



BladeBoot SLES 10 SP1

BladeBoot
Software-Based iSCSI Boot
For SLES 10 SP1 on IBM Blades

Note

Before using this information and the product it supports, read the information in “Notices”, on page 28.

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1 SLES 10 SP1

1.1 Infrastructure Preparation

You will need:

1. IBM BladeCenter (chassis for Blades)
2. IBM Blade with BladeBoot support.
 - a. Latest BIOS Firmware Update
 - b. Latest BMC Firmware Update
3. IBM iSCSI Configuration Manager (software utility)
4. iSCSI Target such as an IBM N3700 (storage appliance)

The following link can assist in locating some of the required items:

<http://www-03.ibm.com/servers/eserver/bladecenter/storage/iscsi.html>

1.2 Requirements

1. Configure your iSCSI Target to provide a LUN.
 - a. Preferably the LUN is cleared out when created (all zeros in the first sector at a minimum).
2. Configure your Blade for iSCSI Boot.
3. Power on the Blade and verify that the IBM iSCSI Firmware Initiator is invoked and that it successfully logs in to the iSCSI Target.

You cannot proceed past this point until your SAN configuration is verified as described.

4. SUSE Linux Enterprise Server 10 SP1

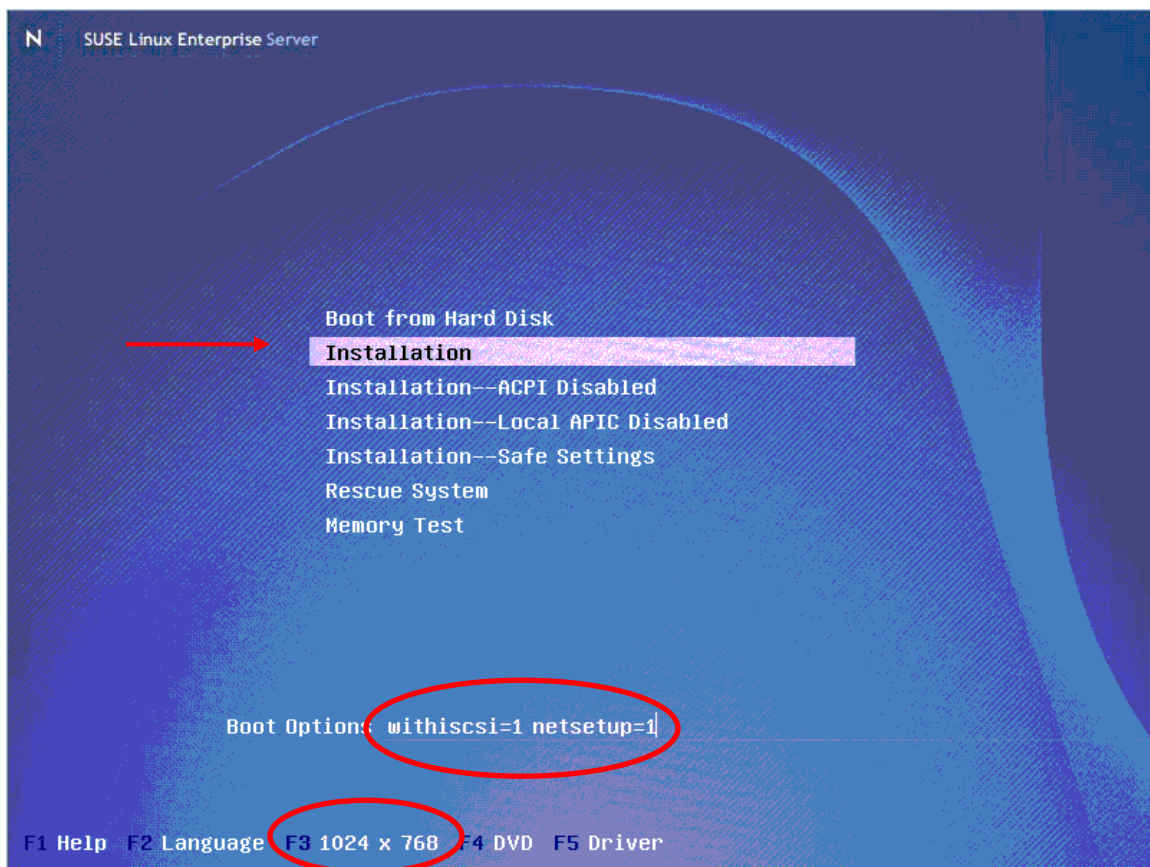
1.3 Install SLES 10 SP1

The list of possible consoles used to install SLES 10 includes a local console or “Remote Console” via the web interface of the Management Module (MM). Use of the Remote Console will require selecting a video mode compatible with the Remote Console. See the Help (ie “?” link) on the MM Remote Console web page.

1.3.1 Installation Settings

Start the installation as follows:

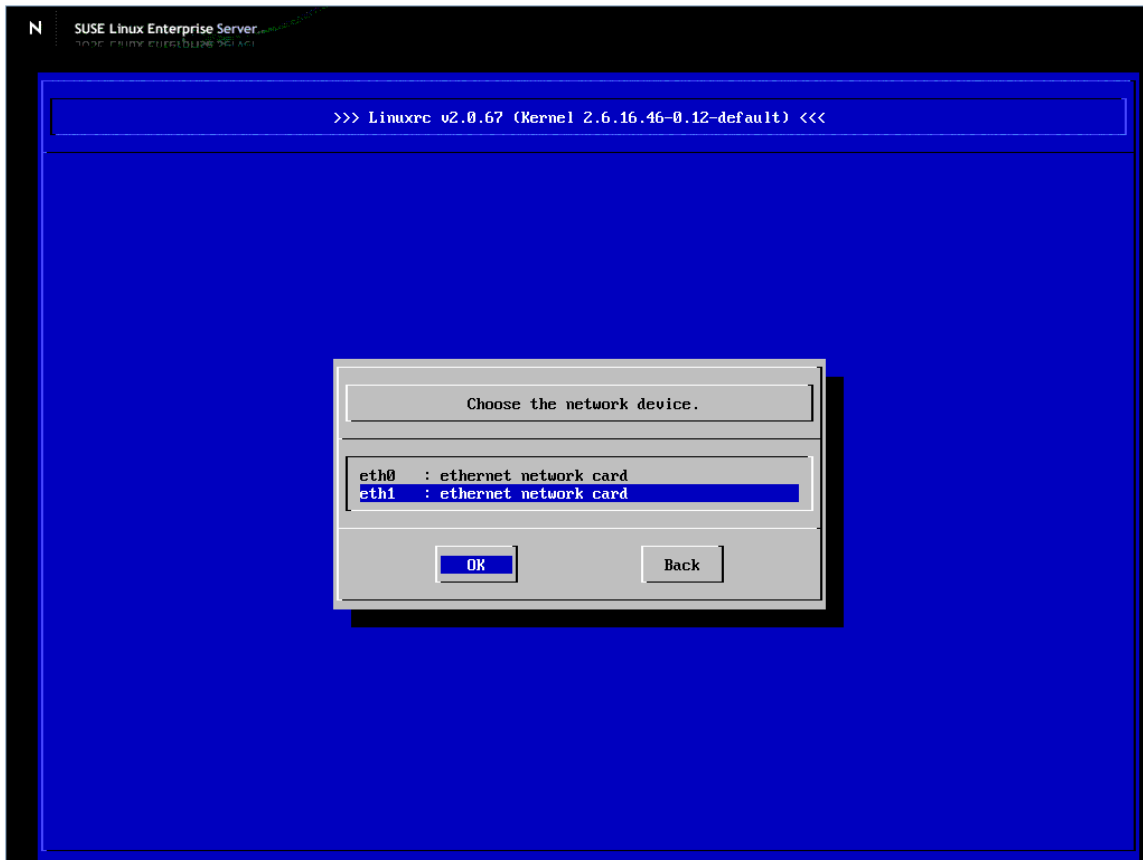
1. Boot the SUSE Linux Enterprise Server 10 SP1 DVD (or CD 1).
2. On the boot screen, press F3, scroll to 1024 x 768, and press Enter.
3. For an iSCSI Boot installation, select Installation and enter *withiscsi=1 netsetup=1* at the Boot Options prompt.
4. Press Enter.



1.3.2 Network

1.3.2.1 Network Device

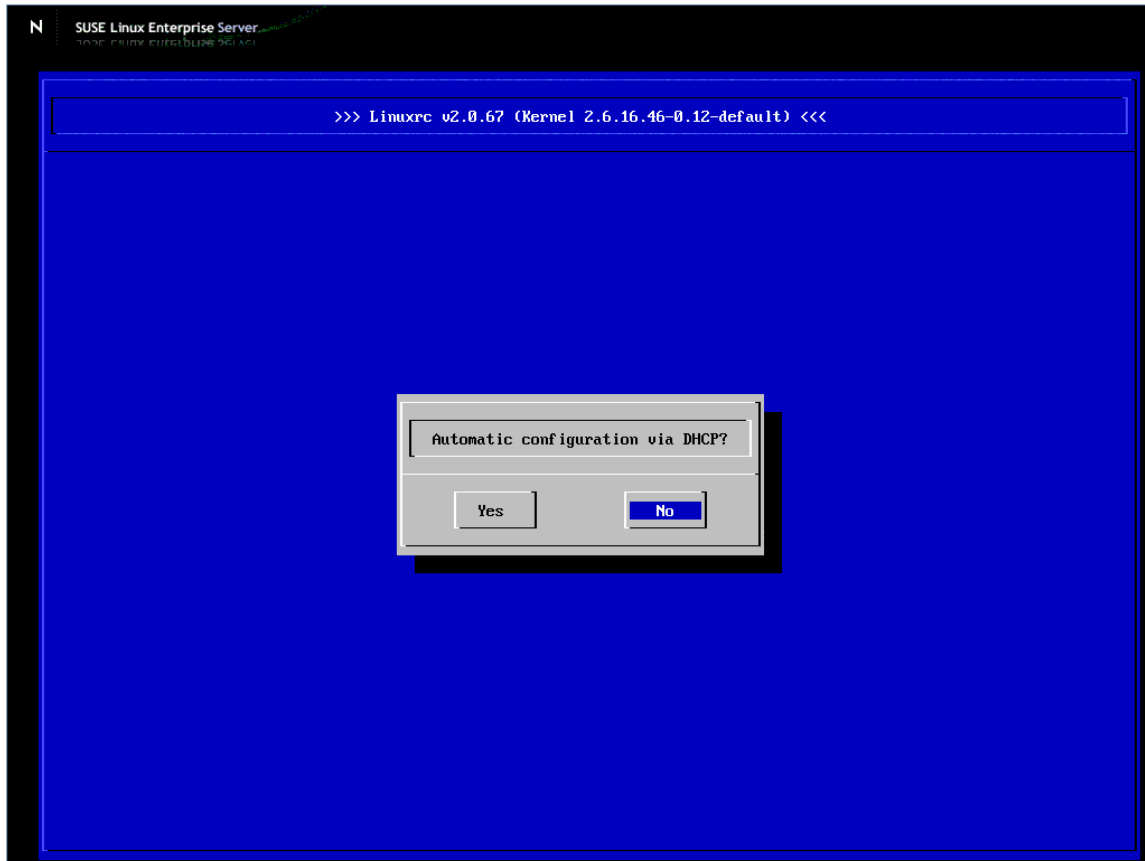
Select the device connected to the iSCSI SAN.



Select OK.

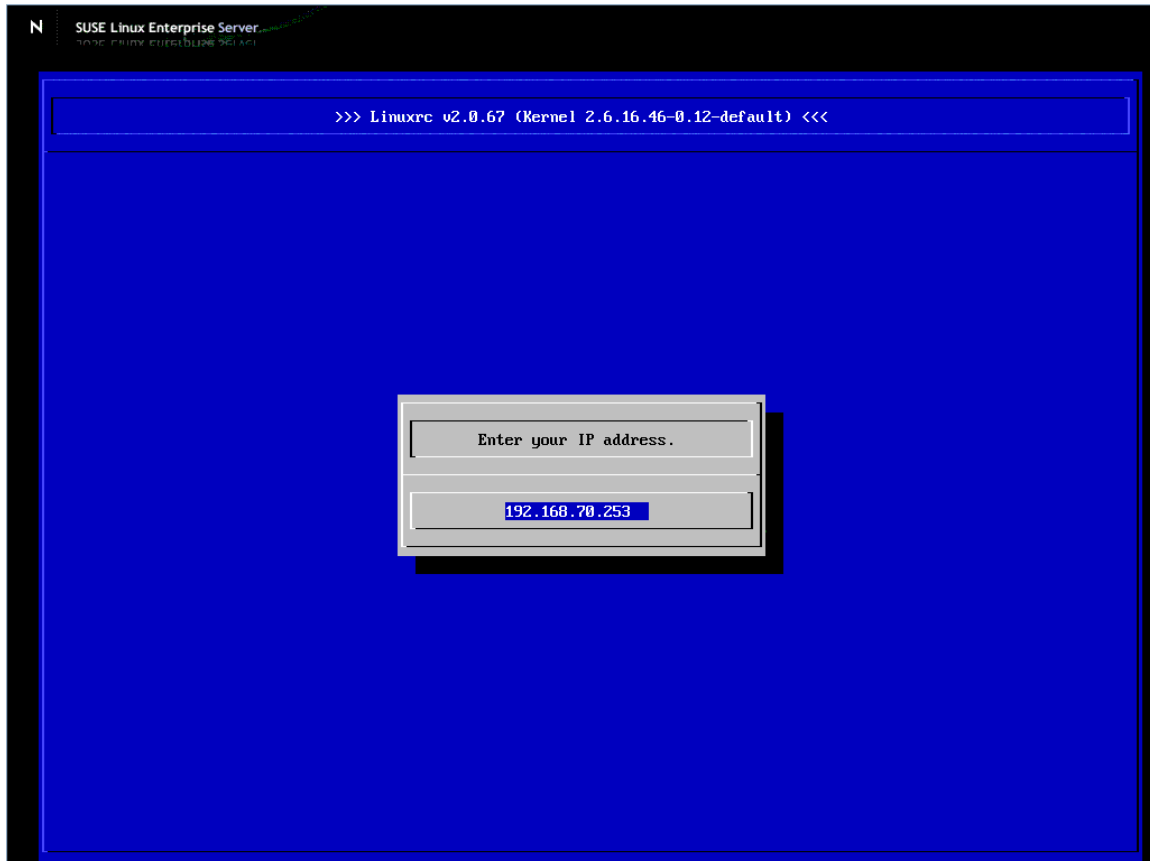
1.3.2.2 Network Configuration

At the “Automatic configuration via DHCP” prompt make a selection based on your network infrastructure.



1.3.2.3 Enter IP Address

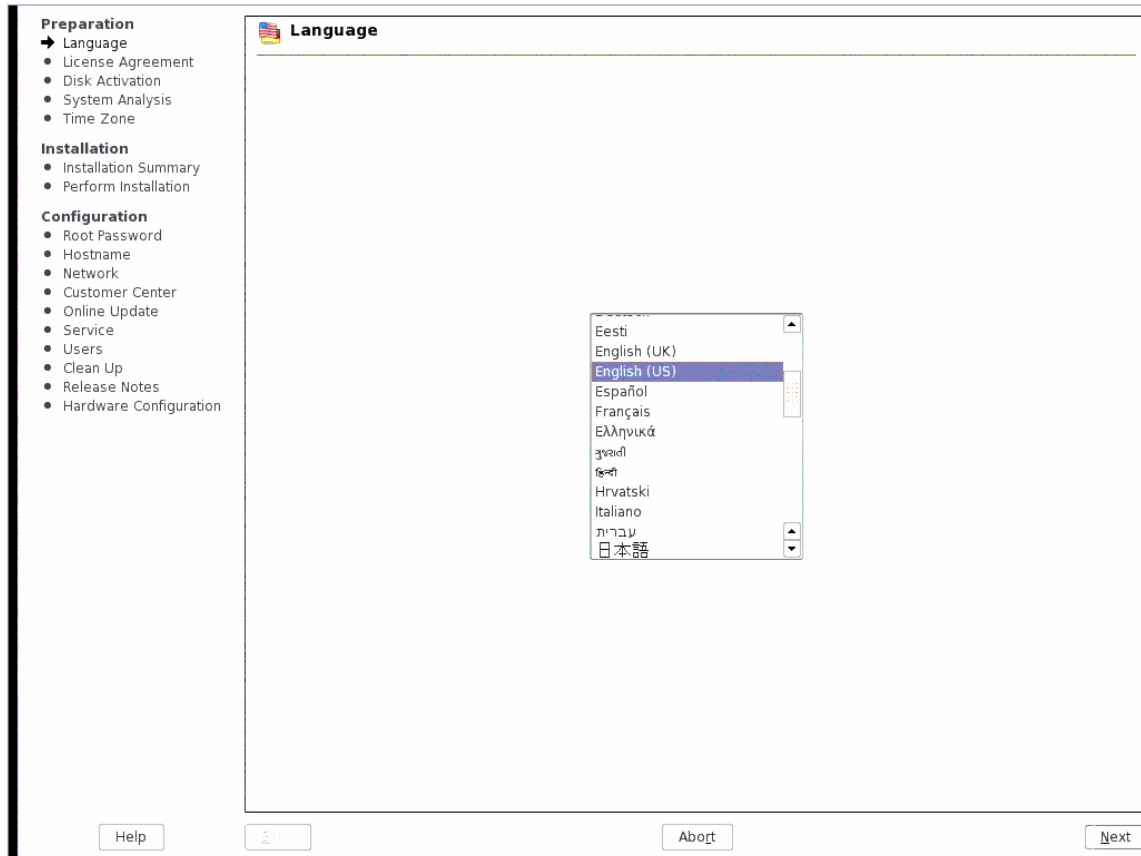
If you selected “No” to DHCP you will be prompted to enter your networking information.



Netmask, Gateway, and Name Server panels will follow.

1.3.3 Language

Select your language.



Click Next.

1.3.4 License

Read the License Agreement, and if you agree select “Yes, I Agree to the License Agreement”.

The screenshot shows the SUSE Linux Enterprise Server (SLES) 10 SP1 installation window. On the left is a navigation pane with the following sections:

- Preparation**
 - ✓ Language
 - ➔ License Agreement (selected)
 - Disk Activation
 - System Analysis
 - Time Zone
- Installation**
 - Installation Summary
 - Perform Installation
- Configuration**
 - Root Password
 - Hostname
 - Network
 - Customer Center
 - Online Update
 - Service
 - Users
 - Clean Up
 - Release Notes
 - Hardware Configuration

The main window is titled "License Agreement". It contains a "Language" dropdown menu set to "English". Below this is a scrollable text area containing the following text:

SUSE(r) LINUX Enterprise Server (SLES) 10 Novell(r) Software License Agreement

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At the bottom of the window, there are two radio buttons:

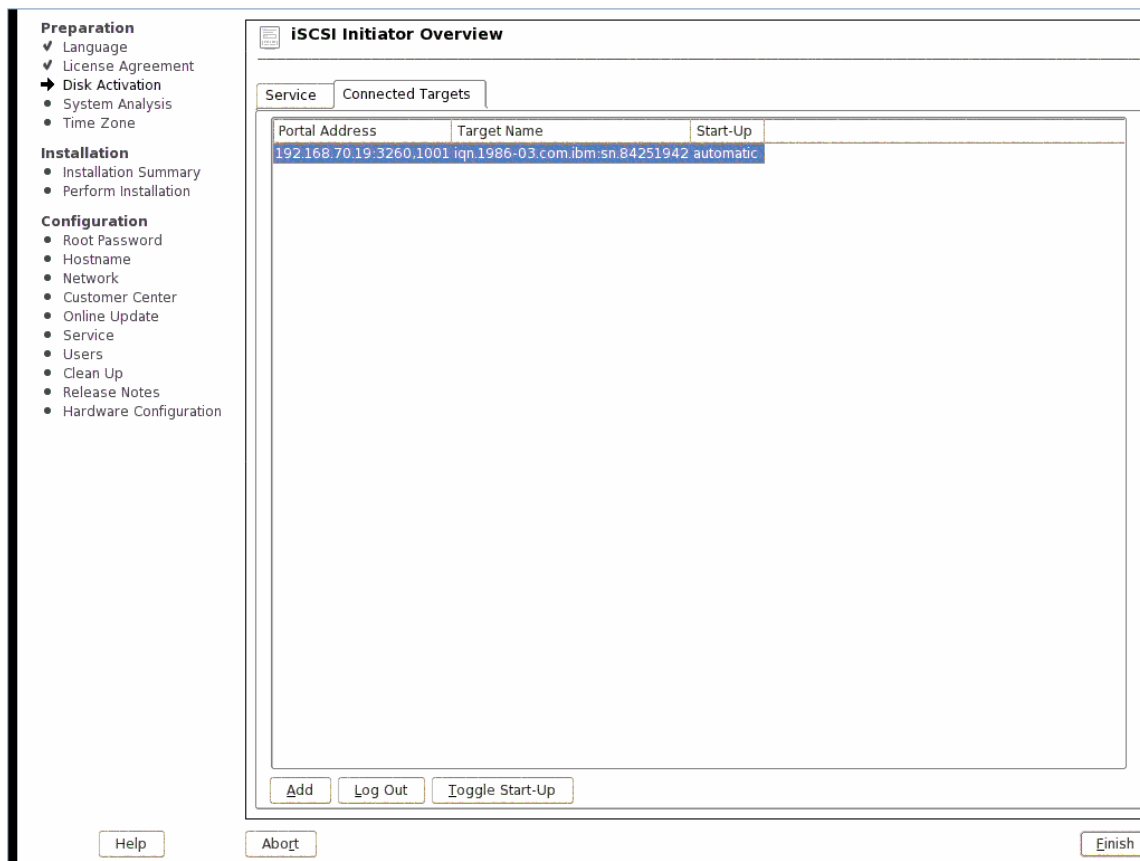
- ☒ Yes, I Agree to the License Agreement
- ☐ No, I Do Not Agree

At the very bottom of the window are four buttons: "Help", "Back", "Abort", and "Next".

Click Next.

1.3.5 iSCSI Initiator Overview

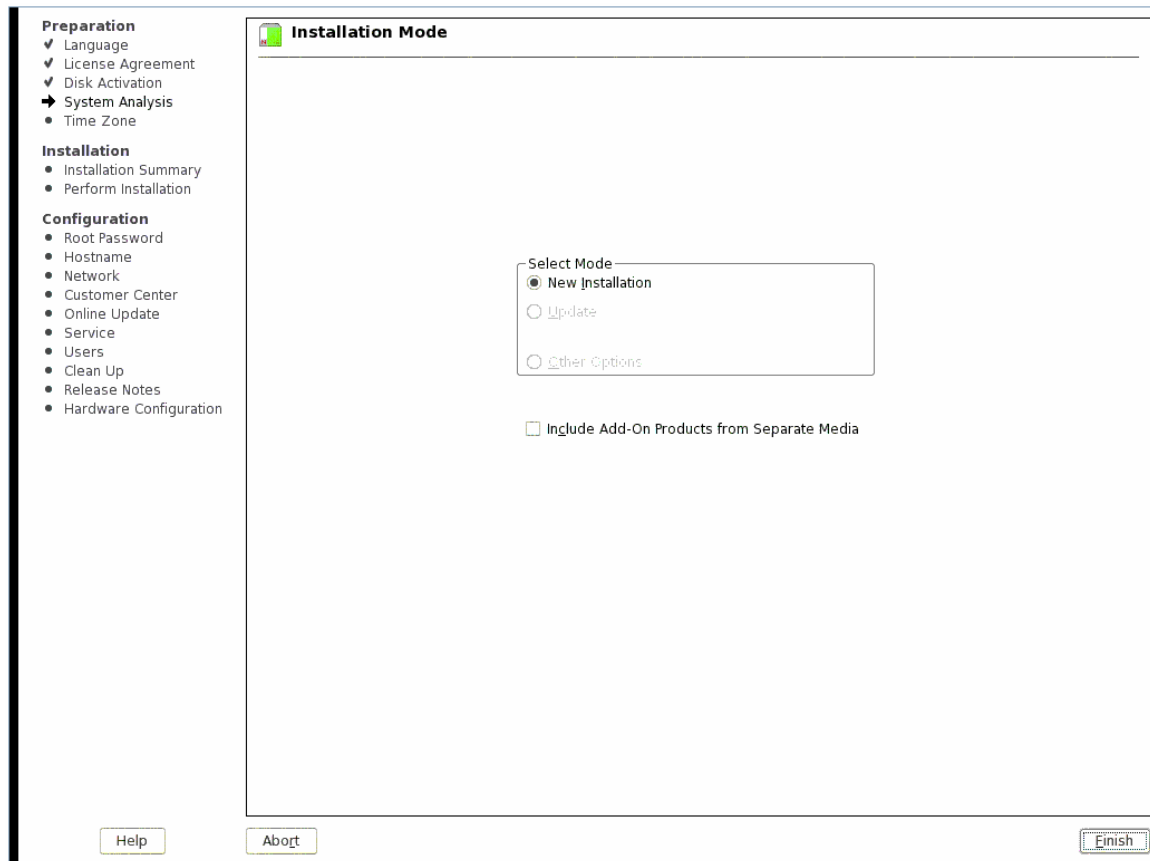
The iSCSI Target is displayed. Note that the Target information is passed from the Blade firmware (BIOS) to the operating system automatically.



Click Finish.

1.3.6 Installation Mode

Select New Installation.



Click Finish.

1.3.7 Clock and Time Zone

In the "Clock and Time Zone" screen, select the applicable Region, Time Zone, and Hardware Clock settings. Change the time and date if necessary.

Preparation

- ✓ Language
- ✓ License Agreement
- ✓ Disk Activation
- ✓ System Analysis
- Time Zone

Installation

- Installation Summary
- Perform Installation

Configuration

- Root Password
- Hostname
- Network
- Customer Center
- Online Update
- Service
- Users
- Clean Up
- Release Notes
- Hardware Configuration

Clock and Time Zone

Region

- Europe
- USA**
- Canada
- Central and South America
- Russia
- Asia
- Australia
- Africa
- Pacific
- Global
- Etc

Time Zone

- Alaska
- Aleutian
- Arizona
- Central
- Eastern**
- East Indiana
- Hawaii
- Indiana Starke
- Michigan
- Mountain
- Pacific
- Samoa

Hardware Clock Set To: UTC

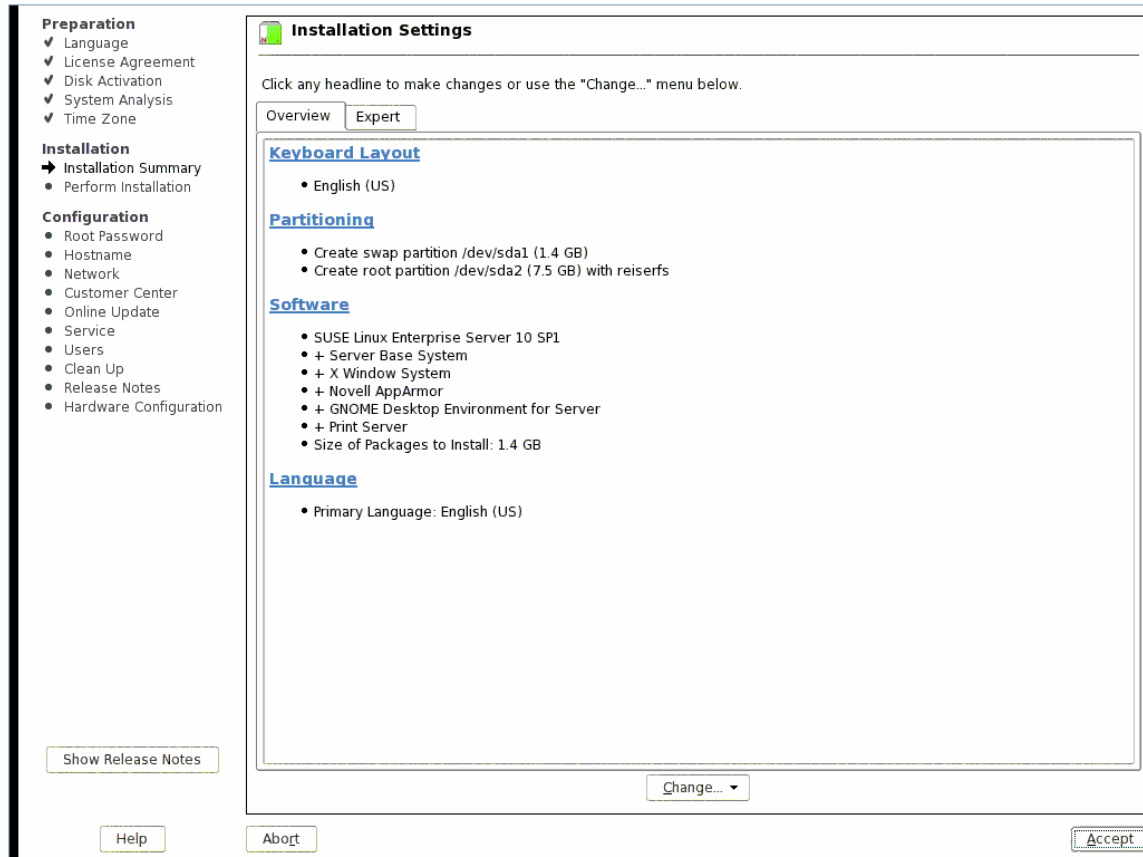
Time and Date: 10:14:22 - 2007-07-06 [Change...](#)

[Help](#) [Abort](#) [Finish](#)

Click Finish.

1.3.8 Installation Settings

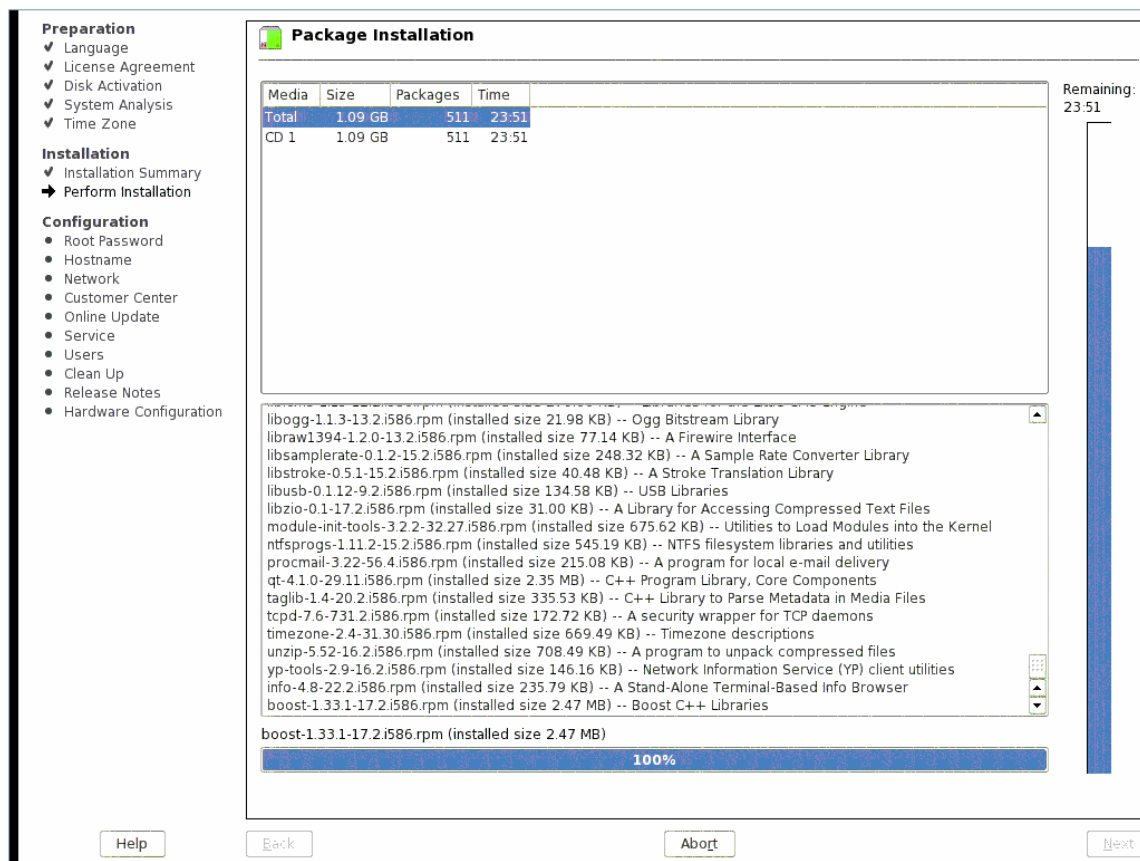
The defaults are fine for a reference install. Make changes appropriate to your requirements.



Click Accept.

1.3.9 Package Installation

Installation proceeds...



When this phase completes the system reboots.

1.3.10 Password

Enter the password for the root user.

The screenshot shows the BladeBoot SLES 10 SP1 installation window. On the left is a navigation pane with the following sections:

- Preparation**
 - ✓ Language
 - ✓ License Agreement
 - ✓ Disk Activation
 - ✓ System Analysis
 - ✓ Time Zone
- Installation**
 - ✓ Installation Summary
 - ✓ Perform Installation
- Configuration**
 - ➔ Root Password
 - Hostname
 - Network
 - Customer Center
 - Online Update
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 - Release Notes
 - Hardware Configuration

The main content area is titled "Password for the System Administrator 'root'" and contains the following text and fields:

Do not forget what you enter here.

Password for root User

Confirm Password

Expert Options...

At the bottom of the window are four buttons: Help, a small empty button, Abort, and Next.

Click Next.

1.3.11 Hostname and Domain Name

Update as appropriate.

The screenshot shows the 'Hostname and Domain Name' configuration window. On the left is a navigation pane with the following sections:

- Preparation**
 - ✓ Language
 - ✓ License Agreement
 - ✓ Disk Activation
 - ✓ System Analysis
 - ✓ Time Zone
- Installation**
 - ✓ Installation Summary
 - ✓ Perform Installation
- Configuration**
 - ✓ Root Password
 - ➔ **Hostname**
 - Network
 - Customer Center
 - Online Update
 - Service
 - Users
 - Clean Up
 - Release Notes
 - Hardware Configuration

The main window title is 'Hostname and Domain Name'. It contains a form with the following fields and options:

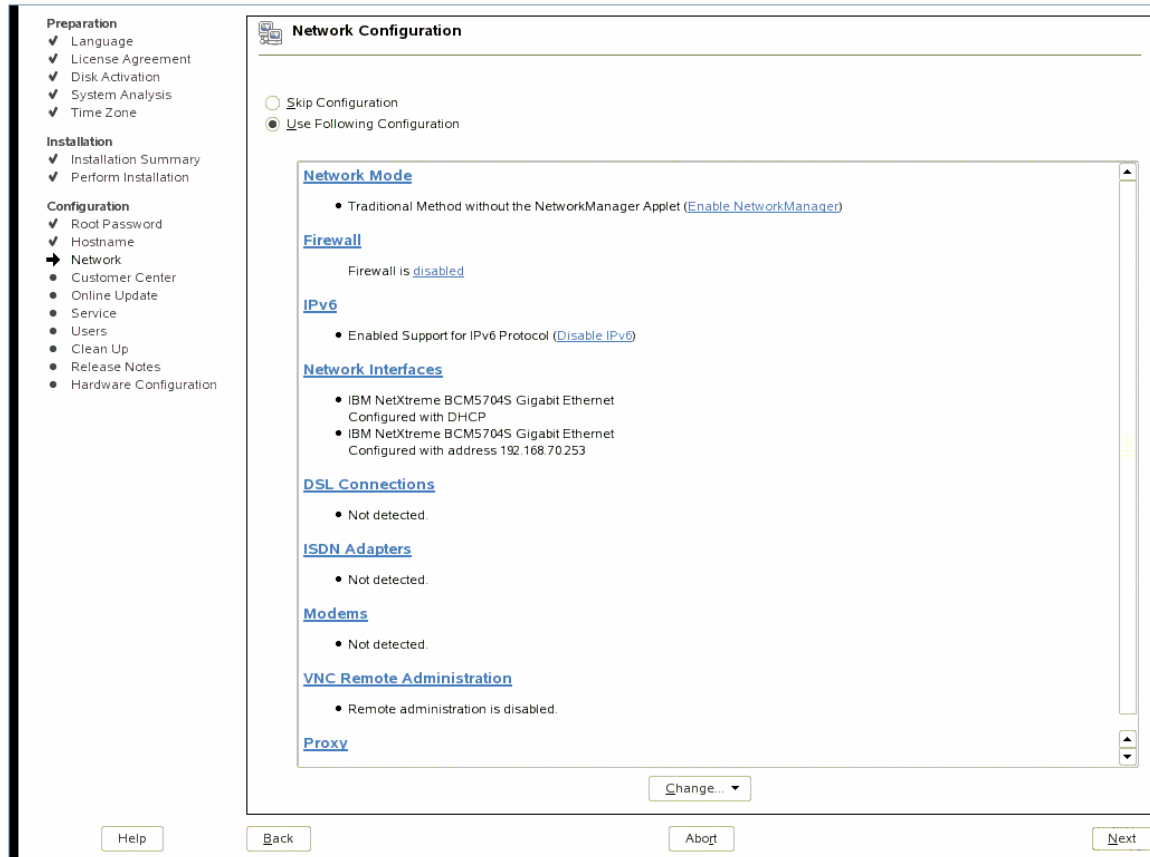
- Hostname**: A text box containing 'linux-3swg'.
- Domain Name**: A text box containing 'site'.
- ☒ **Change Hostname via DHCP**
- ☒ **Write Hostname to /etc/hosts**

At the bottom of the window are four buttons: 'Help', 'Back', 'Abort', and 'Next'.

Click Next.

1.3.12 Network Configuration

You might want to disable the firewall if you are testing in a secure lab environment. You can configure other NICs in the system at this time as well.



Click Next.

1.3.13 Test Internet Connection

If you want to Test make sure you select the NIC that is connected to your LAN that is connected to the Internet.

Preparation

- ✓ Language
- ✓ License Agreement
- ✓ Disk Activation
- ✓ System Analysis
- ✓ Time Zone

Installation

- ✓ Installation Summary
- ✓ Perform Installation

Configuration

- ✓ Root Password
- ✓ Hostname
- ➔ **Network**
- Customer Center
- Online Update
- Service
- Users
- Clean Up
- Release Notes
- Hardware Configuration

Test Internet Connection

To validate your Internet access, activate the test procedure.

The following steps will be performed:

- Download latest release notes
- Check for latest updates

Select:

☐ Yes, Test Connection to the Internet via IBM NetXtreme BCM5704S Giga... - network card (DHCP address)

☒ No, Skip This Test

Change Device

Help Back Abort Next

Click Next.

1.3.14 Installation Settings

Change as required.

Preparation

- ✓ Language
- ✓ License Agreement
- ✓ Disk Activation
- ✓ System Analysis
- ✓ Time Zone

Installation

- ✓ Installation Summary
- ✓ Perform Installation

Configuration

- ✓ Root Password
- ✓ Hostname
- ✓ Network
- ✓ Customer Center
- ✓ Online Update
- ➔ Service
- Users
- Clean Up
- Release Notes
- Hardware Configuration

Installation Settings

☐ Skip Configuration
☒ Use Following Configuration

CA Management

Creating default CA and certificate.
With higher security requirements, you should change the password.

- CA Name: YaST_Default_CA
- Common Name: YaST Default CA (linux3swg)
- Server Name: linux3swg.site
- Country: EN
- Password: [root password]
- E-Mail: postmaster@site

OpenLDAP Server

Start LDAP Server: **NO**

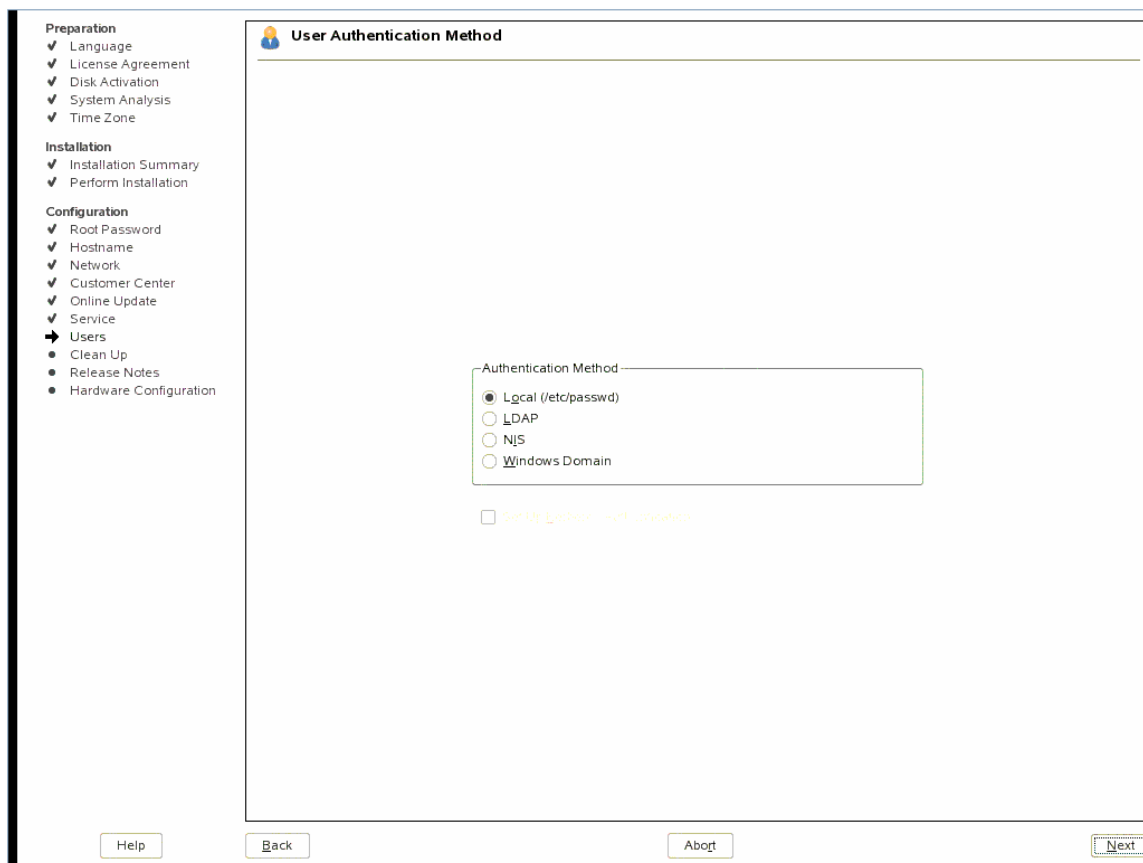
Change...

Help Back About Next

Click Next.

1.3.15 User Authentication Method

Select as appropriate.



The image shows a graphical user interface window titled "User Authentication Method". On the left side, there is a vertical list of configuration steps, each preceded by a checkmark or a right-pointing arrow. The steps are: Preparation (Language, License Agreement, Disk Activation, System Analysis, Time Zone), Installation (Installation Summary, Perform Installation), Configuration (Root Password, Hostname, Network, Customer Center, Online Update, Service), and Users (highlighted with a right-pointing arrow, followed by Clean Up, Release Notes, and Hardware Configuration). The main area of the window contains the "Authentication Method" section, which has four radio button options: "Local (/etc/passwd)" (selected), "LDAP", "NIS", and "Windows Domain". Below these options is a checkbox labeled "Enable LDAP" which is currently unchecked. At the bottom of the window, there are four buttons: "Help", "Back", "About", and "Next".

Preparation

- ✓ Language
- ✓ License Agreement
- ✓ Disk Activation
- ✓ System Analysis
- ✓ Time Zone

Installation

- ✓ Installation Summary
- ✓ Perform Installation

Configuration

- ✓ Root Password
- ✓ Hostname
- ✓ Network
- ✓ Customer Center
- ✓ Online Update
- ✓ Service
- ➔ Users
- Clean Up
- Release Notes
- Hardware Configuration

User Authentication Method

Authentication Method

- ☒ Local (/etc/passwd)
- ☐ LDAP
- ☐ NIS
- ☐ Windows Domain

☐ Enable LDAP

Help Back About Next

Click Next.

1.3.16 New Local User

Enter user information.

Preparation

- ✓ Language
- ✓ License Agreement
- ✓ Disk Activation
- ✓ System Analysis
- ✓ Time Zone

Installation

- ✓ Installation Summary
- ✓ Perform Installation

Configuration

- ✓ Root Password
- ✓ Hostname
- ✓ Network
- ✓ Customer Center
- ✓ Online Update
- ✓ Service
- ➔ **Users**
- Clean Up
- Release Notes
- Hardware Configuration

New Local User

User's Full Name
Rich B

Username
richb

Password

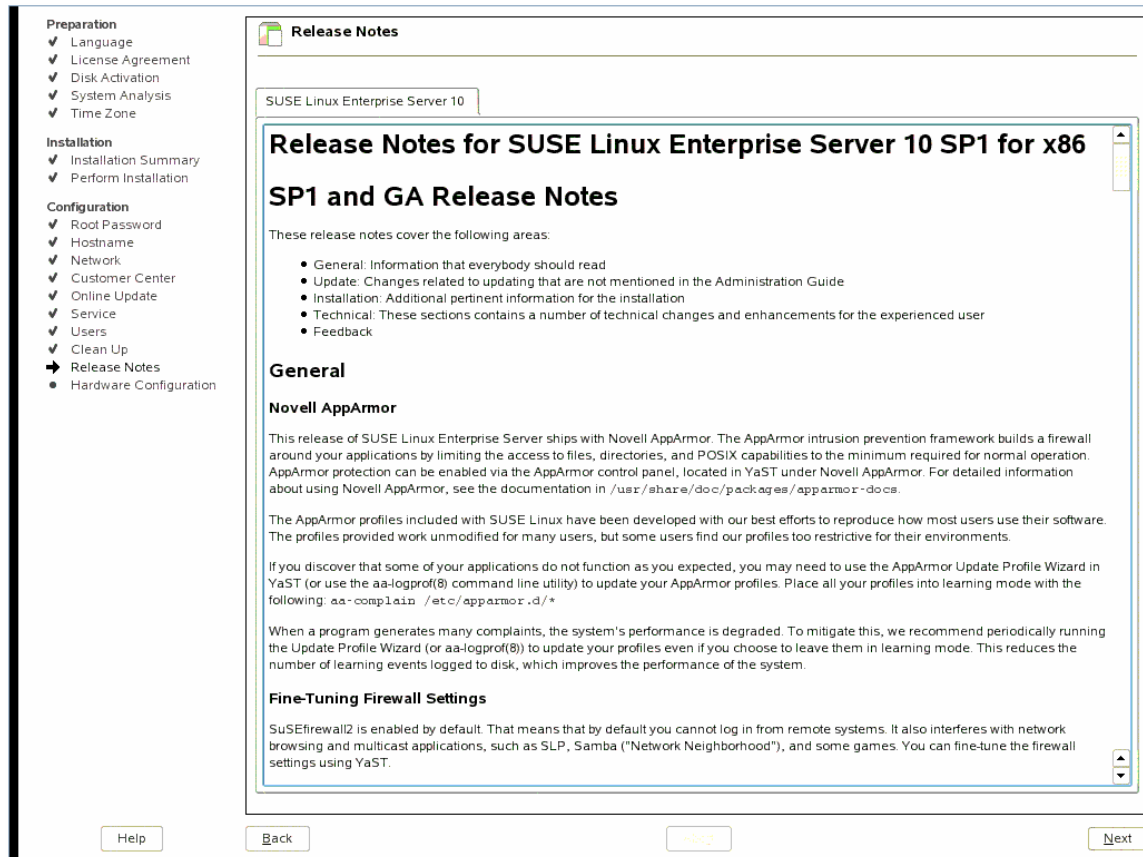
Confirm Password

☐ Receive System Mail
☐ Automatic Login

Click Next.

1.3.17 Release Notes

Browse the release notes.

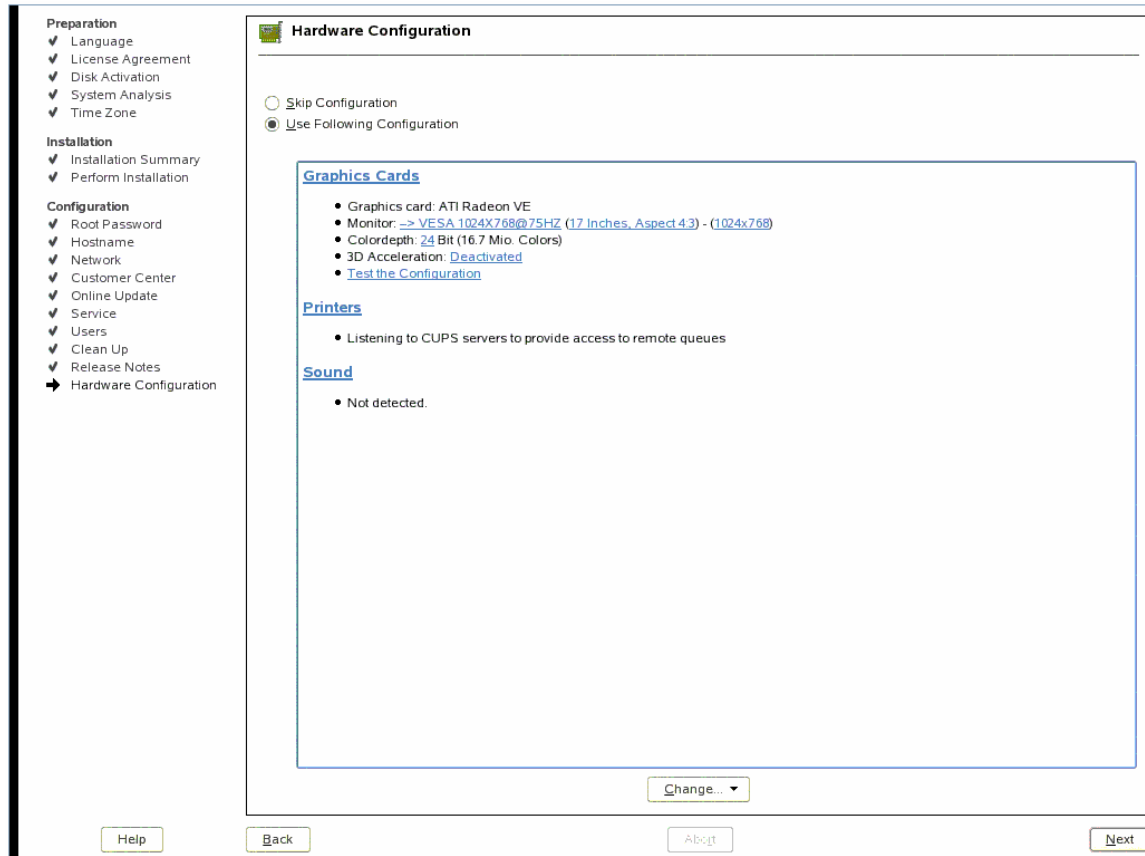


Click Next.

1.3.18 Hardware Configuration

Change the monitor setting to VESA 1024x768@75HZ.

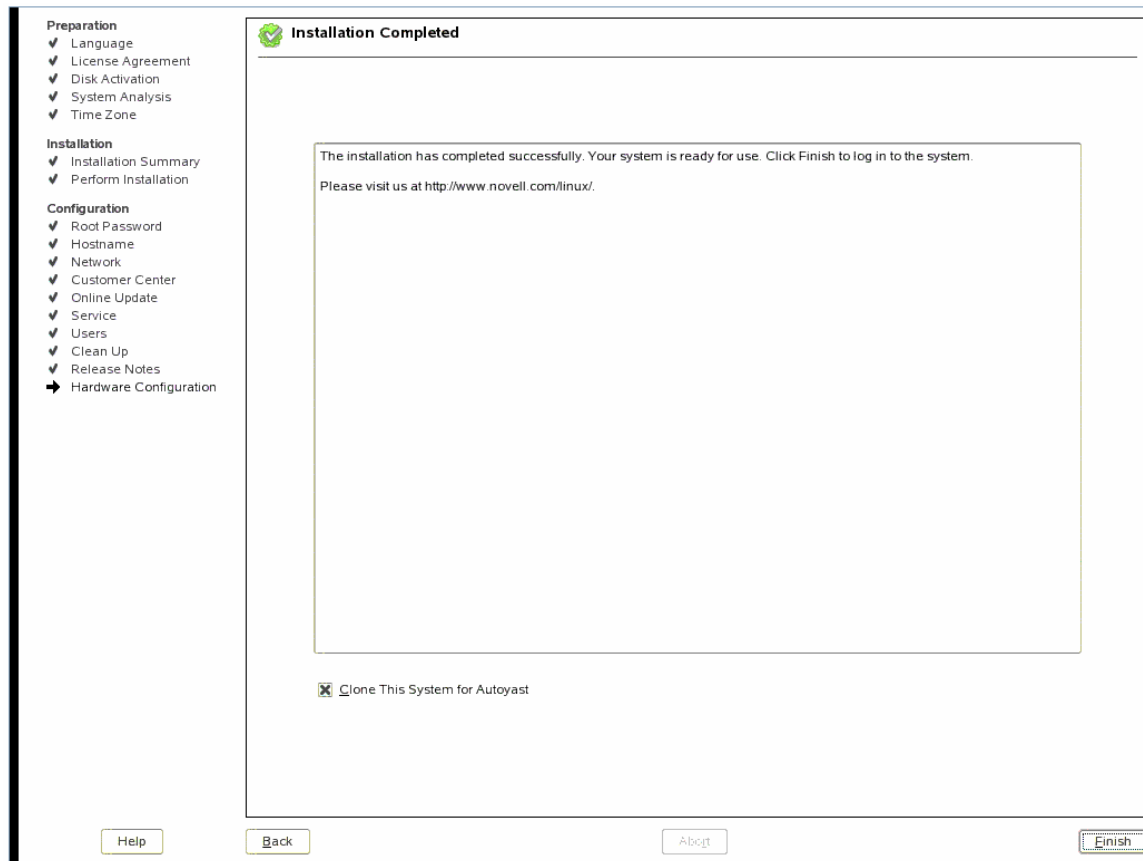
Test the configuration to be sure the video mode is compatible.



Click Next.

1.3.19 Installation Complete

Congratulations! The install is complete.

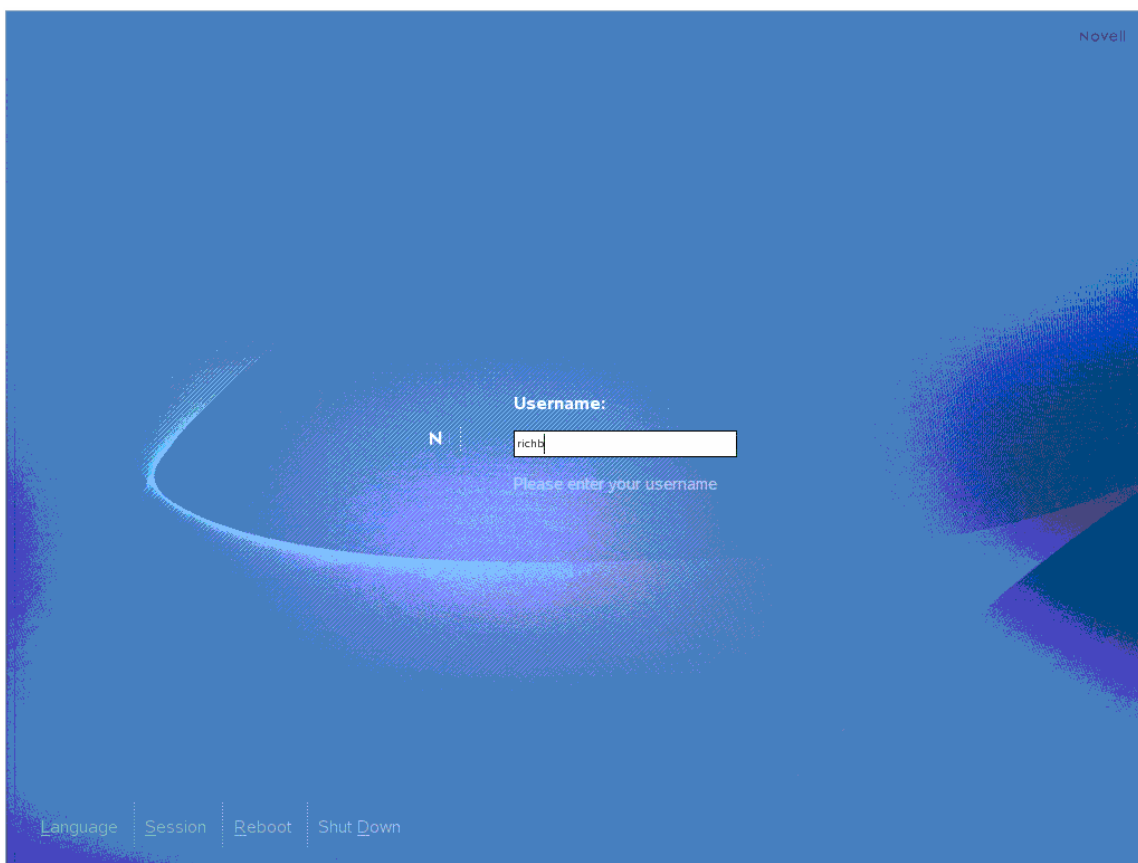


Click Finish.

1.3.20 Login

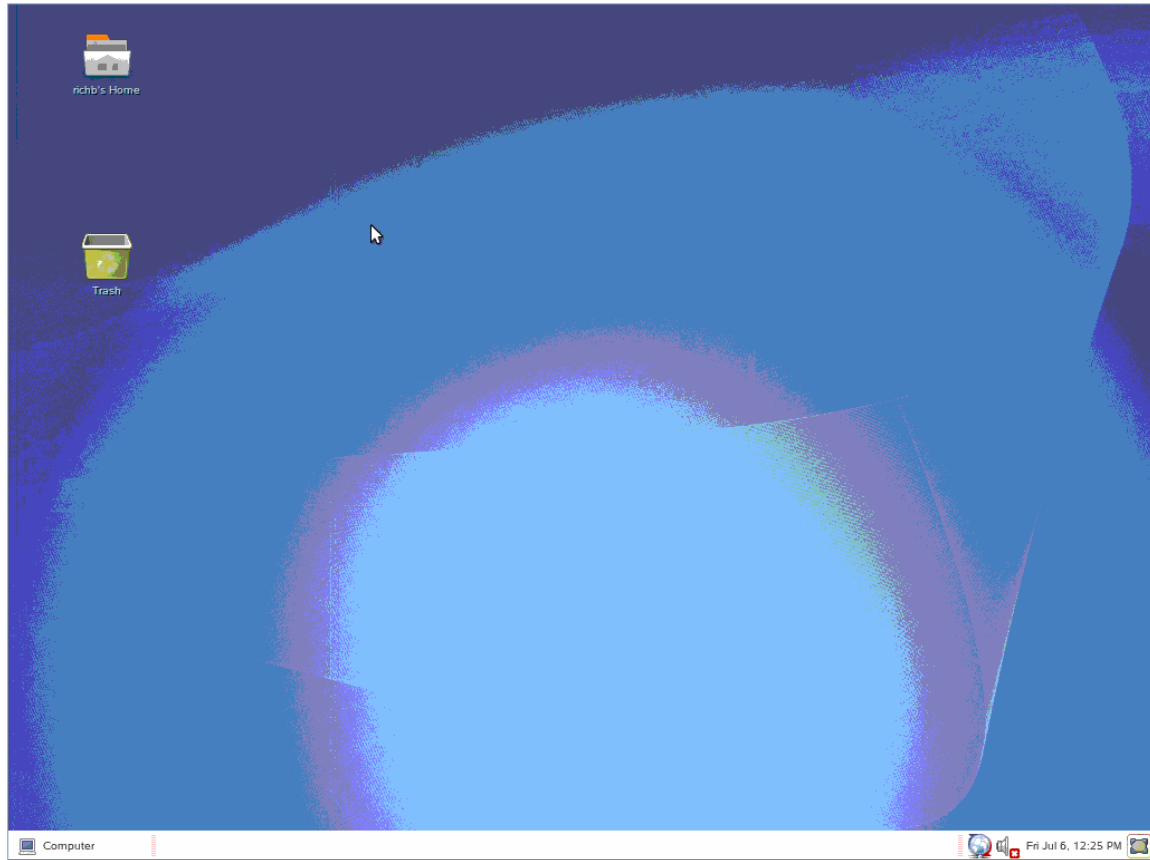
Note if you are using a Remote Console, or any console, and the graphics screen fails to appear, Ctrl-Alt-F1 will enter text mode.

Login.



1.3.21 Desktop

Done!



1.4 Notices

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