



U Y U N I

Uyuni 2024.08

Reference Guide

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# Reference Guide Overview

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This document contains several sections:

- The `Web UI Reference` is organized to match the Uyuni Web UI. As you work with the Web UI, you can consult the `Web UI Reference` to find out more about the section you are working on.
- The `spacecmd Reference` is intended to help you work with the `spacecmd` command line interface. It contains a complete list of `spacecmd` commands, organized alphabetically, and their correct usage.
- The `Command Line Tools` section provides an overview of the various command line tools available in Uyuni.

# Chapter 1. WebUI Reference

## 1.1. 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.

### 1.1.1. 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.

### 1.1.2. 通知消息

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.

表格 1. Notification Message Severity Statuses

| Icon | Description | Example                                |
|------|-------------|----------------------------------------|
| ⓘ    | Information | Client onboarding has failed.          |
| !    | Warning     | Channel synchronization has completed. |
| ✘    | Error       | Channel synchronization has failed.    |

### 1.1.3. User Account Menu

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

#### 1.1.3.1. 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.

### 1.1.3.2. 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]**.

### 1.1.3.3. 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.

### 1.1.3.4. 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.

### 1.1.4. My Preferences

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

表格 2. Home Preferences

| Option             | Description                                                                             | Default |
|--------------------|-----------------------------------------------------------------------------------------|---------|
| Email Notification | Receive email for client and Taskomatic notifications, including a daily summary email. | Checked |

| Option                | Description                                                                                 | Default           |
|-----------------------|---------------------------------------------------------------------------------------------|-------------------|
| 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](#).

## 1.1.5. My Organization

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

For more information about organizations, see [Administration > Organizations](#).

### 1.1.5.1. Organization Configuration

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

表格 3. Organization Configuration Options

| Option                               | Description                                                                                   | Default   |
|--------------------------------------|-----------------------------------------------------------------------------------------------|-----------|
| Enable staging contents              | For clients in this organization, allow content staging by default.                           | Unchecked |
| 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 |
| SCAP File Upload Size Limit          | The maximum SCAP file size (in MB) that can be uploaded.                                      | 2048 MB   |
| Allow Deletion of SCAP Results       | Allow SCAP results to be deleted after the audit is complete.                                 | Checked   |

| Option                                                    | Description                                                                                                                          | Default |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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 |

- 有关内容暂存的详细信息，请参见 [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](#).

### 1.1.5.2. 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](#).

### 1.1.5.3. 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](#).

## 1.2. Systems Menu

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

For more information about managing clients, see [Client-configuration > Client-config-overview](#).

### 1.2.1. Systems Overview

The **Systems > Overview** section lists all client systems registered to the Uyuni Server. The list contains information about the clients, including available software updates, and the base channel they are subscribed to.

Click the name of a client to go to the **System Details** Overview page. 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 > Client-config-overview](#).

## 1.2.2. 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 subtab has its own section 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.

For more information about managing clients, see [Client-configuration > Client-config-overview](#).

### 1.2.2.1. 概览

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:

#### 1.2.2.1.1. 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](#).

#### 1.2.2.1.2. System Info

This section shows general information about the client.

表格 4. 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.                                    | -                                                   |
| 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](#).

#### 1.2.2.1.3. 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](#).

#### 1.2.2.1.4. System Events

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

表格 5. 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](#).

### 1.2.2.1.5. System Properties

This section shows further information about the client.

表格 6. 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.                                                                                                   |

For more information about contact methods, see [Client-configuration > Contact-methods-intro](#).

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

### 1.2.2. 属性

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

表格 7. 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                                                                                            |

### 1.2.2.3. 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**.

### 1.2.2.4. 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**.

### 1.2.2.5. 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.

### 1.2.2.6. 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.

### 1.2.2.7. 笔记

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.

### 1.2.2.8. 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](#).

### 1.2.2.9. 代理

The **Systems > 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](#).

### 1.2.2.10. 软件

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

### 1.2.2.11. 补丁

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**.

### 1.2.2.12. 软件包

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]**.

#### 升级

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**.

### 1.2.2.13. 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](#).

### 1.2.2.14. 软件通道

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:

#### 1.2.2.14.1. 基础通道

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.



默认情况下，克隆的供应商通道与原始供应商通道一致并会自动选择依赖项。您可以在 `/etc/rhn/rhn.conf` 中添加以下选项来禁止自动为克隆的通道选择依赖项：

```
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.

#### 1.2.2.14.2. 子通道

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.

### 1.2.2.15. 产品迁移

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. 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**.

### 1.2.2.16. 配置

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

有关配置通道的详细信息，请参见 **Client-configuration > Configuration-management**。

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

#### 1.2.2.16.1. 概览

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.

#### 1.2.2.16.2. 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.

### 1.2.2.16.3. Deploy Files

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

### 1.2.2.16.4. 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.

### 1.2.2.16.5. 管理配置通道

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]**.

### 1.2.2.17. 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:

#### 1.2.2.17.1. 自动安装

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**.

### 1.2.2.17.2. 电源管理

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](#).

### 1.2.2.18. 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](#).

#### 1.2.2.18.1. 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]**.

#### 1.2.2.18.2. 加入

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]**.

### 1.2.2.19. 虚拟化

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:

### 1.2.2.19.1. 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:

表格 8. 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                                      |
| 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.

### 1.2.2.19.2. 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:

表格 9. 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 |

| Column     | Description                                                                    |
|------------|--------------------------------------------------------------------------------|
| 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 unknown 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.

### 1.2.2.19.3. 网络

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:

表格 10. 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.

### 1.2.2.20. 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:

### 1.2.2.20.1. 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:

表格 11. 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                                       |

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

### 1.2.2.20.2. 日程安排

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

### 1.2.2.21. 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:

### 1.2.2.21.1. 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.

### 1.2.2.21.2. 软件包

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.

### 1.2.2.21.3. 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.

有关配置通道的详细信息，请参见 **Client-configuration > Configuration-management**。

## 1.2.2.22. 公式

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**.

## 1.2.2.23. 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](#).

### 1.2.2.24. 重复性操作

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](#).

Uyuni 目前支持将以下操作类型作为重复性操作：

- `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.

有关配置通道的详细信息，请参见 [Client-configuration > Configuration-management](#)。

#### 1.2.2.24.1. 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.

#### 1.2.2.24.2. 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.

#### 1.2.2.24.3. 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.

#### 1.2.2.24.4. 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].

#### 1.2.2.24.5. 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](#).

### 1.2.2.25. 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:

#### 1.2.2.25.1. 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].

#### 1.2.2.25.2. History

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

Click the summary of an action to see more information.

### 1.2.3. Systems List

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

For more information about managing clients, see [Client-configuration > Client-config-overview](#).

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

#### 1.2.3.1. 所有

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

### 1.2.3.2. Physical Systems

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

### 1.2.3.3. 虚拟系统

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](#).

### 1.2.3.4. 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](#).

### 1.2.3.5. 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](#).

### 1.2.3.6. Requiring Reboot

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

### 1.2.3.7. 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 `Packages` column shows the number of non-compliant packages on the client.

### 1.2.3.8. Without System Type

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](#).

### 1.2.3.9. 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**.

### 1.2.3.10. 非活动

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

有关客户端与服务器的连接的详细信息，请参见 **Client-configuration > Contact-methods-intro**。

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

### 1.2.3.11. 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.

### 1.2.3.12. 代理

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

### 1.2.3.13. 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.

### 1.2.3.14. 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.

### 1.2.3.15. 系统类型

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**.

## 1.2.4. 系统组

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.

表格 12. 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](#).

## 1.2.5. 系统集管理器

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

有关系统集管理器的详细信息，请参见 [Client-configuration > System-set-manager](#)。

### 1.2.5.1. 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:

#### 1.2.5.1.1. 概览

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

#### 1.2.5.1.2. 系统

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.

#### 1.2.5.1.3. 补丁

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](#).

#### 1.2.5.1.4. 软件包

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](#).

#### 1.2.5.1.5. 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](#).

#### 1.2.5.1.6. 通道

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](#).

#### 1.2.5.1.7. 配置

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]**.

有关配置管理的详细信息，请参见 [Client-configuration > Configuration-management](#)。

### 1.2.5.1.8. 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](#).

### 1.2.5.1.9. States

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

### 1.2.5.1.10. Audit

For more information about auditing, see [Administration > Auditing](#).

### 1.2.5.1.11. 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.

### 1.2.5.2. 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](#).

### 1.2.6. Bootstrapping

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

表格 13. 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 |

| Option                               | Description                                                                                                                                                   | Default           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 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 <code>None</code> for no activation key. | <code>None</code> |
| Proxy                                | The proxy to which the client should be registered. Leave blank if you are not using a proxy.                                                                 | <code>None</code> |
| 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 私用密钥仅在引导过程期间存储，引导完成后，将会立即从 Uyuni 服务器删除。

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**.

## 1.2.7. 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:

```
rhn-search cleanindex
```

## 1.2.8. 激活密钥

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.

有关激活密钥的详细信息，请参见 **Client-configuration > Activation-keys**。

## 1.2.9. 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**.

## 1.2.10. 自定义系统信息

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

Click **[Create Key]** 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**.

## 1.2.11. Autoinstallation Menu

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

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

### 1.2.11.1. 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](#).

#### 1.2.11.2. 自动安装配置文件

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](#).

#### 1.2.11.3. 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](#).

#### 1.2.11.4. 发行套件

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](#).

### 1.2.11.5. 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](#).

### 1.2.11.6. 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](#).

## 1.2.12. 虚拟主机管理器

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](#).

## 1.3. 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](#).

### 1.3.1. 密钥

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.

表格 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: accepted indicates that the client key has been verified by the Uyuni Server.                            |
| Actions     | Click the Delete icon to delete the client key from the server. Clients that have had their key deleted will need to be onboarded again. |

### 1.3.2. 远程命令

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](#).

### 1.3.3. 公式目录

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 `guiemuFormulas` tab.

For more information about Uyuni formulas, see [Specialized-guides > Salt](#).

## 1.4. Images Menu

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

For more information about images, see [Administration > Image-management](#).

### 1.4.1. 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.

表格 15. Image List Columns

| Column               | Description                                                            |
|----------------------|------------------------------------------------------------------------|
| Name                 | Name of the image.                                                     |
| 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: Built, Scheduled, Building or Failed. |
| Last Modified        | The time and date the image was last modified.                         |

For more information about images, see [Administration > Image-management](#).

## 1.4.2. Images Build

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

表格 16. Image Build Options

| Option        | Description                                                                                         | Default                       |
|---------------|-----------------------------------------------------------------------------------------------------|-------------------------------|
| Image Profile | Select the image profile to use.<br>Manage image profiles at <a href="#">Images &gt; Profiles</a> . | 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](#).

## 1.4.3. 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](#).

## 1.4.4. 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**.

## 1.5. 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**.

### 1.5.1. 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.

#### 1.5.1.1. 细节

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/>.

#### 1.5.1.2. 软件包

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**.

#### 1.5.1.3. 受影响的系统

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.

表格 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. |

## 1.5.2. Patch List

### 1.5.2.1. 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](#)

表格 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**.

### 1.5.2.2. 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.

表格 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](#).

### 1.5.3. 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:

表格 20. Patch Advanced Search Options

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

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](#).

### 1.5.4. 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](#).

## 1.5.5. 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.

## 1.6. 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](#).

### 1.6.1. 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.

#### 1.6.1.1. 细节

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.

#### 1.6.1.2. 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](#).

### 1.6.1.3. 补丁

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](#).

### 1.6.1.4. 软件包

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](#).

### 1.6.1.5. 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.

有关系统集管理器的详细信息，请参见 [Client-configuration > System-set-manager](#)。

### 1.6.1.6. 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 [\[Confirm\]](#).

For more information about software channels, see [Client-configuration > Channels](#).

### 1.6.1.7. 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](#).

## 1.6.2. 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.

表格 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](#).

## 1.6.3. Package Search

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

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

表格 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.                                                     |

| Option               | Description                                                |
|----------------------|------------------------------------------------------------|
| 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.

表格 23. Keyword Search Options

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

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](#).

## 1.6.4. Manage Menu

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

有关自定义通道的详细信息，请参见 [Administration > Custom-channels](#)。

### 1.6.4.1. 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.

有关自定义通道的详细信息，请参见 **Administration > Custom-channels**。

#### 1.6.4.2. 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.

有关自定义通道的详细信息，请参见 **Administration > Custom-channels**。

#### 1.6.4.3. 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.

有关自定义储存库和通道的详细信息，请参见 **Administration > Custom-channels**。

### 1.6.5. 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.

表格 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**.

## 1.7. Content Lifecycle Management Menu

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

内容生命周期管理允许您选择软件通道作为源、根据环境的需要调整软件通道，并在安装到生产客户端之前对其进行全面的测试。

For more information about content lifecycle management, see [Administration > Content-lifecycle](#).

### 1.7.1. 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](#).

### 1.7.2. 过滤器

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](#).

## 1.8. 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.

### 1.8.1. CVE 审计

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.

表格 25. Patch Status Icons

| Icon | Description                                                       | Action Required                                                                                                                               |
|------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| !    | 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, 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                                                      | There are no available CVE patches for this client.                                                                                           |
| ✓    | Patched                                                           | A patch has been successfully installed on the client.                                                                                        |

For more information about CVE auditing, see [Administration > Auditing](#).

## 1.8.2. 订阅匹配

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.

表格 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.

表格 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 libvirt, 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.                                                                                                                                                                                                      |
| 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.                                                                                                                                                                                                      |

| Message                                                                               | Type          | Description                                                                                                              | Action             |
|---------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|
| 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.

表格 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](#).

### 1.8.3. 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](#).

#### 1.8.3.1. 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](#).

#### 1.8.3.2. 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.

表格 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 <code>Pass</code> or <code>Fixed</code> .                             |
| Dissatisfied  | The total number of rules that are not satisfied.             | A rule is dissatisfied if the result of the evaluation is <code>Fail</code> .                                                |
| Unknown       | The total number of rules that were not able to be evaluated. | A rule is unknown if the result of the evaluation is <code>Error</code> , <code>Unknown</code> or <code>Not checked</code> . |



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](#).

### 1.8.3.3. XCCDF Diff

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

For more information about OpenSCAP, see [Administration > Openscap](#).

### 1.8.3.4. 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](#).

## 1.9. 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.

## 1.9.1. 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.

表格 30. Recently Modified Configuration Files Columns

| Column                | Description                                  |
|-----------------------|----------------------------------------------|
| Filename              | Absolute filename of the configuration file. |
| Configuration Channel | Name of the configuration channel.           |

| Column   | Description                              |
|----------|------------------------------------------|
| 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.

表格 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: Queued                                         |

Clicking the blue status text displays the [System Details](#) > [Schedule](#) page for the specified system.

## 1.9.2. 通道

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.

### 1.9.2.1. Configuration Channel Details

#### 概览

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 actions 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 (a small icon of a file with a screwdriver) 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]**.

### 系统

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]**.

## 1.9.3. 文件

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
```

### 1.9.3.1. 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.

表格 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.

### 1.9.3.2. 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.

有关配置管理的详细信息，请参见 [Client-configuration > Configuration-management](#)。

## 1.9.4. Systems Menu

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

### 1.9.4.1. 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.

### 1.9.4.2. 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 SUSE Manager 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.

## 1.10. 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
- 产品迁移
- 远程命令

For more information about actions, see [Administration > Actions](#).

### 1.10.1. 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.

表格 33. Actions List Columns

| Column         | Description                                                          |
|----------------|----------------------------------------------------------------------|
| Action         | Type of action to perform. Click the action to go to Action Details. |
| 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](#).

### 1.10.2. 重复性操作

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](#).

### 1.10.3. 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]**.

表格 34. Completed Actions List Columns

| Column         | Description                                                          |
|----------------|----------------------------------------------------------------------|
| Action         | Type of action to perform. Click the action to go to Action Details. |
| 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**.

### 1.10.4. 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**.

### 1.10.5. 操作链

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**.

### 1.10.6. 维护时段

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**.

## 1.11. 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**.

### 1.11.1. 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:

#### 1.11.1.1. 细节

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.

#### 1.11.1.2. System Groups

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

#### 1.11.1.3. 系统

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**.

#### 1.11.1.4. 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.

#### 1.11.1.5. User Preferences

This tab is used to configure preference settings for users.

表格 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 |
| CSV Files             | Select whether to use comma or semi-colon delimiters when producing downloadable CSV files. | Comma           |

#### 1.11.1.6. 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.

### 1.11.2. User List

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

#### 1.11.2.1. 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**.

## 1.11.2.2. 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**.

## 1.11.2.3. 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**.

## 1.11.3. 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**.

## 1.12. 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.

## 1.12.1. 安裝向導

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.

表格 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.  |

### 1.12.1.1. 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.

### 1.12.1.2. Configure Organization Credentials

您的 SUSE Customer Center 帐户与组织的管理帐户相关联。您可以与组织中的其他用户共享您的 SUSE Customer Center 访问权限。导航到 **Organization Credentials** 选项卡，向组织中的用户授予对您的 SUSE Customer Center 帐户的访问权限。

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). 要在 SCC 中重新检查身份凭证，请单击该图标。
- 设置用于服务器间同步的主要身份凭证（黄色星形图标）。
- 列出与特定身份凭证相关的订阅（列表图标）。
- 编辑身份凭证（铅笔图标）。
- Delete the credential (trash can icon).

### 1.12.1.3. 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**.

## 1.12.2. 组织

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**.

## 1.12.3. 用户

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**.

## 1.12.4. Manager Configuration

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

表格 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.                                                   |

### 1.12.4.1. 常规

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

表格 38. Bootstrap Script Options

| Option                      | Description                                                                                                              | Default         |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| Administrator Email Address | Email address of the Uyuni administrator.                                                                                | Pre-populated   |
| SUSE Manager Hostname       | Hostname of the Uyuni Server.                                                                                            | Pre-populated   |
| HTTP Proxy                  | The hostname and port of the proxy, if you are using one. Use syntax <hostname>:<port>, for example: <example.com>:8080. | 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.                                                                           | /var/spacewalk/ |
| 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         |

### 1.12.4.2. 引导脚本

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.

表格 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       |
| 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   |



请勿在引导脚本中禁用 SSL。确保 Web UI 中的 `---- SSL` 处于选中状态，或者引导脚本中包含 `USING_SSL=1` 设置。如果您禁用 SSL，将需要在注册过程中提供自定义 SSL 证书。有关自定义证书的详细信息，请参见 **Administration > Ssl-certs**。

### 1.12.4.3. 配置组织

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

### 1.12.4.4. 重启

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.

### 1.12.4.5. 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 仅支持 Uyuni Web UI 中或通过 Uyuni API 提供的 Cobbler 功能。本文中所述的仅为支持的功能。

### 1.12.4.6. 监视

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

For more information about monitoring, see [Administration > Monitoring](#).

## 1.12.5. 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](#).

### 1.12.5.1. 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).

选中-----复选框以启用从属服务器与主服务器的同步。

选中-----复选框以将所有组织同步到此从属服务器。

For more information about ISS, see [Administration > Iss](#).

### 1.12.5.2. 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](#).

## 1.12.6. 任务日程安排

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](#).

## 1.12.7. 任务引擎状态

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.

## 1.12.8. 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.

## 1.13. 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://documentation.suse.com/suma/>.



You can read EULA by going to <https://server.example.com/rhn/help/Eula.do>.

## 1.13.1. 文档

The **Help > Documentation 2024.08** 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 SUSE Manager documentation, including API documentation, see <https://documentation.suse.com/suma/>.

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

## 1.13.2. Release Notes

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

## 1.13.3. API Menu

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

### 1.13.3.1. 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/suma/>.

### 1.13.3.2. API FAQ

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

### 1.13.3.3. 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/suma/2024.08/api/suse-manager/api/scripts.html>

# Chapter 2. spacecmd Reference



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。

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 SUSE Manager 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

## 2.1. Configuring spacecmd



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。

The following section provides configuration tips for `spacecmd`.

### 2.1.1. 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
```

## 2.1.2. 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'
```

## 2.1.3. spacecmd Help

spacecmd help can be accessed 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]    |
| --nossal                         | 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      org_trustdetails
activationkey_addconfigchannels     package_details
activationkey_addentitlements      package_listdependencies
activationkey_addgroups             package_listerrata
activationkey_addpackages           package_listinstalledsystems
activationkey_clone                 package_listorphans
activationkey_create                package_remove
activationkey_delete                package_removeorphans
activationkey_details              package_search
activationkey_diff                  repo_addfilters
activationkey_disable               repo_clearfilters
activationkey_disableconfigdeployment  repo_create
...
...
```

## 2.2. 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
```

列表 1. Full List of Available Help Commands

```
Documented commands (type help <topic>):
=====
activationkey_addchildchannels          org_removetrust
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_getxccdfscanruleresults
activationkey_setdescription         scap_listxccdfscans
activationkey_setuniversaldefault    scap_schedulexccdfscan
activationkey_setusagelimit          schedule_cancel
api                                  schedule_details
```

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| clear                                | schedule_getoutput                  |
| clear_caches                         | schedule_list                       |
| configchannel_addfile                | schedule_listarchived               |
| configchannel_backup                 | schedule_listcompleted              |
| configchannel_clone                  | schedule_listfailed                 |
| configchannel_create                 | schedule_listpending                |
| configchannel_delete                 | schedule_reschedule                 |
| configchannel_details                | snippet_create                      |
| configchannel_diff                   | snippet_delete                      |
| configchannel_export                 | snippet_details                     |
| configchannel_filedetails            | snippet_list                        |
| configchannel_forcedeploy            | snippet_update                      |
| configchannel_import                 | softwarechannel_adderrata           |
| configchannel_list                   | softwarechannel_adderratabydate     |
| configchannel_listfiles              | softwarechannel_addpackages         |
| configchannel_listsystems            | softwarechannel_addrepo             |
| configchannel_removefiles            | softwarechannel_clone               |
| configchannel_sync                   | softwarechannel_clonetree           |
| configchannel_updatefile             | softwarechannel_create              |
| configchannel_verifyfile             | softwarechannel_delete              |
| cryptokey_create                     | softwarechannel_details             |
| cryptokey_delete                     | softwarechannel_diff                |
| cryptokey_details                    | softwarechannel_errata_diff         |
| cryptokey_list                       | softwarechannel_errata_sync         |
| custominfo_createkey                 | softwarechannel_getorgaccess        |
| custominfo_deletekey                 | softwarechannel_list                |
| custominfo_details                   | softwarechannel_listallpackages     |
| custominfo_listkeys                  | softwarechannel_listbasechannels    |
| custominfo_updatekey                 | softwarechannel_listchildchannels   |
| distribution_create                  | softwarechannel_listerrata          |
| distribution_delete                  | softwarechannel_listerratabydate    |
| distribution_details                 | softwarechannel_listlatestpackages  |
| distribution_list                    | softwarechannel_listpackages        |
| distribution_rename                  | softwarechannel_listrepos           |
| distribution_update                  | softwarechannel_listsyncschedule    |
| errata_apply                         | softwarechannel_listsystems         |
| errata_delete                        | softwarechannel_mirrorpackages      |
| errata_details                       |                                     |
| softwarechannel_regenrateneededcache |                                     |
| errata_findbycve                     | softwarechannel_regenerationymcache |
| errata_list                          | softwarechannel_removeerrata        |
| errata_listaffectedsystems           | softwarechannel_removepackages      |
| errata_listcves                      | softwarechannel_removerrepo         |
| errata_publish                       | softwarechannel_removesyncschedule  |
| errata_search                        | softwarechannel_setorgaccess        |

|                                   |                                 |
|-----------------------------------|---------------------------------|
| errata_summary                    | softwarechannel_setsyncschedule |
| filepreservation_create           | softwarechannel_sync            |
| filepreservation_delete           | softwarechannel_syncrepos       |
| filepreservation_details          | ssm_add                         |
| filepreservation_list             | ssm_clear                       |
| get_apiversion                    | ssm_intersect                   |
| get_certificateexpiration         | ssm_list                        |
| get_serverversion                 | ssm_remove                      |
| get_session                       | system_addchildchannels         |
| group_addsystems                  | system_addconfigchannels        |
| group_backup                      | system_addconfigfile            |
| group_create                      | system_addcustomvalue           |
| group_delete                      | system_addentitlements          |
| group_details                     | system_addnote                  |
| group_list                        | system_applyerrata              |
| group_listsystems                 | system_comparepackageprofile    |
| group_removesystems               | system_comparepackages          |
| group_restore                     | system_COMPAREWITHCHANNEL       |
| help                              | system_createpackageprofile     |
| history                           | system_delete                   |
| kickstart_addactivationkeys       | system_deletenotes              |
| kickstart_addchildchannels        | system_DELETEPACKAGEPROFILE     |
| kickstart_addcryptokeys           | system_deployconfigfiles        |
| kickstart_addfilepreservations    | system_details                  |
| kickstart_addoption               | 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_removescrypt            | 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                    |
| kickstart_setupdatetype           | user_list                      |
| kickstart_updatevariable          | user_listavailableroles        |
| list_proxies                      | user_removedefaultgroup        |
| login                             | user_removegroup               |
| logout                            | user_removerole                |
| 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

## 2.3. 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}>
```

## 2.4. Troubleshooting spacecmd

This section provides troubleshooting solutions when working with spacecmd

### 2.4.1. 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 nossl=0
```

#### Cause

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

### 2.4.2. 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
```

### 2.4.3. `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
```

## 2.5. `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.

### 2.5.1. activationkey

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

#### 2.5.1.1. activationkey\_addchildchannels

Add child channels to an activation key.

```
用法: activationkey_addchildchannels KEY <通道 ...>
```

#### 2.5.1.2. 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
```

### 2.5.1.3. activationkey\_addentitlements

Add available entitlements to an activation key.

用法: activationkey\_addentitlements KEY <权利 ...>



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.

### 2.5.1.4. activationkey\_addgroups

Add existing groups to an activation key.

用法: activationkey\_addgroups KEY <组 ...>

### 2.5.1.5. activationkey\_addpackages

Add packages to an activation key.

用法: activationkey\_addpackages KEY <软件包 ...>

### 2.5.1.6. 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
```

### 2.5.1.7. 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]
```

### 2.5.1.8. activationkey\_delete

Delete an existing activation key.

```
用法: activationkey_delete KEY
```

### 2.5.1.9. activationkey\_details

Show details of an existing activation key.

```
用法: activationkey_details KEY ...
```

### 2.5.1.10. activationkey\_diff

Check the difference between two activation keys.

```
usage: activationkey_diff SOURCE_ACTIVATIONKEY TARGET_ACTIVATIONKEY
```

### 2.5.1.11. activationkey\_disable

Disable an existing activation key.

```
用法: activationkey_disable KEY [KEY ...]
```

### 2.5.1.12. activationkey\_disableconfigdeployment

Disable configuration channel deployment for an existing activation key.

用法: activationkey\_disableconfigdeployment KEY

### 2.5.1.13. activationkey\_enable

Enable an existing activation key.

用法: activationkey\_enable KEY [KEY ...]

### 2.5.1.14. activationkey\_enableconfigdeployment

Enable configuration channel deployment for an existing activation key.

用法: activationkey\_enableconfigdeployment KEY

### 2.5.1.15. 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
```

### 2.5.1.16. activationkey\_import

Import activation keys from JSON files

用法: activationkey\_import <JSON 文件 ...>

### 2.5.1.17. activationkey\_list

List all existing activation keys.

用法: activationkey\_list

### 2.5.1.18. activationkey\_listbasechannel

List the base channel associated with an activation key.

用法: activationkey\_listbasechannel KEY

### 2.5.1.19. activationkey\_listchildchannels

List child channels associated with an activation key.

用法: activationkey\_listchildchannels KEY

### 2.5.1.20. activationkey\_listconfigchannels

List configuration channels associated with an activation key.

用法: activationkey\_listconfigchannels KEY

### 2.5.1.21. activationkey\_listentitlements

List entitlements associated with an activation key.

用法: activationkey\_listentitlements KEY

### 2.5.1.22. activationkey\_listgroups

List groups associated with an activation key

用法: activationkey\_listgroups KEY

### 2.5.1.23. activationkey\_listpackages

List packages associated with an activation key.

用法: activationkey\_listpackages KEY

### 2.5.1.24. activationkey\_listsystems

List systems registered with an activation key.

用法: activationkey\_listsystems KEY

### 2.5.1.25. activationkey\_removechildchannels

Remove child channels from an activation key.

用法: activationkey\_removechildchannels KEY <通道 ...>

### 2.5.1.26. activationkey\_removeconfigchannels

Remove configuration channels from an activation key.

用法: activationkey\_removeconfigchannels KEY <通道 ...>

### 2.5.1.27. activationkey\_removeentitlements

Remove entitlements from an activation key.

用法: activationkey\_removeentitlements KEY <权利 ...>

### 2.5.1.28. activationkey\_removegroups

Remove groups from an activation key.

用法: activationkey\_removegroups KEY <组 ...>

### 2.5.1.29. activationkey\_removepackages

Remove packages from an activation key.

用法: activationkey\_removepackages KEY <软件包 ...>

### 2.5.1.30. activationkey\_setbasechannel

Set the base channel for an activation key.

用法: activationkey\_setbasechannel KEY CHANNEL

### 2.5.1.31. activationkey\_setconfigchannelorder

Set the ranked order of configuration channels.

用法: activationkey\_setconfigchannelorder KEY

### 2.5.1.32. 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.)

用法: activationkey\_setcontactmethod KEY CONTACT\_METHOD

### 2.5.1.33. activationkey\_setdescription

Add a description for an activation key.

用法: activationkey\_setdescription KEY DESCRIPTION

### 2.5.1.34. activationkey\_setuniversaldefault

Set a specific key as the universal default.

用法: activationkey\_setuniversaldefault KEY



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

## 2.5.2. 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 SUSE Manager 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.

### 2.5.2.1. 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
```

### 2.5.3. clear

Clears the terminal screen.

### 2.5.4. clear\_caches

Clear the internal caches kept for systems and packages.

用法: clear\_caches

### 2.5.5. configchannel

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

#### 2.5.5.1. 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 [defualt: 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 charaters 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.

### 2.5.5.2. configchannel\_backup

Backup a configuration channel.

```
usage: configchannel_backup CHANNEL [OUTDIR]

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

### 2.5.5.3. 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

#### 2.5.5.4. configchannel\_create

Create a configuration channel.

usage: configchannel\_create [options]

options:

- n NAME
- l LABEL
- d DESCRIPTION

#### 2.5.5.5. configchannel\_delete

Delete a configuration channel.

用法: configchannel\_delete CHANNEL ...

#### 2.5.5.6. configchannel\_details

Show the details of a configuration channel.

用法: configchannel\_details CHANNEL ...

#### 2.5.5.7. configchannel\_diff

Find differences between configuration channels.

用法: configchannel\_diff SOURCE\_CHANNEL TARGET\_CHANNEL

### 2.5.5.8. 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

### 2.5.5.9. configchannel\_filedetails

Show the details of a file in a configuration channel.

用法: configchannel\_filedetails CHANNEL FILE [修订版]

### 2.5.5.10. configchannel\_forcedeploy

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

用法: configchannel\_forcedeploy CHANNEL

### 2.5.5.11. configchannel\_import

Import configuration channels from a json file.

用法: configchannel\_import <JSON 文件...>

### 2.5.5.12. configchannel\_list

List all configuration channels.

用法: configchannel\_list

### 2.5.5.13. configchannel\_listfiles

List all files in a configuration channel.

用法: configchannel\_listfiles CHANNEL ...

### 2.5.5.14. configchannel\_listsystems

List all systems subscribed to a configuration channel.

用法: configchannel\_listsystems CHANNEL

### 2.5.5.15. configchannel\_removefiles

Remove configuration files.

usage: configchannel\_removefile CHANNEL <FILE ...>

### 2.5.5.16. configchannel\_sync

Sync configuration files between two configuration channels.

用法: configchannel\_sync SOURCE\_CHANNEL TARGET\_CHANNEL

### 2.5.5.17. configchannel\_updatefile

Update a configuration file.

usage: configchannel\_updatefile CHANNEL FILE

### 2.5.5.18. configchannel\_verifyfile

Verify a configuration file.

用法: configchannel\_verifyfile CHANNEL FILE <系统>

<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

## 2.5.6. cryptokey

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

### 2.5.6.1. cryptokey\_create

Create a cryptographic key.

usage: cryptokey\_create [options]

options:

- t GPG or SSL
- d DESCRIPTION
- f KEY\_FILE

### 2.5.6.2. cryptokey\_delete

Delete a cryptographic key.

用法: cryptokey\_delete NAME

### 2.5.6.3. cryptokey\_details

Show the contents of a cryptographic key.

用法: cryptokey\_details KEY ...

### 2.5.6.4. cryptokey\_list

List all cryptographic keys (SSL, GPG).

用法: cryptokey\_list

## 2.5.7. custominfo

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

### 2.5.7.1. custominfo\_createkey

Create a custom key.

用法: `custominfo_createkey [名称] [说明]`

### 2.5.7.2. custominfo\_deletekey

Delete a custom key.

用法: `custominfo_deletekey KEY ...`

### 2.5.7.3. custominfo\_details

Show the details of a custom key.

用法: `custominfo_details KEY ...`

### 2.5.7.4. custominfo\_listkeys

List all custom keys.

用法: `custominfo_listkeys`

### 2.5.7.5. custominfo\_updatekey

Update a custom key.

用法: `custominfo_updatekey [名称] [说明]`

## 2.5.8. distribution

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

### 2.5.8.1. 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]
```

### 2.5.8.2. distribution\_delete

Delete a Kickstart tree.

```
用法: distribution_delete LABEL
```

### 2.5.8.3. distribution\_details

Show the details of a Kickstart tree.

```
用法: distribution_details LABEL
```

### 2.5.8.4. distribution\_list

List the available autoinstall trees.

```
用法: distribution_list
```

### 2.5.8.5. distribution\_rename

Rename a Kickstart tree.

```
用法: distribution_rename OLDNAME NEWNAME
```

### 2.5.8.6. 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]
```

## 2.5.9. errata

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

### 2.5.9.1. errata\_apply

Apply an patch to all affected systems.

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

### 2.5.9.2. errata\_delete

Delete an patch.

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

### 2.5.9.3. errata\_details

Show the details of an patch.

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

### 2.5.9.4. errata\_findbycve

List errata addressing a CVE.

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

### 2.5.9.5. errata\_list

List all patches.

```
用法: errata_list
```

### 2.5.9.6. errata\_listaffectedsystems

List of systems affected by an patch.

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

### 2.5.9.7. errata\_listcves

List of CVEs addressed by an patch.

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

### 2.5.9.8. errata\_publish

Publish a patch to a channel.

```
用法: errata_publish ERRATA|search:XXX <通道 ...>
```

### 2.5.9.9. errata\_search

List patches that meet user provided criteria

```
用法: errata_search CVE|RHSA|RHBAs|RHEA|CLA ...
```

示例:

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

### 2.5.9.10. errata\_summary

Print a summary of all errata.

```
用法: errata_summary
```

## 2.5.10. filepreservation

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

### 2.5.10.1. filepreservation\_create

Create a file preservation list.

用法: filepreservation\_create [名称] [文件 ...]

### 2.5.10.2. filepreservation\_delete

Delete a file preservation list.

filepreservation\_delete NAME

### 2.5.10.3. filepreservation\_details

Show the details of a file preservation list.

用法: filepreservation\_details NAME

### 2.5.10.4. filepreservation\_list

List all file preservations.

用法: filepreservation\_list

## 2.5.11. get

The following spacecmd commands are available for use with get.

### 2.5.11.1. get\_apiversion

Display the API version of the server.

用法: get\_apiversion

### 2.5.11.2. get\_certificateexpiration

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

usage: get\_certificateexpiration

### 2.5.11.3. get\_serverversion

Display SUSE Manager server version.

用法: get\_serverversion

#### 2.5.11.4. get\_session

Show the current session string.

用法: get\_session

### 2.5.12. group

#### 2.5.12.1. group\_addsystems

Add systems to a group.

用法: group\_addsystems GROUP <系统>

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

#### 2.5.12.2. group\_backup

Backup a system group.

usage: group\_backup NAME [OUTDIR]

OUTDIR defaults to \$HOME/spacecmd-backup/group/YYYY-MM-DD/NAME

#### 2.5.12.3. group\_create

Create a system group.

用法: group\_create [名称] [说明]

#### 2.5.12.4. group\_delete

Delete a system group.

用法: group\_delete NAME ...

### 2.5.12.5. group\_details

Show the details of a system group.

```
用法: group_details GROUP ...
```

### 2.5.12.6. group\_list

List available system groups.

```
用法: group_list
```

### 2.5.12.7. group\_listsystems

List the members of a group.

```
用法: group_listsystems GROUP
```

### 2.5.12.8. group\_removesystems

Remove systems from a group.

```
用法: group_removesystems GROUP <系统>
```

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

### 2.5.12.9. group\_restore

Restore a system group.

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

## 2.5.13. kickstart

The following spacecmd functions are available for use with kickstart.

### 2.5.13.1. kickstart\_addactivationkeys

Add activation keys to a Kickstart profile.

用法: kickstart\_addactivationkeys PROFILE <密钥 ...>

### 2.5.13.2. kickstart\_addchildchannels

Add a child channels to a Kickstart profile.

用法: kickstart\_addchildchannels PROFILE <通道 ...>

### 2.5.13.3. kickstart\_addcryptokeys

Add cryptography keys to a Kickstart profile.

用法: kickstart\_addcryptokeys PROFILE <密钥 ...>

### 2.5.13.4. kickstart\_addfilepreservations

Add file preservations to a Kickstart profile.

用法: kickstart\_addfilepreservations PROFILE <文件列表 ...>

### 2.5.13.5. kickstart\_adoption

Set an option for a Kickstart profile.

用法: kickstart\_adoption PROFILE KEY [值]

### 2.5.13.6. kickstart\_addpackages

Add packages to a Kickstart profile.

用法: kickstart\_addpackages PROFILE <软件包 ...>

### 2.5.13.7. 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
```

### 2.5.13.8. kickstart\_addvariable

Add a variable to a Kickstart profile.

```
用法: kickstart_addvariable PROFILE KEY VALUE
```

### 2.5.13.9. kickstart\_clone

Clone a Kickstart profile.

```
usage: kickstart_clone [options]

options:
  -n NAME
  -c CLONE_NAME
```

### 2.5.13.10. 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']
```

### 2.5.13.11. kickstart\_delete

Delete kickstart profiles.

```
usage: kickstart_delete PROFILE usage: kickstart_delete PROFILE1 PROFILE2
usage: kickstart_delete "PROF*"
```

### 2.5.13.12. kickstart\_details

Show the details of a Kickstart profile.

```
用法: kickstart_details PROFILE
```

### 2.5.13.13. kickstart\_diff

List differences between two kickstart files.

```
用法: kickstart_diff SOURCE_CHANNEL TARGET_CHANNEL
```

### 2.5.13.14. kickstart\_disableconfigmanagement

Disable configuration management on a Kickstart profile.

```
用法: kickstart_disableconfigmanagement PROFILE
```

### 2.5.13.15. kickstart\_disableremotecommands

Disable remote commands on a Kickstart profile.

```
用法: kickstart_disableremotecommands PROFILE
```

### 2.5.13.16. kickstart\_enableconfigmanagement

Enable configuration management on a Kickstart profile.

```
用法: kickstart_enableconfigmanagement PROFILE
```

### 2.5.13.17. kickstart\_enablelogging

Enable logging for a Kickstart profile.

```
用法: kickstart_enablelogging PROFILE
```

### 2.5.13.18. kickstart\_enableremotecommands

Enable remote commands on a Kickstart profile.

```
用法: kickstart_enableremotecommands PROFILE
```

### 2.5.13.19. 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
```

### 2.5.13.20. kickstart\_getcontents

Show the contents of a Kickstart profile as they would be presented to a client.

```
用法: kickstart_getcontents LABEL
```

### 2.5.13.21. kickstart\_getsoftwaredetails

Gets kickstart profile software details.

```
usage: kickstart_getsoftwaredetails KS_LABEL usage:
kickstart_getsoftwaredetails KS_LABEL KS_LABEL2 ...
```

### 2.5.13.22. kickstart\_getupdatetype

Get the update type for a kickstart profiles.

```
usage: kickstart_getupdatetype PROFILE usage: kickstart_getupdatetype
PROFILE1 PROFILE2 usage: kickstart_getupdatetype "PROF*"
```

### 2.5.13.23. 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']
```

### 2.5.13.24. 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']
```

### 2.5.13.25. kickstart\_importjson

Import kickstart profiles from json file.

```
用法: kickstart_import <JSON 文件...>
```

### 2.5.13.26. kickstart\_list

List the available Kickstart profiles.

```
用法: kickstart_list
```

### 2.5.13.27. kickstart\_listactivationkeys

List the activation keys associated with a Kickstart profile.

```
用法: kickstart_listactivationkeys PROFILE
```

### 2.5.13.28. kickstart\_listchildchannels

List the child channels of a Kickstart profile.

用法: `kickstart_listchildchannels PROFILE`

### 2.5.13.29. kickstart\_listcryptokeys

List the crypto keys associated with a Kickstart profile.

用法: `kickstart_listcryptokeys PROFILE`

### 2.5.13.30. kickstart\_listcustomoptions

List the custom options of a Kickstart profile.

用法: `kickstart_listcustomoptions PROFILE`

### 2.5.13.31. kickstart\_listoptions

List the options of a Kickstart profile.

用法: `kickstart_listoptions PROFILE`

### 2.5.13.32. kickstart\_listpackages

List the packages for a Kickstart profile.

用法: `kickstart_listpackages PROFILE`

### 2.5.13.33. kickstart\_listscripts

List the scripts for a Kickstart profile.

用法: `kickstart_listscripts PROFILE`

### 2.5.13.34. kickstart\_listvariables

List the variables of a Kickstart profile.

```
用法: kickstart_listvariables PROFILE
```

### 2.5.13.35. kickstart\_removeactivationkeys

Remove activation keys from a Kickstart profile.

```
用法: kickstart_removeactivationkeys PROFILE <密钥 ...>
```

### 2.5.13.36. kickstart\_removechildchannels

Remove child channels from a Kickstart profile.

```
用法: kickstart_removechildchannels PROFILE <通道 ...>
```

### 2.5.13.37. kickstart\_removecryptokeys

Remove crypto keys from a Kickstart profile.

```
用法: kickstart_removecryptokeys PROFILE <密钥 ...>
```

### 2.5.13.38. kickstart\_removefilepreservations

Remove file preservations from a Kickstart profile.

```
用法: kickstart_removefilepreservations PROFILE <文件 ...>
```

### 2.5.13.39. kickstart\_removeoptions

Remove options from a Kickstart profile.

```
用法: kickstart_removeoptions PROFILE <选项 ...>
```

### 2.5.13.40. kickstart\_removepackages

Remove packages from a Kickstart profile.

```
用法: kickstart_removepackages PROFILE <软件包 ...>
```

### 2.5.13.41. kickstart\_removescript

Add a script to a Kickstart profile.

```
用法: kickstart_removescript PROFILE [ID]
```

### 2.5.13.42. kickstart\_removevariables

Remove variables from a Kickstart profile.

```
用法: kickstart_removevariables PROFILE <密钥 ...>
```

### 2.5.13.43. kickstart\_rename

Rename a Kickstart profile

```
用法: kickstart_rename OLDNAME NEWNAME
```

### 2.5.13.44. kickstart\_setcustomoptions

Set custom options for a Kickstart profile.

```
用法: kickstart_setcustomoptions PROFILE
```

### 2.5.13.45. kickstart\_setdistribution

Set the distribution for a Kickstart profile.

```
用法: kickstart_setdistribution PROFILE DISTRIBUTION
```

### 2.5.13.46. kickstart\_setlocale

Set the locale for a Kickstart profile.

```
用法: kickstart_setlocale PROFILE LOCALE
```

### 2.5.13.47. kickstart\_setpartitions

Set the partitioning scheme for a Kickstart profile.

```
用法: kickstart_setpartitions PROFILE
```

### 2.5.13.48. kickstart\_setselinux

Set the SELinux mode for a Kickstart profile.

```
用法: kickstart_setselinux PROFILE MODE
```

### 2.5.13.49. kickstartsetupdatetype

Set the update type for a kickstart profiles.

```
usage: kickstartsetupdatetype [options] KS_LABEL
```

options:

```
-u UPDATE_TYPE ['red_hat', 'all', 'none']
```

### 2.5.13.50. kickstart\_updatevariable

Update a variable in a Kickstart profile.

```
用法: kickstart_updatevariable PROFILE KEY VALUE
```

## 2.5.14. list\_proxies

The following spacecmd function is available for listing proxies.

### 2.5.14.1. list\_proxies

List the proxies within the user's organization.

```
用法: list_proxies
```

## 2.5.15. login

Connect as a specific user to the SUSE manager server.

```
# spacecmd -- login <USERNAME>
```

## 2.5.16. logout

Logout from server as the current user.

```
# spacecmd -- logout
```

## 2.5.17. org

The following `spacecmd` functions are available for use with organizations.

### 2.5.17.1. org\_addtrust

Add a trust between two organizations

```
用法: org_addtrust YOUR_ORG ORG_TO_TRUST
```

### 2.5.17.2. 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
```

### 2.5.17.3. 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
```

#### 2.5.17.4. org\_delete

Delete an organization.

```
用法: org_delete NAME
```

#### 2.5.17.5. org\_details

Show the details of an organization.

```
用法: org_details NAME
```

#### 2.5.17.6. org\_list

List all organizations.

```
用法: org_list
```

#### 2.5.17.7. org\_listtrusts

List an organization's trusts.

```
org_listtrusts NAME
```

#### 2.5.17.8. org\_listusers

List an organization's users.

```
org_listusers NAME
```

### 2.5.17.9. org\_removetrust

Remove a trust between two organizations.

```
用法: org_removetrust YOUR_ORG TRUSTED_ORG
```

### 2.5.17.10. org\_rename

Rename an organization.

```
用法: org_rename OLDNAME NEWNAME
```

### 2.5.17.11. org\_trustdetails

Show the details of an organizational trust.

```
用法: org_trustdetails TRUSTED_ORG
```

## 2.5.18. 软件包

The following spacecmd functions are available for working with packages.

### 2.5.18.1. package\_details

Show the details of a software package.

```
usage: package_details PACKAGE ...
```

### 2.5.18.2. package\_listdependencies

List the dependencies for a package.

```
用法: package_listdependencies PACKAGE
```

### 2.5.18.3. package\_listerrata

List the errata that provide this package.

```
用法: package_listerrata PACKAGE ...
```

#### 2.5.18.4. package\_listinstalledsystems

List the systems with a package installed.

用法: package\_listinstalledsystems PACKAGE ...

#### 2.5.18.5. package\_listorphans

List packages that are not in a channel.

用法: package\_listorphans

#### 2.5.18.6. package\_remove

Remove a package from SUSE Manager/Satellite

用法: package\_remove PACKAGE ...

#### 2.5.18.7. package\_removeorphans

Remove packages that are not in a channel.

用法: package\_removeorphans

#### 2.5.18.8. package\_search

Find packages that meet the given criteria.

用法: package\_search NAME | QUERY

示例: package\_search kernel

Advanced Search

可用字段: name、epoch、version、release、arch、description、summary

示例: name:kernel AND version:2.6.18 AND -description:devel

## 2.5.19. proxy\_container\_config

The following spacecmd functions are available for use with proxy container configuration

### 2.5.19.1. 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.
```

## 2.5.19.2. 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.
```

## 2.5.20. repo

The following spacecmd functions are available for working with repositories.

### 2.5.20.1. repo\_addfilters

Add filters for a user repository.

```
usage: repo_addfilters repo <filter ...>
```

### 2.5.20.2. repo\_clearfilters

Clears the filters for a user repository.

```
usage: repo_clearfilters repo
```

### 2.5.20.3. 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)
```

### 2.5.20.4. repo\_delete

Delete a user repository.

```
usage: repo_delete <repo ...>
```

### 2.5.20.5. repo\_details

Show the details of a user repository.

```
usage: repo_details <repo ...>
```

### 2.5.20.6. repo\_list

List all available user repository.

```
usage: repo_list
```

### 2.5.20.7. 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 ...>
```

## 2.5.20.8. repo\_rename

Rename a user repository.

```
usage: repo_rename OLDNAME NEWNAME
```

## 2.5.20.9. repo\_setfilters

Set the filters for a user repo.

```
usage: repo_setfilters repo <filter ...>
```

## 2.5.20.10. 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)
```

## 2.5.20.11. repo\_updateurl

Change the URL of a user repository.

```
usage: repo_updateurl <repo> <url>
```

## 2.5.21. report

The following spacecmd functions are available for working with reports.

### 2.5.21.1. report\_duplicates

List duplicate system profiles.

```
usage: report_duplicates
```

## 2.5.21.2. report\_errata

List all errata and how many systems they affect.

```
usage: report_errata [ERRATA|search:XXX ...]
```

### 2.5.21.2.1. report\_inactivesystems

List all inactive systems.

```
usage: report_inactivesystems [DAYS]
```

## 2.5.21.3. report\_ipaddresses

List the hostname and IP of each system.

```
usage: report_network [<SYSTEMS>]
```

<系统> 可为以下任一值：

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.21.4. report\_kernels

List the running kernel of each system.

```
usage: report_kernels [<SYSTEMS>]
```

<系统> 可为以下任一值：

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.21.5. report\_outofdatesystems

List all out-of-date systems.

```
usage: report_outofdatesystems
```

### 2.5.21.6. report\_ungroupedsystems

List all ungrouped systems.

```
usage: report_ungroupedsystems
```

## 2.5.22. scap

The following spacecmd functions are available for working with OpenSCAP.

### 2.5.22.1. scap\_getxccdfscandetails

Get details of given OpenSCAP XCCDF scan.

```
usage: scap_getxccdfscandetails <XID>
```

### 2.5.22.2. scap\_getxccdfscanruleresults

Return a full list of RuleResults for given OpenSCAP XCCDF scan.

```
usage: scap_getxccdfscanruleresults <XID>
```

### 2.5.22.3. scap\_listxccdfscans

Return a list of finished OpenSCAP scans for given systems.

```
usage: scap_listxccdfscans <SYSTEMS>
```

### 2.5.22.4. scap\_schedulexccdfscan

Schedule Scap XCCDF scan.

```
usage: scap_schedulexccdfscan PATH_TO_XCCDF_FILE XCCDF_OPTIONS SYSTEMS
```

Example:

```
> scap_schedulexccdfscan '/usr/share/openscap/scap-security-xccdf.xml'
'profile Web-Default' \
system-scap.example.com
```

## 2.5.23. schedule

The following spacecmd functions are available for working with scheduling.

### 2.5.23.1. schedule\_cancel

Cancel a scheduled action.

```
usage: schedule_cancel ID|* ...
```

### 2.5.23.2. schedule\_details

Show the details of a scheduled action.

```
usage: schedule_details ID
```

### 2.5.23.3. schedule\_getoutput

Show the output from an action.

```
usage: schedule_getoutput ID
```

### 2.5.23.4. 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

### 2.5.23.5. 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

### 2.5.23.6. 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

### 2.5.23.7. 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

### 2.5.23.8. 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

## 2.5.23.9. schedule\_reschedule::

Reschedule failed actions.

```
usage: schedule_reschedule ID|* ...
```

## 2.5.24. snippet

The following spacecmd functions are available for working with Kickstart snippets.

### 2.5.24.1. snippet\_create

Create a Kickstart snippet

```
usage: snippet_create [options]
```

options:

-n NAME

-f FILE

## 2.5.24.2. snippet\_delete

Delete a Kickstart snippet.

```
usage: snippet_removefile NAME
```

## 2.5.24.3. snippet\_details

Show the contents of a snippet.

```
usage: snippet_details SNIPPET ...
```

## 2.5.24.4. snippet\_list

List the available Kickstart snippets.

```
usage: snippet_list
```

## 2.5.24.5. snippet\_update

Update a Kickstart snippet.

```
usage: snippet_update NAME
```

## 2.5.25. softwarechannel

The following spacecmd functions are available for working with software channels.

### 2.5.25.1. 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
```

### 2.5.25.2. 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)
```

### 2.5.25.3. softwarechannel\_addpackages

Add packages to a software channel.

```
usage: softwarechannel_addpackages CHANNEL <PACKAGE ...>
```

### 2.5.25.4. softwarechannel\_addrepo

Add a repo to a software channel.

```
usage: softwarechannel_addrepo CHANNEL REPO
```

### 2.5.25.5. 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
```

### 2.5.25.6. 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

```

## 2.5.25.7. 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

```

## 2.5.25.8. softwarechannel\_delete

Delete a software channel.

```
usage: softwarechannel_delete <CHANNEL ...>
```

## 2.5.25.9. softwarechannel\_details

Show the details of a software channel.

```
usage: softwarechannel_details <CHANNEL ...>
```

## 2.5.25.10. softwarechannel\_diff

Check the difference between software channels.

```
usage: softwarechannel_diff SOURCE_CHANNEL TARGET_CHANNEL
```

## 2.5.25.11. softwarechannel\_errata\_diff

Check the difference between software channel files.

```
usage: softwarechannel_errata_diff SOURCE_CHANNEL TARGET_CHANNEL
```

## 2.5.25.12. softwarechannel\_errata\_sync

Sync errata of two software channels.

```
usage: softwarechannel_errata_sync SOURCE_CHANNEL TARGET_CHANNEL
```

## 2.5.25.13. 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)
```

## 2.5.25.14. 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)
```

## 2.5.25.15. softwarechannel\_listallpackages

List all packages in a channel.

```
usage: softwarechannel_listallpackages CHANNEL
```

## 2.5.25.16. softwarechannel\_listbasechannels

List all base software channels.

```
usage: softwarechannel_listbasechannels [options]
options:
  -v verbose (display label and summary)
```

## 2.5.25.17. 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)
```

## 2.5.25.18. softwarechannel\_listerrata

List the errata associated with a software channel.

```
usage: softwarechannel_listerrata <CHANNEL ...> [from=yyyymmdd
[to=yyyymmdd]]
```

## 2.5.25.19. softwarechannel\_listerratabydate

List errata from channel based on a date range.

```
usage: softwarechannel_listerratabydate CHANNEL BEGINDATE ENDDATE
Date format : YYYYMMDD
```

## 2.5.25.20. softwarechannel\_listlatestpackages

List the newest version of all packages in a channel.

```
usage: softwarechannel_listlatestpackages CHANNEL
```

## 2.5.25.21. softwarechannel\_listpackages

List the most recent packages available from a software channel.

```
usage: softwarechannel_listpackages CHANNEL
```

## 2.5.25.22. softwarechannel\_listrepos

List the repos for a software channel.

```
usage: softwarechannel_listrepos CHANNEL
```

## 2.5.25.23. softwarechannel\_listsyncschedule

List sync schedules for all software channels.

```
usage: softwarechannel_listsyncschedule : List all channels
```

## 2.5.25.24. softwarechannel\_listsystems

List all systems subscribed to a software channel.

```
usage: softwarechannel_listsystems CHANNEL
```

## 2.5.25.25. softwarechannel\_mirrorpackages

Download packages of a given channel.

```
usage: softwarechannel_mirrorpackages CHANNEL
```

Options:

```
-l/--latest : Only mirror latest package version
```

## 2.5.25.26. softwarechannel\_regenrateneededcache

Regenerate the needed errata and package cache for all systems.

```
usage: softwarechannel_regenrateneededcache
```

## 2.5.25.27. softwarechannel\_regenrateyumcache

Regenerate the YUM cache for a software channel.

```
usage: softwarechannel_regenrateyumcache <CHANNEL ...>
```

## 2.5.25.28. softwarechannel\_removeerrata

Remove patches from a software channel.

```
usage: softwarechannel_removeerrata CHANNEL <ERRATA:search:XXX ...>
```

## 2.5.25.29. softwarechannel\_removepackages

Remove packages from a software channel.

```
usage: softwarechannel_removepackages CHANNEL <PACKAGE ...>
```

## 2.5.25.30. softwarechannel\_removerrepo

Remove a repo from a software channel.

```
usage: softwarechannel_removerrepo CHANNEL REPO
```

## 2.5.25.31. softwarechannel\_removesyncschedule

Removes the repo sync schedule for a software channel.

```
usage: softwarechannel_setsyncschedule <CHANNEL>
```

## 2.5.25.32. 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)
```

### 2.5.25.33. 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 * * ?
```

### 2.5.25.34. softwarechannel\_sync

Sync the packages of two software channels.

```
usage: softwarechannel_sync SOURCE_CHANNEL TARGET_CHANNEL
```

### 2.5.25.35. softwarechannel\_syncrepos

Sync users repos for a software channel.

```
usage: softwarechannel_syncrepos <CHANNEL ...>
```

## 2.5.26. ssm

The following spacecmd functions are available for use with the system set manager (SSM).

### 2.5.26.1. ssm\_add

Add systems to the SSM.

```
usage: ssm_add <SYSTEMS>

see 'help ssm' for more details

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.26.2. ssm\_clear

Remove all systems from the SSM.

```
usage: ssm_clear
```

### 2.5.26.3. 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> 可以是以下任意一个:
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.26.4. ssm\_list

List the systems currently in the SSM.

```
usage: ssm_list

see 'help ssm' for more details
```

## 2.5.26.5. ssm\_remove

Remove systems from the SSM.

+

```
usage: ssm_remove <SYSTEMS>

see 'help ssm' for more details

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

## 2.5.27. system

The following spacecmd functions are available for use with systems.

### 2.5.27.1. system\_addchildchannels

Add child channels to a system.

```
usage: system_addchildchannels <SYSTEMS> <CHANNEL ...>

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.2. 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

<系统> 可为以下任一值:

name

ssm (请参见 'help ssm')

search:QUERY (请参见 'help system\_search')

group:GROUP

channel:CHANNEL

### 2.5.27.3. 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 [defualt: 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 automatically detect files which require this, but you may need to explicitly specify.

#### 2.5.27.4. system\_addcustomvalue

Set a custom value for a system.

```
usage: system_addcustomvalue KEY VALUE <SYSTEMS>
```

<系统> 可为以下任一值:  
name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.5. system\_addentitlements

Add entitlements to a system.

```
usage: system_addentitlements <SYSTEMS> ENTITLEMENT
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.6. system\_addnote

Set a note for a system.

```
usage: system_addnote <SYSTEM> [options]
```

options:

-s SUBJECT  
-b BODY

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.7. system\_applyerrata

Apply errata to a system.

```
usage: system_applyerrata <SYSTEMS> [ERRATA|search:XXX ...]
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.8. system\_comparepackageprofile

Compare a system against a package profile.

```
usage: system_comparepackageprofile <SYSTEMS> PROFILE
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.9. system\_comparepackages

Compare the packages between two systems.

```
usage: system_comparepackages SOME_SYSTEM ANOTHER_SYSTEM
```

## 2.5.27.10. 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

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.11. system\_createpackageprofile

Create a package profile.

```
usage: system_createpackageprofile SYSTEM [options]
options:
  -n NAME
  -d DESCRIPTION
```

### 2.5.27.12. system\_delete

Delete a system profile.

```
usage: system_delete <SYSTEMS>
<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.13. system\_deletenotes

Delete notes from a system.

```
usage: system_deletenotes <SYSTEM> <ID|*>
<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.14. system\_deletepackageprofile

Delete a package profile.

```
usage: system_deletepackageprofile PROFILE
```

### 2.5.27.15. system\_deployconfigfiles\

Deploy all configuration files for a system.

```
usage: system_deployconfigfiles <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.16. system\_details

Show the details of a system profile.

```
usage: system_details <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.17. system\_installpackage

Install a package on a system.

```
usage: system_installpackage <SYSTEMS> <PACKAGE . . .>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.18. system\_list

List all system profiles.

```
usage: system_list
```

### 2.5.27.19. system\_listbasechannel

List the base channel for a system.

```
usage: system_listbasechannel <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.20. system\_listchildchannels

List the child channels for a system.

```
usage: system_listchildchannels <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.21. system\_listconfigchannels

List the config channels of a system.

```
usage: system_listconfigchannels <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.22. 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)
```

<系统> 可为以下任一值：

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

### 2.5.27.23. system\_listcustomvalues

List the custom values for a system.

```
usage: system_listcustomvalues <SYSTEMS>
```

<系统> 可为以下任一值：

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

### 2.5.27.24. system\_listentitlements

List the entitlements for a system.

```
usage: system_listentitlements <SYSTEMS>
```

<系统> 可为以下任一值：

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.25. system\_listerrata

List available errata for a system.

```
usage: system_listerrata <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.26. system\_listevents

List the event history for a system.

```
usage: system_listevents <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.27. system\_listhardware

List the hardware details of a system.

```
usage: system_listhardware <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.28. system\_listinstalledpackages

List the installed packages on a system.

```
usage: system_listinstalledpackages <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.29. system\_listnotes

List the available notes for a system.

```
usage: system_listnotes <SYSTEM>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.30. system\_listpackageprofiles

List all package profiles.

```
usage: system_listpackageprofiles
```

### 2.5.27.31. system\_listupgrades

List the available upgrades for a system.

```
usage: system_listupgrades <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.32. system\_lock

Lock a system.

```
usage: system_lock <SYSTEMS>

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.33. system\_reboot

Reboot a system.

```
usage: system_reboot <SYSTEMS>

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.34. system\_removechildchannels

Remove child channels from a system.

```
usage: system_removechildchannels <SYSTEMS> <CHANNEL ...>

<系统> 可为以下任一值:
name
ssm (请参见 'help ssm')
search:QUERY (请参见 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.27.35. system\_removeconfigchannels

Remove config channels from a system.

```
usage: system_removeconfigchannels <SYSTEMS> <CHANNEL ...>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.36. system\_removecustomvalues

Remove a custom value for a system.

```
usage: system_removecustomvalues <SYSTEMS> <KEY ...>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.37. system\_removeentitlement

Remove an entitlement from a system.

```
usage: system_removeentitlement <SYSTEMS> ENTITLEMENT
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.38. system\_removepackage

Remove a package from a system.

```
usage: system_removepackage <SYSTEMS> <PACKAGE ...>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

### 2.5.27.39. system\_rename

Rename a system profile.

```
usage: system_rename OLDNAME NEWNAME
```

### 2.5.27.40. system\_runscript

Schedule a script to run on the list of systems provided.

```
usage: system_rundscript <SYSTEMS> [options]
```

#### options:

- u USER
- g GROUP
- t TIMEOUT
- s START\_TIME
- l LABEL
- f FILE

<系统> 可为以下任一值:

name  
 ssm (请参见 'help ssm')  
 search:QUERY (请参见 '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

## 2.5.27.41. system\_schedulehardwarerefresh

Schedule a hardware refresh for a system.

```
usage: system_schedulehardwarerefresh <SYSTEMS>
```

<系统> 可为以下任一值:

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.42. system\_schedulepackagerefresh

Schedule a software package refresh for a system.

```
usage: system_schedulepackagerefresh <SYSTEMS>
```

<系统> 可为以下任一值:

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.43. 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
```

## 2.5.27.44. system\_setbasechannel

Set a system's base software channel.

```
usage: system_setbasechannel <SYSTEMS> CHANNEL
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.45. system\_setconfigchannelorder

Set the ranked order of configuration channels.

```
usage: system_setconfigchannelorder <SYSTEMS>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.46. 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>
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.27.47. system\_show\_packageversion

Shows version of installed package on a given system.

```
usage: system_show_packageversion <SYSTEM> <PACKAGE>
```

<系统> 可为以下任一值:

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.48. system\_syncpackages

Sync packages between two systems.

```
usage: system_syncpackages SOURCE TARGET
```

### **system\_unlock**

Unlock a system.

```
usage: system_unlock <SYSTEMS>
```

<系统> 可为以下任一值:

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.49. system\_updatecustomvalue

Update a custom value for a system.

```
usage: system_updatecustomvalue KEY VALUE <SYSTEMS>
```

<系统> 可为以下任一值:

- name
- ssm (请参见 'help ssm')
- search:QUERY (请参见 'help system\_search')
- group:GROUP
- channel:CHANNEL

## 2.5.27.50. system\_upgradepackage

Upgrade a package on a system.

```
usage: system_upgradepackage <SYSTEMS> <PACKAGE . . .>|*
```

<系统> 可为以下任一值:

name  
ssm (请参见 'help ssm')  
search:QUERY (请参见 'help system\_search')  
group:GROUP  
channel:CHANNEL

## 2.5.28. toggle

The following spacecmd functions are available to toggle functions on and off.

### 2.5.28.1. toggle\_confirmations

Toggle confirmation messages on/off.

```
usage: toggle_confirmations
```

## 2.5.29. user

The following spacecmd functions are available managing users.

### 2.5.29.1. user\_adddefaultgroup

Add a default group to an user account.

```
usage: user_adddefaultgroup USER <GROUP . . .>
```

### 2.5.29.2. user\_addgroup

Add a group to an user account.

```
usage: user_addgroup USER <GROUP . . .>
```

### 2.5.29.3. user\_addrole

Add a role to an user account.

```
usage: user_addrole USER ROLE
```

#### 2.5.29.4. 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
```

#### 2.5.29.5. user\_delete

Delete an user.

```
usage: user_delete NAME
```

#### 2.5.29.6. user\_details

Show the details of an user.

```
usage: user_details USER ...
```

#### 2.5.29.7. user\_disable

Disable an user account.

```
usage: user_disable NAME
```

#### 2.5.29.8. user\_enable

Enable an user account.

```
usage: user_enable NAME
```

## 2.5.29.9. user\_list

List all users.

```
usage: user_list
```

## 2.5.29.10. user\_listavailableroles

List all available roles for users.

```
usage: user_listavailableroles
```

## 2.5.29.11. user\_removedefaultgroup

Remove a default group from an user account.

```
usage: user_removedefaultgroup USER <GROUP ...>
```

## 2.5.29.12. user\_removegroup

Remove a group to an user account.

```
usage: user_removegroup USER <GROUP ...>
```

## 2.5.29.13. user\_removerole

Remove a role from an user account.

```
usage: user_removerole USER ROLE
```

## 2.5.29.14. user\_setemail

Set an user accounts email field.

```
usage: user_setemail USER EMAIL
```

## 2.5.29.15. user\_setfirstname

Set an user accounts first name field.

```
usage: user_setfirstname USER FIRST_NAME
```

### 2.5.29.16. user\_setlastname

Set an user accounts last name field.

```
usage: user_setlastname USER LAST_NAME
```

### 2.5.29.17. user\_setpassword

Set an user accounts name prefix field.

```
usage: user_setpassword USER PASSWORD
```

### 2.5.29.18. user\_setprefix

Set an user accounts name prefix field.

```
usage: user_setprefix USER PREFIX
```

## 2.5.30. whoami

The following command is available for returning the currently logged spacecmd username.

### 2.5.30.1. whoami

Print the currently logged spacecmd user.

```
spacecmd {SSM:0}> whoami  
admin
```

## 2.5.31. whoamitalkingto

The following spacecmd function is available for returning the server hostname.

### 2.5.31.1. whoamitalkingto

Return the server hostname that spacecmd is connected with.

```
spacecmd {SSM:0}> whoamitalkingto
MGR_SERVER_HOSTNAME
```

## 2.5.32. Miscellaneous Help Topics

The following help topics are printed with all functions requiring the relevant information.

### 2.5.32.1. 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

### 2.5.32.2. systems

<SYSTEMS> can be any of the following:

```
name
ssm (see 'help ssm')
search:QUERY (see 'help system_search')
group:GROUP
channel:CHANNEL
```

### 2.5.32.3. 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 3. Command Line Tools



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。

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>
```

## 3.1. Synchronization CLI Tools



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。

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`.

### 3.1.1. 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.

此工具应与 SUSE 支持订阅配合使用。openSUSE、CentOS 和 Ubuntu 等开源发行套件不需要此工具。

下表中列出了 `mgr-sync` 的可用命令和参数。请对 `mgr-sync` 命令使用以下语法：

```
mgr-sync [-h] [--version] [-v] [-s] [-d {1,2,3}]
{list,add,refresh,delete}
```

表格 40. `mgr-sync` 命令

| 命令      | 说明                        | 示例用法                                                  |
|---------|---------------------------|-------------------------------------------------------|
| list    | 列出通道、组织身份凭证或产品            | <code>mgr-sync list channels</code>                   |
| add     | 添加通道、组织身份凭证或产品            | <code>mgr-sync add channel &lt;rrrrrrrrrr&gt;</code>  |
| refresh | 刷新产品、通道和订阅的本地副本           | <code>mgr-sync refresh</code>                         |
| delete  | 从本地系统中删除现有的 SCC 组织身份凭证    | <code>mgr-sync delete credentials</code>              |
| sync    | 同步指定的通道，如果将通道名称留空，则请求提供名称 | <code>mgr-sync sync channel &lt;rrrrrrrrrr&gt;</code> |

要查看特定于某个命令的完整选项列表，请使用以下命令：

```
mgr-sync <命令> --help
```

表格 41. `mgr-sync` 可选参数

| 选项                | 选项缩写 | 说明                               | 示例用法                                      |
|-------------------|------|----------------------------------|-------------------------------------------|
| help              | h    | 显示命令用法和选项                        | <code>mgr-sync --help</code>              |
| version           | 不适用  | 显示当前安装的 <code>mgr-sync</code> 版本 | <code>mgr-sync --version</code>           |
| verbose           | v    | 提供详细输出                           | <code>mgr-sync --verbose refresh</code>   |
| store-credentials | s    | 将身份凭证存储在本地隐藏文件中                  | <code>mgr-sync --store-credentials</code> |

| 选项      | 选项缩写 | 说明                                 | 示例用法                                                |
|---------|------|------------------------------------|-----------------------------------------------------|
| debug   | d    | 记录附加调试信息。需要指定级别 1、2、3。3 提供的调试信息量最多 | <code>mgr-sync -d 3 refresh</code>                  |
| no-sync | 不适用  | 与 add 命令结合使用，以添加产品或通道，而无需开始同步      | <code>mgr-sync --no-sync add &lt;product&gt;</code> |

`mgr-sync` 的日志位于：

- `/var/log/rhn/mgr-sync.log`
- `/var/log/rhn/rhn_web_api.log`

### 3.1.2. 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:

表格 42. spacewalk-repo-sync Options

| Option           | Description                                                      | Example Use                                                       |
|------------------|------------------------------------------------------------------|-------------------------------------------------------------------|
| list             | List all custom channels and the repositories assigned to them.  | <code>spacewalk-repo-sync --list</code>                           |
| channel          | Synchronize a single channel to all repositories assigned to it. | <code>spacewalk-repo-sync --channel &lt;custom-channel&gt;</code> |
| 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
```

### 3.1.3. 同步查错

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
```

### 3.1.3.1. 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.

## 3.2. Channel Management CLI Tools



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。

There are tools for managing channels on the server. With `spacewalk-remove-channel`, list and delete channels in various ways.

### 3.2.1. 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:

表格 43. `spacewalk-remove-channel` Options

| Option                             | Description                                                                            | Example Use                                                                         |
|------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <code>list</code>                  | List defined channels and exit.                                                        | <code>spacewalk-remove-channel --list</code>                                        |
| <code>channel</code>               | Delete this channel (can be present multiple times).                                   | <code>spacewalk-remove-channel --channel=CHANNEL</code>                             |
| <code>channel-with-children</code> | Delete this channel and its child channels (can be present multiple times).            | <code>spacewalk-remove-channel --channel-with-children=CHANNEL_WITH_CHILDREN</code> |
| <code>unsubscribe</code>           | Unsubscribe systems registered to the specified channels. Note: Credentials are needed | <code>spacewalk-remove-channel --unsubscribe</code>                                 |
| <code>justdb</code>                | Delete only from the database, do not remove files from disk.                          | <code>spacewalk-remove-channel --justdb</code>                                      |
| <code>just-kickstart-trees</code>  | Remove only the kickstart trees for the channels specified.                            | <code>spacewalk-remove-channel --just-kickstart-trees</code>                        |
| <code>skip-channels</code>         | 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](#).

## 3.3. 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
```

## 3.4. 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.



要在服务器容器内访问外壳，请在容器主机上运行 `mgrctl term`。在该主机上，可以像往常一样运行 CLI 工具。



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.

表格 44. Database Options

| Option                      | Description                                                |
|-----------------------------|------------------------------------------------------------|
| <code>backup-hot</code>     | Enable continuous archiving backup                         |
| <code>backup-restore</code> | Restore the database from backup.                          |
| <code>backup-status</code>  | Show backup status.                                        |
| <code>db-start</code>       | Start the database.                                        |
| <code>db-status</code>      | Show database status.                                      |
| <code>db-stop</code>        | Stop the database.                                         |
| <code>space-overview</code> | Show database space report.                                |
| <code>space-reclaim</code>  | Free disk space from unused objects in tables and indexes. |
| <code>space-tables</code>   | Show space report for each table.                          |
| <code>system-check</code>   | Perform a back-end health check.                           |
| <code>help</code>           | Show help message and exit.                                |

Each option has additional help available. See the help using this syntax:

```
smdba <OPTION> --help
```

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