



Installation Quick Start

SUSE Linux Enterprise Server 12


Lists the system requirements and guides you step-by-step through the installation of SUSE Linux Enterprise Server from DVD, or from an ISO image.

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1 Welcome to SUSE Linux Enterprise Server

For more detailed installation instructions and deployment strategies, see the SUSE Linux Enterprise Server Documentation at <http://www.suse.com/documentation/> .

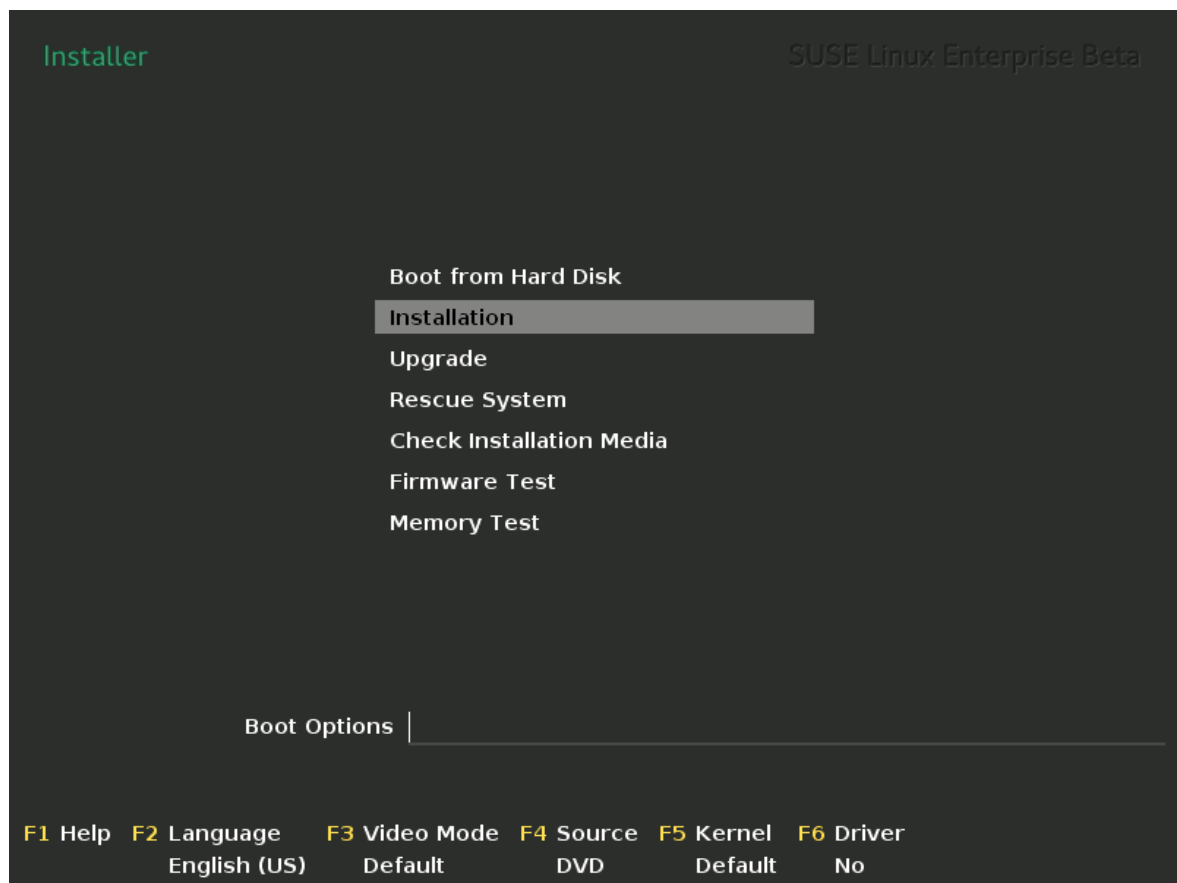
1.1 Minimum System Requirements

- any AMD64/Intel* EM64T processor (32-bit processors are not supported)
- 512 MB physical RAM (1 GB or more recommended)
- 3.5 GB available disk space (more recommended)
- 800 x 600 display resolution (1024 x 768 or higher recommended)

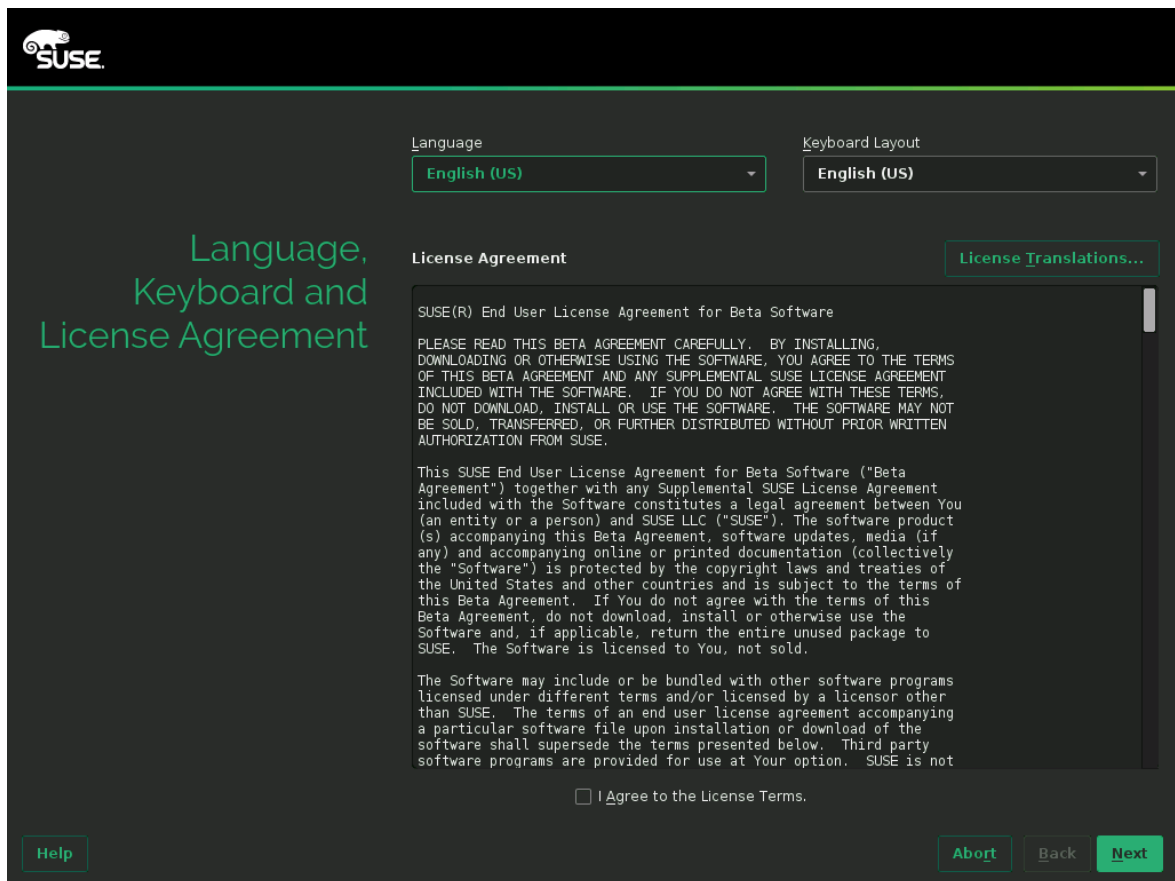
1.2 Installing SUSE Linux Enterprise Server

Use these instructions if there is no existing Linux system on your machine, or if you want to replace an existing Linux system.

1. Insert the SUSE Linux Enterprise Server DVD into the drive, then reboot the computer to start the installation program. On machines with a traditional BIOS you will see the graphical boot screen shown below. On machines equipped with UEFI, a slightly different boot screen is used. Secure boot on UEFI machines is supported.
Use **F2** to change the language for the installer. A corresponding keyboard layout is chosen automatically. See *Book “Deployment Guide” 6 “Installation with YaST”* 6.2.1.1 “The Boot Screen on Machines Equipped with Traditional BIOS” or *Book “Deployment Guide” 6 “Installation with YaST”* 6.2.1.2 “The Boot Screen on Machines Equipped with UEFI” for more information about changing boot options.



2. Select *Installation* on the boot screen, then press . This boots the system and loads the SUSE Linux Enterprise Server installer.
3. The *Language* and *Keyboard Layout* are initialized with the language settings you have chosen on the boot screen. Change them here, if necessary.
Read the License Agreement. It is presented in the language you have chosen on the boot screen. *License Translations* are available. You need to accept the agreement by checking *I Agree to the License Terms* in order to install SUSE Linux Enterprise Server. Proceed with *Next*.



4. A system analysis is performed, where the installer probes for storage devices, and tries to find other installed systems. If the network could not be automatically configured while starting the installation system, the *Network Settings* dialog opens.

After at least one network interface has been configured you can register your system at the SUSE Customer Center (SCC). Enter the e-mail address associated with your SCC account and the registration code for SUSE Linux Enterprise Server. A successful registration is a prerequisite for getting product updates and being entitled to technical support. Proceed with *Next*.

SUSE

Network Configuration...

Registration

SUSE Linux Enterprise Server 12

Please enter a registration or evaluation code for this product and your User Name/EMail from the SUSE Customer Center in the fields below. Access to security and general software updates is only possible on a registered system.

If you skip the registration now be sure to do so in the installed system.

Email

Registration Code

Local Registration Server...

Skip Registration

Help Release Notes... Abort Back Next



Tip: Installing Product Patches at Installation Time

If SUSE Linux Enterprise Server has been successfully registered at the SUSE Customer Center, you are asked whether to install the latest available online updates during the installation. If choosing **Yes**, the system will be installed with the most current packages without having to apply the updates after installation. Activating this option is recommended.

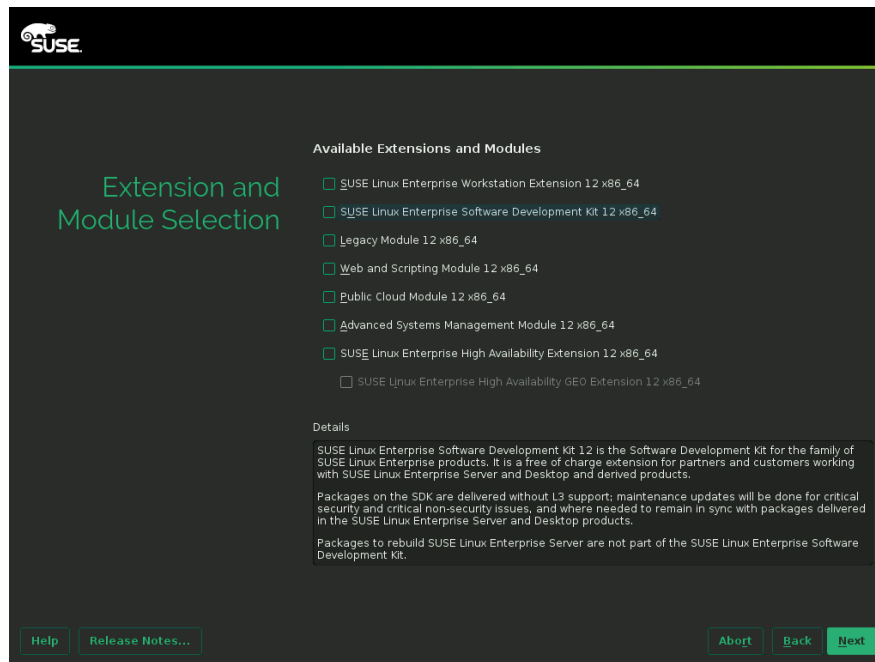


Note: Release Notes

From this point on, the Release Notes can be viewed from any screen during the installation process by selecting *Release Notes*.

5. After the system is successfully registered, YaST shows a list of add-on products and extensions that are available for SUSE Linux Enterprise Server from the SUSE Customer Center. The list contains free extensions, such as the SUSE Linux Enterprise SDK as well as


add-on products requiring a registration key that is liable to costs. Click an entry to see its description. Optionally select an add-on or extension for installation by activating its check mark. Proceed with *Next*.



6. The *Add-on Product* dialog allows you to add additional software sources (so-called “repositories”) to SUSE Linux Enterprise Server, that are not provided by the SUSE Customer Center. Such add-on products may include third-party products and drivers or additional software for your system.



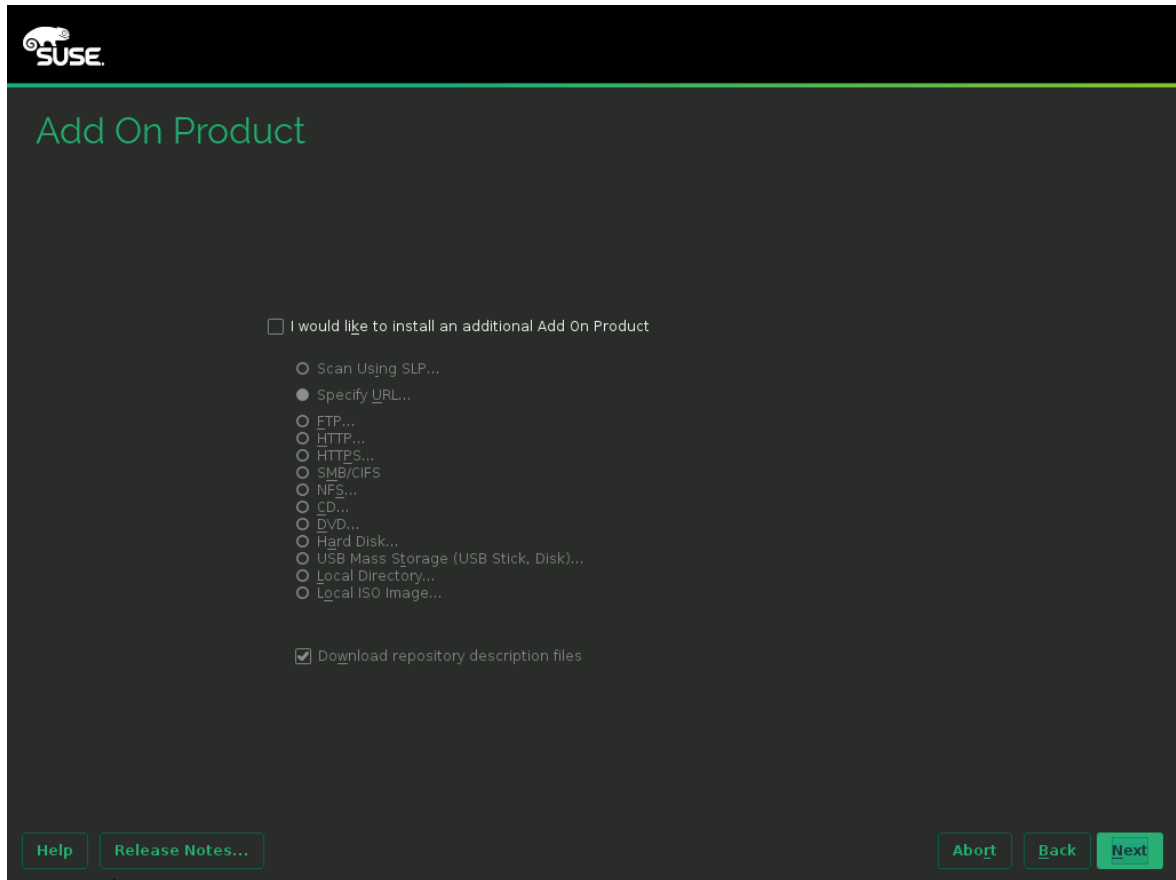
Tip: Adding Drivers During the Installation

You can also add driver update repositories via the *Add-On Products* dialog. Driver updates for SUSE Linux Enterprise are provided at <http://drivers.suse.com/> . These drivers have been created via the Partner Linux Driver Program.

If you want to skip this step, proceed with *Next*. Otherwise activate *I would like to Install an Add-on Product*. Specify a media type, a local path or a network resource hosting the repository and follow the on-screen instructions.

Check *Download Repository Description Files* to download the files describing the repository now. If deactivated, they will be downloaded after the installation has started. Proceed with *Next* and insert a medium if required. Depending on the product's content it may be

necessary to accept additional license agreements. Proceed with *Next*. If you have chosen an add-on product requiring a registration key, you will be asked to enter it at the *Extension and Module Registration Codes* page.



7. Review the partition setup proposed by the system. If necessary, change it. You have the following options:

Edit Proposal Settings

Lets you change options for the proposed settings, but not the suggested partition layout itself.

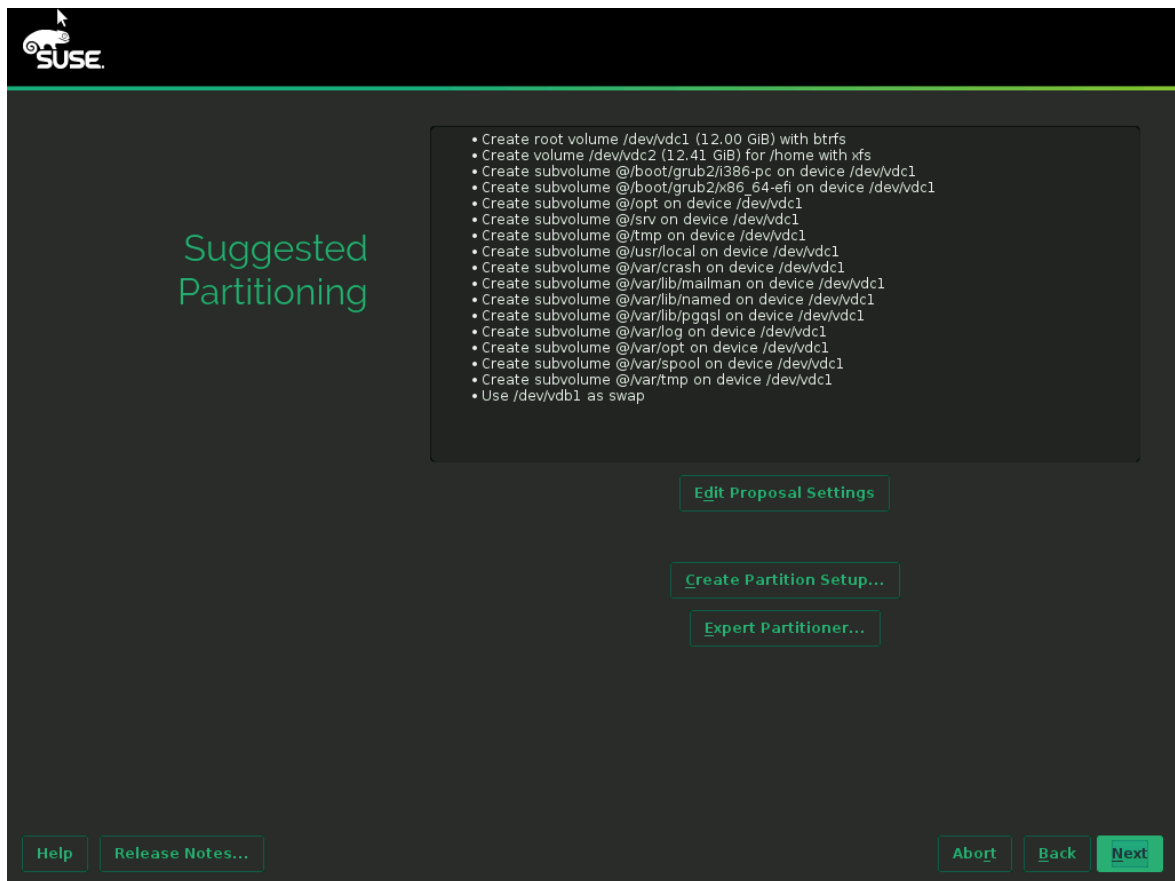
Create Partition Setup

Select a disk to which to apply the proposal.

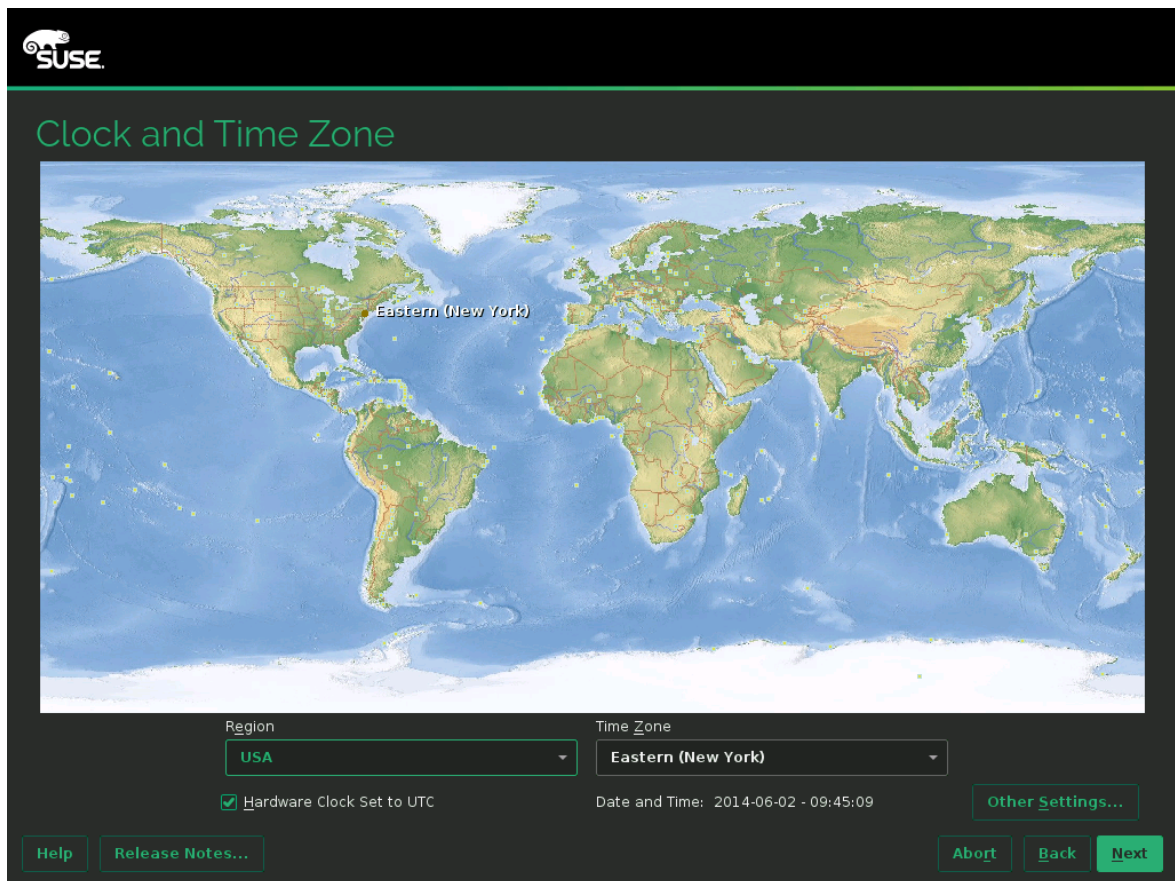
Expert Partitioner

Opens the *Expert Partitioner* described in Book “Deployment Guide” 15 “Advanced Disk Setup”15.1 “Using the YaST Partitioner”.

To accept the proposed setup without any changes, choose *Next* to proceed.



8. Select the clock and time zone to use in your system. To manually adjust the time or to configure an NTP server for time synchronization, choose *Other Settings*. See Book “Deployment Guide” 6 “Installation with YaST” 6.9 “Clock and Time Zone” for detailed information. Proceed with *Next*.



9. To create a local user, type the first and last name in the *User's Full Name* field, the login name in the *Username* field, and the password in the *Password* field.

The password should be at least eight characters long and should contain both uppercase and lowercase letters and numbers. The maximum length for passwords is 72 characters, and passwords are case-sensitive.

For security reasons it is also strongly recommended *not* to enable the *Automatic Login*. You should also *not Use this Password for the System Administrator* but rather provide a separate root password in the next installation step. Mails generated by the system are delivered to the user root by default. Check *Receive System Mail* if you would rather get them as the user that you have created.

Selecting *Change* gets you to the expert options explained in Book “Deployment Guide” 12 “Managing Users with YaST”. Proceed with *Next*.

The screenshot shows the 'Create New User' window from the SUSE Linux installer. The window has a dark background with light text. At the top left is the SUSE logo. The title 'Create New User' is in a large, light green font. Below the title, there are four text input fields: 'User's Full Name', 'Username', 'Password', and 'Confirm Password'. Below these fields are three checkboxes: 'Use this password for system administrator', 'Receive System Mail', and 'Automatic Login'. Below the checkboxes is a 'Summary' section with two lines of text: 'The authentication method is local /etc/passwd.' and 'The password encryption method is SHA-512.' Below the summary is a 'Change...' button. At the bottom of the window, there are four buttons: 'Help', 'Release Notes...', 'Abort', and 'Next'.

SUSE

Create New User

User's Full Name
|

Username

Password

Confirm Password

☐ Use this password for system administrator
☐ Receive System Mail
☐ Automatic Login

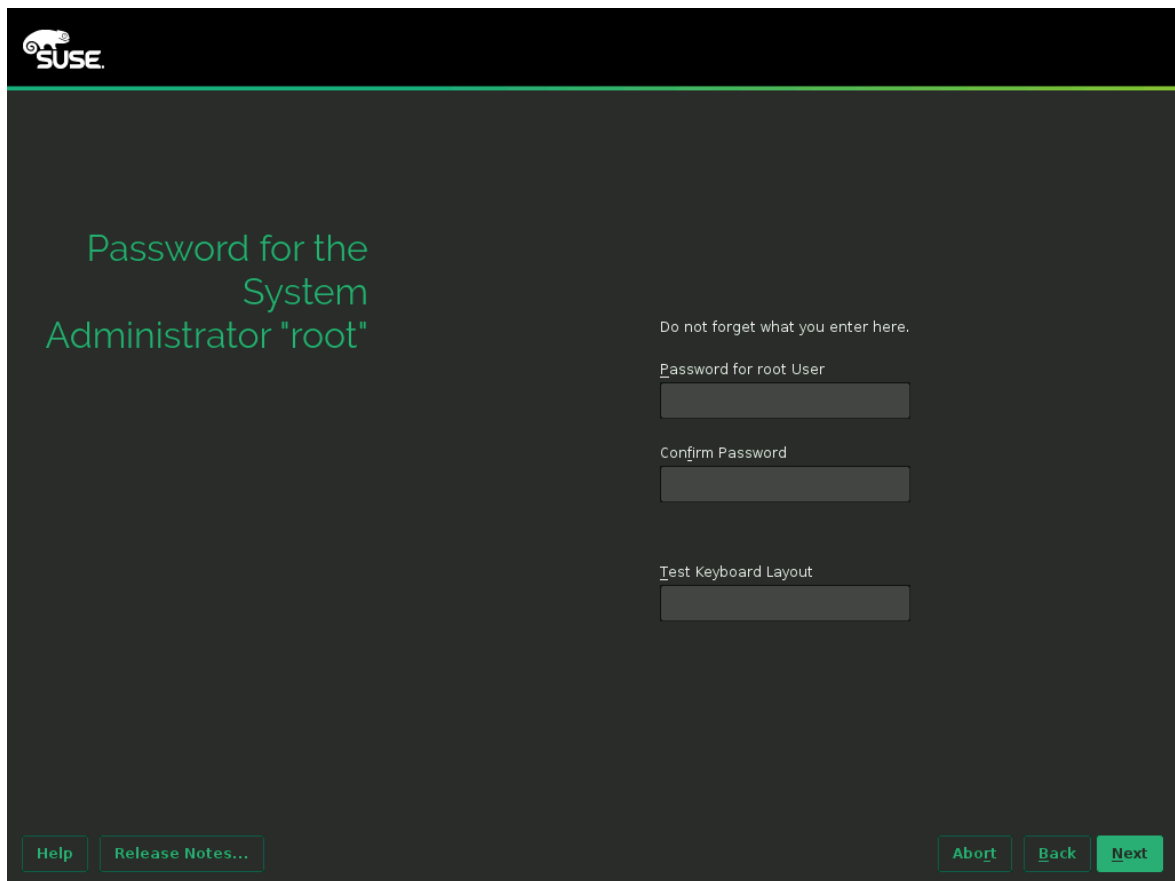
Summary

The authentication method is local /etc/passwd.
The password encryption method is SHA-512.

Change...

Help Release Notes... Abort Back Next

10. Type a password for the system administrator account (called the root user). You should never forget the root password! After you entered it here, the password cannot be retrieved. See Book “Deployment Guide” 6 “Installation with YaST” 6.11 “Password for the System Administrator root” for more information. Proceed with *Next*.



11. Use the *Installation Settings* screen to review and—if necessary—change a number of proposed installation settings. The current configuration is listed for each setting. To change it, click the headline. Some settings, such as firewall or SSH can directly be changed by clicking the respective links.



Tip: Remote Access

Changes you can make here, can also be made later at any time from the installed system. However, if you need remote access directly after the installation, you should adjust the *Firewall and SSH* settings according to your needs.

Software

The default scope of software includes the base system and X Window with the GNOME desktop. Clicking *Software* opens the *Software Selection and System Tasks* screen, where you can change the software selection by selecting or deselecting patterns. Each pattern contains a number of software packages needed for specific func-

tions (for example, Web and LAMP server or a print server). For a more detailed selection based on software packages to install, select *Details* to switch to the YaST *Software Manager*. See *Book “Deployment Guide” 9 “Installing or Removing Software”* for more information.

Booting

This section shows the boot loader configuration. Changing the defaults is only recommended if really needed. Refer to *Book “Administration Guide” 12 “The Boot Loader GRUB 2”* for details.

Firewall and SSH

By default, the Firewall is enabled with the active network interface configured for the external zone. See *Book “Security Guide” 15 “Masquerading and Firewalls”* 15.4 “*SuSEFirewall2*” for configuration details.

The SSH service is disabled by default, its port (22) is closed. Therefore logging in from remote is not possible by default. Click *enable and open* to toggle these settings.

Kdump

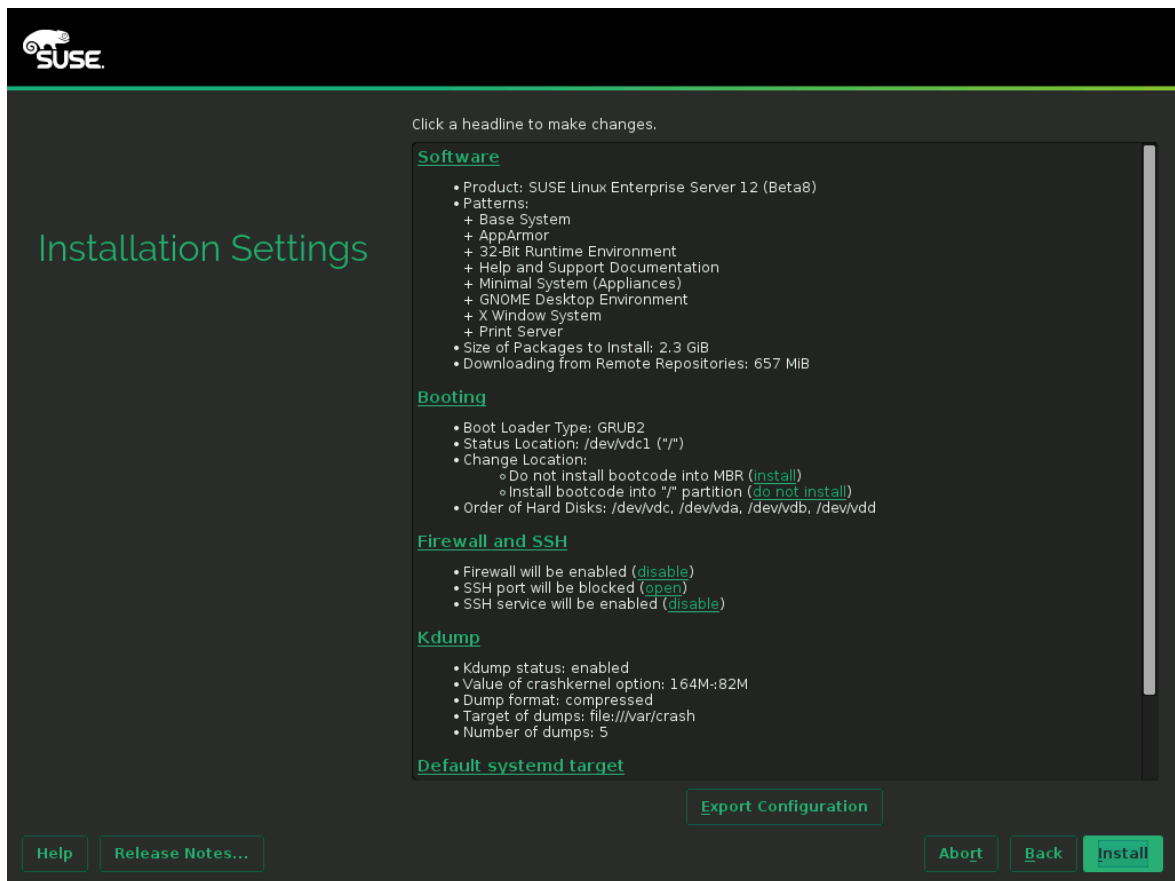
Kdump saves the memory image (“core dump”) to the file system in case the kernel crashes. This enables you to find the cause of the crash by debugging the dump file. Kdump is preconfigured and enabled by default. See *Book “System Analysis and Tuning Guide” 16 “Kexec and Kdump”* 16.6 “*Basic Kdump Configuration*” for more information.

Default Systemd Target and Services

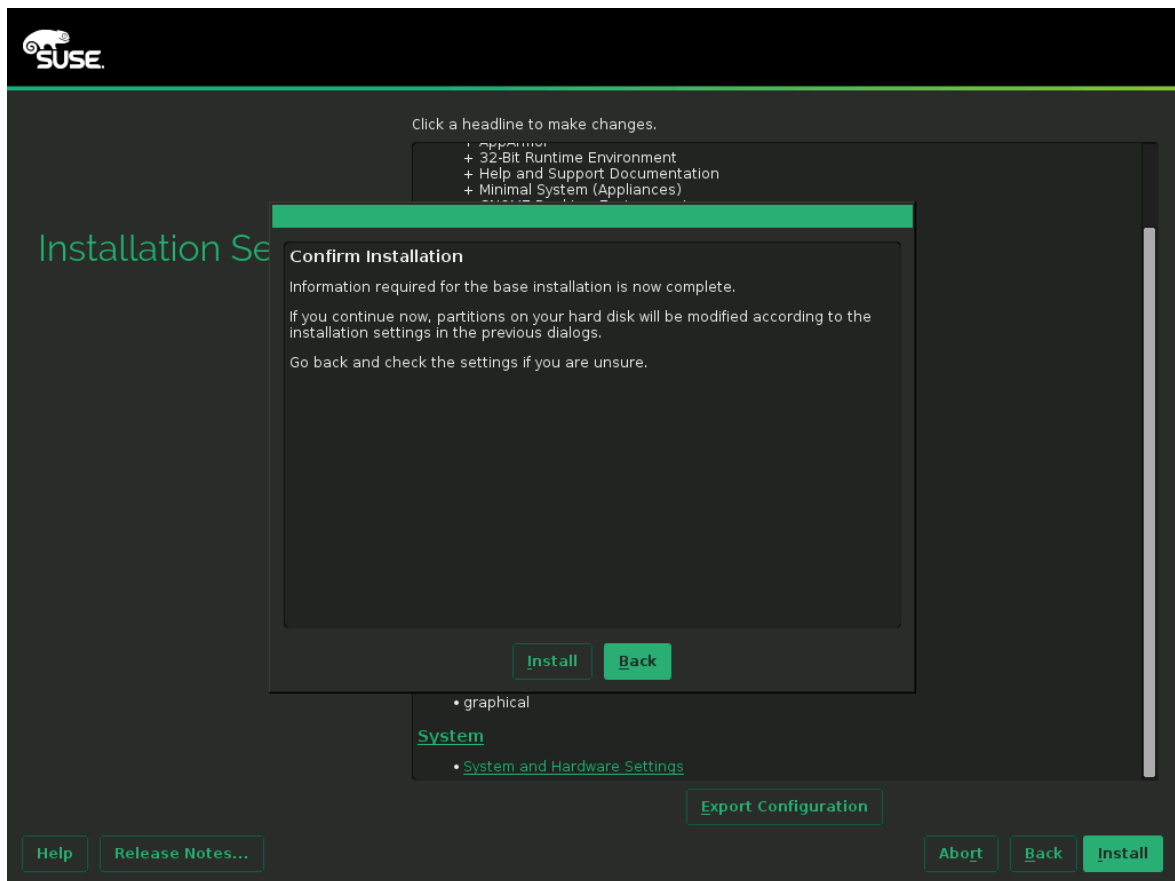
By default, the system boots into the *graphical* target, with network, multiuser and display manager support. Switch to *multi-user* if you do not need to log in via display manager.

System

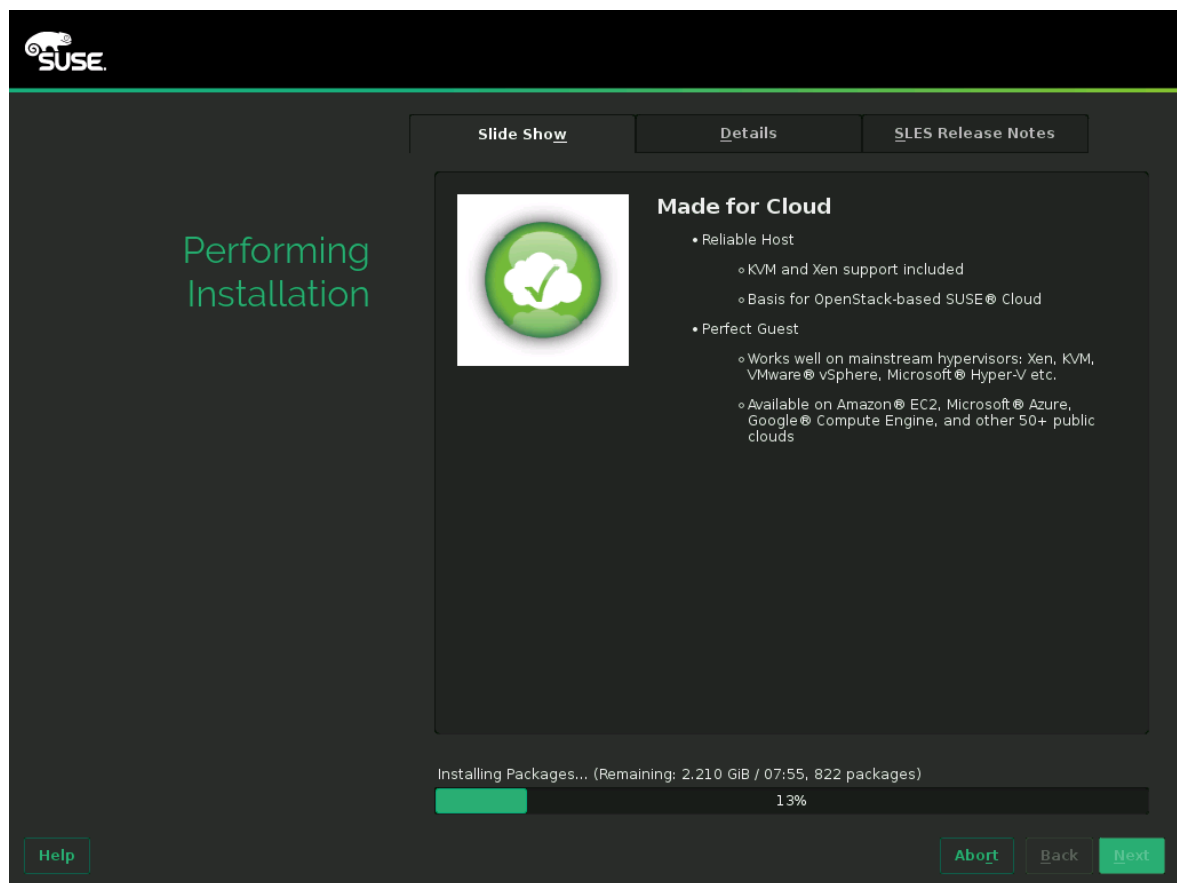
View detailed hardware information by clicking *System*. In the resulting screen you can also change *Kernel Settings*—see *Book “Deployment Guide” 6 “Installation with YaST”* 6.12.6 “*System*” for more information.



12. After you have finalized the system configuration on the *Installation Settings* screen, click *Install*. Depending on your software selection you may need to agree to license agreements before the installation confirmation screen pops up. Up to this point no changes have been made to your system. After you click *Install* a second time, the installation process starts.



13. During the installation, the progress is shown in detail on the *Performing Installation* screen.



14. After the installation routine has finished, the computer is rebooted into the installed system. Log in and start YaST to fine-tune the system. If you are not using a graphical desktop or are working from remote, refer to *Book “Administration Guide” 3 “YaST in Text Mode”* for information on using YaST from a terminal.

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