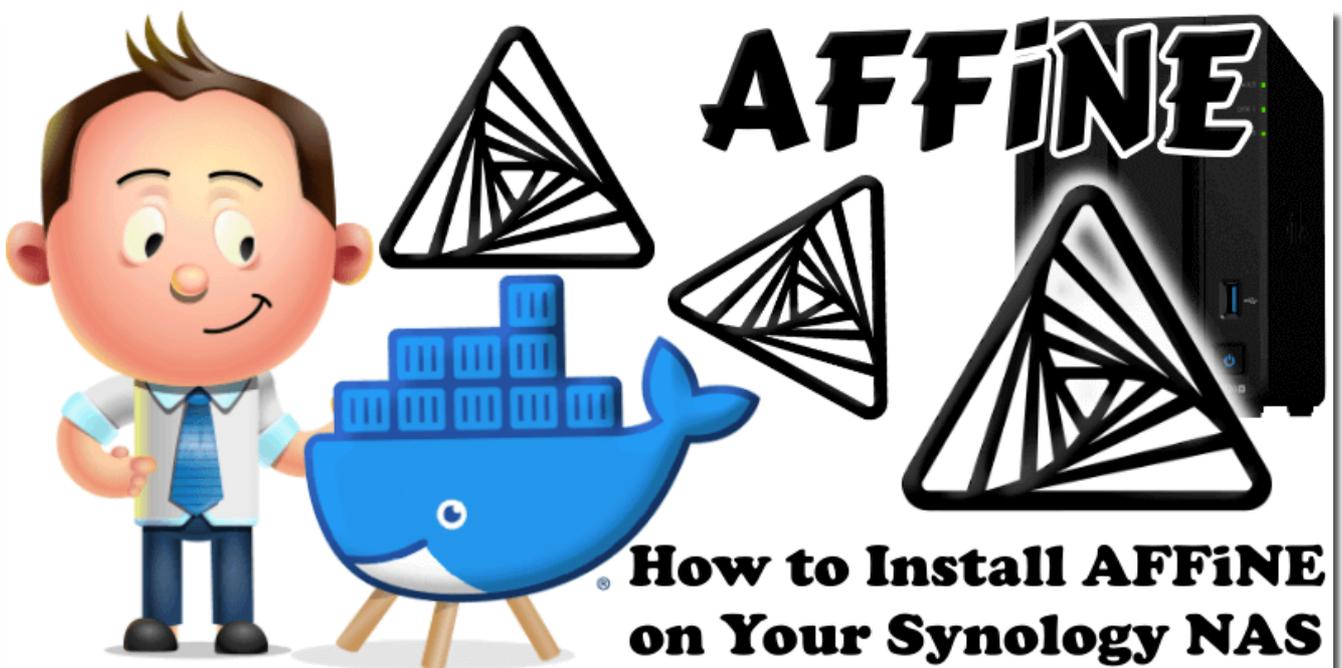


## How to Install Affine on Your Synology NAS

10 February 2024

by **Marius Bogdan Lixandru**



AFFiNE is a next-gen knowledge base that brings planning, sorting, and creating all together. Form your knowledge console at your wish. Open-source, privacy-first, and always free. AFFiNE is an alternative to Notion and Miro. It's a workspace with fully merged docs, whiteboards and databases. In this step by step guide I will show you how to install **AFFiNE** on your **Synology NAS** using Docker & Portainer.

💡 **Note:** This guide works perfectly with the **AFFiNe v0.13.1** release.



## ▪ **STEP 1**

**Please Support My work by Making a Donation.**

## ▪ **STEP 2**

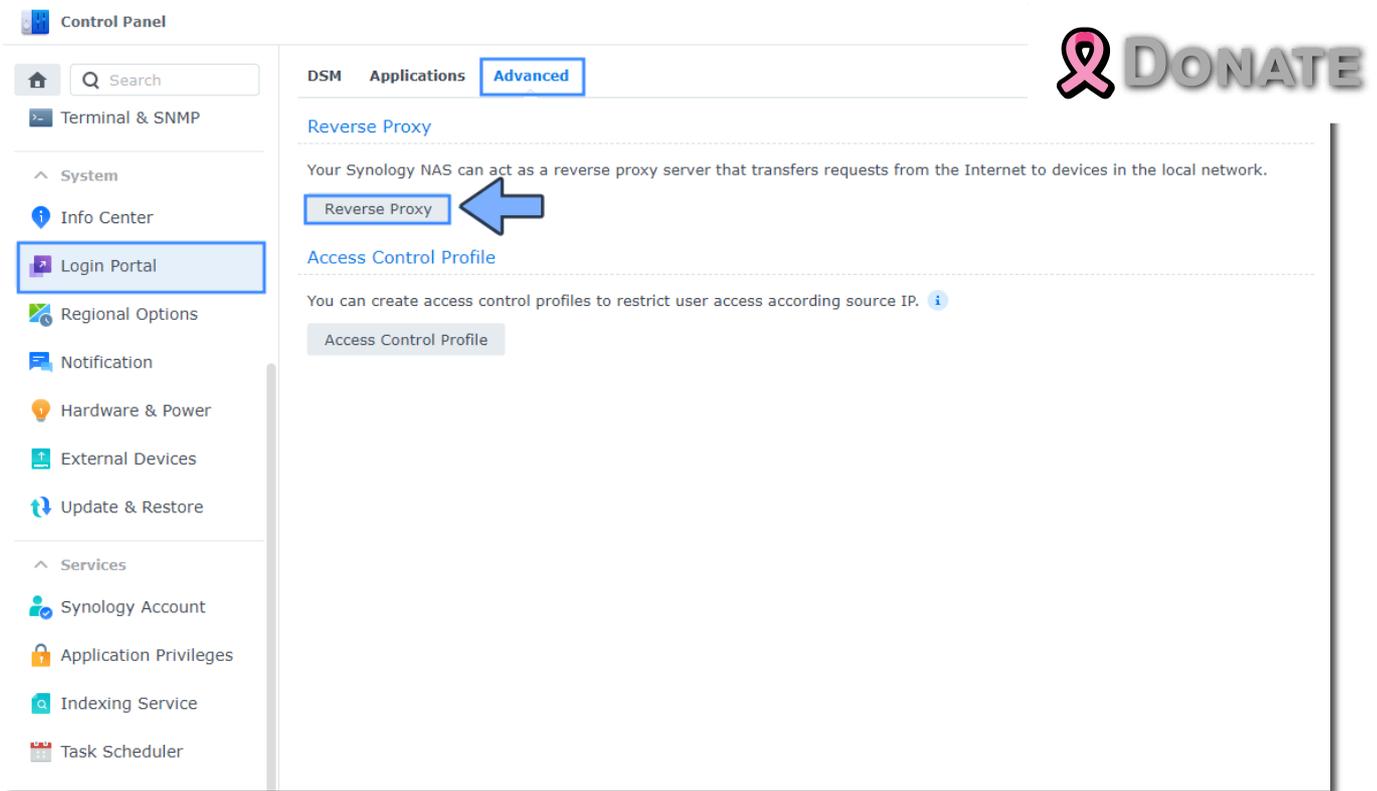
Install **Portainer using my step by step guide**. If you already have Portainer installed on your Synology NAS, skip this STEP. **Attention:** **Make sure you have installed the latest Portainer version.**

## ▪ **STEP 3**

Make sure you have a synology.me Wildcard Certificate. **Follow my guide to get a Wildcard Certificate**. If you already have a synology.me Wildcard certificate, skip this STEP.

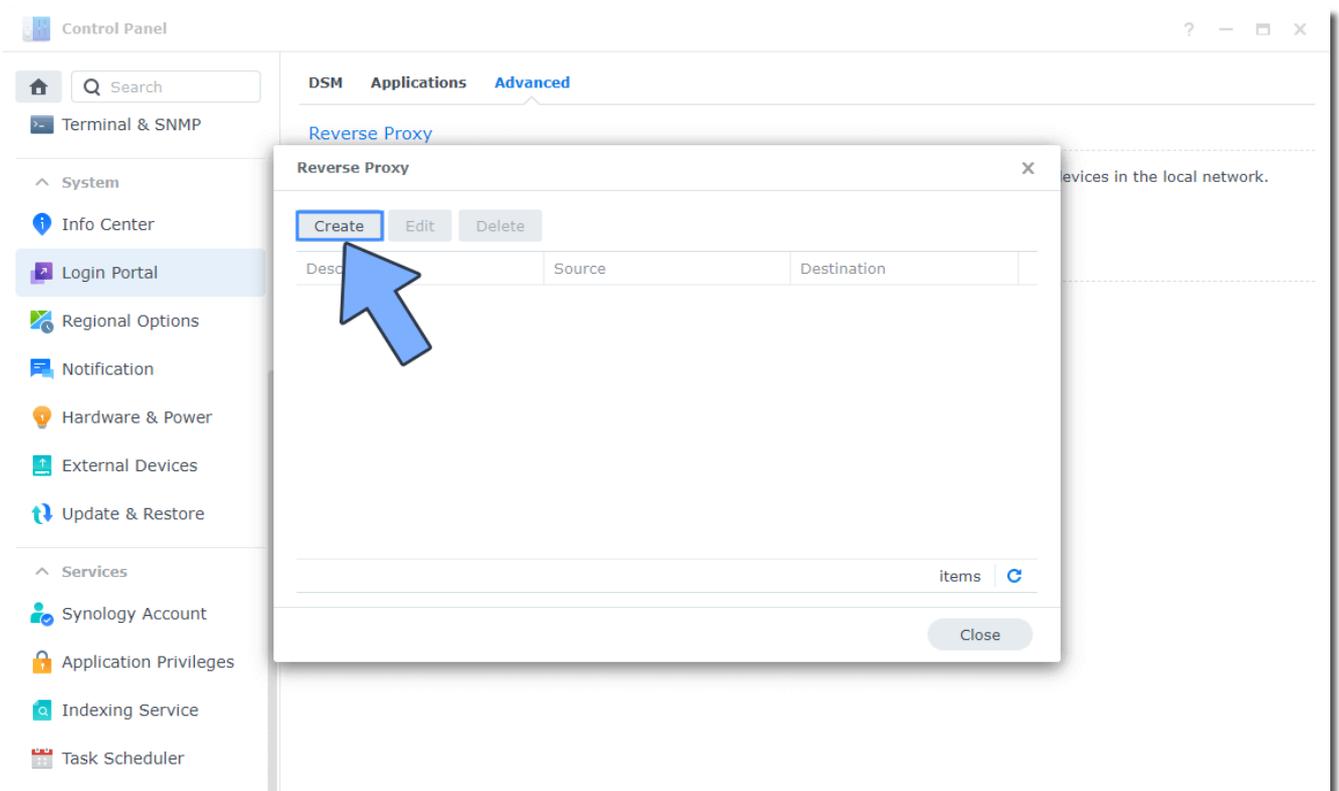
## ▪ **STEP 4**

Go to **Control Panel / Login Portal / Advanced Tab /** click **Reverse Proxy**. Follow the instructions in the image below.



## ■ STEP 5

Now click the “**Create**” button. Follow the instructions in the image below.



## ▪ **STEP 6**



After you click the Create button, the window below will open. Follow the instructions in the image below.

On the General area, set the Reverse Proxy Name description: type in **Affine**. After that, add the following instructions:

### **Source:**

Protocol: **HTTPS**

Hostname: **affine.yourname.synology.me**

Port: **443**

### **Check Enable **HSTS****

### **Destination:**

Protocol: **HTTP**

Hostname: **localhost**

Port: **3010**

Reverse Proxy Rules 

**General** Custom Header Advanced Settings

Reverse Proxy Name:

**Source**

Protocol:

Hostname:

Port:

Enable HSTS 

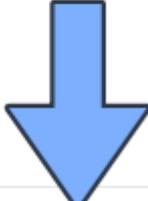
Access control profile:  

**Destination**

Protocol:

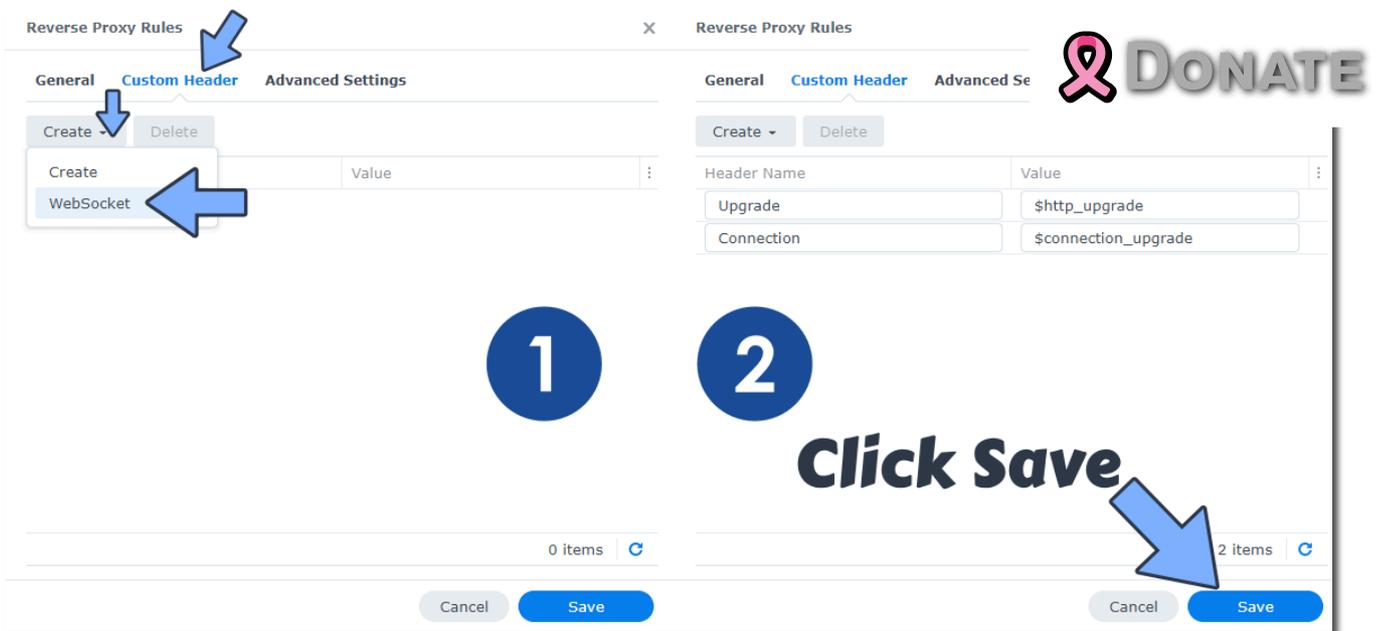
Hostname:

Port:



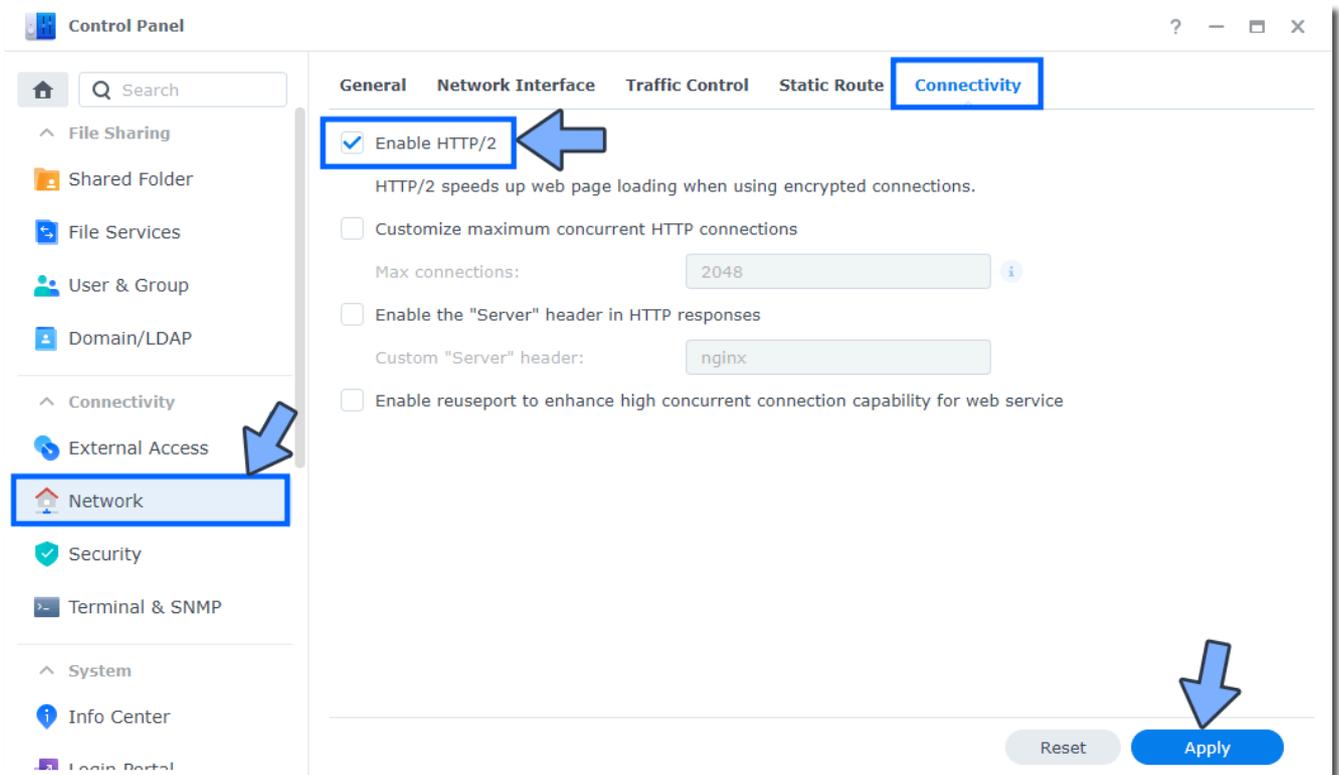
## ■ STEP 7

On the Reverse Proxy Rules click the **Custom Header** tab. Click **Create** and then, from the drop-down menu, click **WebSocket**. After you click on WebSocket, two Header Names and two Values will be automatically added. Click **Save**. Follow the instructions in the image below.



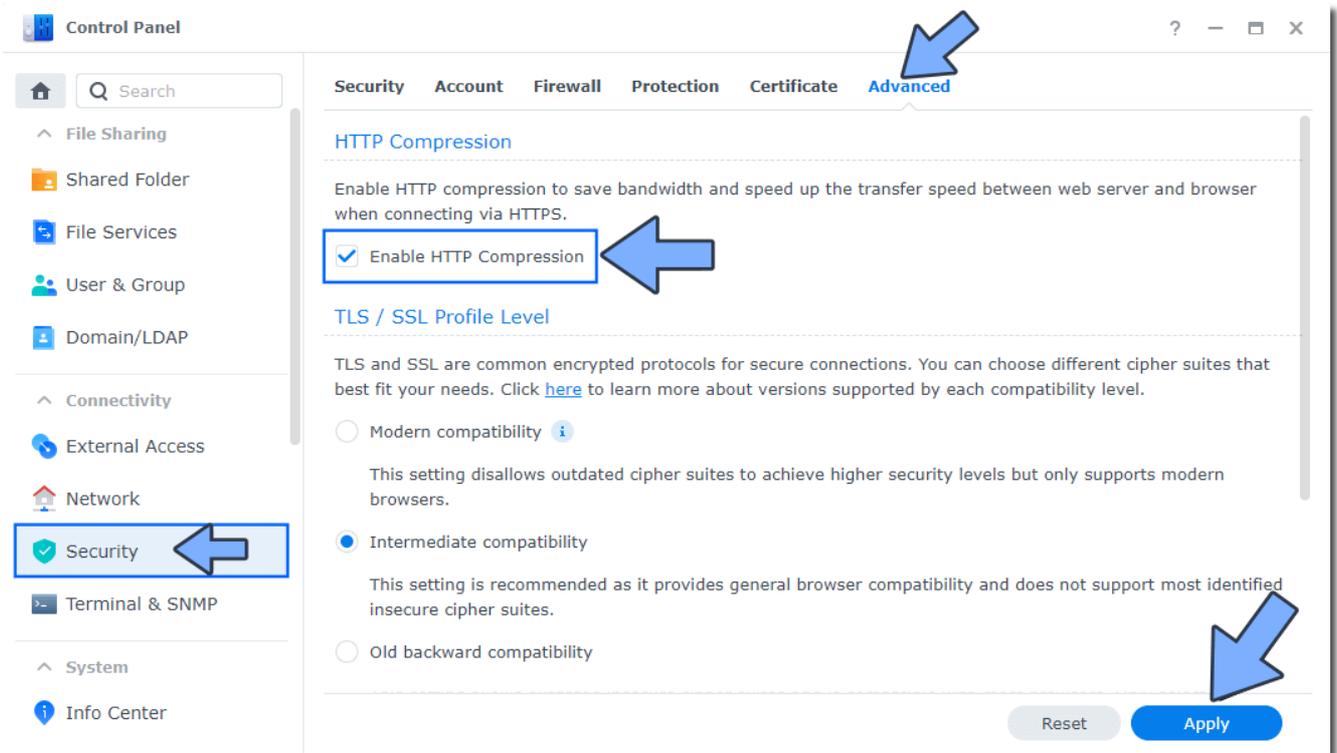
## ■ STEP 8

Go to **Control Panel / Network / Connectivity** tab/ Check **Enable HTTP/2** then click **Apply**. Follow the instructions in the image below.



## ■ STEP 9

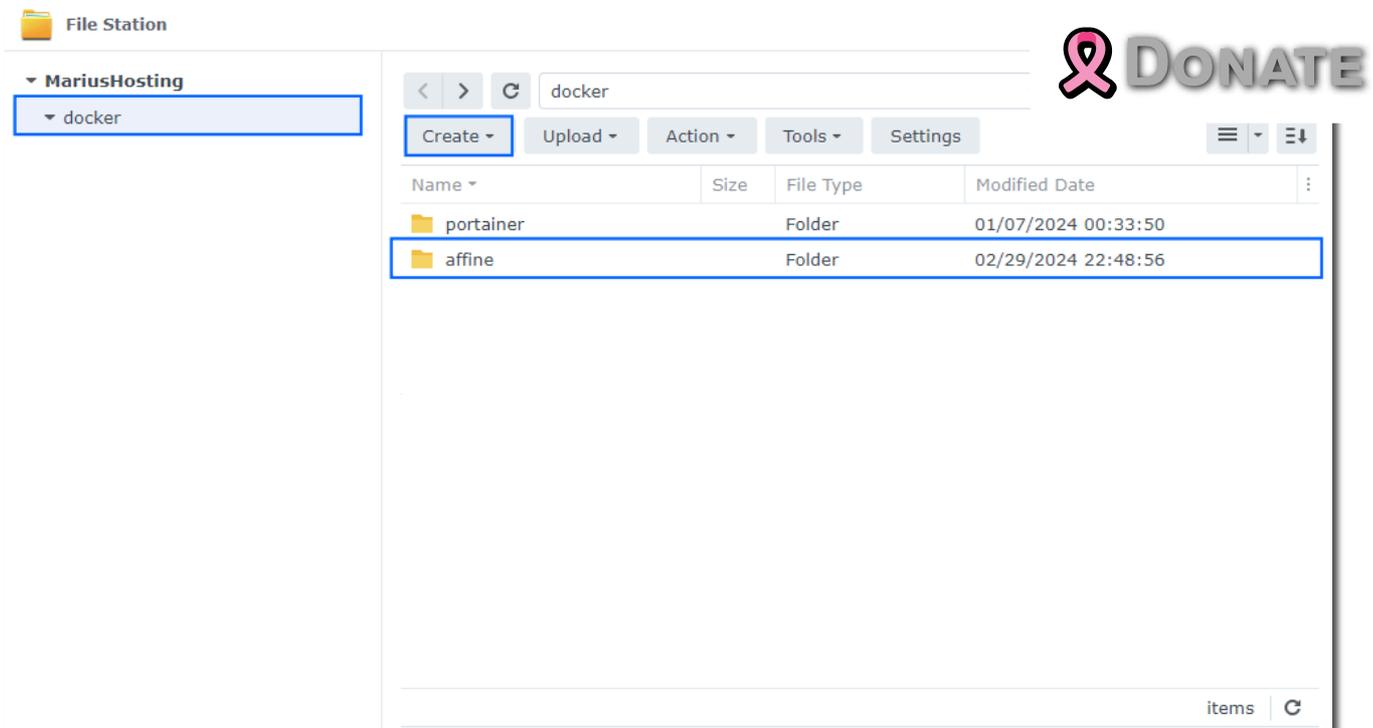
Go to **Control Panel / Security / Advanced** tab  **Enable HTTP Compression** then click **Apply**. Follow the instructions in the image below.



## ■ **STEP 10**

Go to **File Station** and open the docker folder. Inside the docker folder, create one new folder and name it **affine**. Follow the instructions in the image below.

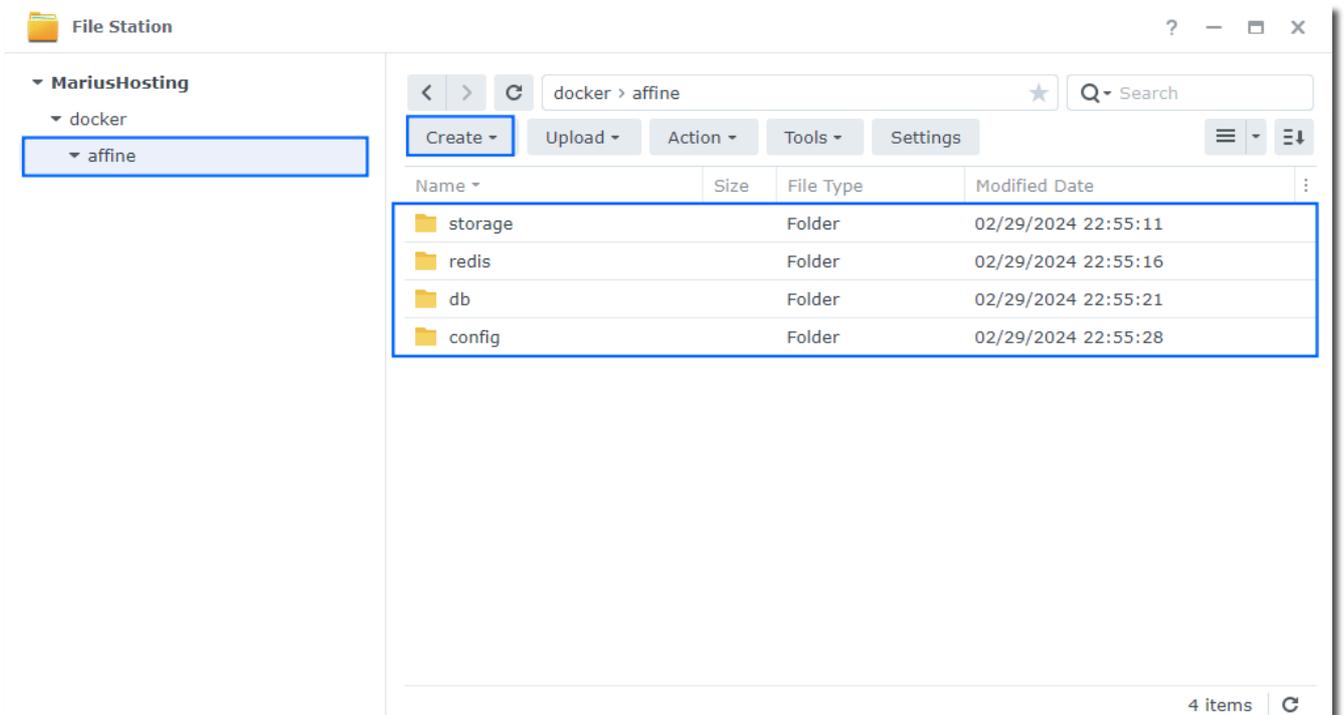
**Note:** Be careful to enter only lowercase, not uppercase letters.



## ■ STEP 11

Now create four new folders inside the **affine** folder that you created at **STEP 10** and name them **storage**, **redis**, **db**, **config**. Follow the instructions in the image below.

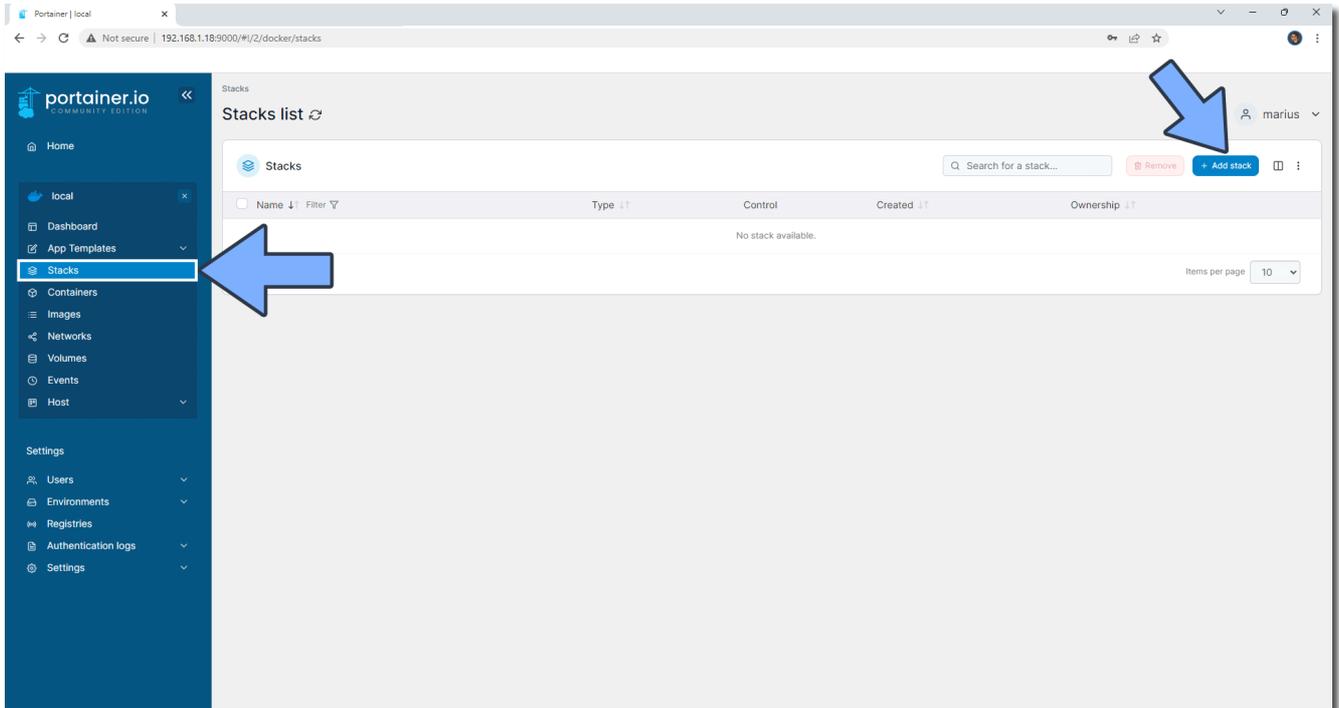
**Note:** Be careful to enter only lowercase, not uppercase letters.



## ■ STEP 12



Log into Portainer using your username and password. On the left sidebar in Portainer, click on **Stacks** then **+ Add stack**. Follow the instructions in the image below.



## ■ STEP 13

In the Name field type in **affine**. Follow the instructions in the image below.

**Note:** Copy Paste the code below in the Portainer Stacks Web editor.

version: '3.9'

services:

  affine:

    image: ghcr.io/toeverything/affine-graphql:stable

container\_name: AFFINE



healthcheck:

test: timeout 10s bash -c ':> /dev/tcp/127.0.0.1/3010' || e>

interval: 10s

timeout: 5s

retries: 3

start\_period: 90s

command:

['sh', '-c', 'node ./scripts/self-host-predeploy && node ./dis

ports:

- 3010:3010

- 5555:5555

depends\_on:

redis:

condition: service\_healthy

postgres:

condition: service\_healthy

volumes:

- /volume1/docker/affine/config:/root/.affine/config:rw

- /volume1/docker/affine/storage:/root/.affine/storage:rw

logging:

driver: 'json-file'

options:

max-size: '1000m'

restart: on-failure:5

environment:

- NODE\_OPTIONS="--import=./scripts/register.js"

- AFFINE\_CONFIG\_PATH=/root/.affine/config

- REDIS\_SERVER\_HOST=redis

- DATABASE\_URL=postgres://affineuser:affinepass@po

- NODE\_ENV=production

- AFFINE\_ADMIN\_EMAIL=**yourown@email**

- AFFINE\_ADMIN\_PASSWORD=**mariushosting**

redis:

image: redis:latest

container\_name: AFFINE-REDIS

restart: on-failure:5



volumes:

- /volume1/docker/affine/redis:/data:rw

healthcheck:

test: ['CMD', 'redis-cli', '--raw', 'incr', 'ping']

interval: 10s

timeout: 5s

retries: 5

postgres:

image: postgres:16

container\_name: AFFINE-DB

restart: on-failure:5

volumes:

- /volume1/docker/affine/db:/var/lib/postgresql/data:rw

healthcheck:

test: ["CMD", "pg\_isready", "-q", "-d", "affine", "-U", "affine"]

interval: 10s

timeout: 5s

retries: 5

environment:

POSTGRES\_USER: affineuser

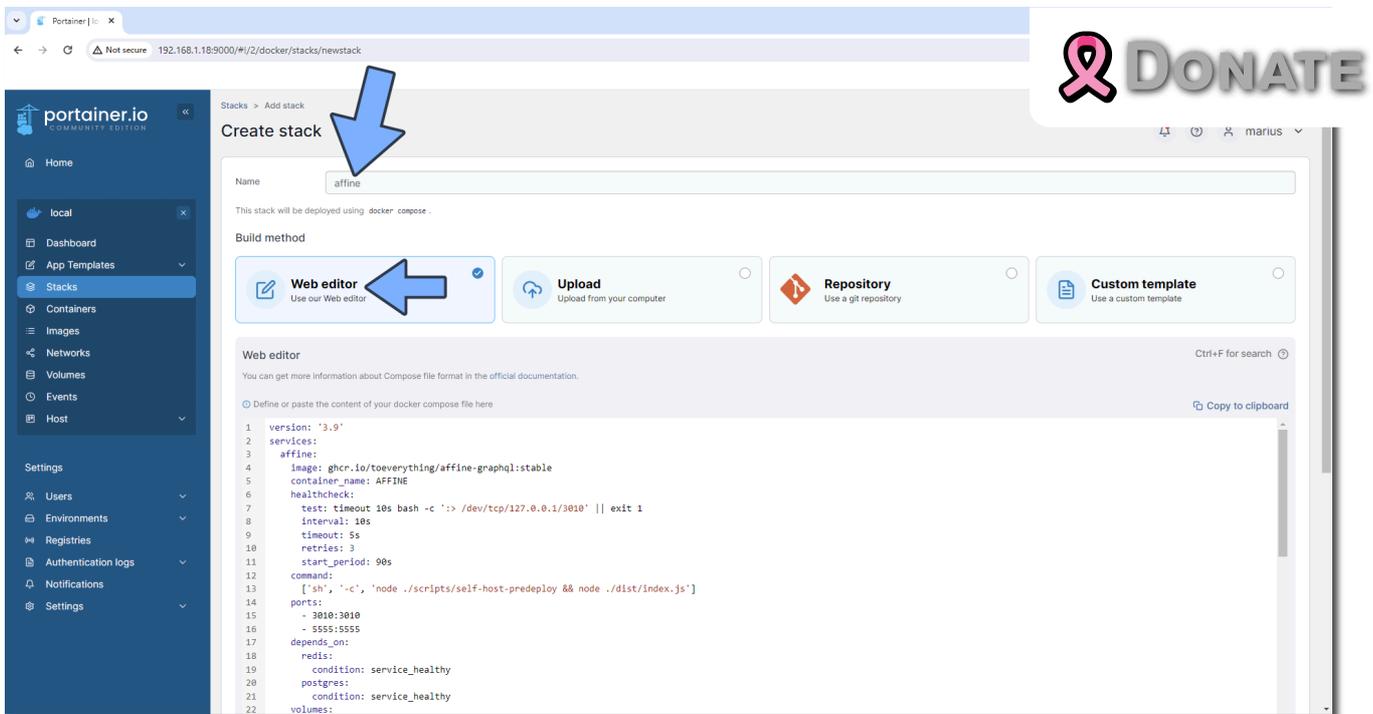
POSTGRES\_PASSWORD: affinepass

POSTGRES\_DB: affine

PGDATA: /var/lib/postgresql/data/pgdata

**Note:** Before you paste the code above in the Web editor area below, change the value for **AFFINE\_ADMIN\_EMAIL** and type in your own email address. You will need this email later at **STEP 23**.

**Note:** Before you paste the code above in the vweb editor area below, change the value for **AFFINE\_ADMIN\_PASSWORD** and type in your own affine password. You will need this password later at **STEP 24**.



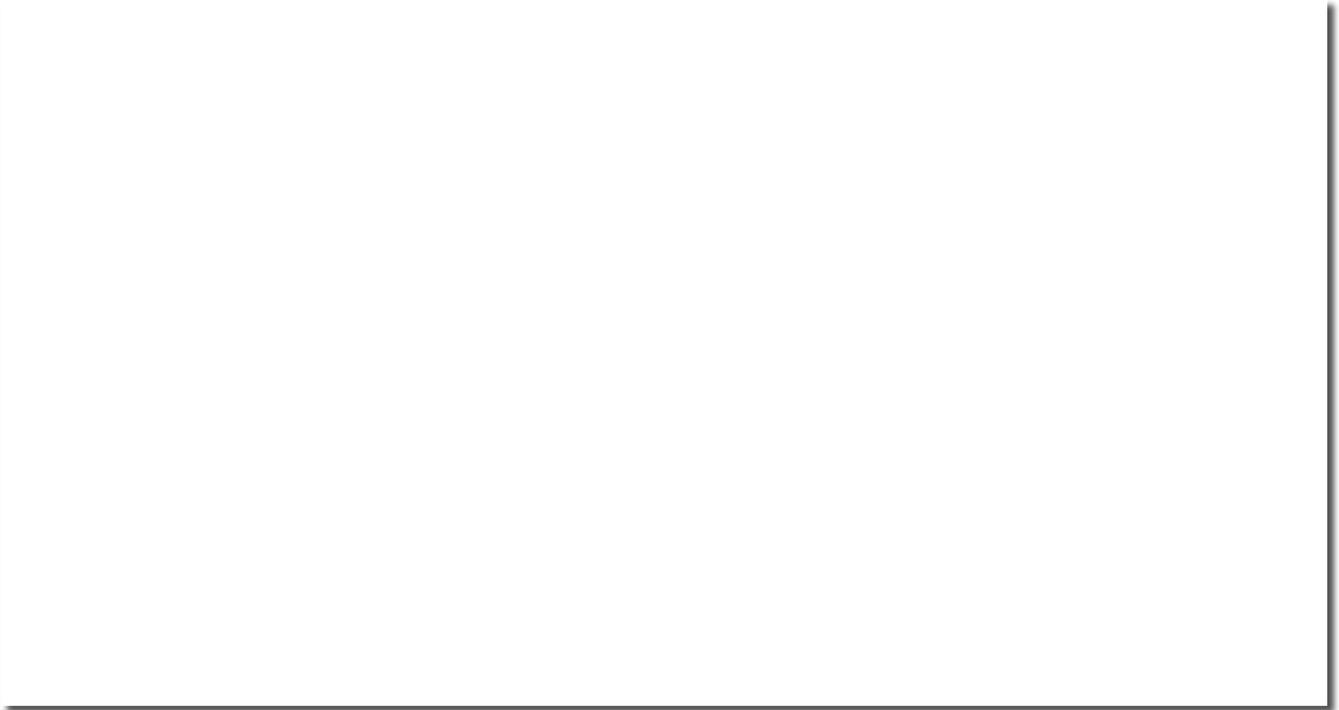
## ■ STEP 14

Scroll down on the page until you see a button called **Deploy the stack**. Click on it. Follow the instructions in the image below. The installation process can take up to a few minutes. It will depend on your Internet speed connection.

## ▪ **STEP 15**



If everything goes right, you will see this message at the top right of your screen: **“Success Stack successfully deployed”**.



## ▪ **STEP 16**

Go back to **STEP 1** or **you will deal with karma** 😊.

## ▪ **STEP 17**

Now open your browser and type in your HTTPS/SSL certificate like this **https://affine.yourname.synology.me** In my case it's **https://affine.mariushosting.synology.me** Click **Next**. Follow the instructions in the image below. ⚠ **Warning:** the **Next** button will appear after about one minute. Wait for it to appear.

- **STEP 18**

Click **Next**. Follow the instructions in the image below.

- **STEP 19**

Click **Next**. Follow the instructions in the image below.

- **STEP 20**

Click **Get Started**. Follow the instructions in the image below.

- **STEP 20**

Click **Got it!**. Follow the instructions in the image below.

- **STEP 21**

On the left sidebar, click **Demo Workspace**. Follow the instructions in the image below.

- **STEP 22**

Click **Sign up/ Sign in**. Follow the instructions in  
below.



- **STEP 23**

In the Email area, type in your own email address  
(**AFFINE\_ADMIN\_EMAIL**) that you have previously added at  
**STEP 13**. Click **Continue with Email**. Follow the instructions  
in the image below.

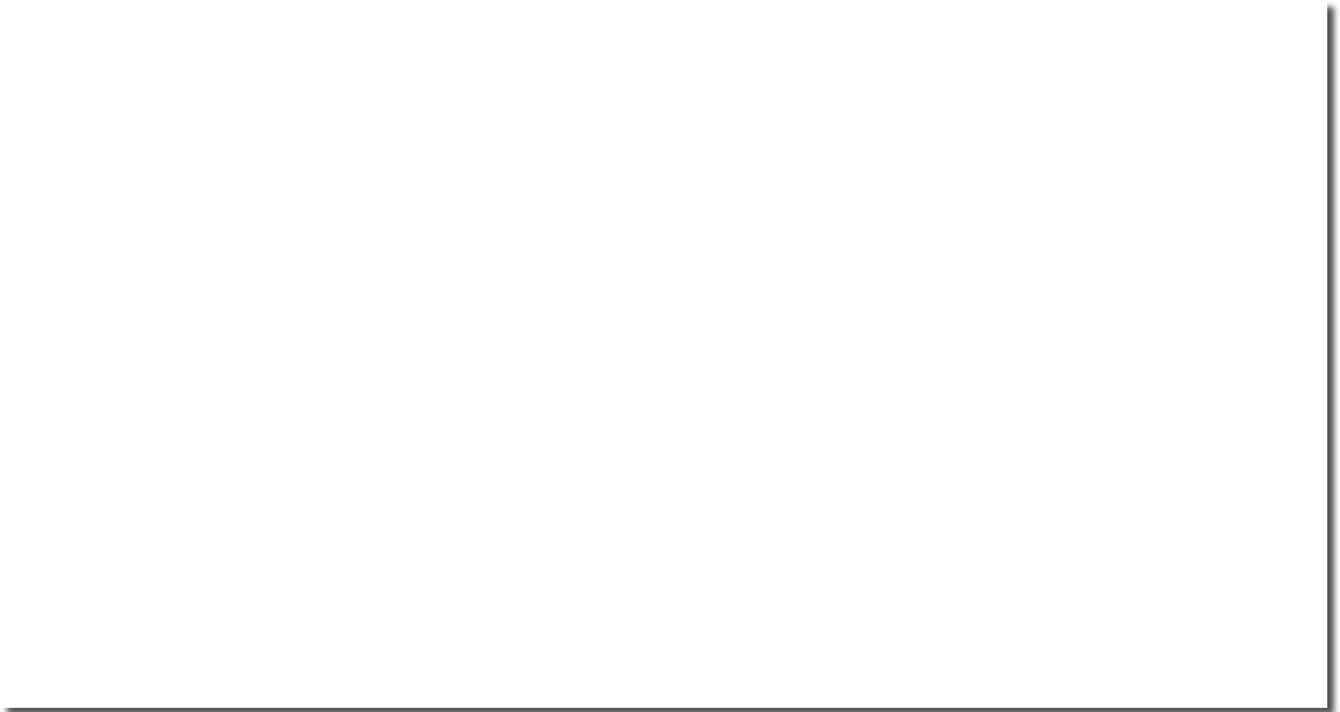
- **STEP 24**

In the Password area, type in your own password (**AFFINE\_ADMIN\_PASSWORD**) that you have previously added at **STEP 13**. Click **Sign in**. Follow the instructions in the image below.

- **STEP 25**



On the left sidebar, click **Settings**. Under **Appearance**, click **Dark** for the dark theme. Follow the instructions in the image below.



- **STEP 26**

Click on the **Demo Workspace**, then change your **workspace icon** and **name**. **Save** the settings. Follow the instructions in the image below.

- **STEP 27**

Your AFFiNE instance at a glance!

Enjoy Affine!

If you encounter issues by using this container, r  check out the [Common Docker issues](#) article.

**Note:** If you want to run the Affine container over HTTPS, check my guide on [How to Run Docker Containers Over HTTPS](#).

**Note:** Can I run Docker on my Synology NAS? [See the supported models](#).

**Note:** [How to Back Up Docker Containers on your Synology NAS](#).

**Note:** Find out [how to update the AFFiNE container](#) with the latest image.

**Note:** [How to Free Disk Space on Your NAS if You Run Docker](#).

**Note:** [How to Schedule Start & Stop For Docker Containers](#).

**Note:** [How to Activate Email Notifications](#).

**Note:** [How to Add Access Control Profile on Your NAS](#).

**Note:** [How to Change Docker Containers Restart Policy](#).

**Note:** [How to Use Docker Containers With VPN](#).

**Note:** [Convert Docker Run Into Docker Compose](#).

**Note:** [How to Clean Docker](#).

**Note:** [How to Clean Docker Automatically](#).

**Note:** [Best Practices When Using Docker and DDNS](#).

**Note:** [Some Docker Containers Need WebSocket](#).

**Note:** [Find out the Best NAS Models For Docker](#).

**Note:** [Activate Gmail SMTP For Docker Containers](#).

This post was updated on Friday / March 22nd, :  **DONATE**  
PM

 **I Need Your Help!**

 **Support my work**

**Marius Bogdan Lixandru**

mariushosting Is the Ideal Resource for Sysadmins & NAS Geeks

Copyright © 2019 – 2024 All Rights Reserved. No reproduction without permission.

[Cookie Policy](#) – [Privacy Policy](#) & [Disclaimer](#)

