>	<b>mgr-sync --version</b>
verbose	<b>v</b>	Provide verbose output	<b>mgr-sync --verbose refresh</b>
store-credentials	<b>s</b>	Store credentials a local hidden file	<b>mgr-sync --store-credentials</b>
debug	<b>d</b>	Log additional debugging information. Requires a level of 1, 2, 3. 3 provides the highest ammount of debugging information	<b>mgr-sync -d 3 refresh</b>
no-sync	N/A	Use with the <b>add</b> command to add products or channels without beginning a synchronization	<b>mgr-sync --no-sync add &lt;channel_name&gt;</b>

Logs for **mgr-sync** are located in:

- **/var/log/rhn/mgr-sync.log**
- **/var/log/rhn/rhn\_web\_api.log**

#### 4.1.2. Synchronize Repositories with **spacewalk-repo-sync**

The **spacewalk-repo-sync** tool synchronizes software repositories into Uyuni channels. In most cases, this happens automatically, but you can use the tool to run it manually if required.

The **spacewalk-repo-sync** tool has these primary commands:

*Table 42. spacewalk-repo-sync Options*

Option	Description	Example Use
list	List all custom channels and the repositories assigned to them.	<b>spacewalk-repo-sync --list</b>
channel	Synchronize a single channel to all repositories assigned to it.	<b>spacewalk-repo-sync --channel &lt;custom-channel&gt;</b>

Option	Description	Example Use
deep-verify	ignore cached package checksums.	<code>spacewalk-repo-sync --deep-verify</code>
force-all-errata	force re-importing all the patches.	<code>spacewalk-repo-sync --deep-verify</code>
no-packages	excludes packages from the operation.	<code>spacewalk-repo-sync --deep-verify --no-packages</code>

For a complete list of options, see the `spacewalk-repo-sync` manpage:

```
man spacewalk-repo-sync
```

### 4.1.3. Troubleshooting Synchronization

If you are having trouble synchronizing with `spacewalk-repo-sync` you can find out more by watching the HTTP log as the command runs.

*Procedure: Troubleshooting Synchronization Problems*

1. Log the HTTP output into `/var/log/zypper.log`:

```
ZYPP_MEDIA_CURL_DEBUG=2 spacewalk-repo-sync --channel <channel-label>
```

2. Export the setting:

```
export URLGRABBER_DEBUG=DEBUG
```

3. Start the synchronization:

```
/usr/bin/spacewalk-repo-sync --channel <channel-label> --type yum
```

You can increase the debug level, by adding the `[option]``-vvv``` option to the command.

4. When the complete completes, or fails, disable debug mode:

```
unset URLGRABBER_DEBUG
```

#### 4.1.3.1. Add Custom Extra HTTP Headers

You can add custom HTTP headers to the requests made by `spacewalk-repo-sync` at the time of synchronization. The custom HTTP headers are defined in the `/etc/rhn/spacewalk-repo-sync/extra_headers.conf` configuration file. The headers can be defined by repository name or channel label. You can also define global headers by putting them in the `main` section. For example:

```
[testchannel]
X-MY-HEADER-1=VALUE
X-MY-HEADER-2=VALUE

[mychannel]
X-MY-HEADER-3=VALUE
X-MY-HEADER-4=VALUE

[main]
X-MYGLOBAL-HEADER=VALUE
```

This can be particularly useful when dealing with Red Hat Update Infrastructure (RHUI) repositories in the public cloud.

## 4.2. Channel Management CLI Tools



To access a shell inside the Server container, run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

There are tools for managing channels on the server. With `spacewalk-remove-channel`, list and delete channels in various ways.

### 4.2.1. Manage Channels with `spacewalk-remove-channel`

Usage: `spacewalk-remove-channel` [options]

The use of `spacewalk-remove-channel` is to remove channels in various ways.

The available commands and arguments for `spacewalk-remove-channel` are listed in this table. Use this syntax for `spacewalk-remove-channel` commands:

```
spacewalk-remove-channel [options]
```

The `spacewalk-remove-channel` tool has these primary commands:

Table 43. `spacewalk-remove-channel` Options

Option	Description	Example Use
list	List defined channels and exit.	<code>spacewalk-remove-channel --list</code>

Option	Description	Example Use
channel	Delete this channel (can be present multiple times).	<code>spacewalk-remove-channel --channel=CHANNEL</code>
channel-with-children	Delete this channel and its child channels (can be present multiple times).	<code>spacewalk-remove-channel --channel-with-children=CHANNEL_WITH_CHILDREN</code>
unsubscribe	Unsubscribe systems registered to the specified channels. Note: Credentials are needed	<code>spacewalk-remove-channel --unsubscribe</code>
justdb	Delete only from the database, do not remove files from disk.	<code>spacewalk-remove-channel --justdb</code>
just-kickstart-trees	Remove only the kickstart trees for the channels specified.	<code>spacewalk-remove-channel --just-kickstart-trees</code>
skip-channels	Remove only packages from channel not the channel itself.	<code>spacewalk-remove-channel --skip-channels</code>

For a complete list of options and abbreviated options, see the `--help` output or the `spacewalk-remove-channel` manpage:

```
man spacewalk-remove-channel
```

For more information, see **Administration > Removing-channels**.

## 4.3. Bootstrapping Command Line Tools



To access a shell inside the Server container run `mgrctl term` on the container host. From there, one can run the CLI tools as usual.

The `mgr-create-bootstrap-repo` tool allows you to create a bootstrap repository.

Use the `mgr-create-bootstrap-repo` command on the Uyuni Server to create a new bootstrap repository. The `-l` option lists all available repositories:

```
mgr-create-bootstrap-repo -l
```

Give the repository name to create the bootstrap repository you require:

```
mgr-create-bootstrap-repo <repo-name>
```

You can also create a new bootstrap repository from a custom channel, with the **--with-custom-channels** option:

```
mgr-create-bootstrap-repo --with-custom-channels
```

If you create a bootstrap repository that contains custom channels, and later attempt to rebuild with the **mgr-create-bootstrap-repo** command, the custom channel information will remain in the bootstrap repository. To remove custom channel information from your bootstrap repository, use the **--flush** option when you rebuild:

```
mgr-create-bootstrap-repo --flush
```

## 4.4. Database CLI Tool

The **smdba** tool allows you to manage the installed PostgreSQL database. It allows you to backup and restore the database, as well as administration tasks like creating, verifying, and restarting the database. The tool works on local databases only.



To access a shell inside the Server container, run **mgctl term** on the container host. From there, one can run the CLI tools as usual.



The **smdba** tool replaces the older **db-control** tool. The **db-control** tool is now unsupported.

After you stop or restart the database, you need to restart the Uyuni services.

Table 44. Database Options

Option	Description
backup-hot	Enable continuous archiving backup
backup-restore	Restore the database from backup.
backup-status	Show backup status.
db-start	Start the database.
db-status	Show database status.
db-stop	Stop the database.
space-overview	Show database space report.

Option	Description
space-reclaim	Free disk space from unused objects in tables and indexes.
space-tables	Show space report for each table.
system-check	Perform a back-end health check.
help	Show help message and exit.

Each option has additional help available. See the help using this syntax:

```
smdba <OPTION> --help
```



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