



U Y U N I

Uyuni 2021.09

Common Workflows

January 27 2022



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Cookbook overview

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The Uyuni Cookbook covers all the essential workflows you need to install, manage, and configure your clients with Uyuni. Each recipe in this book has a clear goal, and provides detailed steps to achieve that goal. It is designed to help you better understand both routine and advanced tasks, by explaining what you are achieving in each step, and the various options available to you along the way. Each routine will be described as **Snippets** > **Recipe1**.

Chapter 1. Recipe: Onboarding

Uyuni is all about managing client systems. So one of the first things you need to do is onboard some clients. This recipe shows you how to set up your Uyuni Server to manage a new client, set up the software channels you need, and bootstrap the client using an activation key.

1.1. Problem

This recipe shows you how to onboard a client to your Uyuni Server.

The client must be running a supported Linux operating system. For a list of supported client systems, see **Installation-and-upgrade > Client-requirements**.

This is one of the first tasks you need to do when you set up Uyuni for the first time, and you will probably have to do it many more times as you use the product.

1.2. Solution

When you have completed this recipe, your client is onboarded, and it can be seen in the systems list of the Uyuni Web UI. You can then use Uyuni to manage the client.

1.3. Before you begin

Before you start, you should already have:

- A Uyuni Server installed, that you can access using the Web UI.
- A client machine with an operating system installed, which you can access across the network that your Uyuni Server is on, using SSH.
- Appropriate subscriptions from <http://scc.suse.com> for the products you are using.

This recipe uses a SUSE Linux Enterprise Server 15 SP2 operating system. You can use other Linux operating systems, but some of the steps might be different. For more information on onboarding other clients, see **Client-configuration > Registration-methods**.

1.4. Steps

Configure a fully-qualified domain name (FQDN) on your client

- On the client, at the command prompt, show the current hostname:

```
hostname -f
```

This command will probably return an error, or show something like **localhost**. * Set a new hostname. Your new hostname should have a subdomain name and thus include at least two periods. In this example, we are using **client1.suma.example**

+

```
hostnamectl set-hostname client1.suma.example
```

- Check that your change was successful:

```
hostnamectl
```

- Open YaST and navigate to **Network Services** > **Hostnames**. Edit the hostname to match the one you just set, and click **[OK]**.
- In YaST, navigate to **System** > **Network Settings** and go to the **Hostname/DNS** tab. In the **Static hostname** field, type your new hostname.
- Check that the change was successful:

```
hostname -f
```

This command should return your new FQDN.

Prepare software channels on the Uyuni Server

- In the Uyuni Web UI, navigate to **Admin** > **Setup Wizard**.
- In the **Organization Credentials** tab, ensure you have entered your SUSE Customer Center credentials, and are correctly authenticated.
- In the **Products** tab, ensure that the product catalog is fully updated:

Refresh the product catalog from SUSE Customer Center

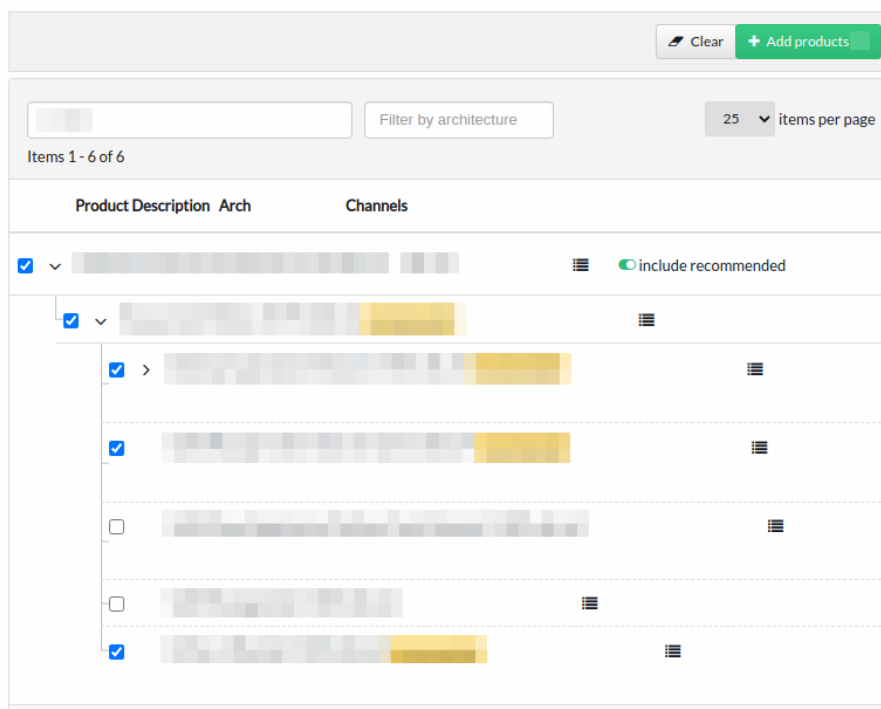


Refresh



Completed



- Use the product search bar to find the channels you need for your client operating system. Check the channels you want to install, and click **[Add products]**:



- Wait for the product channels to fully synchronize. Depending on the products you have chosen, this could take a long time.

Create an activation key

- In the Uyuni Web UI, navigate to **Systems > Activation Keys**, and click **[Create Key]**.
- Give your activation key a name, and select the base channel that matches the client you want to onboard. This should be the product you just enabled:

 **Create Activation Key** 

Activation Key Details

Description:

Key:

Usage:



Base Channel:

- Check the child channels to include, and any add-on system types you want clients registered with this key to have. Click **[Create Activation Key]**:

[child] | *child.png*

Bootstrap the client

- In the Uyuni Web UI, navigate to **Systems > Bootstrapping**.
- Type the hostname and provide authentication credentials for the client you want to onboard, and select the activation key. Click **[Bootstrap]**:

 **Bootstrap Minions** 

Host:

SSH Port:

User:

Authentication Method: ☒ Password ☐ Key

Password:

Activation Key:

Proxy:

☒ Disable SSH strict host key checking during bootstrap process

☐ Manage system completely via SSH (will not install an agent)

-
- Navigate to **Systems** › **System List** to manage your new client.

1.5. More information

- For more about supported clients and client features, see **Client-configuration** › **Supported-features**.
- For more about different onboarding methods, and instructions for clients running various operating systems, see **Client-configuration** › **Registration-methods**.
- For more about general client concepts, see **Client-configuration** › **Channels**.

Chapter 2. Content Lifecycle Management

If you are managing a lot of clients and you need to apply customized packages to them, you can use content lifecycle management (CLM) to manage your packages. CLM allows you to customize and test packages before updating production clients. It is also useful if you need to apply updates during a limited maintenance window.

2.1. Problem

Content lifecycle management allows you to select software channels as sources, adjust them as required for your environment, and thoroughly test them before installing onto your production clients. You can use CLM to manage your software channels from development, through testing, and rolling the changes out to your clients.

2.2. Solution

When you have completed this recipe, you will have a content lifecycle project set up. You will have created a basic CLM project, and promoted it through its lifecycle.

2.3. Before you begin

Before you start, you should already have:

- A Uyuni Server installed, which you can access using the Web UI.
- A client machine with an operating system installed, which you can access across the network that your Uyuni Server is on, using SSH.
- Appropriate subscriptions from <http://scc.suse.com> for the products you are using.

2.4. Steps

Create a new CLM project

1. In the Uyuni Web UI, navigate to **Content Lifecycle > Projects**, and click **[Create Project]**. Type a name, label, and description for your project, and click **[Create]**.

Content Lifecycle Project - [redacted] ? Delete

▼ Project Properties

Edit Properties

Name

[redacted]

Label:

[redacted]

Description

[redacted]

Versions history:

Version 1: (draft - not built) - Check the changes below

▼ Sources

+ Attach/Detach Sources

▼ Filters

+ Attach/Detach Filters

Build (0)

▼ Environment Lifecycle

+ Add Environment

No environments created

- In the **Sources** section, click **[Attach/Detach Sources]**. Select the source type, and select a base channel for your project. The available child channels for the selected base channel are displayed, including information on whether the channel is mandatory or recommended. Check the child channels you require, and click **[Save]** to return to the project page.

Sources

Type: ▼

New Base Channel: ▼

Child Channels (6)

☒ ☒ ☒ ☒ ☒ ☒

☐ ☐ ☐ ☐ ☐ ☐

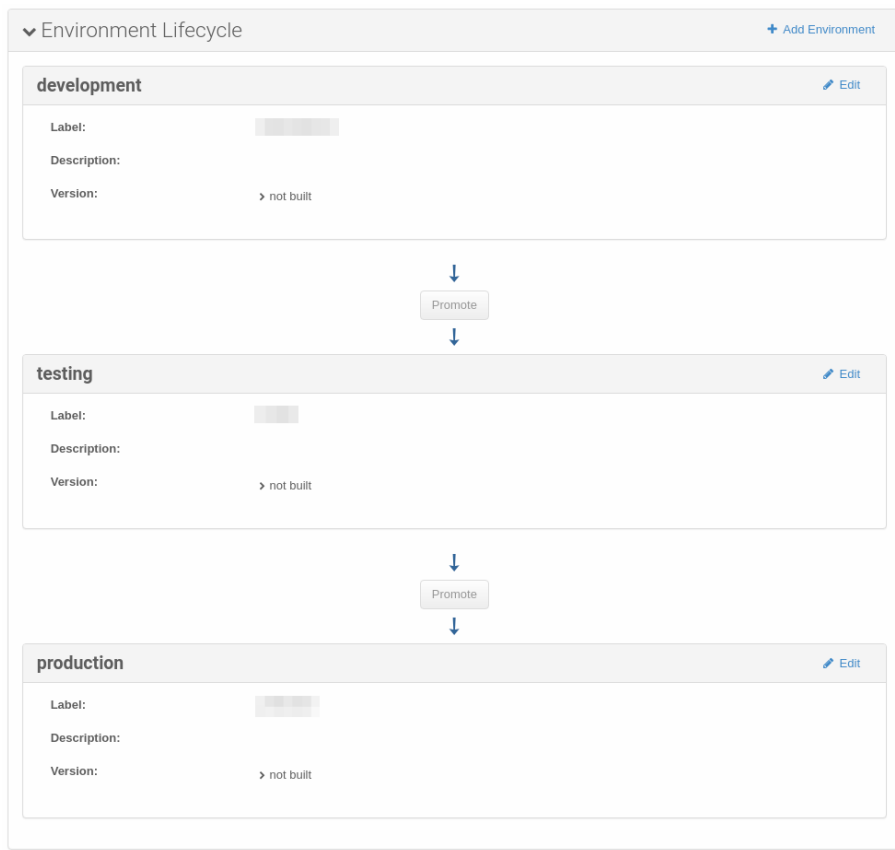
☐ >

☐ >

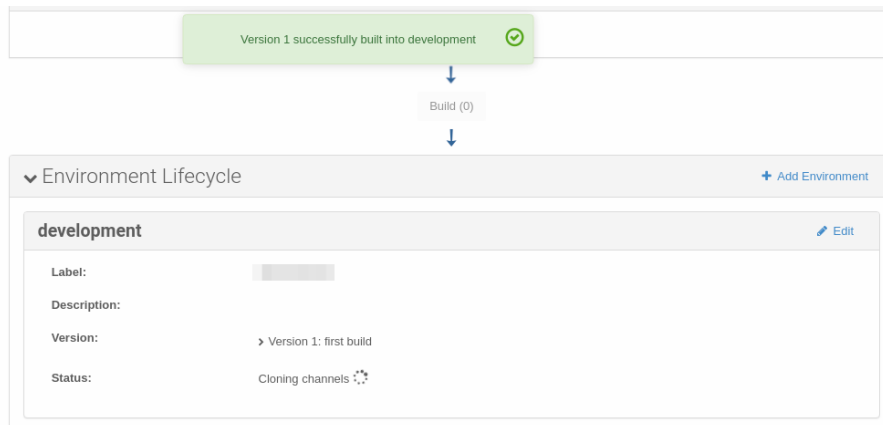
Cancel Save

- Leave the **Filters** section blank for now, we will not be using them in this example. You can add filters later on if you need to.
- In the **Environment Lifecycle** section, create three environments: **production**, **testing**, and **development**. Click **[Add Environment]** and complete the name and label for each. For the **production** environment, leave the **Insert before** field blank. For

the **testing** environment, in the **Insert before** field, select **production**. For the **development** environment, in the **Insert before** field, select **testing**.



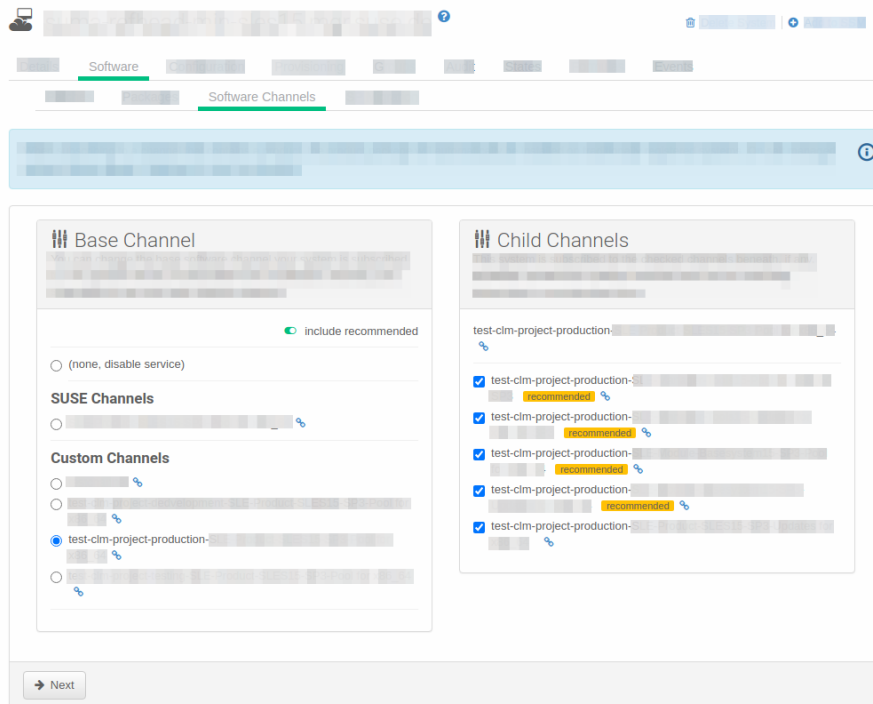
5. Click **[Build]** to build version 1 of your project:



Assign clients

1. Navigate to **Systems > System List**, select the client to assign, and go to the **Software > Software Channels** tab.
2. In the **Base Channel** section, select the CLM project and environment you want to assign the client to. For example, if you want this client to receive updates from your CLM only when packages are in the **production** environment, assign the base channel **<CLM_Project_Name>-production-<Channel_Name>**. Alternatively, you could use this

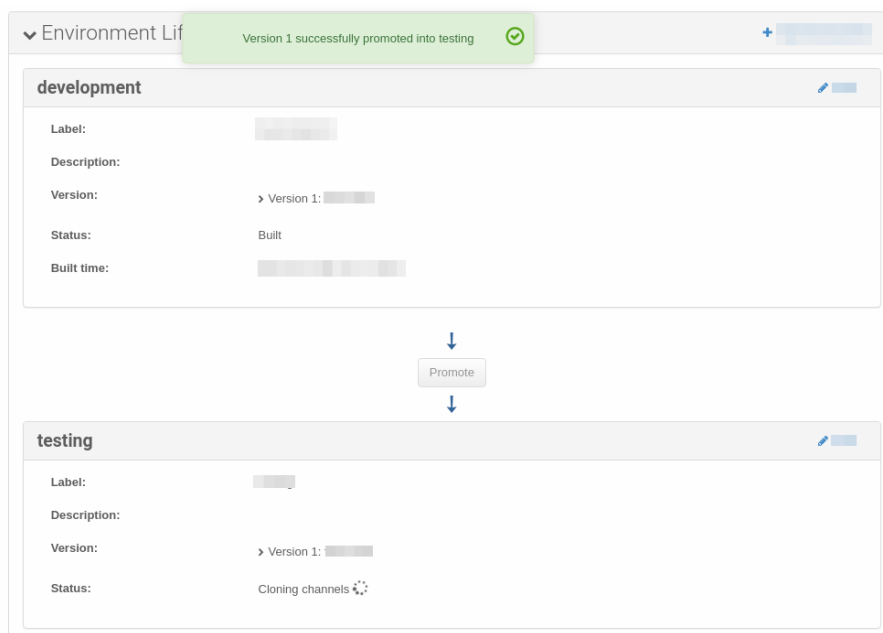
client as a way to test if your CLM packages are working as expected before you promote them to **development**, so you assign the base channel **<CLM_Project_Name>-testing-<Channel_Name>**.



3. Click **[Next]** to assign the client.

Promote Environments

1. In the Uyuni Web UI, navigate to **Content Lifecycle > Projects**, and select the project you want to work with.
2. In the **Environment Lifecycle** section, locate the environment to promote to its successor, and click **[Promote]**. You can monitor build progress in the **Environment Lifecycle** section.



2.5. More information

- For more about CLM, including information about how to use filters, see **Administration > Content-lifecycle**.
- For CLM examples, see **Administration > Content-lifecycle-examples**.

Chapter 3. Configuration Management

You can use configuration files and channels to manage configuration for your clients, rather than configuring each client manually. This recipe shows you how to use the Uyuni Web UI to create a centrally-managed configuration file, assign it to a Salt client, and apply the configuration.

3.1. Problem

If you are managing a lot of clients, you probably do not want to manually apply configuration settings to each of them in turn. Configuration channels are used to organize configuration files. You can subscribe clients to configuration channels, and deploy configuration files as required.

3.2. Solution

When you have completed this recipe, you will have a configuration channel containing a configuration file, have assigned clients to the channel, and applied the configuration successfully.

3.3. Before you begin

Before you start, you should already have:



- A Uyuni Server installed, that you can access using the Web UI.
- At least one Salt client registered to your server.
- Appropriate subscriptions from <http://scc.suse.com> for the products you are using.

This recipe uses a centrally managed configuration file and a Salt state. You can also use locally-managed configuration files, traditional clients, and different methods, to get more flexibility in how you manage configuration in your environment. For more information about the different ways to manage configuration, see **Client-configuration > Configuration-management**.

3.4. Steps

Create a new configuration channel and file

1. In the Uyuni Web UI, navigate to **Configuration > Channels** and click **[Create State Channel]**.
2. Type a name, label, and description for your configuration file, and type the contents of your configuration file. An example that you can copy is at the end of this section. . Click **[Create Config State Channel]**

 New Config State Channel 

Name*:

Label*:

Description*:


SLS Contents

1-24

Create Config State Channel

Assign clients to the configuration channel

1. In the Uyuni Web UI, navigate to **Systems > Systems List** and select the client you want to assign to your configuration channel.
2. Navigate to the **Configuration** tab. In the guimenu: **Configuration Overview** section, click **[Subscribe to channels]**.
3. Check the configuration channel you created earlier, and click **[Continue]**.

 Configuration Channel Subscriptions

Step 1: Select Channels for Subscription.

1 - 1 of 1 (1 selected)

<input checked="" type="checkbox"/>	Channel Name	Channel Label	Files & Directories
<input checked="" type="checkbox"/>			

Select All

1 - 1 of 1 (0 selected)

Continue

4. If you have more than one configuration channel, you can rank them in order of importance, or click **[Update Channel Rankings]** to finish.

Apply the configuration to your client

1. In the Uyuni Web UI, navigate to **Systems > Systems List** and select the client you want to assign to your configuration channel.
2. Navigate to the **Configuration** tab. In the guimenu: **Configuration Actions** section, click **[Deploy all managed config files]**.

3.5. More information

- For more about configuration management, see **Client-configuration > Configuration-management**.
- For more about SLS files, see: https://docs.saltproject.io/en/latest/topics/tutorials/starting_states.html.

Listing 1. Example: SLS State for Keeping Clients Updated

```
include:
  - channels

int_keep_system_up2date_updatestack:
  pkg.latest:
    - pkgs:
      - salt
      - salt-minion
  {%- if grains.os_family == 'Suse'%}
    - zypper
    - libzypp
  {%- elif grains['os_family'] == 'RedHat' %}
  {%- if grains['osmajorrelease'] >= 8 %}
    - dnf
  {%- else %}
    - yum
  {%- endif %}
  {%- endif %}
  - require:
    - sls: channels
  - order: last

int_keep_system_up2date_pkgs:
  pkg.up2date:
    - require:
      - sls: channels
      - pkg: int_keep_system_up2date_updatestack
    - order: last

int_reboot_if_needed:
  cmd.run:
    - name: shutdown -r +5
  {%- if grains['os_family'] == 'RedHat' and grains['osmajorrelease'] >= 8 %}
    - onlyif: 'dnf -q needs-restarting -r; [ $? -eq 1 ]'
  {%- elif grains['os_family'] == 'RedHat' and grains['osmajorrelease'] <= 7 %}
    - onlyif: 'needs-restarting -r; [ $? -eq 1 ]'
  {%- elif grains['os_family'] == 'Debian' %}
    - onlyif:
      - test -e /var/run/reboot-required
  {%- else %}
    - onlyif: 'zypper ps -s; [ $? -eq 102 ]'
  {%- endif %}
```

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