

SUSE Manager 4.3

# Quick Start Guide

April 11 2022



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# Quick Start

Updated: 2022-04-11

This guide shows you how to use install and configure a single SUSE Manager Server or Proxy.

It contains instructions for a selection of simple setup ups, workflows and some common use cases.

You can read Quick Start Guides for:

- [Quick Start SUMA Server](#)
- [Quick Start SUMA Proxy](#)

# Chapter 1. Quick Start SUMA Server

This guide shows you how to install and configure a single SUSE Manager Server for x86-64 architecture from the SUSE Linux Enterprise installation media with the Unified Installer.

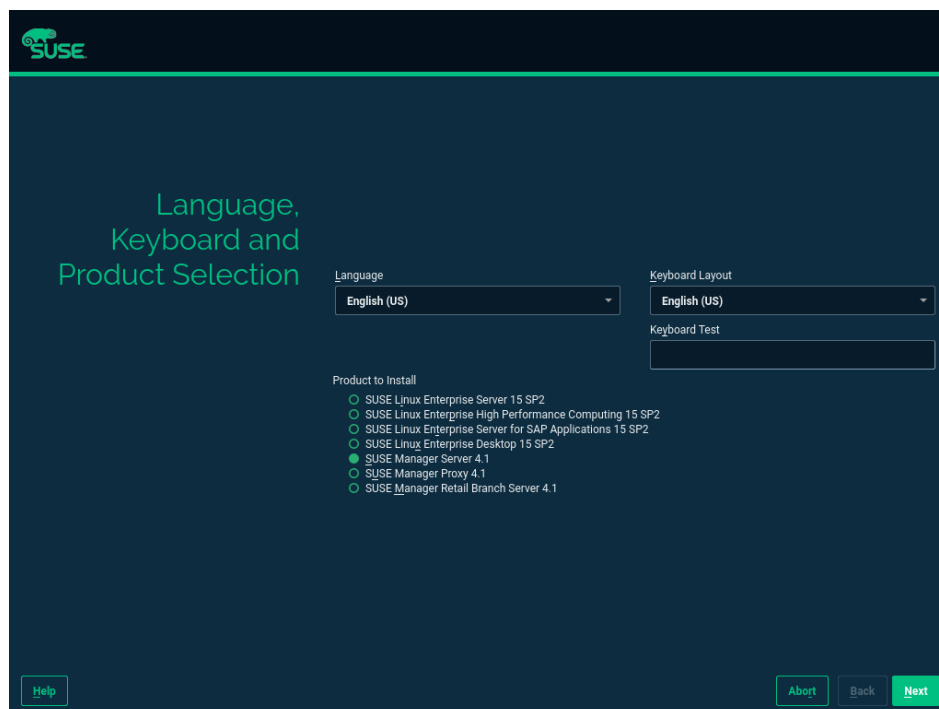
For this topic we assume that you already have valid organization credentials with SUSE Customer Center and have obtained a registration code for your SUSE Manager, for example from a "SUSE Manager Lifecycle Management+" subscription.

## 1.1. Install SUSE Manager Server

This section describes how to install SUSE Manager Server from the SUSE Linux Enterprise installation media.

### Procedure: Installing SUSE Manager Server from a DVD Image

1. Boot your system with the Unified Installer. If booting fails you might need to adjust the boot order in the BIOS.
2. When prompted, select **Installation**.
3. In the **Language, Keyboard and Product Selection** screen, check **SUSE Manager Server**, and click **[ Next ]**.



4. Read and agree to the End User Licence Agreement, and click **[ Next ]**.

5. In the **Registration** screen, check the **Register System via scc.suse.com** checkbox, enter your SUSE Customer Center credentials, and click **[ Next ]**.

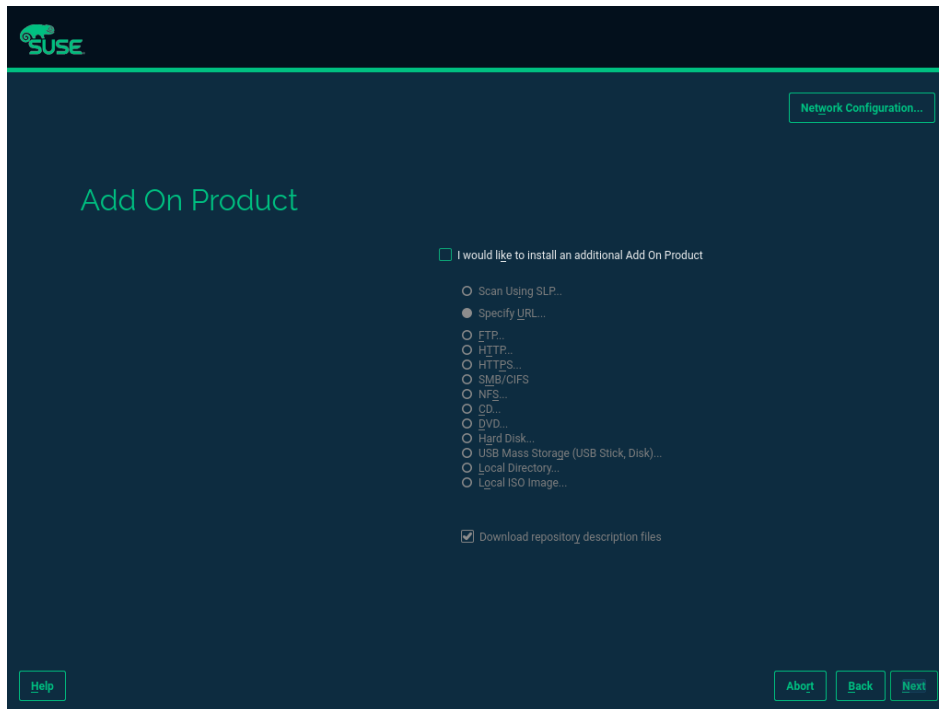
The screenshot shows the 'Registration' screen for SUSE Manager Server 4.1. The title 'Registration' is in large green text on the left. On the right, the text 'SUSE Manager Server 4.1' is followed by 'Please select your preferred method of registration.' There are three radio button options: 'Register System via scc.suse.com' (selected), 'Register System via local RMT Server', and 'Skip Registration'. Under the selected option, there are input fields for 'E-mail Address' and 'Registration Code'. Under the 'local RMT Server' option, there is a dropdown menu for 'Local Registration Server URL' with the value 'https://rmt.example.com'. At the top right is a 'Network Configuration...' link. At the bottom are 'Help', 'Abort', 'Back', and 'Next' buttons.

6. In the **Extension and Module Selection** screen, select additional extensions or modules you require, and click **[ Next ]**. Mandatory modules are pre-selected and you cannot disable them.

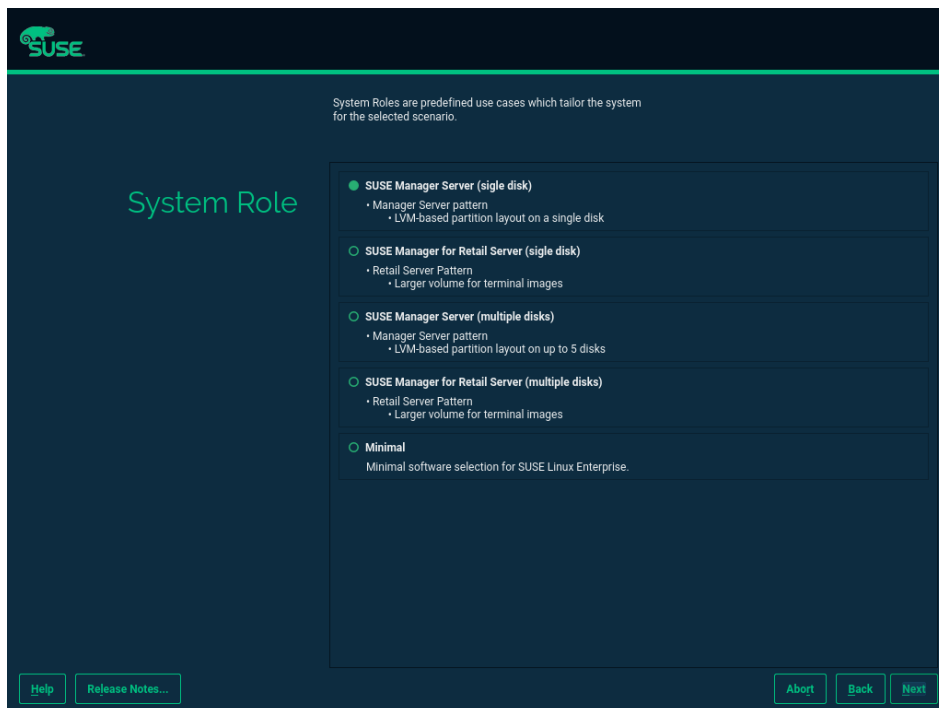
The screenshot shows the 'Extension and Module Selection' screen. The title 'Extension and Module Selection' is in large green text on the left. On the right, under 'Available Extensions and Modules', there is a list of modules with checkboxes. The 'Hide Development Versions' checkbox is checked. The modules listed are: 'SUSE Package Hub 15 SP2 x86\_64' (unchecked), 'Basesystem Module 15 SP2 x86\_64' (checked), 'Containers Module 15 SP2 x86\_64' (unchecked), 'Desktop Applications Module 15 SP2 x86\_64' (unchecked), 'Development Tools Module 15 SP2 x86\_64' (unchecked), 'Legacy Module 15 SP2 x86\_64' (unchecked), 'Public Cloud Module 15 SP2 x86\_64' (unchecked), 'Python 2 Module 15 SP2 x86\_64' (unchecked), 'SUSE Manager Server Module 4.1 x86\_64' (checked), 'Server Applications Module 15 SP2 x86\_64' (checked), and 'Web and Scripting Module 15 SP2 x86\_64' (checked). Below this list is a 'Details (English only)' section with a text box stating: 'This module contains the python 2 packages. Access to the Python 2 Module is included in your SUSE Linux Enterprise subscription. The module has a different lifecycle than SUSE Linux Enterprise itself. Packages in the this module are usually supported for at most three years.' At the bottom are 'Help', 'Abort', 'Back', and 'Next' buttons.

7. OPTIONAL: In the **Add On Product** screen, select any additional or add-on products you

require, and click [ **Next** ]. We do not recommend that you run any other workloads on SUSE Manager. Only use add-ons that you absolutely require, such as driver repositories from your hardware vendor.



8. In the **System Role** screen, check the **SUSE Manager Server** checkbox, and click [ **Next** ].



9. In the **Suggested Partitioning** screen, either accept the default values, or use the [ **Guided Setup** ] or [ **Expert Partitioner** ] options to customize your partitioning model, and click [ **Next** ]

].

10. In the **Clock and Time Zone** screen, enter your region and timezone, and click **[ Next ]**.
11. In the **Local Users** screen, create a new user, and click **[ Next ]**.
12. In the **System Administrator "root"** screen, create the "root" user, and click **[ Next ]**.
13. Review the settings on the **Installation Settings** screen.
14. On the **Installation Settings** screen click **[ Install ]**.

## 1.2. Set up SUSE Manager with YaST

This section guides you through SUSE Manager setup using YaST.

### Procedure: SUSE Manager Setting up

1. On the SUSE Manager Server, at the command line, use the `yast2 susemanager_setup` command to begin setup.
2. From the introduction screen select **SUSE Manager Setup › Setup SUSE Manager from scratch** and click **[ Next ]** to continue.
3. Enter an email address to receive status notifications and click **[ Next ]** to continue. SUSE Manager can sometimes send a large volume of notification emails. You can disable email notifications in the Web UI after setup, if you need to. For more information on disabling email notifications, see **Reference › Users**.
4. Enter your certificate information and a password. If you intend to use a custom SSL certificate, you need to have set this up first. For more information about SSL certificates, see **Administration › Ssl-certs**.

```

YaST2 - susemanager_setup @ g137

Certificate Setup

Organization
Example
Organization Unit
Example Dep.
City
n
State
by
Country
DE
SSL Password
xxxxxxxxxxxx
Repeat Password
xxxxxxxxxxxx

[Help] [Back] [Abort] [Next]

F1 Help F8 Back F9 Abort F10 Next

```

5. Click **[ Next ]** to continue.
6. From the SUSE Manager Setup › Database Settings screen, enter a database user and password and click **[ Next ]** to continue.

```

YaST2 - susemanager_setup @ g137

Database Settings

Database User
susemanager
Database Password
xxxxxxxxxxxx
Repeat Password
xxxxxxxxxxxx

[Help] [Back] [Abort] [Next]

F1 Help F8 Back F9 Abort F10 Next

```

7. Click **[ Next ]** to continue.
8. Click **[ Yes ]** to run setup when prompted, and wait for it to complete.
9. Click **[ Next ]** to continue. Take a note of the address of the SUSE Manager Web UI.
10. Click **[ Finish ]** to complete SUSE Manager setup.

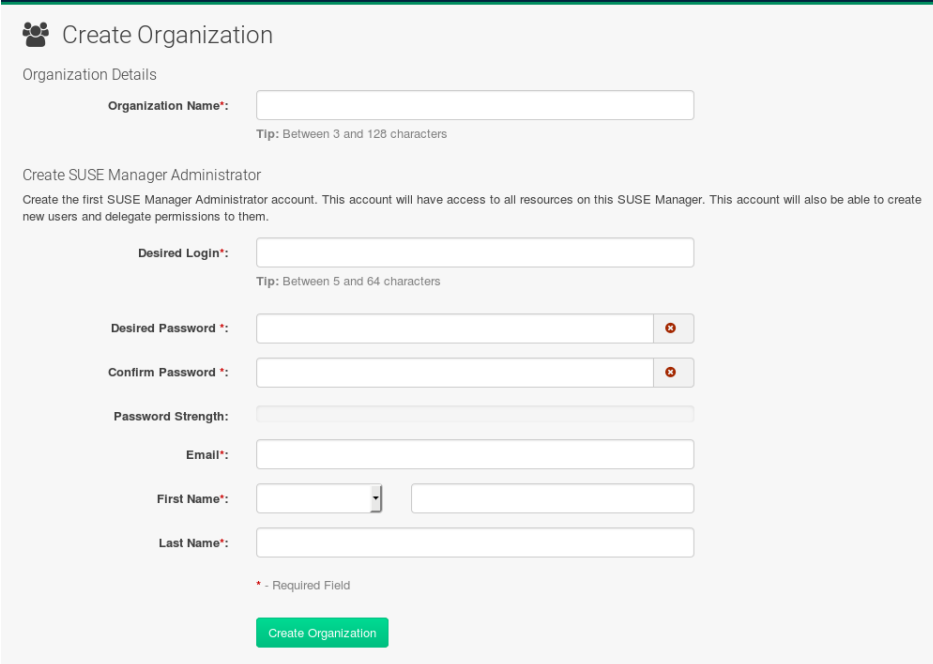


## 1.3. Create the main administrator account

This section guides you through creating your organization's main administration account for SUSE Manager

### Procedure: Setting Up the Main Administration Account

1. In the browser, enter the address provided after completing setup. With this address you open the SUSE Manager Web UI.
2. In the Web UI, navigate to the **Create Organization › Organization Name** field and enter your organization name.
3. In the **Create Organization › Desired Login** and **Create Organization › Desired Password** fields, enter your username and password.
4. Fill in the Account Information fields including an email for system notifications.
5. Click [ **Create Organization** ] to finish creating your administration account.



The screenshot shows the 'Create Organization' web form. At the top, there is a header with a group icon and the title 'Create Organization'. Below this, the 'Organization Details' section contains a required 'Organization Name' field with a tip: 'Between 3 and 128 characters'. The next section is 'Create SUSE Manager Administrator', which includes a note: 'Create the first SUSE Manager Administrator account. This account will have access to all resources on this SUSE Manager. This account will also be able to create new users and delegate permissions to them.' This section contains several required fields: 'Desired Login' (with a tip: 'Between 5 and 64 characters'), 'Desired Password' (with a strength indicator icon), 'Confirm Password', 'Password Strength' (a progress bar), 'Email', 'First Name' (with a dropdown arrow), and 'Last Name'. A legend indicates that an asterisk (\*) denotes a required field. At the bottom of the form is a green 'Create Organization' button.

You are now presented with the SUSE Manager Home › Overview page.

When you have finished creating the main administrator account on the new SUSE Manager Server, you need to mirror the products from SCC.

## 1.4. Synchronize with SUSE Customer Center

This section covers synchronizing with SCC from the Web UI and adding your first client channel.

### Procedure: Entering Organization Credentials

1. In the SUSE Manager Web UI, select **Admin › Setup Wizard**.
2. From the **Setup Wizard** page select the **[ Organization Credentials ]** tab.
3. Click **[ Add a new credential ]**.
4. In the dialog, enter **Username** and **Password**, and confirm with **[ Save ]**.

When the credentials are confirmed with a check-mark icon, proceed with [Procedure: Synchronizing with SUSE Customer Center](#).

### Procedure: Synchronizing with SUSE Customer Center

1. In the Web UI, navigate to **Admin › Setup Wizard**.
2. From the **Setup Wizard** page select the **[ SUSE Products ]** tab. If you previously registered with SUSE Customer Center a list of products will populate the table. This operation could take up to a few minutes. You can monitor the progress of the operation in section on the right **Refresh the product catalog from SUSE Customer Center**. The table of products lists architecture, channels, and status information. For more information, see [Reference › Admin](#).

**Setup Wizard**

HTTP Proxy   Organization Credentials   **SUSE Products**

Filter by product Description   Filter by architecture   25 items per page

Items 1 - 25 of 94

Product Description	Arch	Channels
<input type="checkbox"/> Open Enterprise Server 2018	x86_64	
<input type="checkbox"/> RHEL Expanded Support 5	i386	
<input type="checkbox"/> RHEL Expanded Support 5	x86_64	
<input type="checkbox"/> > RHEL Expanded Support 6	i386	
<input type="checkbox"/> > RHEL Expanded Support 6	x86_64	
<input type="checkbox"/> > RHEL Expanded Support 7	x86_64	
<input type="checkbox"/> SUSE Container as a Service Platform 1.0	x86_64	
<input type="checkbox"/> SUSE Container as a Service Platform 2.0	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP2	i586	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP2	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP3	i586	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP3	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP4	i586	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 11 SP4	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 12	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 12 SP1	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 12 SP2	x86_64	
<input type="checkbox"/> > SUSE Linux Enterprise Desktop 12 SP3	x86_64	
<input checked="" type="checkbox"/> > SUSE Linux Enterprise Desktop 15	x86_64	100%
<input type="checkbox"/> > SUSE Linux Enterprise High Performance Computing 15	aarch64	include recommended
<input type="checkbox"/> > SUSE Linux Enterprise High Performance Computing 15	x86_64	include recommended
<input type="checkbox"/> > SUSE Linux Enterprise Server 10 SP3	i586	
<input type="checkbox"/> > SUSE Linux Enterprise Server 10 SP3	ia64	
<input type="checkbox"/> > SUSE Linux Enterprise Server 10 SP3	ppc	
<input type="checkbox"/> > SUSE Linux Enterprise Server 10 SP3	s390x	

Page 1 of 4   First   Prev   Next   Last

← Prev   3 of 3

Refresh the product catalog from SUSE Customer Center

☐ Channels  
☐ Channel Families  
☐ Products  
☐ Product Channels  
☐ Subscriptions

Refresh

Why aren't all SUSE products displayed in the list?

The products displayed on this list are directly linked to your Organization credentials (Mirror credentials) as well as your SUSE subscriptions.

If you believe there are products missing, make sure you have added the correct Organization credentials in the previous wizard step.

3. Use **Filter by product description** and **Filter by architecture** to filter the list of displayed products. If your SUSE Linux Enterprise client is based on **x86\_64** architecture scroll down the page and select the check box for this channel now.

- Add channels to SUSE Manager by selecting the check box to the left of each channel. Click the arrow symbol to the left of the description to unfold a product and list available modules.

- 
- Click **[ Add Products ]** to start product synchronization.

After adding the channel, SUSE Manager will schedule the channel to be synchronized. This can take a long time as SUSE Manager will copy channel software sources from the SUSE repositories located at SUSE Customer Center to local `/var/spacewalk/` directory of your server.

When the channel is fully synchronised, the bootstrap repository will be automatically created. The bootstrap repository is necessary for the successful bootstrapping of creation of the activation key will be associated with the clients can be bootstrapped following the steps This completes SUSE Manager installation and configuration, with channel preparation for the client bootstrapping.

When the channel synchronization process is complete, you can continue with client registration.

For more instructions, see [Client-configuration](#) › [Registration-overview](#).

## Chapter 2. Quick Start SUMA Proxy

This guide shows you how to install and configure a single SUSE Manager Proxy for x86-64 architecture from the SUSE Linux Enterprise installation media with the Unified Installer.

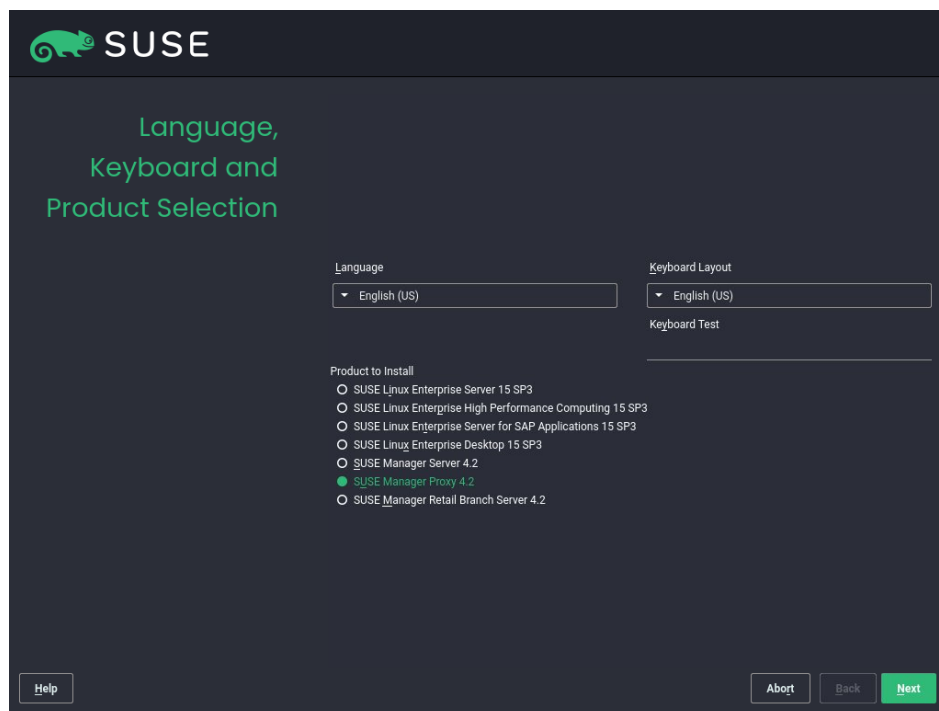
For this topic we assume that you already have valid organization credentials with SUSE Customer Center and have obtained a registration code for your SUSE Manager Proxy, for example from a "SUSE Manager Lifecycle Management+" subscription.

### 2.1. Install SUSE Manager Proxy

This guide shows you how to install and configure a single SUSE Manager Proxy for x86-64 architecture from the SUSE Linux Enterprise installation media with the Unified Installer.

#### Procedure: Installing SUSE Manager Proxy with the Unified Installer

1. To boot the Unified Installer from the installation image, you might need to adjust the boot order in the BIOS.
2. When prompted, select **Installation**.
3. In the **Language, Keyboard and Product Selection** screen, check the **SUSE Manager Proxy** checkbox, and click **[ Next ]**.



4. Read and agree to the End User Licence Agreement, and click **[ Next ]**.

5. In the **Registration** screen, check the **Register System via scc.suse.com** checkbox, enter your SUSE Customer Center credentials, and click **[ Next ]**.
6. In the **Available Extensions and Modules** screen, select any extensions or modules you require, and click **[ Next ]**. **Basesystem**, **SUSE Manager Proxy**, and **Server Applications** are pre-selected and mandatory for the SUSE Manager Proxy installation. OPTIONAL: In the following **Add On Product** screen, select any additional or add-on products you require, and click **[ Next ]**.
7. In the **System Role** screen, check the **SUSE Manager Proxy** checkbox, and click **[ Next ]**.
8. In the **Suggested Partitioning** screen, accept the default values, or use the **[ Guided Setup ]** or **[ Expert Partitioner ]** options to customize your partitioning model, and click **[ Next ]**.
9. In the **Clock and Time Zone** screen, enter your region and timezone, and click **[ Next ]**.
10. In the **Local Users** screen, create a new user, and click **[ Next ]**.
11. Review the settings on the **Installation Settings** screen, and then click **[ Install ]**.

## 2.2. Register SUSE Manager Proxy



Before you can select the correct child channels while creating the activation key, ensure you have completely downloaded the SUSE Manager Proxy 4.3 channel and all the recommended and mandatory SUSE Linux Enterprise 15 SP4 channels.

### Procedure: Registering the Proxy

1. Create an activation key based on the **SLE-Product-SUSE-Manager-Proxy-4.3-Pool** base channel. For more information about activation keys, see [Client-configuration](#) › [Activation-keys](#).

## Create Activation Key

### Activation Key Details

Systems registered with this activation key will inherit the settings listed below.

#### Description:

SUSE Manager 4.2 Proxy

Use this to describe what kind of settings this key will reflect on systems that use it. If left blank, this field will be filled in 'None'.

#### Key:

1- suse\_manager\_4.2\_proxy

Activation key can contains only numbers [0-9], letters [a-z A-Z], '-', '\_' and '.'

Leave blank for automatic key generation. Note that the prefix is an indication of the SUSE Manager organization the key is associated with.

#### Usage:

Leave blank for unlimited use.


#### Base Channel:

SLE-Product-SUSE-Manager-Proxy-4.2-Pool for x86\_64

Choose "SUSE Manager Default" to allow systems to register to the default SUSE Manager provided channel that corresponds to the installed SUSE Linux version. Instead of the default, you may choose a particular SUSE provided channel or a custom base channel, but if a system using this key is not compatible with the selected channel, it will fall back to its SUSE Manager Default channel.

#### Child Channels:

▼ SLE-Product-SUSE-Manager-Proxy-4.2-Pool for x86\_64

 include recommended

## Figure 1. Proxy activation key

- From the **Child Channels** listing select the recommended channels by clicking the **include recommended** icon:

- SLE-Module-Basesystem15-SP4-Pool
- SLE-Module-Basesystem15-SP4-Updates
- SLE-Module-Server-Applications15-SP4-Pool
- SLE-Module-Server-Applications15-SP4-Updates
- SLE-Module-SUSE-Manager-Proxy-4.3-Pool
- SLE-Module-SUSE-Manager-Proxy-4.3-Updates

The **SLE-Product-SUSE-Manager-Proxy-4.3-Updates** channel is mandatory.

## Child Channels:

▼ **SLE-Product-SUSE-Manager-Proxy-4.2-Pool for x86\_64**

☐ include recommended

- ☐ SLE-Module-Basesystem15-SP3-Pool for x86\_64 Proxy 4.2  recommended 
- ☐ SLE-Module-Basesystem15-SP3-Updates for x86\_64 Proxy 4.2  recommended 
- ☐ SLE-Module-Server-Applications15-SP3-Pool for x86\_64 Proxy 4.2  recommended 
- ☐ SLE-Module-Server-Applications15-SP3-Updates for x86\_64 Proxy 4.2  recommended 
- ☐ SLE-Module-SUSE-Manager-Proxy-4.2-Pool for x86\_64  recommended 
- ☐ SLE-Module-SUSE-Manager-Proxy-4.2-Updates for x86\_64  recommended 
- ☒ SLE-Product-SUSE-Manager-Proxy-4.2-Updates for x86\_64  mandatory 

Any system registered using this activation key will be subscribed to the selected child channels.

## Add-On System Types:

- ☐ Ansible Control Node
- ☐ Container Build Host
- ☐ Monitoring
- ☐ OS Image Build Host
- ☐ Virtualization Host

## Contact Method:

Default

## Universal Default:

☐

**Tip:** Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Create Activation Key

Figure 2. Base and Child Proxy Channel

3. To bootstrap a proxy, use the bootstrap script. For more information about bootstrap scripts, see [Client-configuration](#) › [Registration-bootstrap](#).



## SUSE Manager Configuration - Bootstrap

The following information will be used to generate bootstrap scripts. These bootstrap scripts can be used to configure a client to use this SUSE Manager to receive updates. Once the bootstrap scripts have been generated, they will be available from [this server](#).

Please note that some manual configuration of these scripts may still be required. The bootstrap script can be found on the SUSE Manager Server's filesystem here: `/srv/www/htdocs/pub/bootstrap`

General **Bootstrap Script** Organizations Restart Cobbler Bare-metal systems Monitoring

### Client Bootstrap Script Configuration

**SUSE Manager server hostname\***

**SSL cert location\***

**Bootstrap using Salt**

☒

**Enable Client GPG checking**

☒

**Enable Remote Configuration**

☐

**Enable Remote Commands**

☐

**Client HTTP Proxy**

**Client HTTP Proxy username**

**Client HTTP Proxy password**

Update

Figure 3. Modifying bootstrap script

- Alternatively, in the SUSE Manager Web UI, navigate to **System** › **Bootstrapping**.

## Bootstrap Minions <sup>?</sup>

You can add systems to be managed by providing SSH credentials only. SUSE Manager will prepare the system remotely and will perform the registration.


Host:	<input type="text" value="proxy-42.suse.de"/>
SSH Port:	<input type="text" value="22"/>
User:	<input type="text" value="root"/> 
Authentication Method:	<input checked="" type="radio"/> Password <input type="radio"/> SSH Private Key
Password:	<input type="password" value="e.g., *****"/>
Activation Key:	<input type="text" value="1-suse_manager_4.2_proxy"/>
Proxy:	<input type="text" value="None"/>
<input checked="" type="checkbox"/> Disable SSH strict host key checking during bootstrap process	
<input type="checkbox"/> Manage system completely via SSH (will not install an agent)	
<input type="button" value="+ Bootstrap"/> <input type="button" value="Clear fields"/>	

Figure 4. Bootstrapping a proxy from GUI

5. Navigate to **System Details** › **Software** › **Software Channels**, and check that the four proxy channels (**Pool** and **Updates** for **SLE-PRODUCT** and **SLE-MODULE**) plus the recommended channels are selected. **SLE-PRODUCT-Pool** must be the base channel and the others are child channels.

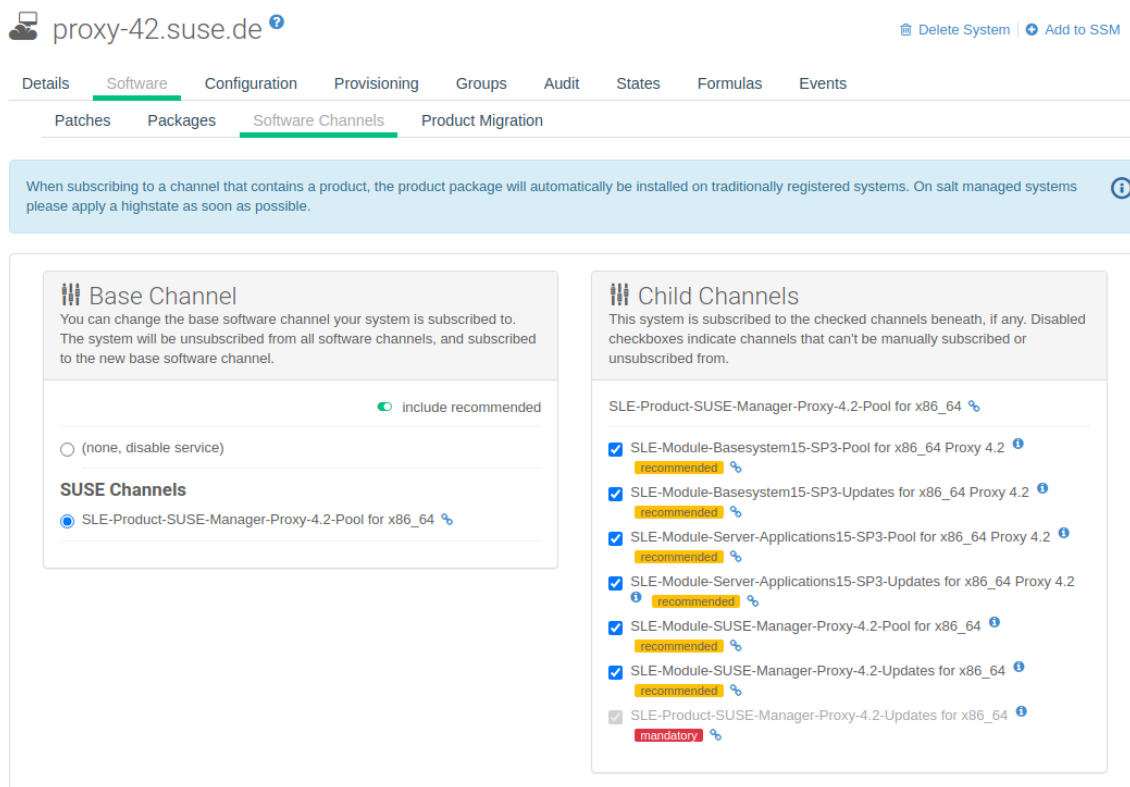


Figure 5. Proxy Channels

## 2.3. Set up SUSE Manager Proxy

Make sure the TCP ports **4505** and **4506** are open on the proxy. The proxy must be able to reach the SUSE Manager Server or a parent proxy on these ports.

### Procedure: Copy Server Certificate and Key

1. The proxy will share some SSL information with the SUSE Manager Server.
2. Copy the certificate and its key from the SUSE Manager Server or the parent proxy.
3. As root, enter the following commands on the proxy using your SUSE Manager Server or parent Proxy (named **PARENT**):

```
mkdir -m 700 /root/ssl-build
cd /root/ssl-build
scp root@PARENT:/root/ssl-build/RHN-ORG-PRIVATE-SSL-KEY .
scp root@PARENT:/root/ssl-build/RHN-ORG-TRUSTED-SSL-CERT .
scp root@PARENT:/root/ssl-build/rhn-ca-openssl.cnf .
```

4. Run `configure-proxy.sh` The `configure-proxy.sh` script finalizes the setup of your SUSE Manager

---

Proxy.

5. Execute the interactive **configure-proxy.sh** script. Pressing **Enter** without further input will make the script use the default values provided between brackets []. Otherwise, use the values specific for your environment.

When the proxy configuration process is complete, you can continue with client registration. For more instructions, see [Client-configuration](#) › [Client-proxy](#).

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