

# Agamaを使用したSUSE Linux Enterprise Serverの手動インストール

## 概要

この記事では、Agamaを使用してSUSE Linux Enterprise Serverをインストールする方法について説明します。ここで紹介する情報は、ベアメタルと仮想マシンの両方に製品をインストールする場合に適用されます。

## 目的

この記事を読んで、Agamaを使用してSUSE Linux Enterprise Serverをインストールするプロセスを理解します。

## 所要時間

この記事の理解には15分ほどを要します。

## 目標

Agamaを使用してSUSE Linux Enterprise Serverを手動でインストールする方法を習得します。

## 要件

ベアメタルサーバまたは仮想マシン。デスクトップ環境のない

- サーバインストールの場合、SUSEは最低1 CPU、2GBのメモリ、32GBのストレージ(ルートパーティションのBtrfsスナップショット用ストレージ、スワップ領域、ソフトウェアパッケージ用ストレージを含む)を推奨しています。

インストールする製品の有効な登録コード。製品の登録コードを

- 生成し、SUSE Customer Centerで組織のサブスクリプションを有効化できます。



### 注記: オプションの登録

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## 目次

- 1 Agamaの概要 4
- 2 Agamaを使用したSUSE Linux Enterprise Serverのインストール 4
- 3 詳細情報 17

4 法的事項 18

A GNU Free Documentation License 18

# 1 Agamaの概要

このセクションでは、SUSE Linux Enterprise Server 16.0以降のバージョンのデフォルトインストーラであるAgamaの概要を簡単に説明します。

## 1.1 Agamaとは?

AgamaはSUSEが開発した柔軟で強力なオープンソースのインストーラです。Agamaを使用して、サポートされているSUSE Linux Enterprise Serverのバージョンをさまざまなマシンアーキテクチャに手動または自動でインストールできます。Agamaベースのインストール方法では、さまざまなユースケースやワークロードに合わせて**すぐに使用できる**イメージを直感的なインタフェースで提供します。CockpitやAnsibleと組み合わせることで、SUSE Linux Enterprise ServerにおけるYaSTの代替となります。

# 2 Agamaを使用したSUSE Linux Enterprise Serverのインストール

このセクションでは、AgamaベースのISOイメージファイルを使用してSUSE Linux Enterprise Serverをインストールする方法について説明します。

## 2.1 概要

以下のセクションでは、SUSE Linux Enterprise ServerのAgamaベースの手動インストール手順について説明します。この情報は、ベアメタルと仮想マシンの両方へのインストールに適用されます。

## 2.2 要件

- サポート対象バージョンのSUSE Linux Enterprise Server用のAgamaベースのISOイメージファイル。SUSE Customer Centerからダウンロードし、チェックサムを検証して、整合性を確認できます。



## 注記: 製品で使用可能なイメージ

Agamaベースのインストールイメージは、SUSE Linux Enterprise Server 16.0以降のバージョンで使用できます。

## 2.3 Agamaを使用したSUSE Linux Enterprise Server for ppc64leの手動インストール

Agamaを使用してSUSE Linux Enterprise Serverを手動でインストールするには、次の手順を実行します。

### 手順 1: AGAMAを使用したSUSE LINUX ENTERPRISEの手動インストール

1. ISOイメージをVIOSサーバにコピーします。

```
> scpSLES-Online-16.0-ppc64le-Beta2.install.iso padmin@VIOS_SERVER
```

VIOS\_SERVERはVIOSサーバのホスト名またはIPアドレスに置き換えます。

2. 仮想光学デバイスを作成し、VIOSサーバの仮想デバイスにISOをロードします。

```
(VIOS)$mkvopt -name sles16-offline -file SLES-Online-16.0-ppc64le-Beta2.install.iso  
-ro  
(VIOS)$loadopt -f -release -disk sles16-offline -vtd vcdXY
```

vcdXYを、起動するLPARに接続されている仮想デバイスユニットに置き換えます。

3. 接続された仮想デバイスからシステムを起動します。Select Boot Options (起動オプションの選択) > Select Install/Boot Device (インストール/起動デバイスの選択) > CD/DVD > List All Devices (すべてのデバイスの一覧)を選択し、**ステップ 2**で作成した仮想光学デバイスを選択します。次に、Normal Boot Mode (通常起動モード)を選択し、選択内容を確認します。
4. コンソールにログインし、ルートパスワードとIPアドレスを取得します。
  - a. agama - installerを選択し、**Enter** を押してシステムを起動します。

```
zumbi@shifu: ~  
GNU GRUB version 2.12  
+-----+  
| agama-installer  
| Check Installation Media -- agama-installer  
| local  
| Other options...  
+-----+  
  
Use the ^ and v keys to select which entry is highlighted.  
Press enter to boot the selected OS, 'e' to edit the commands  
before booting or 'c' for a command-line.  
The highlighted entry will be executed automatically in 55s.  
  
109 jostaberry-11 [PowerPC HMC]
```

b. 起動が終了すると、IPアドレスとルートパスワードが表示されます。

```
zumbi@shifu: ~
[ OK ] Finished Permit User Sessions.
[ OK ] Started Agama Installer Service.
Starting Agama's D-Bus bus monitor...
Starting Agama Web Server...
[ OK ] Started Agama's D-Bus bus monitor.
Starting Generate issue file for Agama SSL certificate...
[ OK ] Started Agama Web Server.
[ OK ] Started Agama automatic profile runner.
Starting Postpone login prompt aft...L fingerprint issue is generated...
[ OK ] Finished Generate issue file for Agama SSL certificate
[ OK ] Finished Postpone login prompt aft...SSL fingerprint issue is generated.
[ OK ] Started Getty on tty1.
[ OK ] Started Serial Getty on hvc0.
[ OK ] Reached target Login Prompts.
[ OK ] Reached target Multi-User System.
[ OK ] Reached target Graphical Interface.
Starting X11 session...
Starting Service enabling compressing RAM with zRam...
[ 39.519984][ T4578] zram: Added device: zram0
[ 39.523811][ T4571] zram0: detected capacity change from 0 to 133694080
[ OK ] Created slice User Slice of UID 0.
Starting User Runtime Directory /run/user/0...
[ OK ] Finished User Runtime Directory /run/user/0.
Starting User Manager for UID 0...
[ 39.609973][ T4588] Adding 66846976k swap on /dev/zram0. Priority:100 extents:1 across:66846976k SS
[ OK ] Finished Service enabling compressing RAM with zRam.
[ OK ] Started User Manager for UID 0.
[ OK ] Started Session 1 of User root.
[ OK ] Started X11 session.

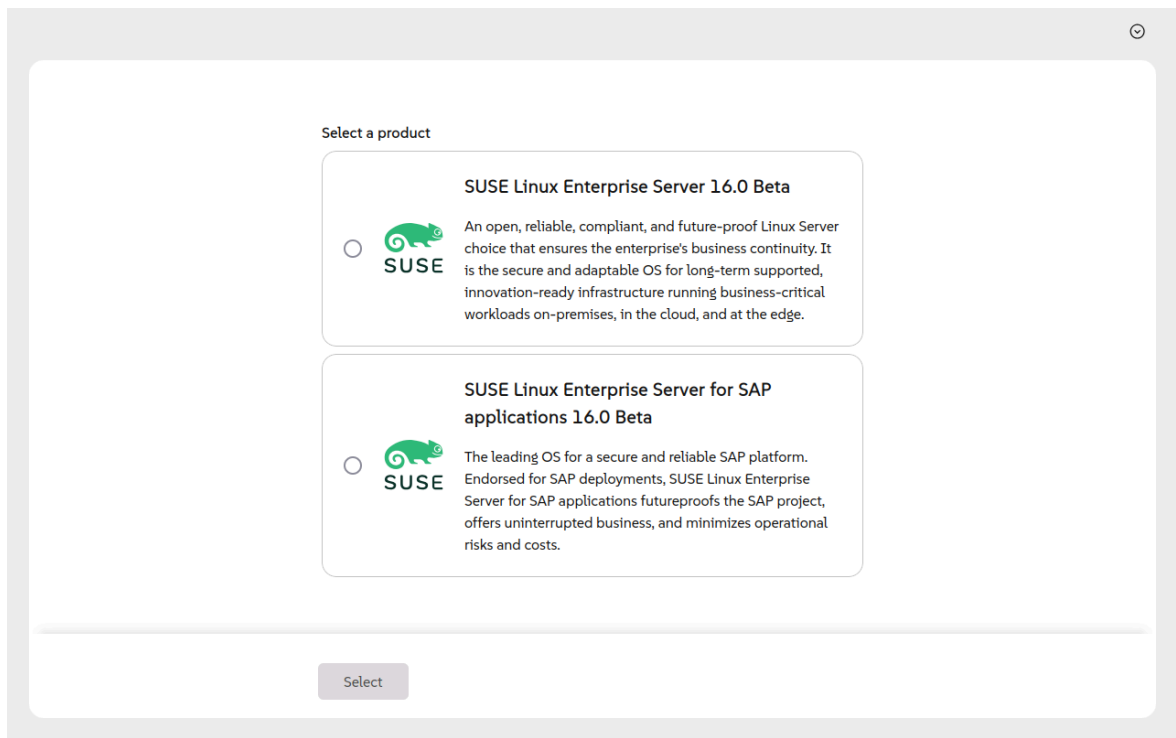
Welcome to Agama installer version 11+105! (hvc0)

SSH host key fingerprints:
SHA256:nUjAtYbVkiw6E9yC+gRKNHA0bUnueLZJ8iI3Ghmp8k (ECDSA)
SHA256:qGExR9jjnnCMh7WMOEV8dujDu26HiDID2Mk/5b0cL4g (ED25519)
SHA256:zoEcwrsfaSgxHwhIiK0mlm664JTW3kMT0iWKZkrb0k (RSA)

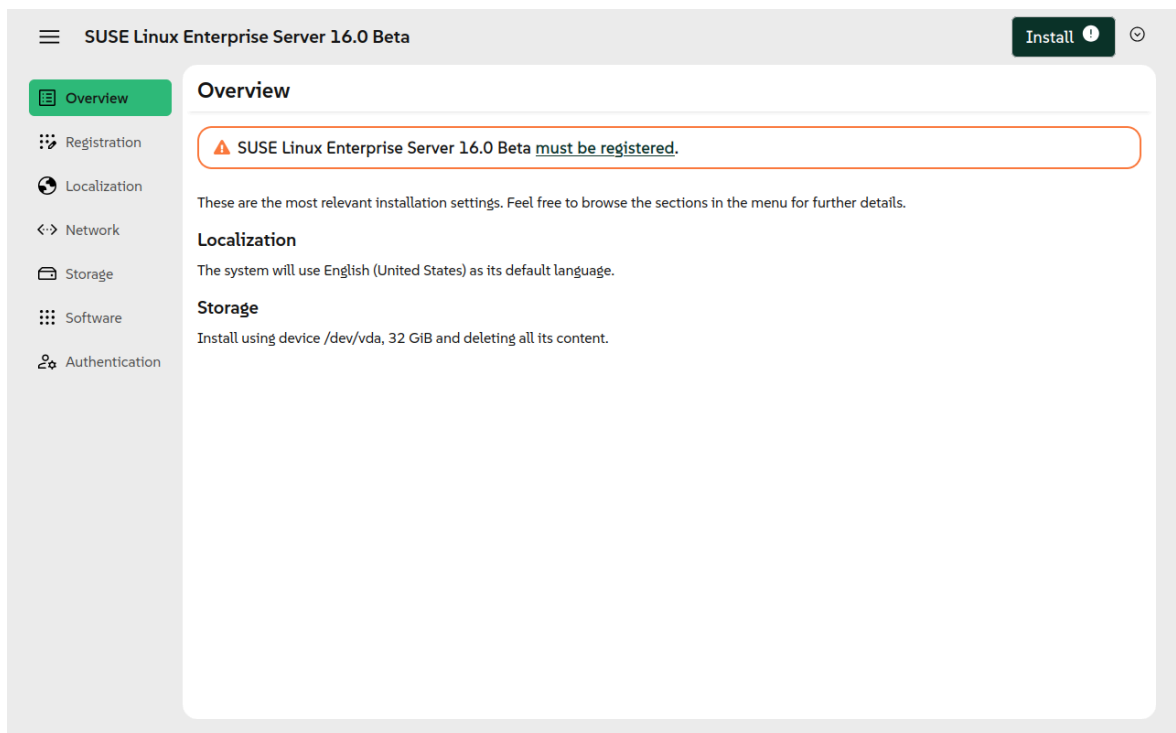
Connect to the Agama installer using these URLs:
https://agama.local
https://10.161.27.65
https://192.168.0.42

Password for root user: eMyYKMHr
jostaberry-11 login:
109 jostaberry-11 [PowerPC HMC]
```

5. コンソールで所定のURLを指すWebブラウザを開きます。rootパスワードを入力し、インストールを進めます。
6. インストール対象としてSUSE Linux Enterprise Server 16.0を選択し、ライセンスに同意して続行します。



7. 最も関連性の高いインストール設定の概要が表示されます。左側のメニューからカテゴリを選択して設定を調整するか、直接インストールを進めてください。





## ヒント: インストーラの言語とキーボード

右上隅の矢印メニューをクリックし、インストーラのオプションを選択してインストーラで使用する言語とキーボードレイアウトを変更します。言語はローカルインストールでのみ変更できます。リモートインストールにWebブラウザを使用している場合は、ブラウザの設定で希望するコンテンツ言語を設定し、インストーラを再読み込みします。

- 製品を登録します。登録コードを入力し、オプションで有効な電子メールアドレスを入力します。

SUSE Linux Enterprise Server 16.0 Beta

Install

Overview

Registration

Localization

Network

Storage

Software

Authentication

### Registration

⚠ SUSE Linux Enterprise Server 16.0 Beta must be registered.

Enter a registration code and optionally a valid email address for registering the product.

Registration code

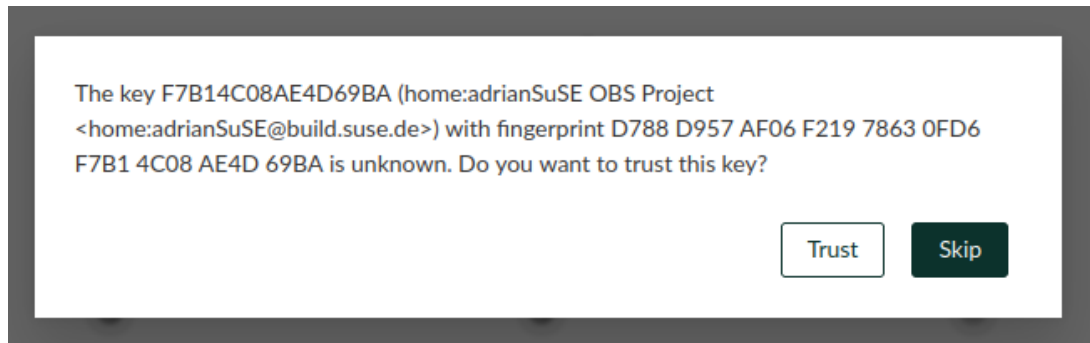
Email (optional)

Register



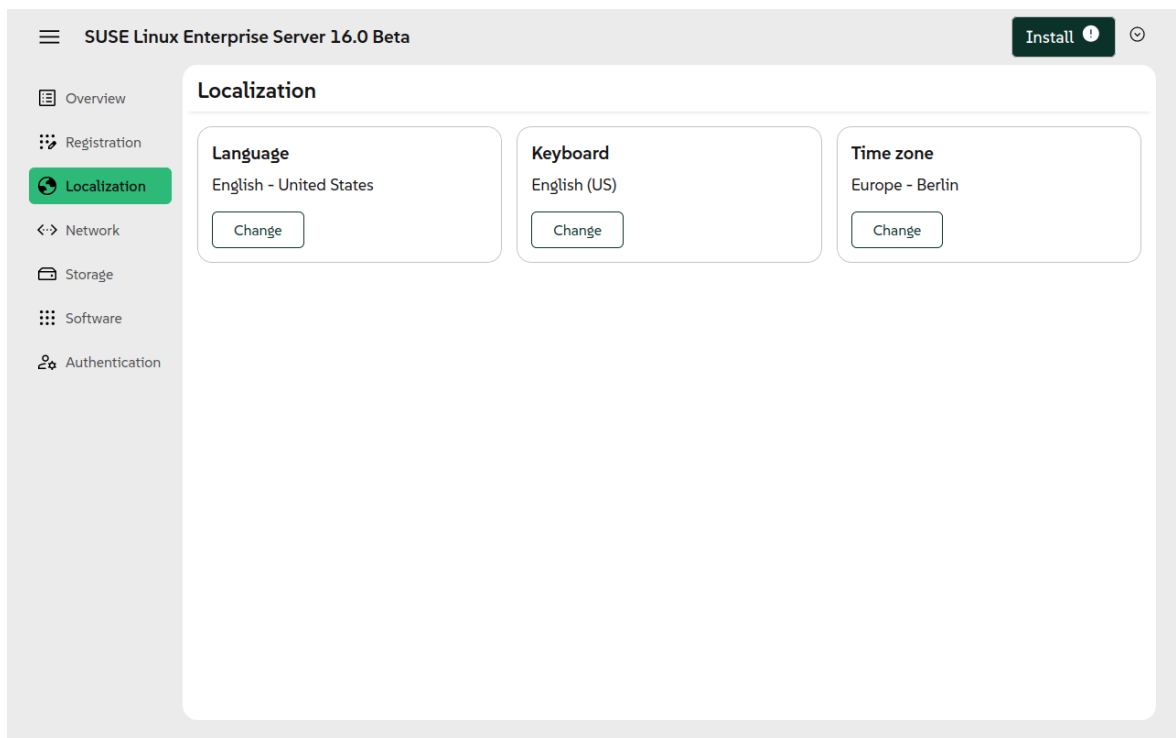
## 注記: 開発者のキーで署名されたイメージのオプションの登録

開発者のキーで署名されたイメージでは、インストール前に登録をスキップできる場合があります。製品のイメージが登録なしのインストールをサポートしている場合、次のようなポップアップが表示されることがあります。

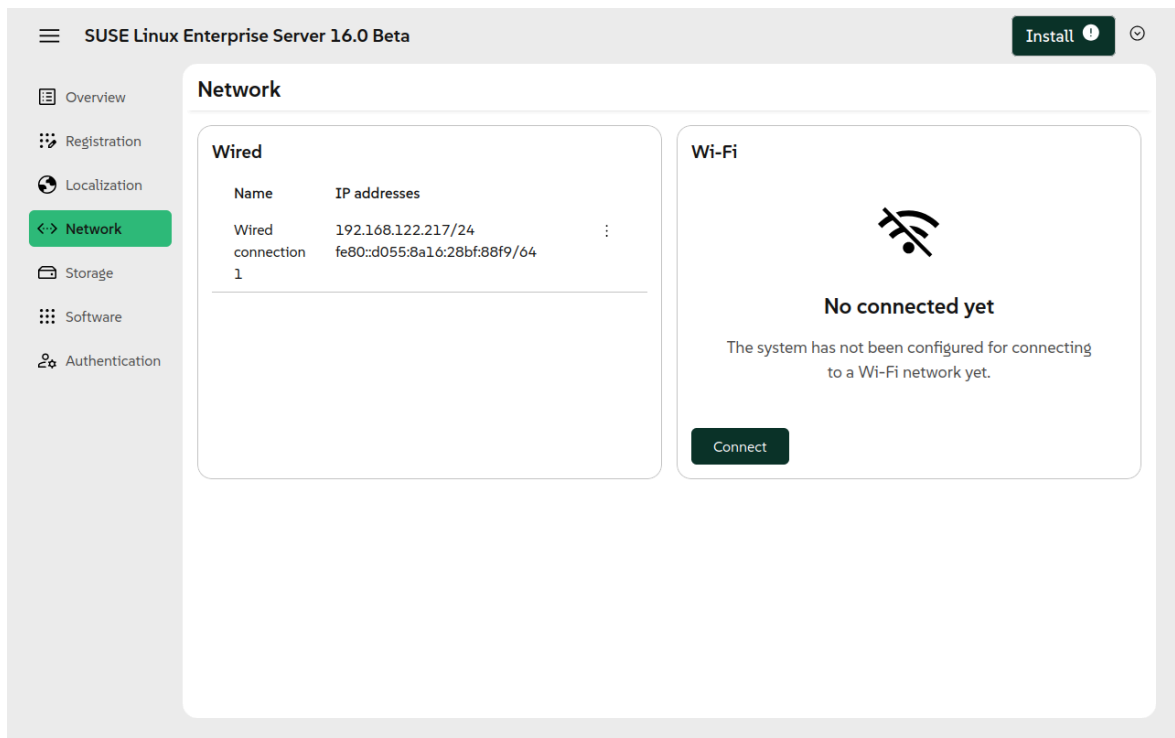


登録なしでインストールするには、ポップアップで信頼するを選択します。

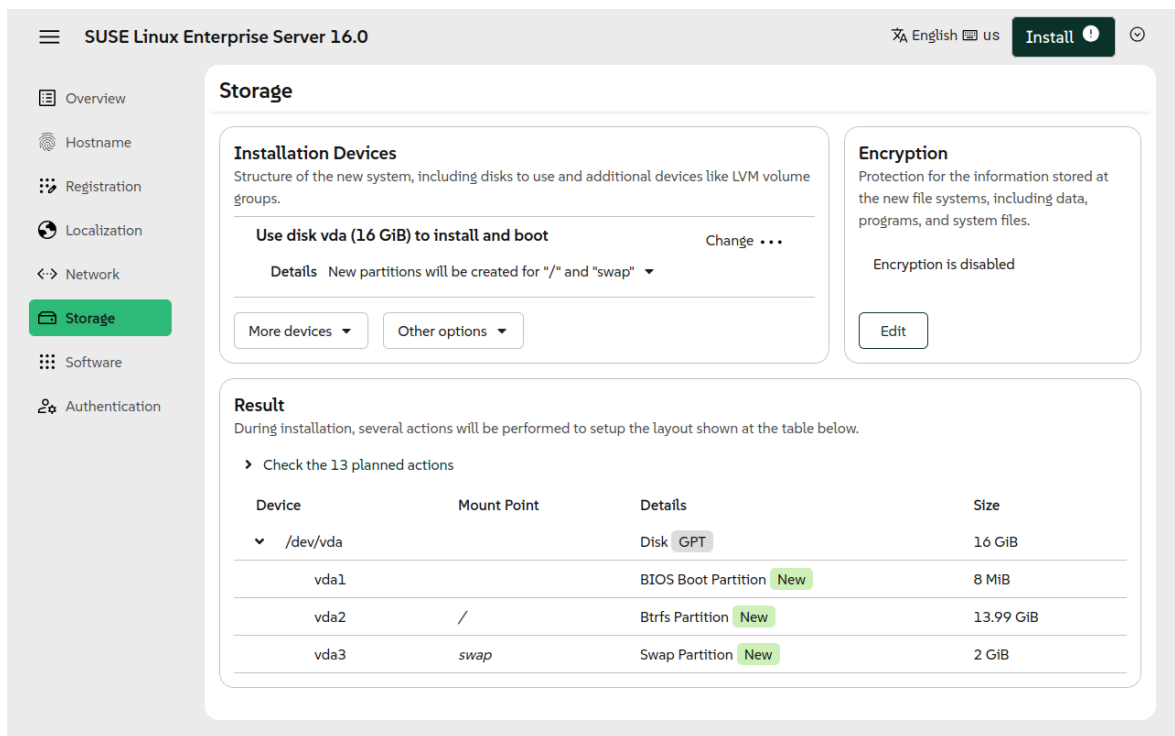
9. (オプション) 言語、キーボードレイアウト、タイムゾーンなどのローカライズ設定を調整します。



10. (オプション) ネットワークを設定します。既存のネットワーク接続を編集するには、3つのドットをクリックします。



## 11. インストールするストレージデバイスを選択します。



現在、シングルディスクまたはLVMへのインストールがサポートされています。ディスクを変更するか、LVMを使用するには、インストール先のデバイスセクションのデバイス名さらなるオプションボタンをクリックします。

iSCSIディスクを検出するには、iSCSIイニシエータを選択し、iSCSIターゲットの検出をクリックします。

デフォルトでは、ファイルシステムは選択されたデバイスの新しいパーティションとして割り当てられます。この動作は、インストール先のデバイスセクションの全ての内容を削除するドロップダウンリストで変更できます。次のスペースポリシーを使用できません。

### スペースポリシー

#### 現在のコンテンツの削除

すべてのパーティションが削除され、ディスク上のデータがすべて失われます。

#### 既存パーティションの縮小

データは保持されますが、現在のパーティションは必要に応じて縮小されます。

#### 使用可能スペースの使用

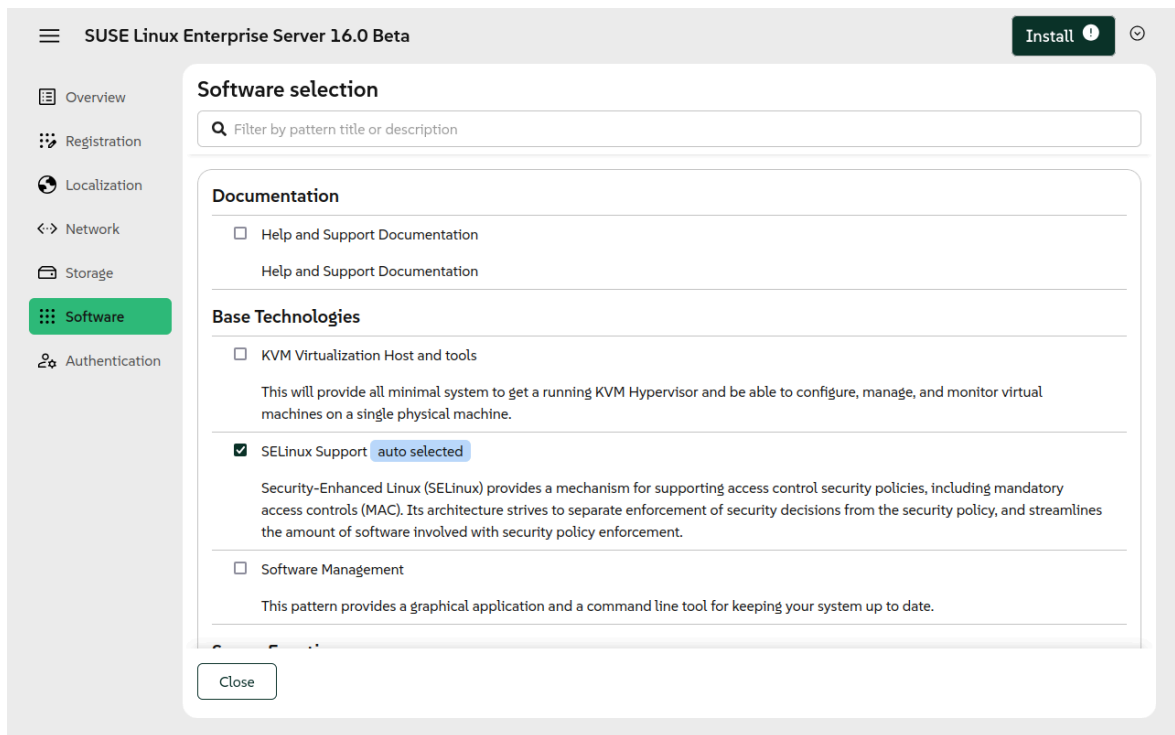
データは保持されます。どのパーティションにも割り当てられていないスペースのみが使用されます。

#### カスタム

各パーティションの処理を選択します。

個々のパーティションを編集するには、>をクリックしてパーティションとファイルシステムセクションを展開し、Btrfsスナップショット、ブートオプションを設定し、フルディスク暗号化(FDE)を有効にすることができます。

12. (オプション) KVMハイパーバイザーやCockpitシステム管理サービスなど、インストールするソフトウェアを追加します。



### 13. 認証を設定します。

#### ! 重要: SSHrootアクセス不可

rootのSSHアクセスはデフォルトで無効になっています。そのため、システムユーザを作成することを強くお勧めします。最初のシステムユーザにはsudo特権が自動的に付与され、Cockpitへのアクセスにも使用できます。

- a. 非rootユーザを作成します。今すぐユーザを設定するをクリックし、ユーザ名とパスワードなどの詳細を入力します。

The screenshot shows the 'Create user' form in the SUSE Linux Enterprise Server 16.0 Beta installation interface. The form is titled 'Create user' and is located in the 'Authentication' section of the left-hand navigation menu. The form contains the following fields and controls:

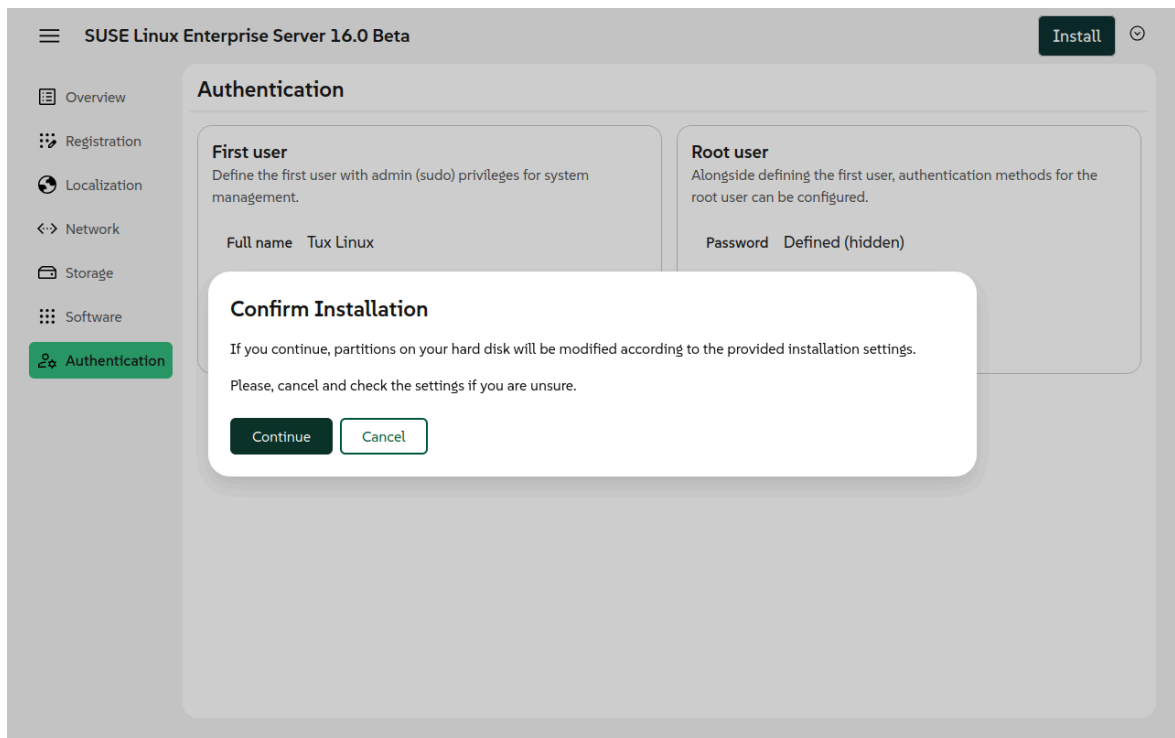
- Full name:** A text input field.
- Username:** A text input field.
- Password:** A text input field with a toggle icon to the right.
- Password confirmation:** A text input field with a toggle icon to the right.
- Buttons:** 'Accept' and 'Cancel' buttons at the bottom of the form.

- b. rootの認証方法を設定します。安全なパスワード、SSH公開鍵、またはその両方を使用できます。

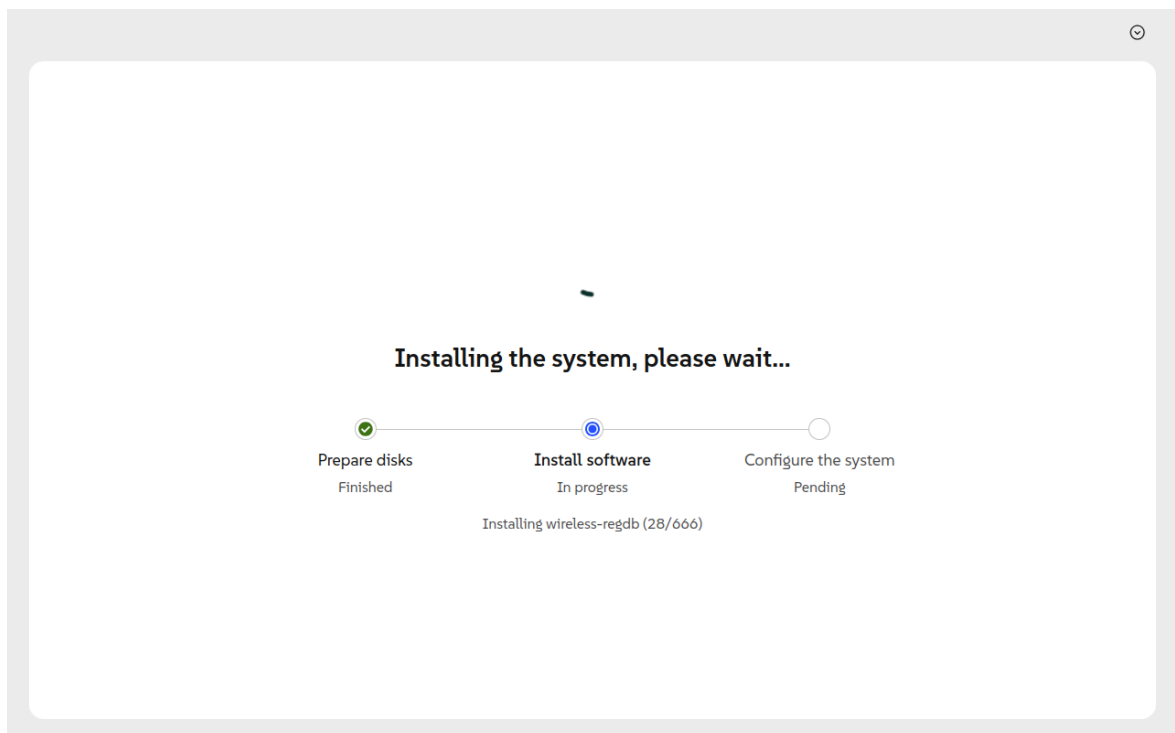
The screenshot shows the 'Root authentication methods' form in the SUSE Linux Enterprise Server 16.0 Beta installation interface. The form is titled 'Root authentication methods' and is located in the 'Authentication' section of the left-hand navigation menu. The form contains the following fields and controls:

- Use password:** A radio button that is currently selected.
- Use public SSH Key:** A radio button that is currently unselected.
- Buttons:** 'Accept' and 'Cancel' buttons at the bottom of the form.

14. インストールをクリックして確認し、インストールを開始します。



15. システムのインストールが完了するまで待ちます。インストールが完了するまで30分ほどかかります。

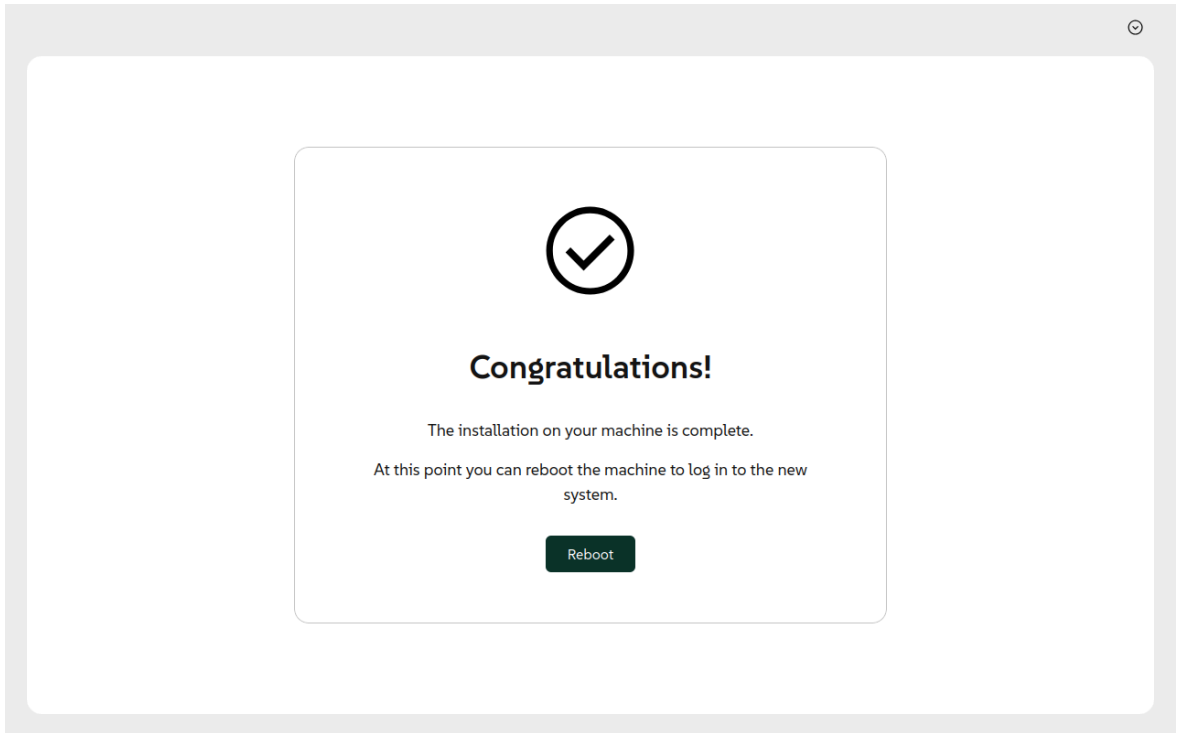




## ヒント: インストールログ

ウィンドウ右上隅にある矢印メニューを使用して、ログとシステムメッセージを表示できます。

16. インストールが完了したら、再起動を選択します。



## 2.4 まとめ

設定チェック、製品登録、インストール、再起動が正常に完了したら、ログインしてシステムを利用できることを確認します。

### 手順 2: インストール後のシステムの確認

1. システムにrootとしてログインします。

```
Welcome to SUSE Linux Enterprise Server 16.0 Alpha3 (x86_64) - Kernel 6.4.0-sifo.1.8-default (tty1).

SSH host key: SHA256:bUpdqEfAYuo1gbMY0s70qIdMEHHC/eKikm7cL3kwCMA (RSA)
SSH host key: SHA256:L5PQdXeaN9edpLw0z29LWxCNKe26EWWtNFopxMgn3U (ECDSA)
SSH host key: SHA256:CKA9BVCHu5,jKhECTUSyBGQRyOQQMRegIfUIOR/nDsXY (ED25519)
enp1s0: 192.168.122.40 fe80::a486:c31a:e64:6c0c

Hint: Num Lock on

localhost login: root
Password: _
```

2. システムが期待どおりに動作していることを確認するには、いくつかの基本的なコマンドを実行します。

```
Welcome to SUSE Linux Enterprise Server 16.0 Alpha3 (x86_64) - Kernel 6.4.0-sifo.1.8-default (tty1).

SSH host key: SHA256:bUpdqEfAYuo1gbMY0s70qIdMEHHC/eKikm7cL3kwCMA (RSA)
SSH host key: SHA256:L5PQdXeaN9edpLw0z29LWxCNKe26EWWtNFopxMgn3U (ECDSA)
SSH host key: SHA256:CKA9BVCHu5,jKhECTUSyBGQRyOQQMRegIfUIOR/nDsXY (ED25519)
enp1s0: 192.168.122.40 fe80::a486:c31a:e64:6c0c

Hint: Num Lock on

localhost login: root
Password:
Have a lot of fun...
localhost:~ # whoami
root
localhost:~ # pwd
/root
localhost:~ #
```

### 3 詳細情報

関連トピックの詳細については、次のリソースを参照してください。

- Agamaオープンソースプロジェクトのドキュメント:<https://agama-project.github.io/docs>
- POWERにLinuxをインストールするためのIBMクイックスタートガイド: <https://www.ibm.com/docs/en/linux-on-systems?topic=servers-quick-start-guides-installing-linux>
- 仮想DVD (vDVD)を使用してPowerVM LPARにLinuxをインストールするためのIBMの手順:<https://www.ibm.com/docs/en/linux-on-systems?topic=aim-installing-linux-powervm-lpar-by-using-virtual-dvd-vdvd>

## 4 法的事項

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