

# Déploiement de SUSE Linux Enterprise Server à l'aide du démarrage PXE réseau

## CONTENU

SUSE Linux Enterprise Server fournit des images qui peuvent être déployées à distance à l'aide du démarrage PXE du périphérique cible.

## MOTIF

Vous souhaitez déployer SUSE Linux Enterprise Server à distance.


## EFFORT

La lecture de l'article prend environ 15 minutes.

## OBJECTIF

Disposer d'une instance de SUSE Linux Enterprise Server correctement installée et opérationnelle.

## CONDITIONS REQUISES

Un serveur de démarrage PSE correctement configuré. Pour plus d'informations, reportez-vous au document relatif à [l'installation du serveur PXE \(https://susedoc.github.io/doc-modular/main/html/SLE-PXE-server/\)](https://susedoc.github.io/doc-modular/main/html/SLE-PXE-server/) .

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# 1 Introduction à l'installation PXE de SUSE Linux Enterprise Server

SUSE Linux Enterprise Server peut être installé par le biais d'un environnement PXE (Preboot Execution Environment). Le matériel client a besoin de prendre en charge le démarrage via PXE. Le réseau doit être doté d'un serveur DHCP et d'un serveur TFTP fournissant les données requises aux clients.

La procédure de déploiement peut se résumer aux étapes suivantes :

1. Assurez-vous que le serveur DHCP est correctement configuré.
2. Préparez le serveur TFTP ou HTTP en ajoutant l'image d'installation et en configurant les paramètres de démarrage. Pour plus de détails, reportez-vous aux instructions relatives à la [préparation des fichiers d'installation \(https://susedoc.github.io/doc-modular/main/html/SLE-PXE-server/index.html#sles-pxe-server-prepare-installer\)](https://susedoc.github.io/doc-modular/main/html/SLE-PXE-server/index.html#sles-pxe-server-prepare-installer).
3. Sur la machine cible, sélectionnez le démarrage PXE et lancez la machine. Pour plus d'informations, reportez-vous à la [Section 2.1, « Démarrage de la machine »](#).

## 2 Déploiement de SLES à distance

Le processus de déploiement se déroule en deux phases. La première phase consiste à démarrer la machine et à charger le kernel Linux et l'unité RAM initiale (initrd). La deuxième phase est l'installation proprement dite à l'aide d'Agama. Les détails sont fournis dans les sections suivantes.

### 2.1 Démarrage de la machine

La procédure suivante décrit comment démarrer la machine cliente pour lancer le déploiement à distance de SLES à l'aide du client PXE.

1. Allumez la machine cible ou créez une machine virtuelle. Veillez à utiliser un réseau ponté.
2. Accédez au menu de démarrage de l'UEFI ou du BIOS hérité et sélectionnez le démarrage à l'aide de PXE ou HTTP. Poursuivez pour lancer la machine.

3. La machine doit démarrer le déploiement. Le kernel Linux et `initrd` sont téléchargés à partir du serveur de démarrage PXE. Le chargeur de démarrage est lancé.
4. Dans le menu GRUB 2, sélectionnez la cible d'installation. Vous pouvez transmettre les paramètres de démarrage du kernel Linux si nécessaire.

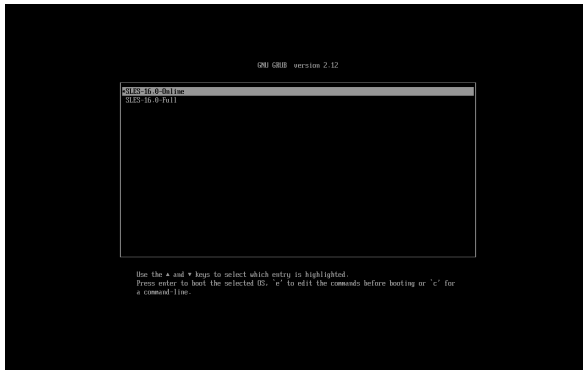


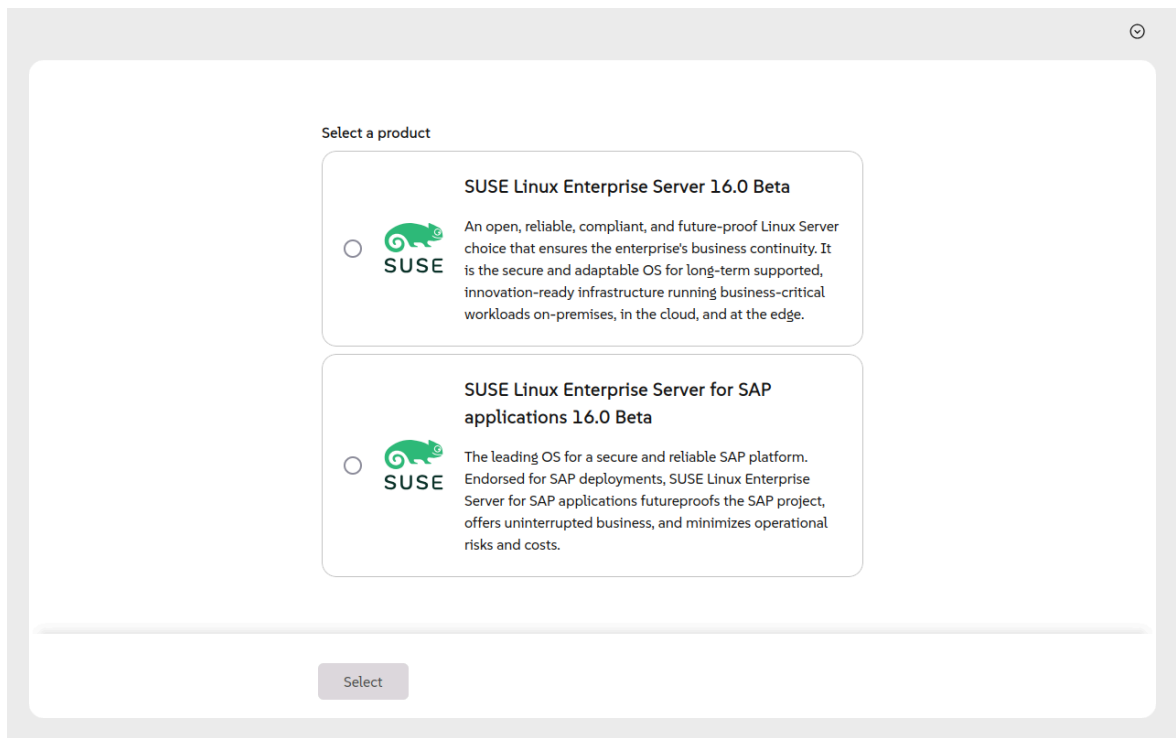
FIGURE 1 : SÉLECTION DE LA CIBLE D'INSTALLATION DANS LE MENU DE DÉMARRAGE PXE

5. `initrd` configure le réseau et démarre le déploiement de SUSE Linux Enterprise Server à l'aide d'Agama.

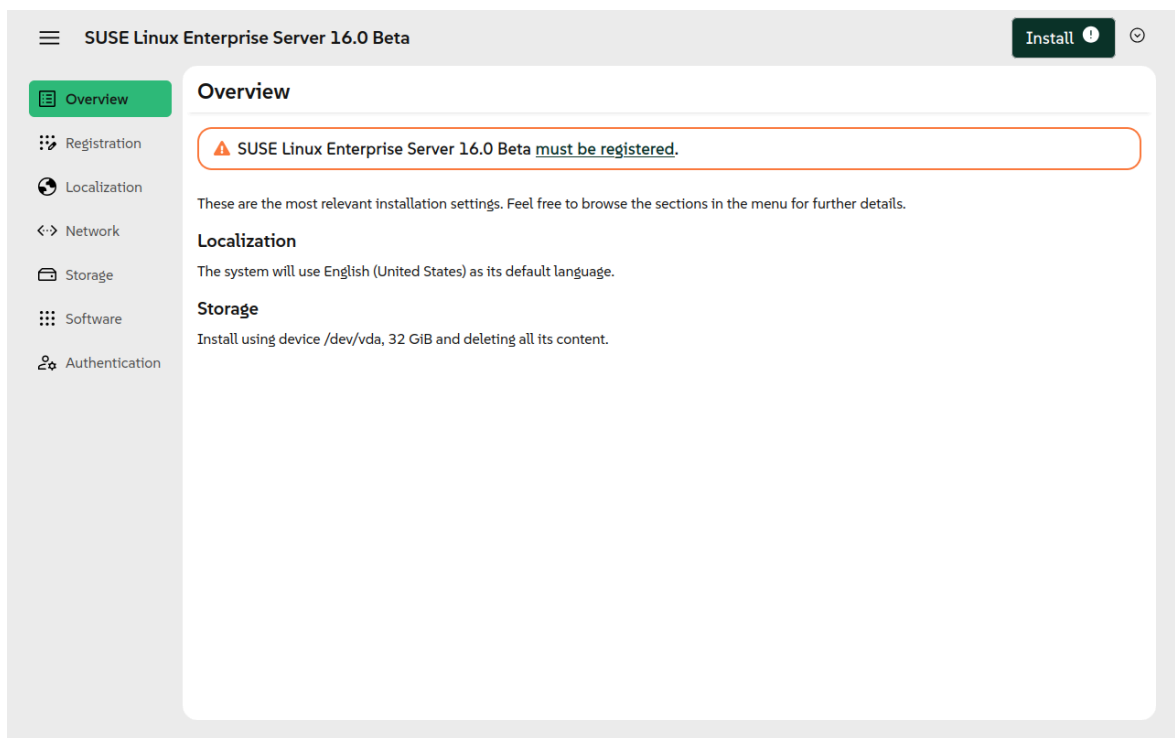
## 2.2 Installation de SLES à l'aide d'Agama

La procédure suivante décrit étape par étape l'installation manuelle de SLES à l'aide d'Agama à partir du serveur distant.

1. Sélectionnez SUSE Linux Enterprise Server 16.0 pour l'installation et acceptez la licence pour pouvoir continuer.



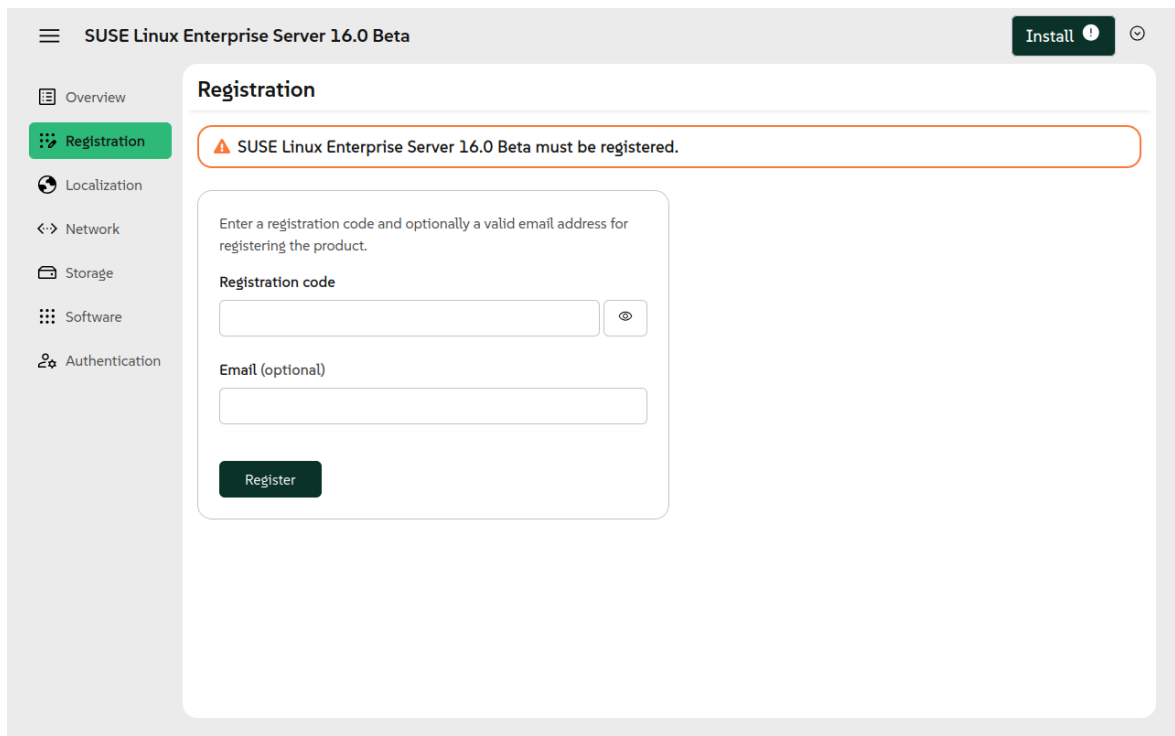
2. L'aperçu des paramètres d'installation les plus pertinents est affiché. Ajustez les paramètres en sélectionnant la catégorie dans le menu de gauche ou procédez directement à l'installation.



### Astuce : langue du programme d'installation et clavier

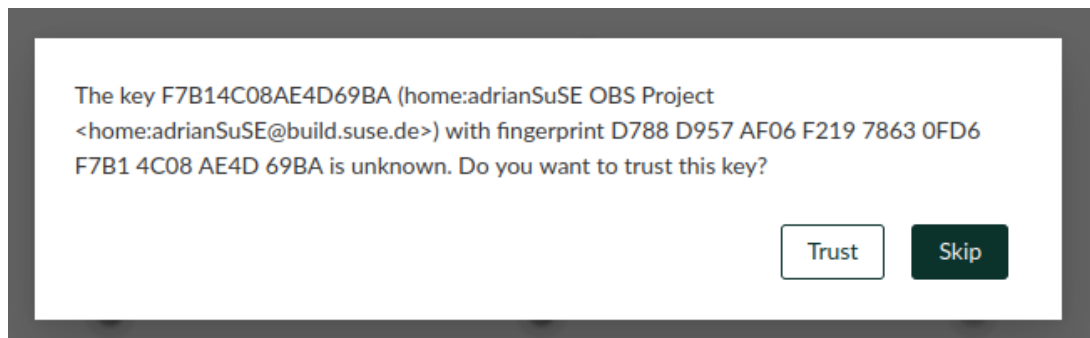
Cliquez sur le menu déroulant dans le coin supérieur droit et sélectionnez *Options de l'installateur* pour modifier la langue et la disposition du clavier utilisées par le programme d'installation. La langue ne peut être modifiée que sur les installations locales. Si vous utilisez un navigateur Web pour une installation à distance, configurez la langue de contenu préférée dans les paramètres du navigateur et rechargez le programme d'installation.

3. Enregistrez votre produit. Entrez un code d'enregistrement et éventuellement une adresse électronique valide.



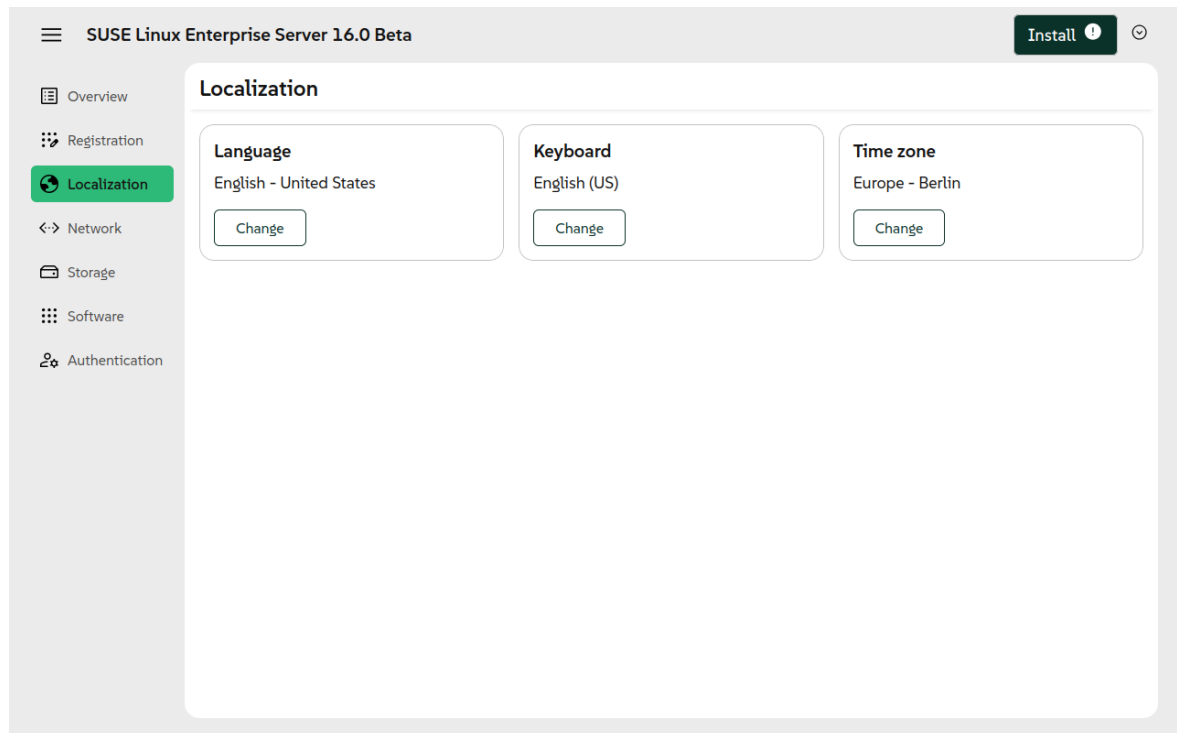
## Remarque : enregistrement facultatif des images signées avec la clé du développeur

Les images signées avec la clé du développeur peuvent vous permettre d'ignorer l'enregistrement avant l'installation. Si l'image de votre produit prend en charge l'installation sans enregistrement, une fenêtre contextuelle similaire à la suivante pourrait s'afficher :

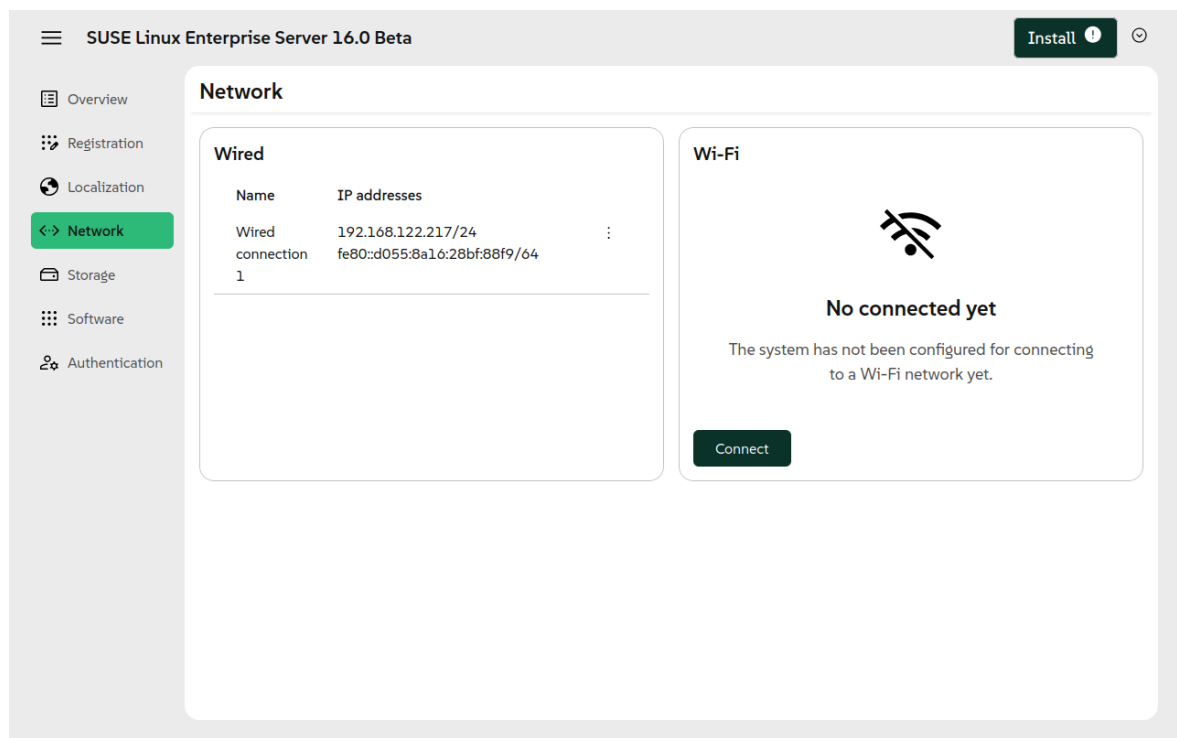


Pour effectuer l'installation sans enregistrement, sélectionnez *Approuver* dans la fenêtre contextuelle.

4. *(Facultatif)* Ajustez vos paramètres de localisation tels que la langue, la disposition du clavier et le fuseau horaire.



5. *(Facultatif)* Configurez vos paramètres réseau. Pour modifier une connexion réseau existante, cliquez sur le menu ellipse.



## 6. Sélectionnez un périphérique de stockage pour l'installation.

Actuellement, les installations sur disques simples ou LVM sont prises en charge. Pour changer de disque ou utiliser LVM, cliquez sur le bouton *Plus d'options* pour le nom du périphérique dans la section *Périphériques d'installation*.

Pour détecter un disque iSCSI, sélectionnez l'initiateur iSCSI, puis cliquez sur *Découvrir les cibles iSCSI*.

Par défaut, les systèmes de fichiers seront alloués en tant que nouvelles partitions sur le périphérique sélectionné. Vous pouvez modifier ce comportement dans la liste déroulante intitulée *Tout le contenu sera supprimé* dans la section *Périphériques d'installation*. Les stratégies d'espace suivantes sont disponibles :

### STRATÉGIES D'ESPACE

#### Supprimer le contenu actuel

Toutes les partitions seront supprimées et toutes les données sur les disques seront perdues.

#### Réduire les partitions existantes

Les données sont conservées, mais les partitions actuelles seront réduites selon les besoins.

## Utiliser l'espace disponible

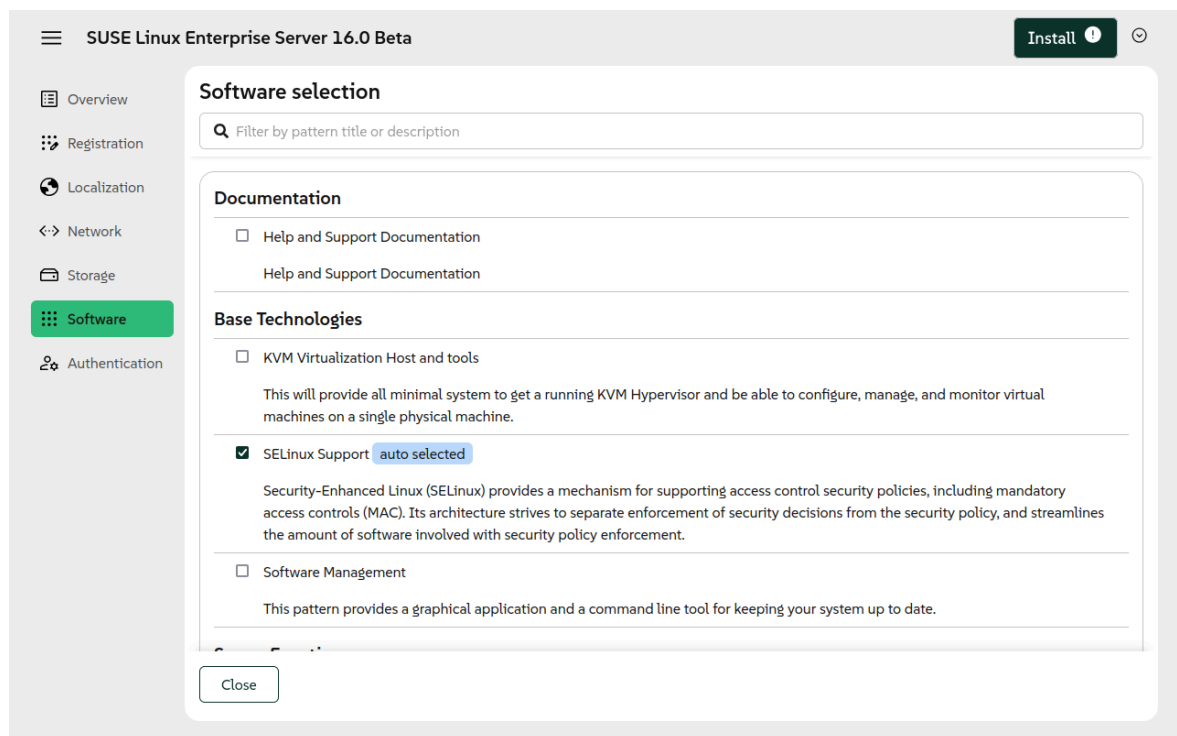
Les données sont conservées. Seul l'espace n'étant assigné à aucune partition sera utilisé.

## Personnalisé

Sélectionnez l'action à effectuer pour chaque partition.

Pour modifier des partitions individuelles, développez la section *Partitions et systèmes de fichiers* en cliquant sur le symbole >. Éventuellement, vous pouvez également configurer les instantanés Btrfs et les options de démarrage, et activer le chiffrement intégral du disque (FDE).

7. (Facultatif) Ajoutez des logiciels supplémentaires à installer, tels que l'hyperviseur KVM ou le service de gestion du système Cockpit.

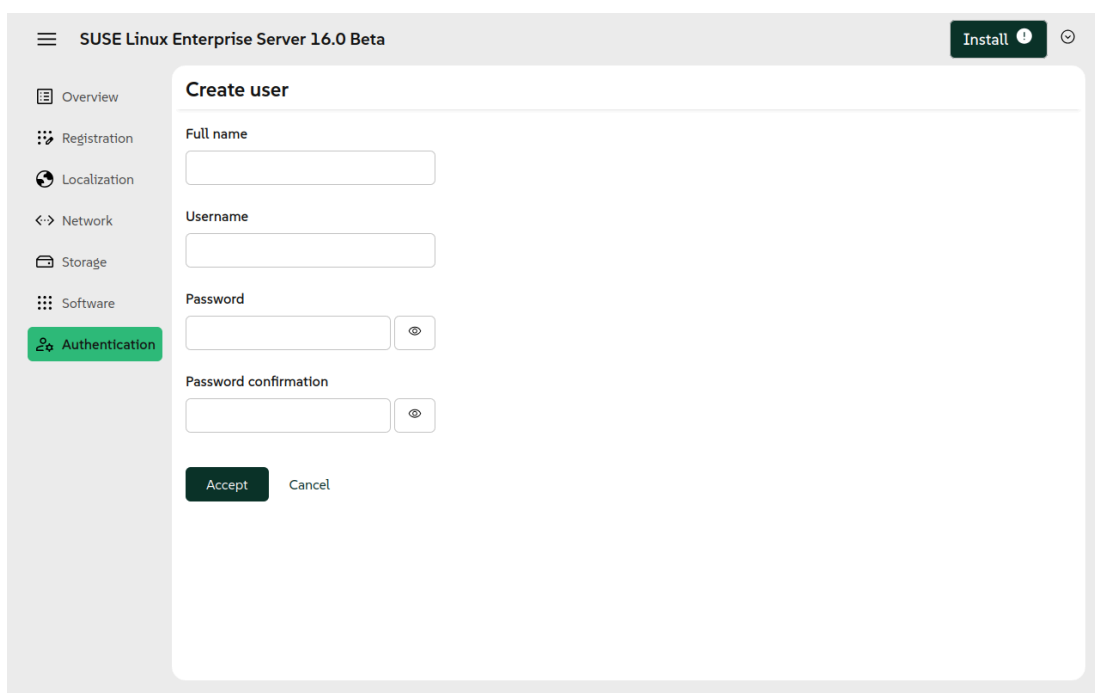


8. Configurez les paramètres d'authentification.

## ! Important : aucun accès root à SSH

L'accès à SSH par l'utilisateur root est désactivé par défaut. Par conséquent, il est vivement recommandé de créer un utilisateur système. Le premier utilisateur du système se voit accorder les privilèges sudo automatiquement et peut également être utilisé pour accéder à Cockpit.

- a. Créez un utilisateur non-root. Cliquez sur *Définir un utilisateur maintenant* et indiquez des informations détaillées telles que son nom d'utilisateur et son mot de passe.

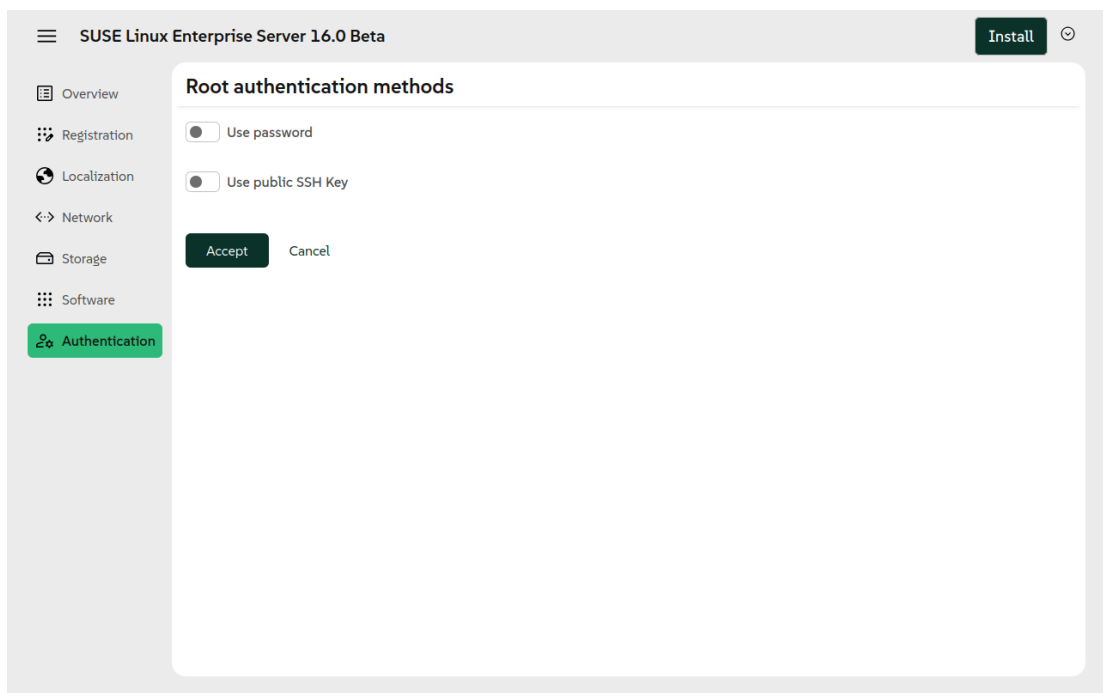


The screenshot shows the SUSE Linux Enterprise Server 16.0 Beta web interface. The main content area is titled "Create user" and contains the following fields:

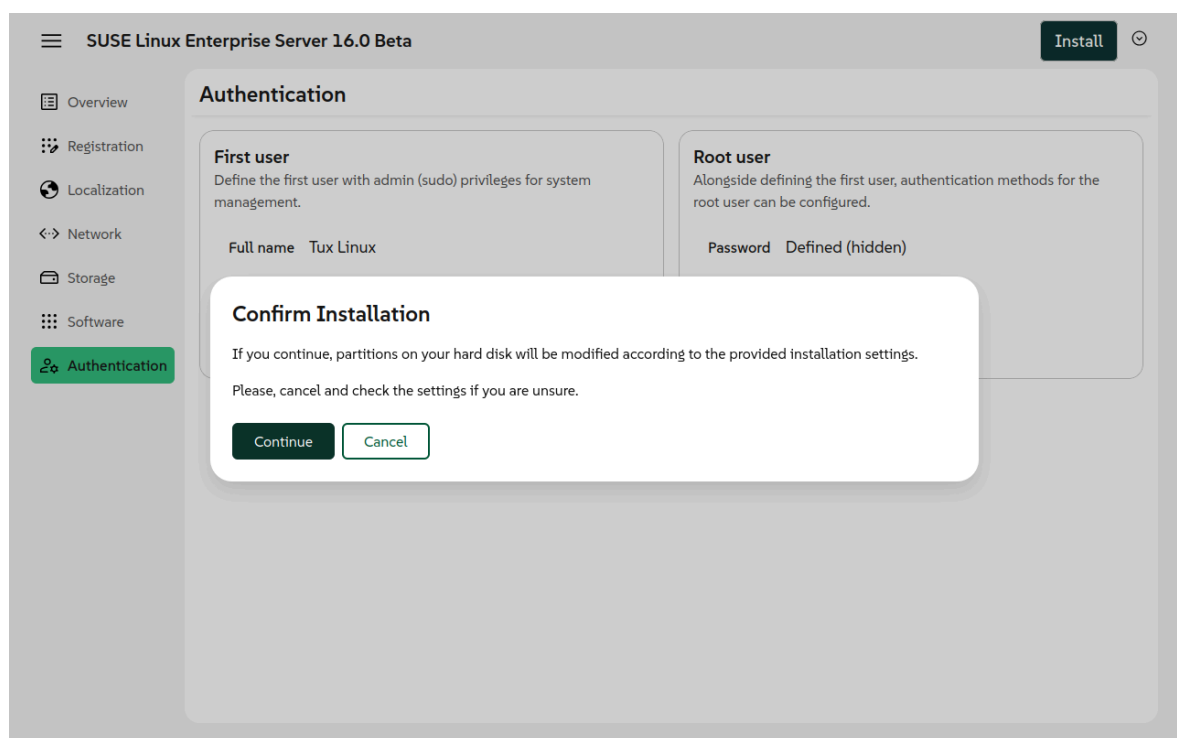
- Full name:
- Username:
- Password:  (with a toggle icon)
- Password confirmation:  (with a toggle icon)

At the bottom of the form, there are two buttons: "Accept" and "Cancel". The left sidebar contains a navigation menu with the following items: Overview, Registration, Localization, Network, Storage, Software, and Authentication (highlighted in green). The top right corner of the interface has an "Install" button with a notification icon.

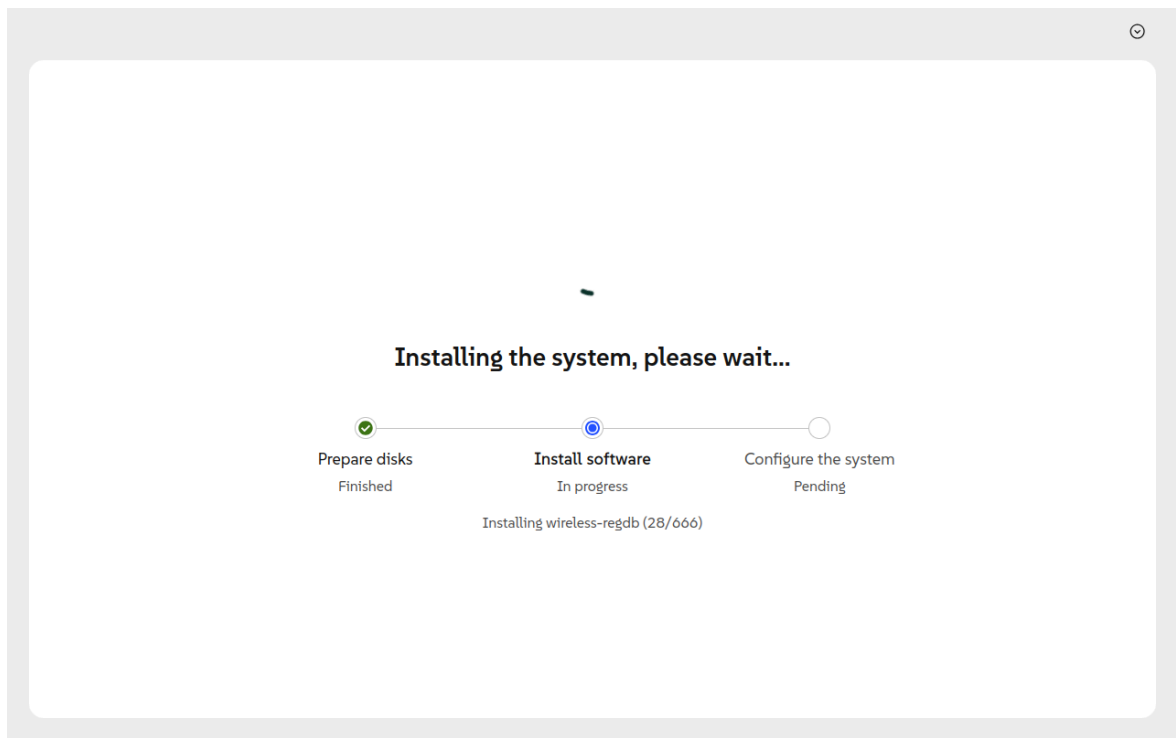
- b. Configurez les méthodes d'authentification pour l'utilisateur root. Vous pouvez utiliser un mot de passe sécurisé, une clé publique SSH ou les deux.



9. Cliquez sur *Installer*, puis confirmez pour démarrer l'installation.



10. Attendez la fin de l'installation du système. L'installation prend environ 30 minutes.



### Astuce : journaux d'installation

Vous pouvez utiliser le menu déroulant dans le coin supérieur droit de la fenêtre pour afficher les journaux et les messages système.

## 3 Mentions légales

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```
with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.