

# Troubleshoots and Updates

Guides for Troubleshooting software and ways to update specific system that are running in homelab.

- [Updating Guide](#)
  - [Updating Portainer on Docker Standalone](#)
  - [Updating Authentik](#)
  - [Update Docker Compose Tool](#)
- [Expanding VM Filesystem Size](#)
- [Fixing Home Assistant /auth/token Errors Behind Nginx Proxy Manager](#)
- [Paperless NGX](#)
  - [What to Do When Files in the Import Folder Don't Show Up](#)

# Updating Guide

# Updating Portainer on Docker Standalone

This guide will walk you through updating Portainer in terminal. Always match the agent version to the Portainer Server version. In other words, when you're installing or updating to Portainer 2.27.9 make sure all of the agents are also on version 2.27.9.

To update to the latest version of Portainer Server, use the following commands to stop then remove the old version. Your other applications/containers will not be removed.

## [Portainer Documentation](#)

### Updating Portainer

1. SSH to main Portainer machine (Overseer)
2. Run Following Commands

```
docker stop portainer
```

```
docker rm portainer
```

```
docker pull portainer/portainer-ce:lts
```

```
docker run -d -p 8000:8000 -p 9443:9443 --name=portainer --restart=always -v  
/var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-ce:lts
```

This will stop and remove old version and reinstalled new on. The newest version of Portainer will now be deployed on your system, using the persistent data from the previous version, and will also upgrade the Portainer database to the new version.

### Updating Portainer Agent

1. SSH to vms that run portainer agents (External vm, Internal vm)
2. Run Following Commands

```
docker stop portainer_agent
```

```
docker rm portainer_agent
```

```
docker pull portainer/agent:lts
```

```
docker run -d -p 9001:9001 --name portainer_agent --restart=always -v  
/var/run/docker.sock:/var/run/docker.sock -v /var/lib/docker/volumes:/var/lib/docker/volumes  
portainer/agent:lts
```

# Updating Authentik

This is extended guide to updating Authentik software. Read trough official Authentik documentation before running updates.

[Authentik Documentation](#)

1. Take a snapshot of Overseer vm
2. Navigate to Authentik Directory

```
cd /docker/authentik
```

3. Backup Database

```
docker exec -t authentik_postgresql_1 pg_dumpall -c -U postgres > authentik_backup.sql
```

4. Download the latest docker-compose.yml file

```
wget -O docker-compose.yml https://goauthentik.io/docker-compose.yml
```

5. Ensure .env is all set and has following variables in it

```
touch .env
```

```
PG_PASS=your_database_password  
PG_USER=authentik  
PG_DB=authentik  
AUTHENTIK_SECRET_KEY=your_secret_key  
AUTHENTIK_TAG=latest
```

6. Pull the Latest image and apply the updates

```
docker compose pull  
docker compose up -d
```

7. Check the status

```
docker compose ps
```

8. Login to Authentik and make sure everything is up to date, and everything is working properly

Optional:

If there is an error due to space when downloading or installing the image run a clean up command:

```
docker image prune -a
```

# Update Docker Compose Tool

To update Docker Compose to new v2 version follow these steps:

## 1. Add Docker GPG Key

```
sudo apt-get update
sudo apt-get install ca-certificates curl gnupg
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg
```

## 2. Add Docker Repository

```
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] \
  https://download.docker.com/linux/ubuntu \
  $(lsb_release -cs) stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

## 3. Install Docker Compose

```
sudo apt-get update
sudo apt-get install docker-compose-plugin
```

To check the version

```
docker compose version
```

# Expanding VM Filesystem Size

If the VM hits the size limit, but there is more space allocated, or you allocated the space. These steps will help with expanding the size of the volume.

## Checking the Size

1. Check Disk Usage to see which disk is affected

```
df -h
```

2. Check volume group for free space

```
sudo vgdisplay
```

If there is no space, you will need to allocate more through Hypervisor

## Expanding filesystem root

1. Extend logical volume

```
sudo lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv
```

This will add remaining space to the root system

2. Resize filesystem

```
sudo resize2fs /dev/ubuntu-vg/ubuntu-lv
```

3. Verify disk size and usage

```
df -h /
```

## Fix GPT/ Partition Table

If you run into a problem where even after expanding the filesystem root it still stays at the original number, we might need to fix the GPT/ partition table. Usually after running the command below we would get

following message.

### 1. Check Disk size vs Partition Size

```
sudo fdisk -l /dev/sda
```

GPT PMBR size mismatch (67108863 != 134217727) will be corrected by write.  
The backup GPT table is not on the end of the device

### 2. Fix GPT/ Partition Table

```
sudo gdisk /dev/sda  
# Press 'v' to verify, then 'w' to write fixes
```

### 3. Resize the partition

```
sudo parted /dev/sda  
(parted) resizepart 3 100%  
(parted) quit
```

### 4. Reload partition table

```
sudo partprobe /dev/sda
```

### 5. Resize physical volume

```
sudo pvresize /dev/sda3
```

### 6. Check VG Free Space

```
sudo vgdisplay
```

### 7. Expand Logical Volume

```
sudo lvextend -l +100%FREE /dev/ubuntu-vg/ubuntu-lv
```

### 9. Resize Filesystem

```
sudo resize2fs /dev/ubuntu-vg/ubuntu-lv
```

At the end verify to make sure its actually resized

df -h /

# Fixing Home Assistant /auth/token Errors Behind Nginx Proxy Manager

This guide explains exactly what to do when Home Assistant shows:

```
Login attempt or request with invalid authentication.  
Requested URL: '/auth/token'
```

This error happens when **Nginx Proxy Manager blocks or alters Home Assistant's OAuth callback**, especially when using **Authentik, OIDC, or Basic Auth**.

## Set the External URL in Home Assistant

In Home Assistant:

1. Go to **Settings** → **System** → **Network**
2. Set **External URL** to:

```
https://overseer.cyberpaw.org
```

### Why:

Home Assistant validates OAuth requests against this URL. If it doesn't match the domain used through NPM, HA rejects `/auth/token`.

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## Disable "Block Common Exploits" in NPM

In **Nginx Proxy Manager**:

1. Go to **Hosts** → **Proxy Hosts**
2. Edit your Home Assistant proxy host
3. Open the **SSL** tab
4. **Uncheck:**

```
Block Common Exploits
```

## Why:

This option blocks or modifies legitimate OAuth POST requests to:

- `/auth/token`
- `/auth/authorize`
- `/api/*`

This is the **#1 cause** of the `/auth/token` error.

## Correct SSL Tab Settings

In the same proxy host → **SSL** tab:

1. Turn ON:
  1. Force SSL
  2. HTTP/2 Support
  3. Websockets Support
2. Turn OFF:
  1. HSTS Enabled
  2. HSTS Subdomains

## Why:

WebSockets are required for HA. HSTS can cause redirect loops or break local access.

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## Add Required Headers (Advanced Tab)

In the same proxy host → **Advanced** tab, add:

```
proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_set_header X-Forwarded-Host $host;
```

## Why:

Home Assistant must know:

- The original hostname
- The original protocol (HTTPS)
- The real client IP

Missing headers = HA rejects the OAuth callback.

## Ensure No Path Rewrites or Blocking

Make sure NPM is **not** rewriting or protecting:

```
/auth/*
```

```
/api/*
```

If using **Basic Auth**, do NOT protect these paths.

**Why:**

OIDC and Authentik rely on these endpoints. If NPM intercepts or rewrites them, HA sees an invalid request.

## Test the Login Flow Properly

1. Close all HA tabs
2. Open a private/incognito window
3. Visit:

```
https://overseer.cyberpaw.org
```

4. Log in normally

# Paperless NGX

# What to Do When Files in the Import Folder Don't Show Up

Sometimes you drop documents into your Import folder, but nothing appears in the Paperless dashboard. This usually isn't a bug — it's just how Paperless watches for new files. Here's a quick guide to diagnose and fix it.

Paperless watches the import folder using **inotify**, which only reacts to *new* events:

- a file is **created**
- a file is **modified**
- a file is **moved into** the folder

If the files were already in the folder **before** Paperless started watching, no event fires — so Paperless never notices them.

1. Make sure the files are visible inside the container by running following command inside a VM

```
docker exec -it paperless-webserver-1 ls -l /usr/src/paperless/consume
```

2. Trigger Paperless to Notice Files by running touch command

```
sudo touch /mnt/nas/Import/*.pdf
```

3. Also, it might be optional but good idea to restart webserver

```
docker restart paperless-webserver-1
```

Permissions matter. If paperless can't write to the folder, imports will fail. To check permissions:

```
docker exec -it paperless-webserver-1 touch /usr/src/paperless/consume/test.txt
```