

# TrueNAS Scale

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création d'un serveur TrueNAS Scale



# Introduction

TrueNAS Scale est une distribution de système d'exploitation de stockage réseaux (NAS) basées sur Debian Linux



## Characteristiques Principales

01

### Fonctionnalités

Stockage avancé | Virtualisation (KVM) | Conteneurs (Docker)

02

### Utilisation

- Une solution de stockage puissante & polyvalente
- Une grande flexibilité & des fonctionnalités avancées

03

### Public Cible

Utilisateurs avancés | Entreprises | Centres de données

# Installation & Configuration

# Etapes

01

Prérequis  
Materiel - VM

- Processeur : 2 coeurs
- Mémoire vive : 4 Go
- Disques durs : 2 de 16 Go
- Disques durs supplémentaires : 5 de 2Go converti en RAID6

02

Installation de  
TrueNAS Scale

- Téléchargement de l'iso
- Choix de l'installation
- Création du compte administrateur
- Création de la partition swap
- Redémarrage

03

Configuration via  
l'interface Web

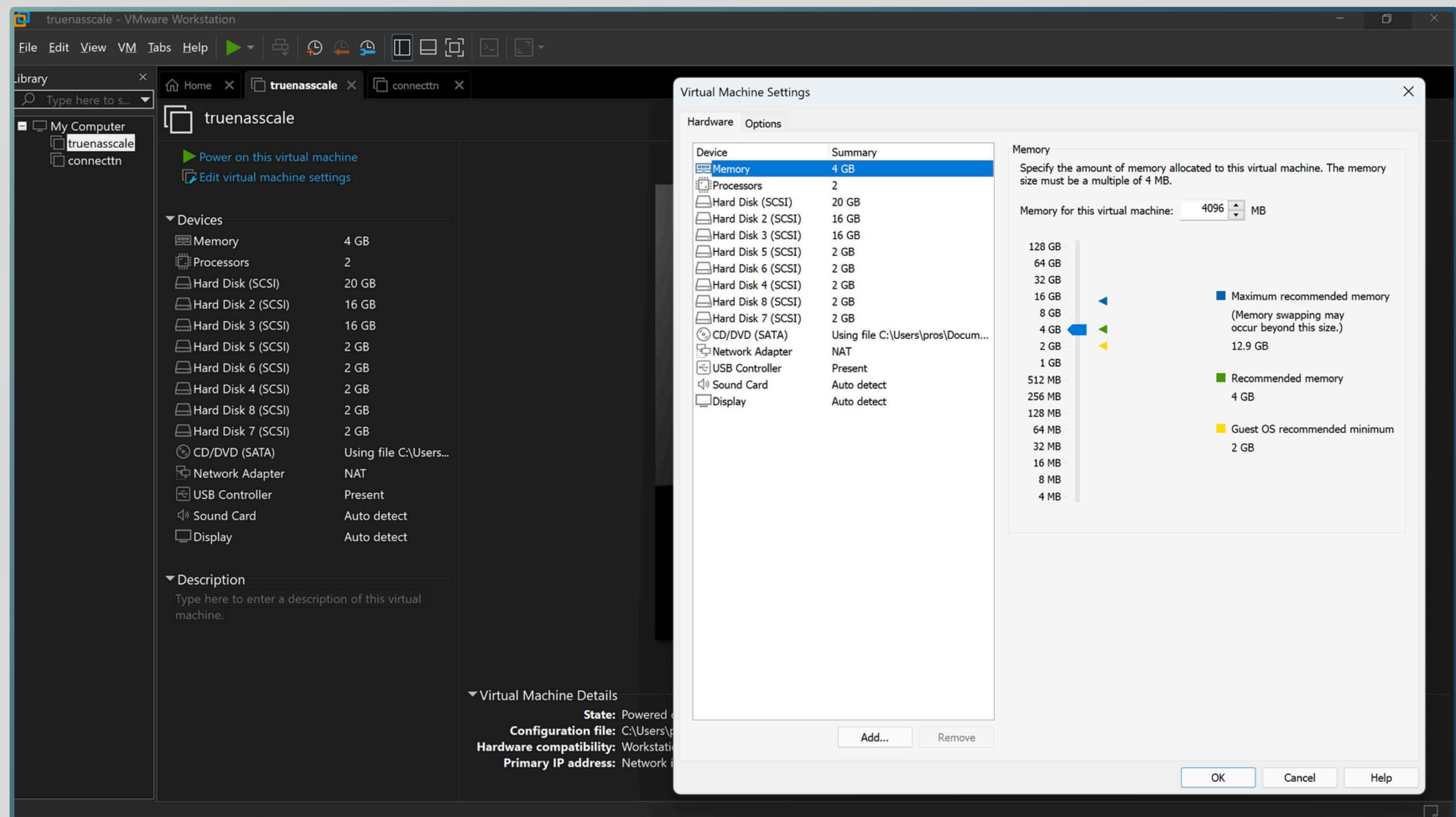
- Accès à l'interface Web
- Connexion
- Création & configuration du pool de Stockage avec RAIDZ2

04

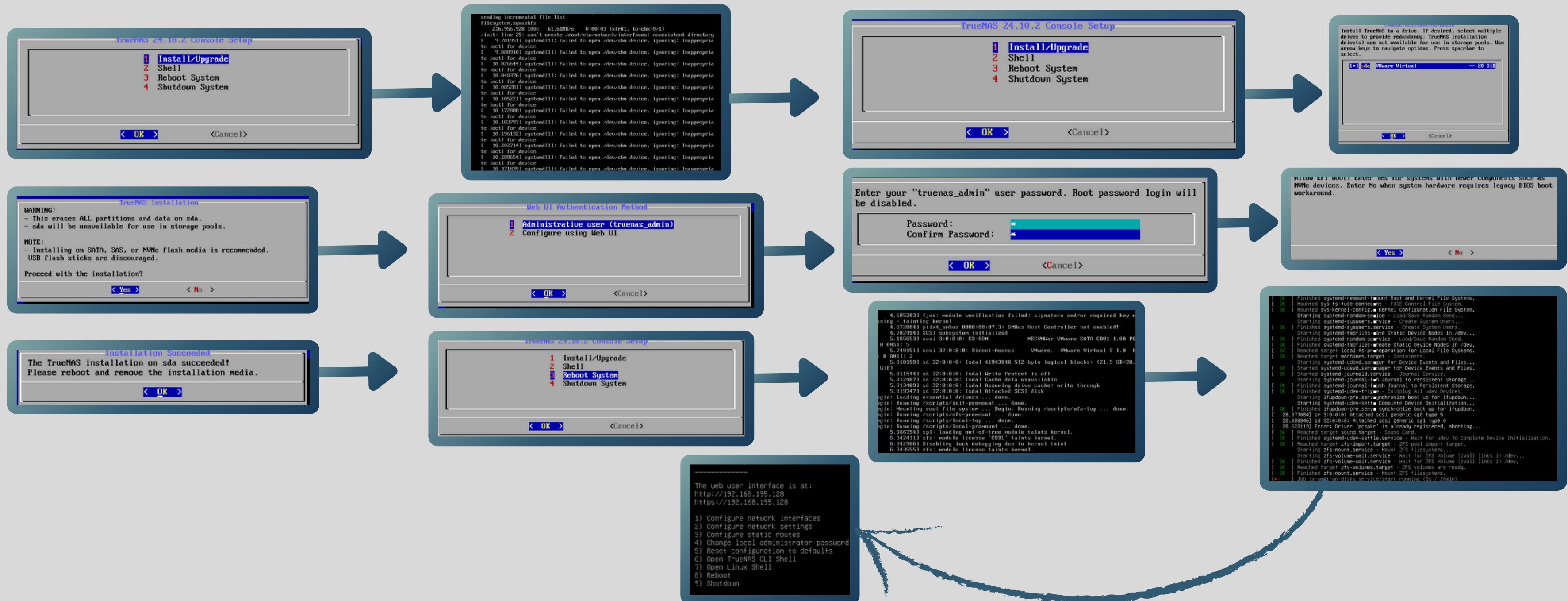
Etablir des  
Connexions

- HTTPS
- SSH
- SFTP

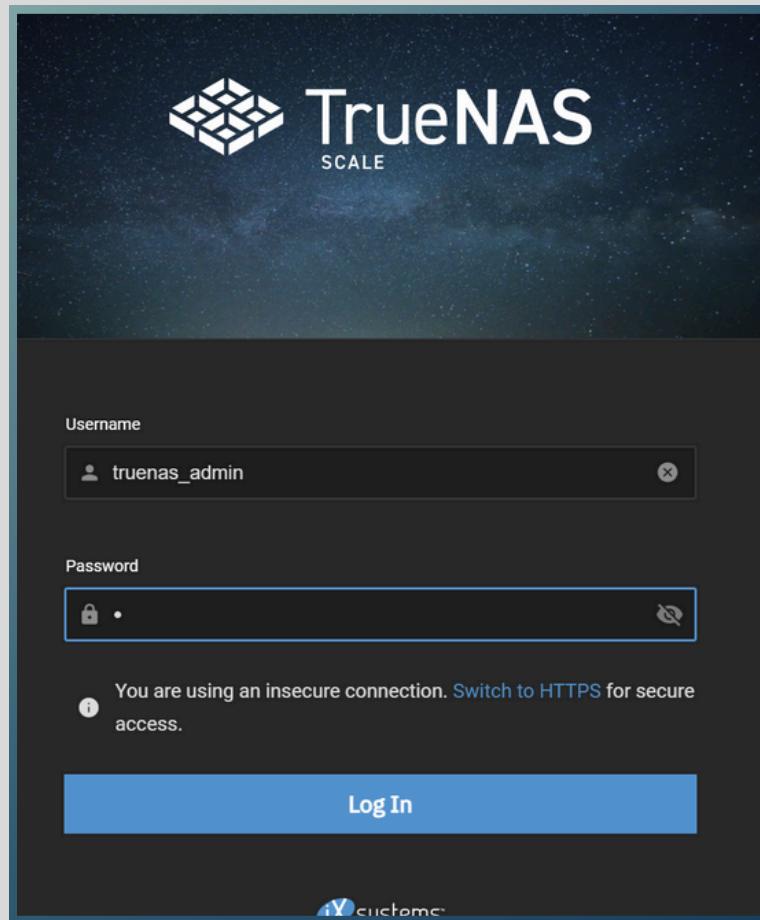
# Prérequis Matériel - VM



# Installation de TrueNAS Scale



# Configuration via l'Interface Web



The image shows the TrueNAS SCALE Dashboard. The top navigation bar includes a back arrow, forward arrow, search bar, and user information for 'truenas\_admin'. The dashboard has a sidebar with links like 'Dashboard', 'Storage', 'Datasets', 'Shares', 'Data Protection', 'Network', 'Credentials', 'Virtualization', 'Apps', 'Reporting', and 'System'. The main area features a 'TrueNAS SCALE' logo, a 'Check for Updates' button, and several monitoring cards: 'System Information' (Overview, Platform: Generic, Version: ElectricEel-24.10.2, Hostname: truenas, Uptime: 9 minutes 55 seconds as of 04:29), 'CPU Usage Per Core' (line chart showing usage from 0% to 100%), 'CPU Temperature Per Core' (line chart showing temperature from 0% to 100%), 'CPU Usage' (doughnut chart showing 0%), 'CPU Model' (text: AMD Ryzen 7 7735U with 16 cores), and 'Memory' (doughnut chart showing 0%).

# Paramétrage de la localisation

The screenshot shows the TrueNAS web interface with a dark theme. On the left, there's a sidebar with various system management icons: Dashboard, Storage, Datasets, Shares, Data Protection, Network, Credentials, Virtualization, Apps, Reporting, and System. The main content area has a large blue circular icon with a white 'A' in the center. Below it, there are links to the Documentation Hub, Forums, and Licensing, along with 'Add License' and 'File Ticket' buttons. A 'Localization' section displays current settings: Language (English), Date Format (2025-03-28), Time Format (08:42:48), Timezone (America/Los\_Angeles), and Console Keyboard Map (English (US)). To the right, a modal window titled 'Localization Settings' allows for modification of these parameters. It includes fields for Language (set to English (en)), Console Keyboard Map (set to English (US) (us)), Timezone (set to Europe/Paris), Date Format (set to 2025-03-28), and Time Format (set to 08:42:48 (24 Hours)). A 'Save' button at the bottom right of the modal.

# Création du Stockage & RAIDZ2

The image displays three screenshots of the TrueNAS web interface, illustrating the process of creating storage and configuring RAIDZ2.

**Screenshot 1: Pool Creation Wizard - General Info**

This screenshot shows the first step of the "Pool Creation Wizard". The "Configuration Preview" section displays the following settings:

- Name: Stockage
- Cache: None
- Data: None
- Dedup: None
- Log: None
- Spare: None
- Metadata: None
- Encryption: None
- Total Raw Capacity: 0 B

The "Unassigned Disks" section indicates "No disks available".

**Screenshot 2: Configuration Preview - Data**

This screenshot shows the second step of the wizard, "Data". The "Configuration Preview" section displays the following settings:

- Name: Stockage
- Cache: None
- Data: 1 x RAIDZ2 | 5 x 2 GiB (HDD)
- Dedup: None
- Log: None
- Spare: None
- Metadata: None
- Encryption: None
- Total Raw Capacity: 6 GiB

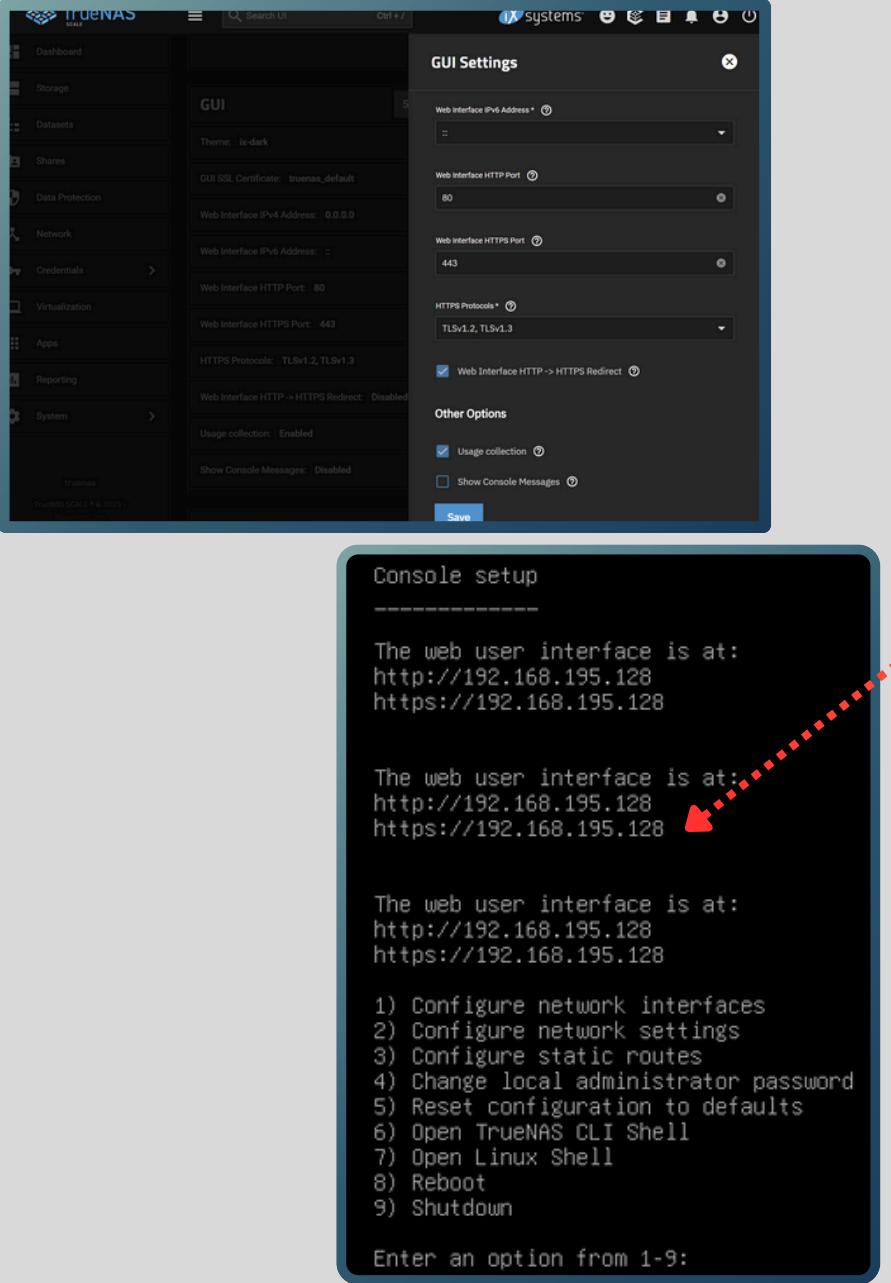
The "Automated Disk Selection" section shows "Disk Size" set to "2 GiB (HDD)". The "Advanced Options" section includes "Treat Disk Size as Minimum". The "Unassigned Disks" section shows "16 GiB x 2".

**Screenshot 3: Storage Overview**

This screenshot shows the "Stockage" overview page. It displays the following information:

- Topology:** 1 x RAIDZ2 | 5 wide | 2 GiB
- Usage:** Usable Capacity: 5.45 GiB (0.1% used)
- ZFS Health:** Pool Status: Online, Total ZFS Errors: 0
- Disk Health:** Disks temperature related alerts: 0, Highest Temperature: No Data, Lowest Temperature: No Data, Average Disk Temperature: No Data

# Connexion HTTPS



The screenshot shows the TrueNAS SCALE web interface. On the left, the 'GUI Settings' dialog is open, showing configuration for Web Interface IPv6 Address (disabled), Web Interface HTTP Port (80), Web Interface HTTPS Port (443), and HTTPS Protocols (TLSv1.2, TLSv1.3). A 'Web Interface HTTP -> HTTPS Redirect' checkbox is checked. On the right, the 'Console setup' command has been run, displaying the web interface addresses (HTTP and HTTPS) and a list of 9 steps for network configuration.

TrueNAS - 192.168.195.128

Not secure | https://192.168.195.128/ui/apps/available/community/vaultwarden

TrueNAS SCALE

Vaultwarden

Available Resources

Application Info

Run As Context

Similar Apps

Passbolt

Romm

v1.1.13

v1.0.12

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Enter an option from 1-9:

1) Configure network interfaces  
2) Configure network settings  
3) Configure static routes  
4) Change local administrator password  
5) Reset configuration to defaults  
6) Open TrueNAS CLI Shell  
7) Open Linux Shell  
8) Reboot  
9) Shutdown

The web user interface is at:  
http://192.168.195.128  
https://192.168.195.128

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http://192.168.195.128  
https://192.168.195.128

Save

Dashboard

Storage

Datasets

Shares

Data Protection

Credentials

Virtualization

Apps

Reporting

System

Console

Usage collection: Enabled

Show Console Messages: Disabled

Theme: iX-dark

GUI SSL Certificate: truenas\_default

Web Interface IPv6 Address: 0.0.0.0

Web Interface HTTP Port: 80

Web Interface HTTPS Port: 443

HTTPS Protocols: TLSv1.2, TLSv1.3

Web Interface HTTP -> HTTPS Redirect: Disabled

Other Options

Usage collection: Enabled

Show Console Messages: Disabled

Save

# Samba Share

Compte Utilisateur

- Gestion d'utilisateurs
- Créer un nouveau utilisateur
- Cocher l'authentification par Samba
- Enregistrer

Données

- selectioner le Pool de Stockage
- Créer un nouvelle donnée
- Enregistrer

Samba Share

- Partage
- Windows (SMB) Shares
- Créer nouveau SMB share
- Activer
- Enumération de partage basé sur accès
- Enregistrer

# Authorisations de Partage

Partage > Windows (SMB) > Editer

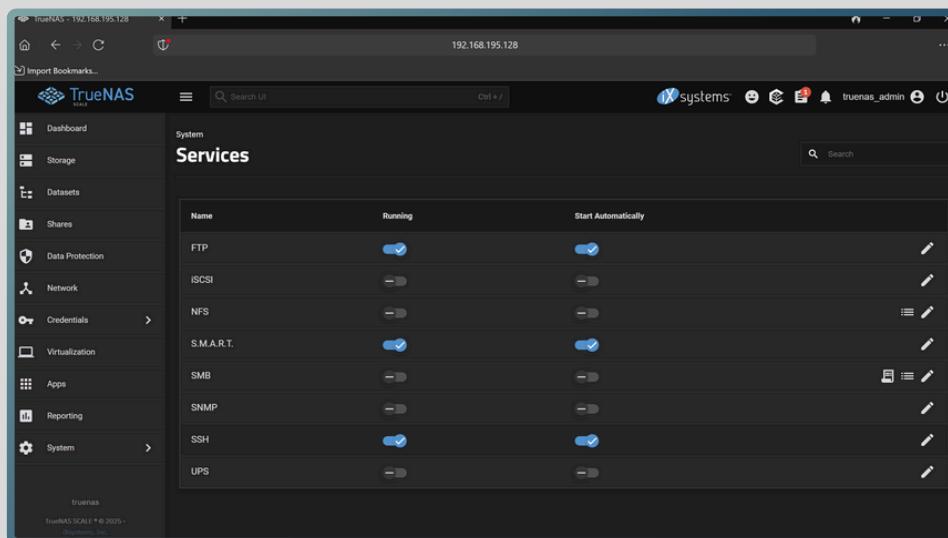
Ajouter ACL

Qui : Utilisateur/Groupe

Type : Permettre

Permissions : Read | Write | Execute

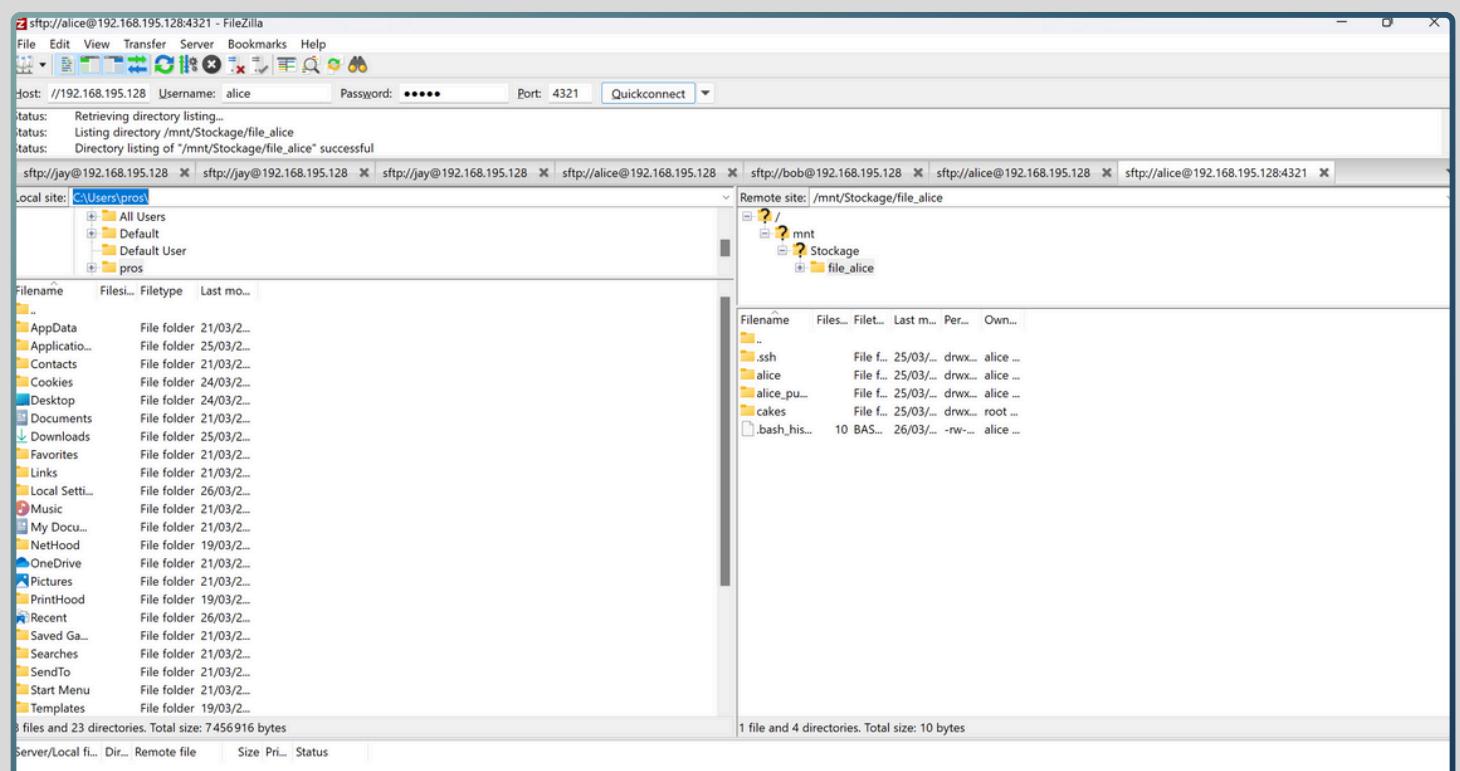
# Connexion SSH | SFTP



changer le port

générer clé privée & publique

ajouter clé publique à l'utilisateur



```
FileZilla - 192.168.195.128 - sftp://alice@192.168.195.128:4321 - FileZilla
File Edit View Transfer Server Bookmarks Help
Port: 4321 Quickconnect
Local site: C:\Users\pros
Remote site: /mnt/Stockage/file_alice
Filetype: Last modified: Owner:
.. File folder 21/03/2025
AppData File folder 21/03/2025
Applicatio... File folder 25/03/2025
Contacts File folder 21/03/2025
Cookies File folder 24/03/2025
Desktop File folder 24/03/2025
Documents File folder 21/03/2025
Downloads File folder 25/03/2025
Favorites File folder 21/03/2025
Links File folder 26/03/2025
Local Setti... File folder 21/03/2025
Music File folder 21/03/2025
My Docu... File folder 21/03/2025
Nethood File folder 19/03/2025
OneDrive File folder 21/03/2025
Pictures File folder 21/03/2025
PrintHood File folder 19/03/2025
Recent File folder 26/03/2025
Saved Ga... File folder 21/03/2025
Searches File folder 21/03/2025
SentiTo File folder 21/03/2025
Start Menu File folder 21/03/2025
Templates File folder 19/03/2025
1 file and 23 directories. Total size: 7456916 bytes
Server/Local fi... Dir... Remote file Size Pri... Status
```

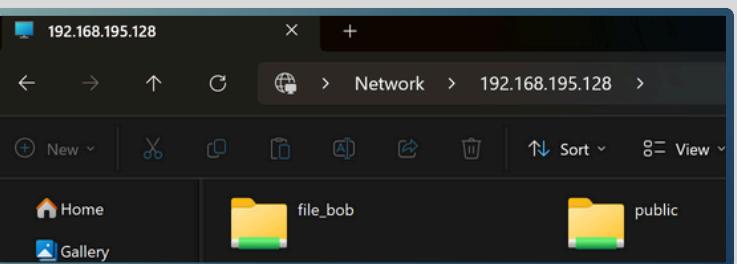
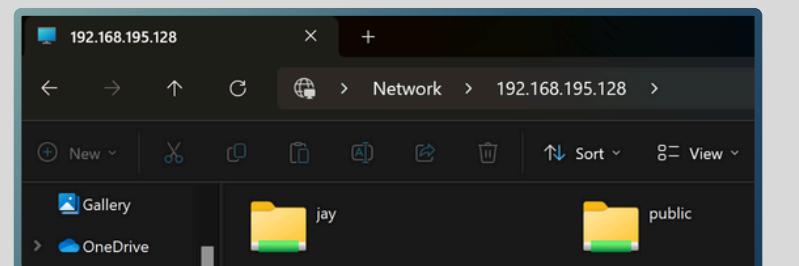
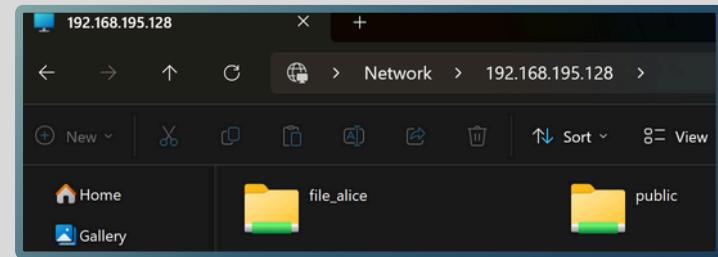
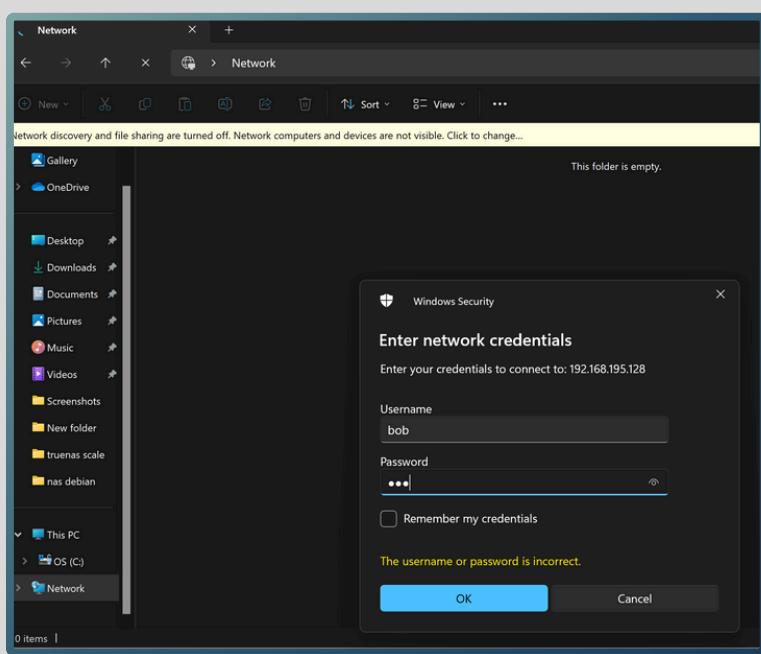
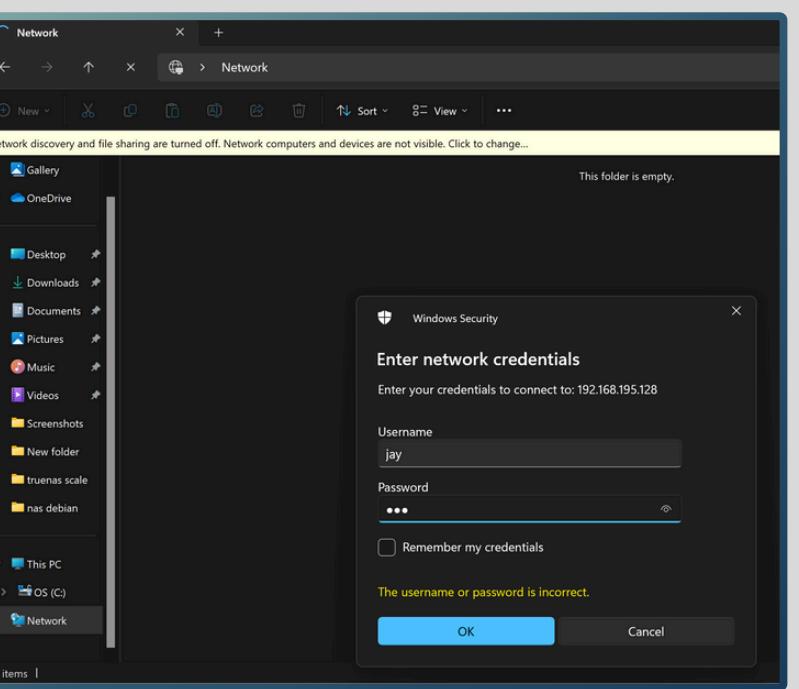
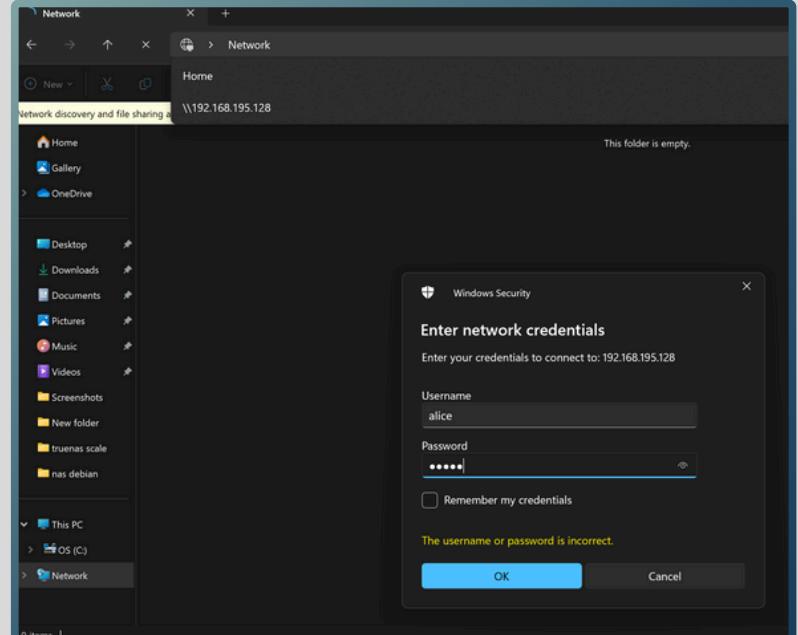
```
SSH Connection
Connection closed
connect@connect:~$ ssh alice@192.168.195.128
ssh: connect to host 192.168.195.128 port 22: Connection refused
Connection closed
connect@connect:~$ ssh alice@192.168.195.128
The authenticity of host '192.168.195.128' ('192.168.195.128') can't be established.
ED25519 key fingerprint is SHA256:/LhdqJldhgkVegqgKZOU92xgDH9KWhg+CDj/Tgs.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes' or 'no' or the fingerprint, yes
Warning: Permanently added '192.168.195.128' (ED25519) to the list of known hosts.
alice@192.168.195.128: Permission denied (publickey).
connect@connect:~$ ssh alice@192.168.195.128
alice@192.168.195.128: Permission denied (publickey).
connect@connect:~$ ssh alice@192.168.195.128
ssh: connect to host 192.168.195.128 port 22: Connection refused
Connection closed
connect@connect:~$ ssh alice@192.168.195.128
alice@192.168.195.128: Permission denied (publickey).
connect@connect:~$ ssh alice@192.168.195.128
ssh: connect to host 192.168.195.128 port 22: Connection refused
Connection closed
connect@connect:~$ ssh alice@192.168.195.128
alice@192.168.195.128's password:
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source files copyrighted by (c) iXsystems, Inc. All other components
are released under their own respective licenses.

For more information, documentation, help or support, go here:
http://truenas.com

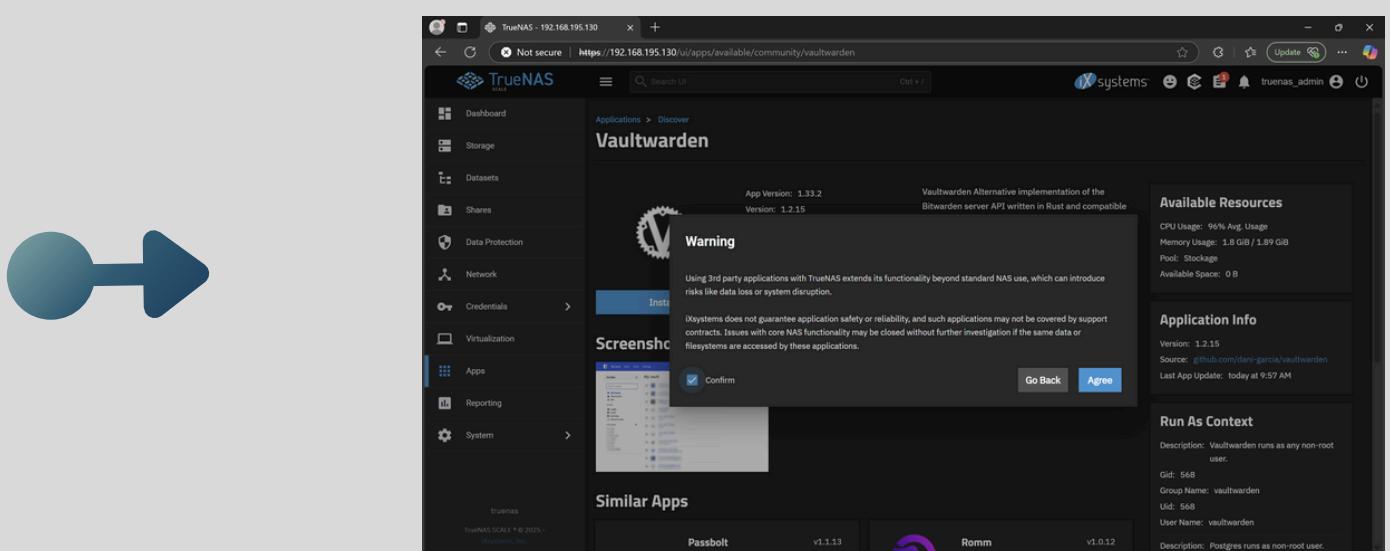
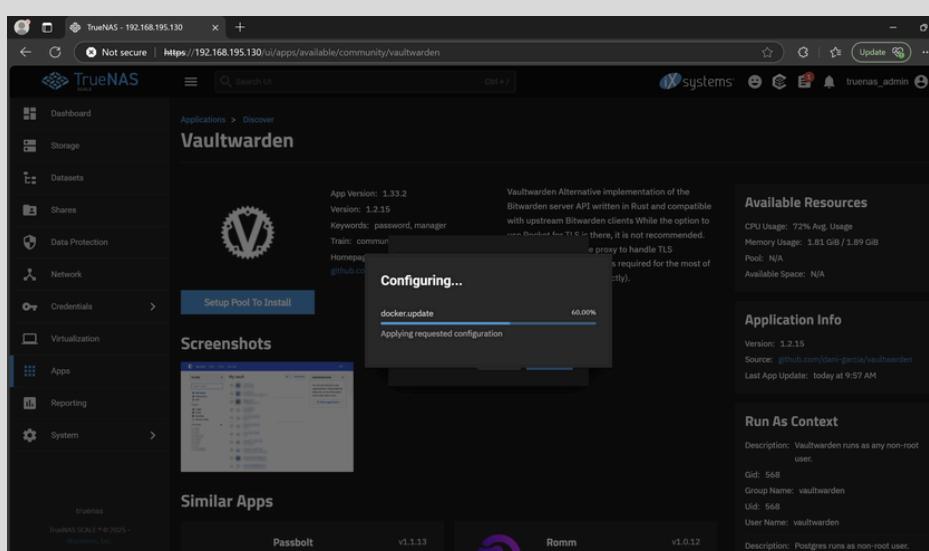
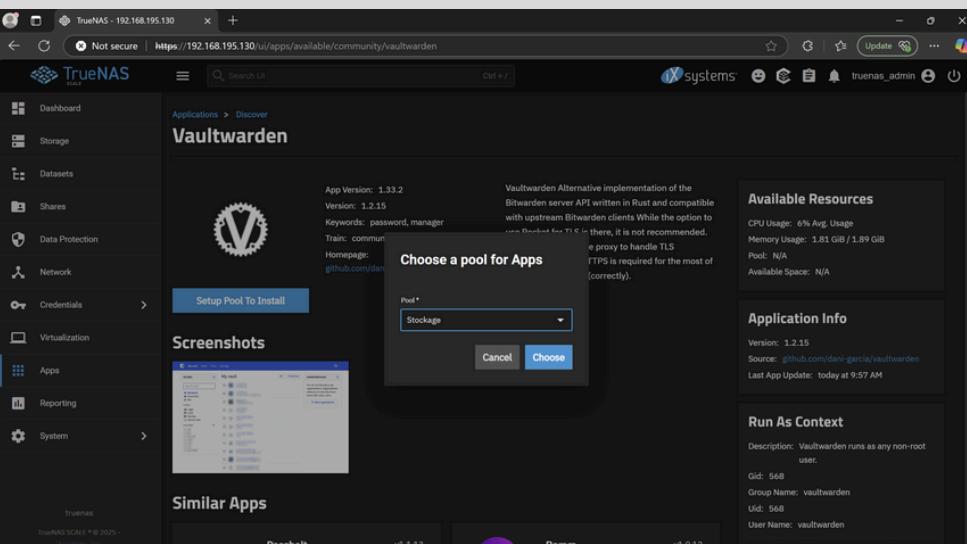
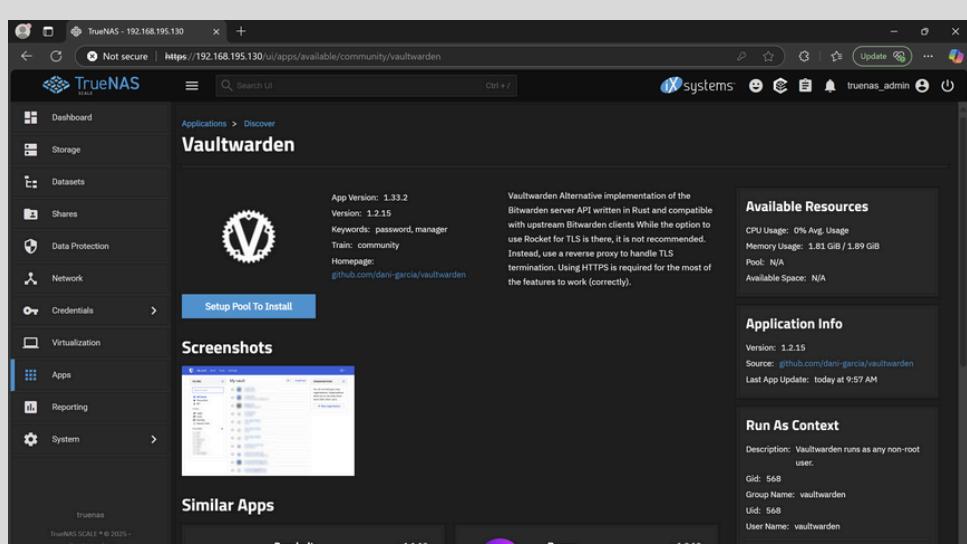
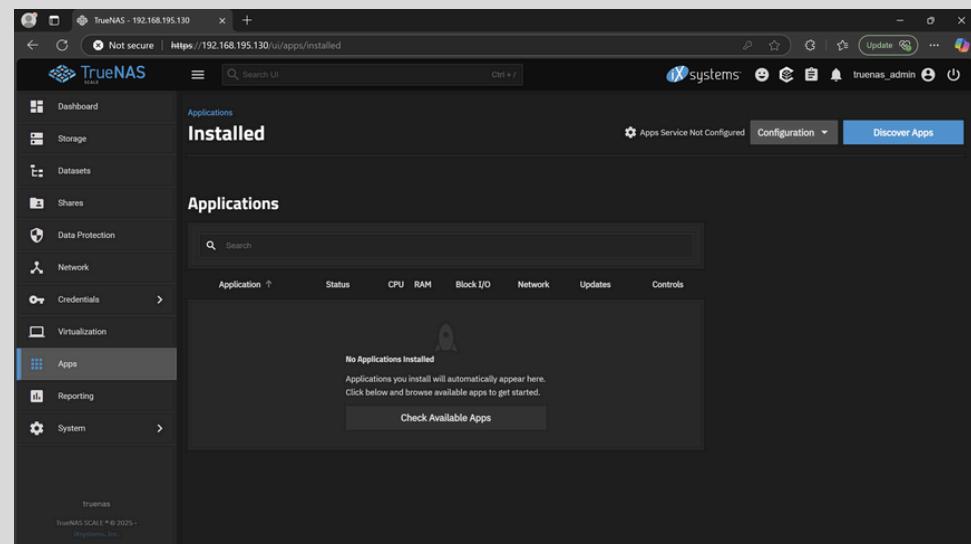
Warning: the supported mechanisms for making configuration changes
are the TrueNAS WebUI, CLI, and API exclusively. ALL OTHERS ARE
NOT SUPPORTED AND WILL RESULT IN UNDEFINED BEHAVIOR AND MAY
RESULT IN SYSTEM FAILURE.

Welcome to TrueNAS
alice@truenas:~$
```

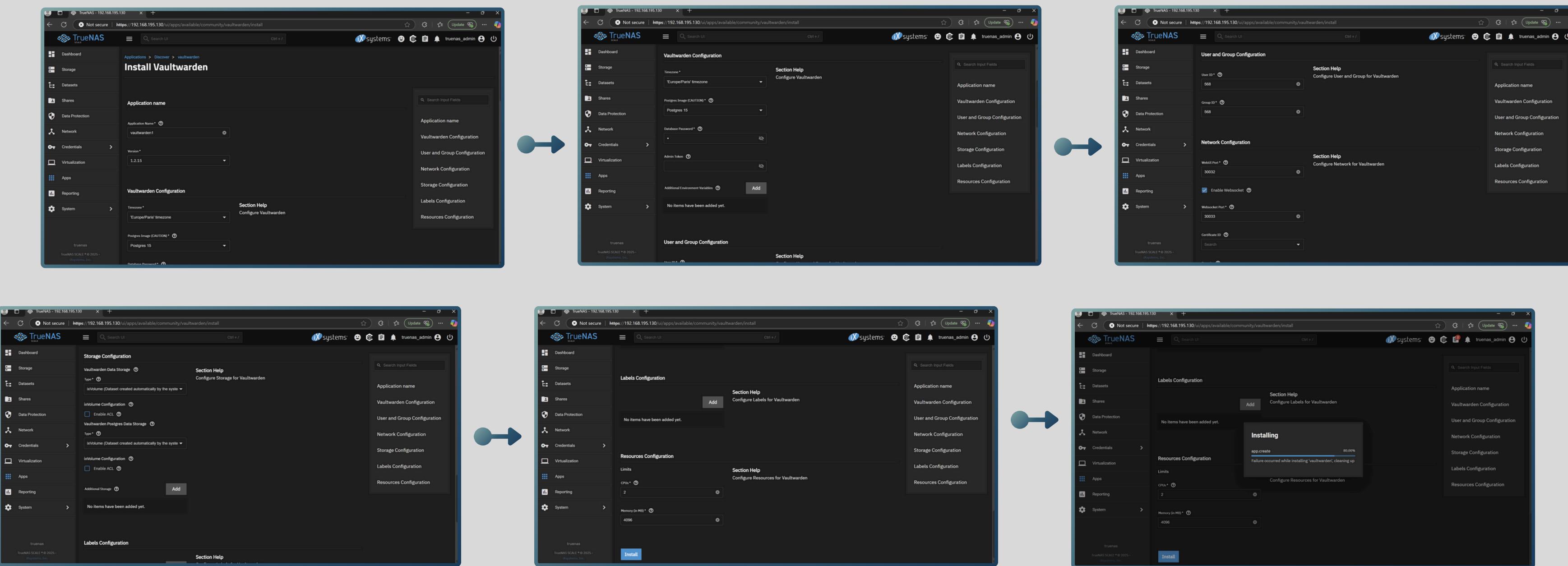
# Connexion Samba



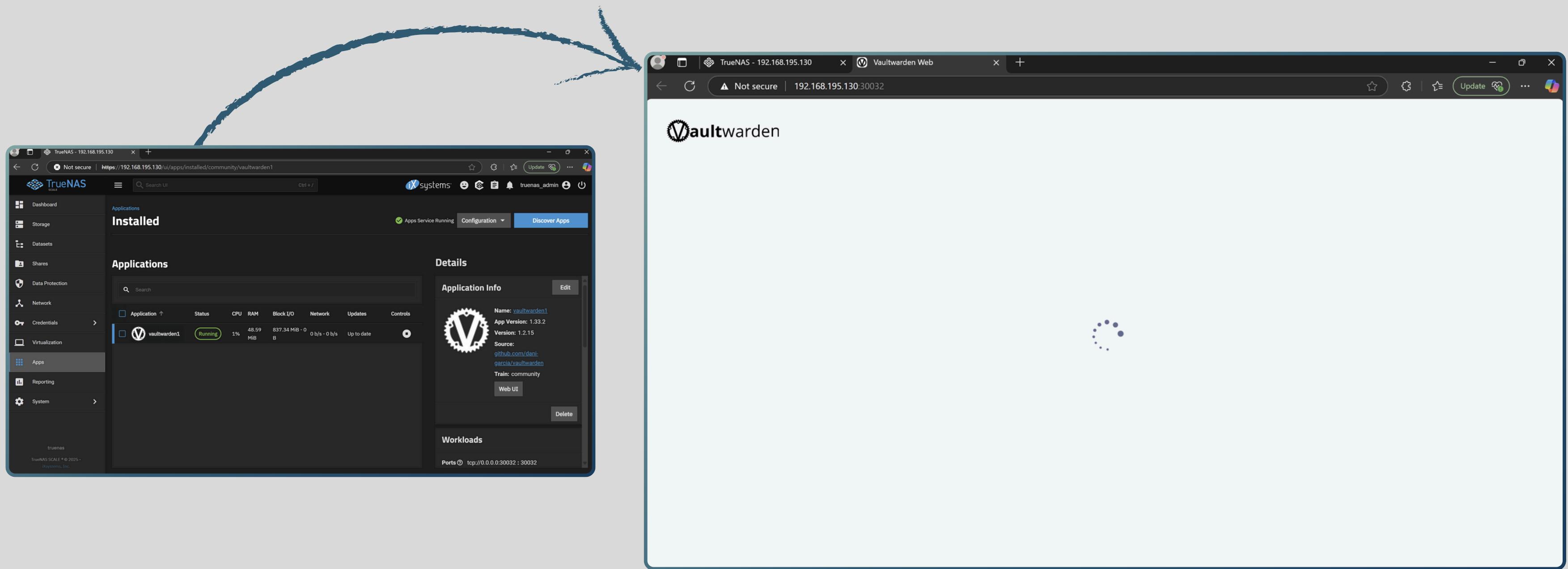
# Installation de l'application Vaultwarden



# Configuration de l'application Vaultwarden



# Configuration de l'application Vaultwarden



merci