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How to install a full ARR-stack on Synology NAS running DSM 7.2

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# Before we begin

## Info about TL;DR

The [TL;DR](#_TL;DR) comes before the main guide. For the best experience, skip this section and go to the [full guide](#_Preparations). The [TL;DR](#_TL;DR) only covers the installation, and NOT the [configs](#Configs) as they are too complex to put in a TL;DR. It also requires some knowledge on docker beforehand so you can edit the docker-compose to match your system.

## Legal Disclaimer

For legal reasons I must state that I do not condone illegal pirating of copyrighted material. This is made for educational purposes only. I expect that everyone who follows this guide will only use this for legal purposes. Please never ever use this to illegally download copyrighted material such as, but not limited to, movies and TV Shows.

## Introduction

Before we start let’s figure out your needs. Do you want to download movies, tv shows, music, e-books, comics or adult videos? Most likely you want a combination of a lot of them. We also need to figure out whether you want it to be connected to a VPN. Here is a break-down of all the apps and their use-cases:

## What are the \*arrs?

### From the wiki itself:

“Lidarr, Prowlarr, Radarr, Readarr, Sonarr, and Whisparr are collectively referred to as "\*arr" or "\*arrs". They are designed to automatically grab, sort, organize, and monitor your Music, Movie, E-Book, or TV Show collections for Lidarr, Radarr, Readarr, Sonarr, and Whisparr; and to manage your indexers and keep them in sync with the aforementioned apps for Prowlarr.”

### In Simple terms:

#### Prowlarr:

An index manager. This just means it searches for files to download on websites you assign it.

Radarr:

When Prowlarr find a movie file, it gives it to Radarr. Radarr then send it over to a download client, like QBitTorrent. After it’s done downloading, Radarr takes it away from QBItTorrent again and rename the file appropriately before it puts it inside your Media library.

Sonarr:

Same as Radarr, but for TV shows.

Lidarr:

Same as Radarr, but for music

Readarr:

Same as Radarr, but for e-books

Whisparr:

Same as Radarr, but for adult videos

Bazarr:

Connects with Radarr and Sonarr to download subtitles for your movies and TV shows.

Flaresolverr:

Bypasses cloudfare solver

Overseerr**:**

A requesting application where you browse or search for movies and TV shows, kinda like Netflix, and with a click of a button they start downloading to your own media collection!

Requestrr**:**

Goes together with Overseerr or Radarr and Sonarr to allow for requesting through discord chat.

#### Arr-stack:

The arr-stack just refers to a collection of these applications bundled and working together.

## All the different \*arr apps (and related ones that I know of)

**Prowlarr** – Index manager. It searches the torrent sites for downloads (Recommended for everyone)

**Flaresolverr** – Some indexers require you to solve a Cloudflare captcha. Flaresolverr can do this.

**Jackett** – Alternative to Prowlarr. Most find Prowlarr to be both easier to set up and better to use.

**Sonarr** – TV Shows/Anime Shows downloader.

**Radarr** – Movie downloader.

**Lidarr** – Music downloader.

**Readarr** – E-book downloader

**Mylar** – Comics downloader.

**Bazarr** – Subtitle downloader for your Movies and TV Shows.

**Lazy Librarian** – A program to follow authors and grab metadata for digital reading.

**Whisparr** – Adult videos downloader.

**GlueTUN** – Required for use of VPN

**Plex** – A frontend to your media server. It’s where you access all your media, in the style of something like Netflix. It also has a very good Spotify-like app called plexamp.

**Jellyfin** – Also a frontend to your media server. Jellyfin is, in contrast to Plex, open-source. This means that all of it’s features is and always will be free, but it also means that it doesn’t have the same funding and therefore might not have all of the features Plex has.

**Overseerr** – Allows for easy requesting of movies and TV shows to add to Plex.

**Jellyseerr** – Same as Overseer but for Jellyfin.

**Ombi** – App to request Movies and TV Shows for plex or Emby.

**Requestrr** – Allows for requests for Sonarr and Radarr via chat, like Discord. It can also be integrated with Ombi and Overseer.

**qBitTorrent** – Torrent download client.

**NZBGet** – NZB download client.

**Tautulli** – Plex media server statistics

There are even more, but I have not gotten into these myself. These are the ones I have atleast some knowledge about.

## The apps I will cover in this guide

I would like to cover as many as possible, but I have not used or tried some of them myself. I host on Plex, so I use Overseer, and have not tried neither Jellyseer or Ombi. Even though I’m pretty sure Jellyseer is the exact same just for Jellyfin. But you should always read the official docs yourself. Anyway, the apps I will go over is:

* GlueTUN
* Prowlarr
* Flaresolverr
* Sonarr
* Radarr
* Lidarr
* Overseer
* Requestrr
* qBitTorrent
* Tautulli

## Hardware specs

I am running all this on a DS423+, with an extra 16GB memory stick and 512GB SSD cache. I have not tested it myself on any other devices, but I have made a few google searches and asked ChatGPT for some help to determine the systems requirements. Therefore, I ask you to take these number with a grain of salt.

### Minimum requirements

#### CPU

A quad-core 64bit CPU with x86 architecture. (Docker can only run on x86, and not any ARM CPUs natively. You might be able to still try this out, but you will have to do some workarounds.) An Intel Celeron J4105 or Intel Celeron J4125 should be sufficient for basic use.

#### RAM

4GB RAM (reported by ChatGPT). I think it might be able to run on 2GB for low, basic use. But don’t expect the best performance

#### Storage

These apps don’t take up more than 2GB-5GB for database and configs.

A 2-hour movie in 480p will take 700MB-2GB space, and 3GB-6GB in 720p. A 12-episode TV show with 45 minutes long episodes will take 4GB-10GB in 480p and 12GB-27GB in 720p

### Recommended requirements

#### CPU

Intel Celeron J4125 or higher. For best performance, Intel Core i3/i5 or AMD equivalent. But since most will probably run this on a Synology, the J4125 or better is sufficient.

#### RAM

8GB RAM. For best performance, an upgrade to 16GB will make it a lot smoother.

#### Storage

A 2-hour long movie in 1080p will take 8GB-15GB storage space, and in 4k it will be about 20GB-50GB. A 12-episode show with 45 minutes long episodes will take up 35GB-60GB in 1080p and 90GB-225GB in 4k.

## Recommended NAS models for this setup

Since I assume most people will use a Synology NAS, as this is what this guide was meant for, I will list some recommendations.

### Minimum

* **Synology DS220+**
* CPU: Intel Celeron J4025 (dual-core)
* RAM: 2GB (expandable to 6GB)
* Suitable for running a few applications simultaneously with small to medium libraries.
* **Synology DS720+**
* CPU: Intel Celeron J4125 (quad-core)
* RAM: 2GB (expandable to 6GB)
* Great for small to mid-size media libraries, running Docker containers, and handling multiple tasks at once.

### Recommended

* **Synology DS920+**
* CPU: Intel Celeron J4125 (quad-core)
* RAM: 4GB (expandable to 8GB)
* Supports SSD caching, making it a solid choice for heavier workloads like streaming, transcoding, and multiple apps running concurrently.
* **Synology DS423+**
* CPU: Intel Celeron J4125 (quad-core)
* 2GB RAM (Recommended to upgrade to at least 4GB or 6GB)
* 4-bay NAS with support for 2 NVME drives
* **Synology DS1821+**
* CPU: AMD Ryzen V1500B (quad-core)
* RAM: 4GB (expandable to 32GB)
* 8-bay NAS with strong processing power for large libraries and heavy multitasking.

### Models to avoid

#### Low-End ARM-Based NAS Models

* **Synology DS216j** (Marvell Armada 385, dual-core 1.0GHz, 512MB)
* **Synology DS218j** (Marvell Armada 385, Dual-Core 1.3 GHz, 512 MB RAM)
* **Synology DS219j** (Marvell Armada 3720, Dual-core 800 MHz, 256 MB RAM)
* **Synology DS220j** (Realtek RTD1296, Quad-Core 1.4 GHz, 512 MB RAM)

##### Why not:

* **CPU**: These models come with weak, low-power ARM processors that are not suited for running multiple Docker containers or handling tasks like torrenting and media management.
* **RAM**: Most of these devices have **512 MB RAM or less**, which is far too little for running multiple services in Docker.
* **Docker Support**: ARM-based models may not fully support Docker, especially for complex workloads, and will struggle with performance under even light to moderate use.

#### Models with Less Than 2 GB RAM

* **Synology DS220j** (512 MB RAM)
* **Synology DS218play** (1 GB RAM)
* **Synology DS218** (2 GB RAM)
* **Synology DS118** (1 GB RAM)

##### Why not:

* **Insufficient RAM**: Apps like **Overseerr** and **qBittorrent** require more memory, and these models would quickly run out of resources. With less than 2 GB, you'll experience poor performance, constant swapping to disk, or the inability to run all your containers simultaneously.
* **No Upgrade Path**: Many of these models do not allow you to upgrade the RAM, so you're stuck with what they offer.

#### Older/Legacy Models

* **Synology DS214+** (Dual-core 1.33 GHz, 1 GB RAM)
* **Synology DS415play** (Intel Atom CE5335, Dual-core 1.6 GHz, 1 GB RAM)
* **Synology DS216play** (ARM Cortex-A9, Dual-core 1.5 GHz, 1 GB RAM)

##### Why not:

* **Outdated CPU architecture**: These older CPUs lack the power and modern architecture needed for virtualization and handling Docker workloads.
* **RAM limitations**: Even if some of these have x86 architecture, 1 GB or even 2 GB of RAM is not sufficient for your use case.

#### Single-Bay NAS Models

* **Synology DS118** (Realtek RTD1296, Quad-core 1.4 GHz, 1 GB RAM)
* **Synology DS119j** (Marvell Armada 3700, Dual-core 800 MHz, 256 MB RAM)

##### Why not:

* **Low performance**: These single-bay models come with very basic hardware, meaning you’ll struggle to run Docker and multiple applications.
* **No redundancy**: With only one drive, there’s no data redundancy (no RAID), which is a concern when managing large amounts of media files.

#### Models without integrated graphics

* Synology DS923+ (AMD Ryzen R1600, Quad-core 2.6GHz, 4GB RAM)
* Synology DS 1522+ (AMD Ryzen R1600, Quad-core 2.6GHz, 8GB RAM)

##### Why not:

* **No integrated graphics**: Although these can work just fine, they are not ideal as you won’t be able to do hardware transcoding. For native playback of h264 files these can be perfect.

#### What you need instead

To run this full arr-stack smoothly on Docker, aim for:

* **x86-64 architecture** (with embedded graphics)
* **Minimum 4 GB RAM**, ideally **8 GB or more**.
* **Expandable RAM** for future growth.
* **At least dual-bay** for RAID redundancy.

# TL;DR

If you don’t want to read all that, just do this:

1. Create these folder inside /volume1/docker/arr-stack:

* gluetun
* lidarr > config
* overseer > config
* prowlarr > config
* qbittorrent > config, downloads
* radarr >config
* requestrr > config
* sonar > config

1. SSH into your NAS and type these commands

* sudo chmod -R 777 /volume1/Media
* sudo chown -R < UID>:< GID> \volume1\Media
* id

Take note of GID and UID output from id command.

1. Go to Task Scheduler and create a trigger task on start-up to run this script:
2. #!/bin/sh -e
3. insmod /lib/modules/tun.ko
4. Create a firewall rule to allow port 1194 and 1195
5. Go to think link: <https://www.blackvoid.club/wireguard-spk-for-your-synology-nas/>. Find the correct version for your system and manually install the .spk file in package cener. Don’t run when finished. Reboot afterwards
6. SSH into your device and type this command:
7. /var/packages/WireGuard/scripts/start
8. Find out how to configure GlueTUN for your VPN provider:

<https://github.com/qdm12/gluetun-wiki/tree/main/setup/providers>

1. Create a new network inside container manager:

Configure the network like this:

* Subnet: 172.20.0.0/16
* IP range: 172.20.0.2/25
* Gateway: 172.20.0.1
* IPv6: Disabled
* IP Masquerade: enabled (Leave the “disable” option unticked)

1. Create a new docker project. Path should be /volume1/docker/arr-stack. Paste this docker-compose.yml wand make necessary changes:
2. version: "3"
3. services:
4. gluetun:
5. image: qmcgaw/gluetun
6. container\_name: gluetun
7. hostname: gluetun
8. cap\_add:
9. - NET\_ADMIN
10. devices:
11. - /dev/net/tun:/dev/net/tun
12. ports:
13. - 6881:6881
14. - 6881:6881/udp
15. - 8085:8085 # qbittorrent
16. - 8989:8989 # Sonarr
17. - 9696:9696 # Prowlarr
18. - 7878:7878 # Radarr
19. - 8686:8686 #Lidarr
20. - 8191:8191 #FlareSolverr
21. - 5055:5055 #Overseerr
22. - 4545:4545 #Requestrr
23. volumes:
24. - \volume1\docker\arr-stack\gluetun:/gluetun
25. environment:
26. - VPN\_SERVICE\_PROVIDER=mullvad
27. - VPN\_TYPE=wireguard
28. - VPN\_DISABLE\_IPV6=true
29. # OpenVPN:
30. # - OPENVPN\_USER=
31. # - OPENVPN\_PASSWORD=
32. # Wireguard:
33. - WIREGUARD\_PRIVATE\_KEY= iExD5V5kkXnh+40dyo/PmCL1aus8eNBdHQMWergYFWo=
34. - WIREGUARD\_ADDRESSES=10.72.171.113/32
35. - DNS=10.64.0.
36. - SERVER\_HOSTNAMES=se-sto-wg-001,se-sto-wg-002,se-sto-wg-003,se-sto-wg-004
37. - SERVER\_CITIES=stockholm
38. - HTTPPROXY=off #change to on if you wish to enable
39. - SHADOWSOCKS=off #change to on if you wish to enable
40. # Timezone for accurate log times
41. - TZ=Europe/Oslo
42. # Server list updater
43. # See https://github.com/qdm12/gluetun-wiki/blob/main/setup/servers.md#update-the-vpn-servers-list
44. - UPDATER\_PERIOD=24h
45. - FIREWALL\_OUTBOUND\_SUBNETS=172.20.0.0/192.168.0.0/24 #change this in line with your subnet see note on guide
46. #      - FIREWALL\_VPN\_INPUT\_PORTS=12345 #uncomment or remove this line based on the notes below
47. network\_mode: synobridge
48. labels:
49. - com.centurylinklabs.watchtower.enable=false
50. security\_opt:
51. qbittorrent:
52. image: lscr.io/linuxserver/qbittorrent
53. container\_name: qbittorrent
54. network\_mode: "service:gluetun"
55. environment:
56. - PUID=1026
57. - PGID=100
58. - TZ=Europe/Oslo
59. - WEBUI\_PORT=8085
60. - UMASK=022
61. volumes:
62. - /volume1/docker/arr-stack/qbittorrent/config:/config
63. - /volume1/Media/Torrents:/Media/Torrents
64. depends\_on:
65. gluetun:
66. condition: service\_healthy
67. security\_opt:
68. - no-new-privileges:true
69. restart: always
70. sonarr:
71. image: lscr.io/linuxserver/sonarr:latest
72. container\_name: sonarr
73. network\_mode: "service:gluetun"
74. environment:
75. - PUID=1026
76. - PGID=100
77. - TZ=Europe/Oslo
78. volumes:
79. - /volume1/docker/arr-stack/sonarr/config:/config
80. - /volume1/Media:/Media
81. depends\_on:
82. gluetun:
83. condition: service\_healthy
84. restart: unless-stopped
85. prowlarr:
86. image: lscr.io/linuxserver/prowlarr:latest
87. container\_name: prowlarr
88. network\_mode: "service:gluetun"
89. environment:
90. - PUID=1026
91. - PGID=100
92. - TZ=Europe/Oslo
93. volumes:
94. - /volume1/docker/arr-stack/prowlarr/config:/config
95. depends\_on:
96. gluetun:
97. condition: service\_healthy
98. restart: unless-stopped
99. radarr:
100. image: lscr.io/linuxserver/radarr:latest
101. container\_name: radarr
102. network\_mode: "service:gluetun"
103. environment:
104. - PUID=1026
105. - PGID=100
106. - TZ=Europe/Oslo
107. volumes:
108. - /volume1/docker/arr-stack/radarr/config:/config
109. - /volume1/Media:/Media
110. depends\_on:
111. gluetun:
112. condition: service\_healthy
113. restart: unless-stopped
114. lidarr:
115. image: lscr.io/linuxserver/lidarr:latest
116. container\_name: lidarr
117. network\_mode: "service:gluetun"
118. environment:
119. - PUID=1026
120. - PGID=100
121. - TZ=Europe/Oslo
122. volumes:
123. - /volume1/docker/arr-stack/lidarr/config:/config
124. - /volume1/Media:/Media
125. depends\_on:
126. gluetun:
127. condition: service\_healthy
128. restart: unless-stopped
129. flaresolverr:
130. image: ghcr.io/flaresolverr/flaresolverr:latest
131. container\_name: flaresolverr
132. network\_mode: "service:gluetun"
133. environment:
134. - TZ=Europe/Oslo
135. depends\_on:
136. gluetun:
137. condition: service\_healthy
138. security\_opt:
139. - no-new-privileges:true
140. restart: unless-stopped
141. overseerr:
142. image: sctx/overseerr:latest
143. container\_name: overseerr
144. network\_mode: "service:gluetun"
145. environment:
146. - LOG\_LEVEL=debug
147. - TZ=Europe/Oslo
148. volumes:
149. - /volume1/docker/arr-stack/overseer/config:/app/config
150. depends\_on:
151. gluetun:
152. condition: service\_healthy
153. restart: unless-stopped
154. requestrr:
155. image: darkalfx/requestrr
156. container\_name: requestrr
157. network\_mode: "service:gluetun"
158. volumes:
159. - /volume1/docker/arr-stack/requestrr/config:/root/config
160. depends\_on:
161. gluetun:
162. condition: service\_healthy
163. restart: unless-stopped

11. For config of apps, I can’t really put it in a TL;DR. Chek out the [full guide](#Configs), or find out yourself on the official docs.

# Preparations

## Folder Structure

I assume you have Installed container manager (docker) on your Synology system already, but if not do that now. Then we need to go into our “docker” shared folder and make some new folder.

Inside the “docker” shared folder, create a folder an call it something like “arr-stack”

Inside “arr-stack”, create these folders:

* gluetun
* lidarr
* overseer
* prowlarr
* qbittorrent
* radarr
* requestrr
* sonar
* tautulli
* nzbget (Optional if you want to use usenet. NOTE: It cost money to join a usenet site)

If you have any other apps beside these, create a folder for them too as described in the official docs.

Create a folder called “config” inside lidarr, overseer, prowlarr, qbittorrent, radar, requestrr, sonarr and tautulli.

Create a new shared folder for housing your media. You can call this Data or Media. Within this shared library, you need another folder where you put the actual media. You can call this Media. In “/volume1/Media/Media” you create a folder for movies, tv shows, anime, music and whatever else you would like. Go back to “/volume1/Media” and create a folder called “torrents.” This is where we download our torrent files with qBitTorrent. Inside it create “Incomplete” and “Complete”. If you want to use Usenet, you can create folder called “usenet” with “Complete” and “Incomplete” inside it.

### The folder structure should look like this:

#### Media

├── Torrents

│ ├── Incomplete

│ └── Complete

├── Usenet

│ ├── Incomplete

│ └── Complete

│ ├── Movies

│ ├── Music

| ├── Anime TV Shows

│ └── TV Shows

└── Media

├── Movies

├── Music

├── Anime TV Shows

└── TV Shows

#### Docker

└───arr-stack

├──bazarr

│ └── config

├── gluetun

├── lidarr

│ └── config

├── nzbget (Optional)

│ └── config

├── overseer

│ └── config

├── prowlarr

│ └── config

├── qbittorrent

│ └── config

├── radarr

│ └── config

├── requestrr

│ └── config

├── sonarr

│ └── config

└── tautulli

└── config

## Setting permissions

To make sure that all the apps have the right permissions to read and write the relevant folder, we need to ssh into the NAS. I prefer PuTTY, but you can use powershell or anything else that you like.

1. SSH into your NAS
2. Type the following 2 commands:

* sudo chmod -R 777 /volume1/Media/Media
* sudo chmod -R 777 /volume1/Media/Torrents

1. Find your UID and GID

* Type: id

1. You should get an output like this:



As you can see, we get an output with uid=XXXX and gid=YYY.

1. Type the following 2 commands:

* sudo chown -R <UID>:<GID> /volume1/Media/Media
* sudo chown -R <UID>:<GID> /volume1/Media/Torrents

**NOTE:** If you have your Media library at another location than “/volume1/Media”, then put your path in the 2 relevant commands.

These commands ensure that we have the correct permissions to read and write the files of the directories and their subdirectories.

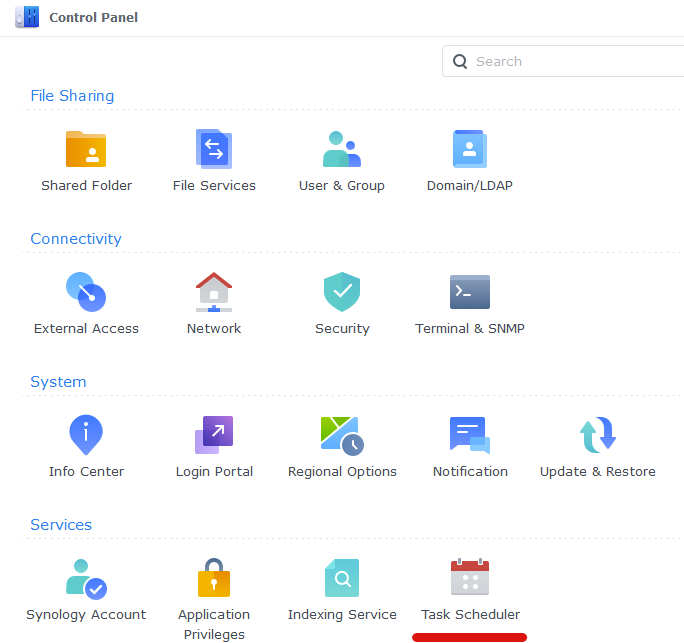
# The installation

Now that we have our folder structure ready, let’s begin with the actual installation.

## Setting up the start up script for glueTUN

For glueTUN to start up automatically, we need to create a task on a schedule.

1. Open up control panel, then click on Task Scheduler.



1. Next click on Create, Triggered Task then User Defined Script.

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Automatisk generert beskrivelse

1. Now enter a name for the script. It doesn’t matter what you choose The user **must** be ‘root’ and ‘Boot-up’ for the Event. Don’t click OK yet.

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Automatisk generert beskrivelse

1. On the Task Settings tab copy and paste the code below in the ‘User-Defined script’ section. It will look like screenshot

On the Task Settings tab copy and paste the code below in the ‘User-Defined script’ section:

#!/bin/sh -e

insmod /lib/modules/tun.ko

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Automatisk generert beskrivelse

1. You can now press OK and agree to the warning message. Next run the script which will enable the TUN device.

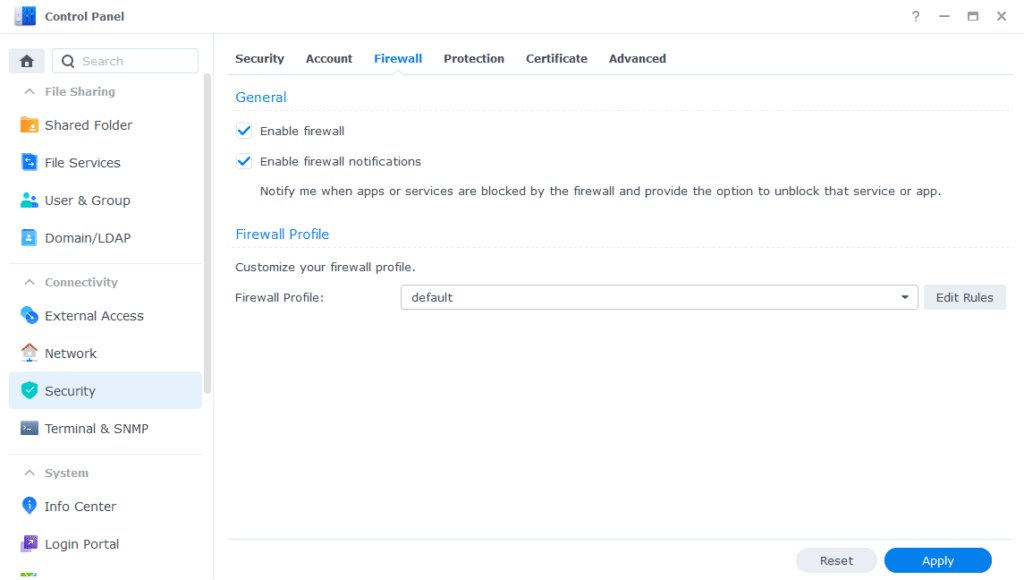
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Automatisk generert beskrivelse

## Firewall rules (if you have firewall set up)

If you have firewall rules set up on your synology to block all outgoing connections, we need to make some exception rules.

Go into Control Panel > Security > Firewall



Click on Edit Rules and then click on “Create”

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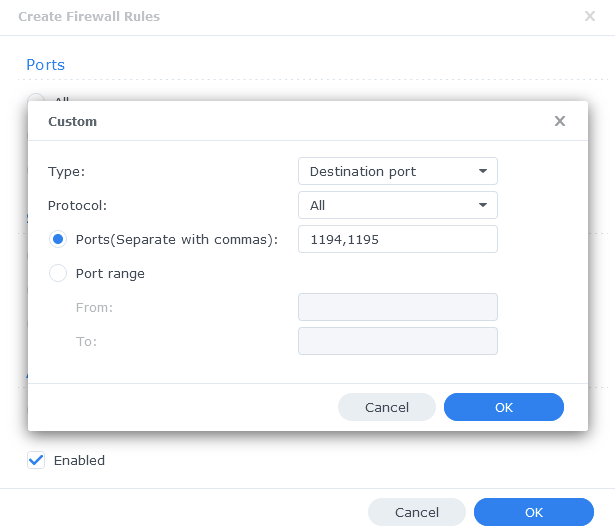
Automatisk generert beskrivelse

On the “Ports” section, select “Custom”

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Automatisk generert beskrivelse

On the screen that appears select the Type as “Destination Port” and Protocol as “All”. In this example I am going to open up both 1194 and 1195 as some providers use UDP and some TCP and these are the most commonly used ports.



Click on OK. Leave the “Source IP” as “All” and “Action” as “Allow”, then “OK” again to apply.

## WireGuard Kernel Module

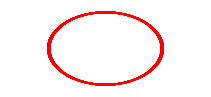
The WireGuard kernel module is not necessary, but it does lower the CPU usage a little bit. This in turn allows for better performance, better efficiency and lower electricity bills.

“The default Gluetun Wireguard setup uses a ‘Userspace’ implementation of Wireguard which normally should not use much from a CPU resource perspective. However, on Synology it tends to require high CPU utilisation. For example a 40MiB download via qBittorrent uses up to 176% in CPU (1.7 Cores) on my 1821+.”

(DrFrankenstein’s Tech Stuff)

[BlackVoid.club](https://www.blackvoid.club/) have put together a Kernel Module for Synology which allows Gluetun to use the lower level Kernel to perform Wireguard duties.

1. Open this link: <https://www.blackvoid.club/wireguard-spk-for-your-synology-nas/>
2. Find your model of NAS under the correct DSM version section (If you are following this guide it will be 7.2) and download the pre compiled .spk file
3. Head into Package Center and click ‘Manual Install’ on the top right and install the .spk file and **untick** the box to run after install

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Automatisk generert beskrivelse

1. Reboot
2. SSH Into your NAS using PuTTY, powershell or any other SSH client and elevate yourself to root by typing “sudo -I” and entering your password
3. Enter this command and press enter to start up the module

/var/packages/WireGuard/scripts/start

## Creating a Synology bridge network

As default, there is already a bridge network in container manager for Synology. The problem with the default one is that the Ips it assigns are not static, and therefore may change. This is fine for single containers that don’t communicate with each other, but when connecting multiple containers with IPs the IP address need to always stay the same. To remedy this we will create our own bridge network.

1. Open up container manager and click on the network tab to the left.
2. Click “Add” at the top
3. Configure the network like this:

* Subnet: 172.20.0.0/16
* IP range: 172.20.0.2/25
* Gateway: 172.20.0.1
* IPv6: Disabled
* IP Masquerade: enabled (Leave the “disable” option unticked)

## Docker project

Now we are ready to create the project. A docker project is just a collection of multiple docker containers.

1. Open “container manager” and head to the “Project” tab.
2. Click create
3. Give the project a name. I chose “arr-stack”
4. Set the path to be “docker > arr-stack” (should say “\docker\arr-stack”)
5. As source, select “Create docker-compose.yml”

Now this next step will be just a little bit different for everyone. What you will put in the docker-compose, will depend on what apps you plan to use and what VPN provider you have if you will use glueTUN. But don’t worry, as you can always come back to the project and edit the docker-compose to add more apps, or to fix any potential problems that may occur. I will try my best to explain what each section does, and if it is relevant to you or not.

### Required

Everyone will need to start the docker-compose out like this:

version: "3"

services:

Then under services we will add all of our apps and configs to each app.

### GlueTUN:

  gluetun:

    image: qmcgaw/gluetun

    container\_name: gluetun

    hostname: gluetun

    cap\_add:

      - NET\_ADMIN

    devices:

      - /dev/net/tun:/dev/net/tun

    ports:

      - 6881:6881

      - 6881:6881/udp

#      - Add all other ports required by the different apps here

    volumes:

      - <path\to\your\gluetun>:/gluetun

    environment:

      - VPN\_SERVICE\_PROVIDER=<your provider>

      - VPN\_TYPE=<wireguard or openvpn>

      # OpenVPN:

      # - OPENVPN\_USER=

      # - OPENVPN\_PASSWORD=

      # Wireguard:

      - WIREGUARD\_PRIVATE\_KEY=<your-private-key>

      - WIREGUARD\_ADDRESSES=<your-wireguard-adress>

      - DNS=<your-wireguard-dns>

      - SERVER\_HOSTNAMES=<your-hostnames>

      - SERVER\_CITIES=<your-cities>

      - HTTPPROXY=off #change to on if you wish to enable

      - SHADOWSOCKS=off #change to on if you wish to enable

      # Timezone for accurate log times

      - TZ=<your-timezone>

      # Server list updater

      # See https://github.com/qdm12/gluetun-wiki/blob/main/setup/servers.md#update-the-vpn-servers-list

      - UPDATER\_PERIOD=24h

      - FIREWALL\_OUTBOUND\_SUBNETS=<synobridge-subnet>/16,<host-machine-subnet>/24 #change this in line with your subnet see note on guide

#      - FIREWALL\_VPN\_INPUT\_PORTS=12345 #uncomment or remove this line based on the notes below

    network\_mode: synobridge

    labels:

      - com.centurylinklabs.watchtower.enable=false

    security\_opt:

      - no-new-privileges:true

    restart: always

We have a lot to unpack here.

#### Ports

It is in the “ports:” section we put in all the ports we are going to use. When we look at each of the official docker-compose.yml to all the different apps, they have their ports listed under their own service. However, since we are going to use a VPN, we need it to be in the glueTUN network.

#### Volumes

Here we put the path to the folder we made earlier. If you only have one volume on your synology and followed the same naming scheme as me, it should be “\volume1\docker\arr-stack\gluetun”. Then we mount it as “\gluetun” by adding a “:”. So the full volume mapping should be “\volume1\docker\arr-stack\gluetun:\gluetun”.

#### Environment

It’s in the environment we put in all the config settings.

##### VPN Service provider

In the “VPN\_SERVICE\_PROVIDER” you fill in your provider.

Here you can see a list of all the supported providers, as well as how to configure them:  
<https://github.com/qdm12/gluetun-wiki/tree/main/setup/providers>

As I have used both Mullvad and AirVPN, those are what I will show in detail how to setup.

You can also choose whether to use the WireGuard or OpenVPN protocol. In this example, we are using WireGuard as that is what I have found to work best.

If you don’t use Mullvad or AirVPN, you have to find out yourself how to configure GlueTUN for your provider, as well as figure out how to find that information to put it. ChatGPT will be your friend here. But if you are using either Mullvad or AirVPN, you can follow my guide:

###### Mullvad

1. Go to this link and put in your account number: <https://mullvad.net/no/account/wireguard-config>
2. Click on “Generate Key” **Note:** The displayed key is NOT the private key.
3. Choose a country, city and then the servers you wish to use. I have selected Sweden, Stockholm and all servers.
4. Click “Download zip-archive”

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1. Inside the zip file, you will find a bunch on .conf files. (Might be .json files) Open these in notepad.
2. You only need one of them, as the relevant information is the same in every single one. You need to look at your [Interface] section and copy your “PrivateKey” as well as “Address” and “DNS”.

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So for this example I would have to use:

“iExD5V5kkXnh+40dyo/PmCL1aus8eNBdHQMWergYFWo=” as my private key,

“10.72.171.113/32” as my address and

“10.64.0.1” as my DNS.

1. Also take note of the filenames. They should be something like “se-sto-wg-001.conf”, where “se” is the country, “sto” the city and “wg” the protocol. So, for me it’s Sweden, Stockholm, WireGuard.

###### AirVPN

1. Login to AirVPN and head over to “Client Area”. Click on “Manage” under “VPN Devices”. Or you can click this link:

<https://airvpn.org/devices/>

1. Click on “Add new device”. Call it something you will remember. For me, I went with GlueTUN. The name doesn’t really matter.
2. Head back to “Client Area”, and this time select “Config Generator”. Or follow this link: <https://airvpn.org/generator/>
3. Select Linux as OS and WireGuard as Protocol. Select the server you want to use. For simplicity, I will just go for “Cepheus” in Norway. Scroll all the way down and click on “Generate.” A download of a text file should start. If you have selected multiple server, you might need to scroll all the way up where you will find a download for each one.
4. The .conf text file should look kind of like this (Not my actual details, I changed them)

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Now we can start to fill in the information in our docker-compose variables:

 - VPN\_SERVICE\_PROVIDER=airvpn

      - VPN\_TYPE=wireguard

      # OpenVPN:

      # - OPENVPN\_USER=

      # - OPENVPN\_PASSWORD=

      # Wireguard:

      - WIREGUARD\_PRIVATE\_KEY=iEIR+vLDwV9KSqC+j1VxolEZ4WhlHvDMXIv20AwKXFw=

      - WIREGUARD\_PRESHARED\_KEY=//QhNVyHOGTXOB0by0sZ/OZj9PSTwFZ8yI6OiDg+6OY=

      - WIREGUARD\_ADDRESSES=10.184.194.25/32

      - DNS=10.128.0.1,1.1.1.1,fd7d:76ee:e68f:a993::1

      - SERVER\_HOSTNAMES=

      - SERVER\_REGIONS=Europe

      - SERVER\_COUNTRIES=Norway

      - SERVER\_CITIES=Oslo

If you want to, you can do like me and add more DNS servers. I also added CloudFares 1.1.1.1. Just remember to separate it with a “,”(comma). Same goes for the server regions, countries and cites. If you have multiple, list all of them with a “,”(comma) separating each one. Kind of like this:

      - SERVER\_COUNTRIES=Norway,Sweden,Denmark

Now we just need to find out our server hostname(s). It does not say in the config file, so to find the server hostname we will have to go to github and look at the source code:

<https://raw.githubusercontent.com/qdm12/gluetun/refs/heads/master/internal/storage/servers.json>.

Use ctrl+f (Search) and search for your server name. For me it was “Cepheus”. For “Cepheus” we have 6 results. You can find the hostname under: "hostname": "no3.ipv6.vpn.airdns.org". So for this server it is “no3.ipv6.vpn.airdns.org”. Select as many as you want, I would say atleast 2-3 so if one goes offline you won’t get disconnected, then put them in the docker-compose with comma separating each one.

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##### Proxy

If you are using a proxy, you can enable httpproxy and shadowsocks. I have not used it, and will therefore not go over that now.

##### Timezone

In the timezone you just put in your own timezone. To find your TZ format, find your region in this list:  
<https://en.wikipedia.org/wiki/List_of_tz_database_time_zones>

#### Firewall Outbound Subnets

In this line:

“FIREWALL\_OUTBOUND\_SUBNETS=<your-bridge-subnet>/,<your-host-subnet>”

We need to change the first IP to the one we just made for our synobridge. If you followed me, it will be 172.20.0.0/16. Then we will need to fill in our host machines subnet,

We have a few choices on how to identify it. If you are connected to the same network on your PC or phone, you can just figure out your IP address on your device of choice. So for PC, open “cmd” and type “ipconfig”. Look for IPv4 section.

If you have a iPhone, you can open settings >Wi-Fi > i (next to the Wi-Fi named) then scroll down to find “IPv4 address.” There should be a “IP Adress” field there.

The IPv4 address will probably be something like this “192.168.X.X”. Take the first 3 digits, e.g. “192.168.0” or whatever you have, then replace the last digit with a 0. So if your IP address on your phone is “192.168.0.53” the subnet would be “192.168.0.0”. Then we just add the network mask at the end. If you don’t know what that means, it’s probably /24 at the end, so the full subnet is “192.168.0.0/24”.

So my line would look like this:

“FIREWALL\_OUTBOUND\_SUBNETS=172.20.0.0/16,192.168.0.0/24”

#### Network\_mode

We just need to specify it to use the network we created earlier. Leave it as is.

#### labels:

#### - com.centurylinklabs.watchtower.enable=false

#### security\_opt:

#### - no-new-privileges:true:

These lines just makes it so Watchtower doesn’t update it automatically. The reason we don’t want it to update is because it will break the whole arr-stack each time. So best practice would be to just leave it in.

#### Restart: always

This line tells the container to restart if it shuts down unexpectedly.

#### Full GlueTUN docker-compose.yml

With all of the info above, I now need you to make the appropriate edits for your docker-compose. This will be mine for this example:

gluetun:

    image: qmcgaw/gluetun

    container\_name: gluetun

    hostname: gluetun

    cap\_add:

      - NET\_ADMIN

    devices:

      - /dev/net/tun:/dev/net/tun

    ports:

      - 6881:6881

      - 6881:6881/udp

#      - 8888:8888/tcp # HTTP proxy

#      - 8388:8388/tcp # Shadowsocks

#      - 8388:8388/udp # Shadowsocks

      - 8085:8085 # qbittorrent

      - 8989:8989 # Sonarr

      - 9696:9696 # Prowlarr

      - 7878:7878 # Radarr

      - 8686:8686 #Lidarr

      - 8191:8191 #FlareSolverr

      - 5055:5055 #Overseer

      - 4545:4545 #Requestrr

    volumes:

      - \volume1\docker\arr-stack\gluetun:/gluetun

    environment:

      - VPN\_SERVICE\_PROVIDER=mullvad

      - VPN\_TYPE=wireguard

      - VPN\_DISABLE\_IPV6=true

      # OpenVPN:

      # - OPENVPN\_USER=

      # - OPENVPN\_PASSWORD=

      # Wireguard:

      - WIREGUARD\_PRIVATE\_KEY= iExD5V5kkXnh+40dyo/PmCL1aus8eNBdHQMWergYFWo=

      - WIREGUARD\_ADDRESSES=10.72.171.113/32

      - DNS=10.64.0.

      - SERVER\_HOSTNAMES=se-sto-wg-001,se-sto-wg-002,se-sto-wg-003,se-sto-wg-004

      - SERVER\_CITIES=stockholm

      - HTTPPROXY=off #change to on if you wish to enable

      - SHADOWSOCKS=off #change to on if you wish to enable

      # Timezone for accurate log times

      - TZ=Europe/Oslo

      # Server list updater

      # See https://github.com/qdm12/gluetun-wiki/blob/main/setup/servers.md#update-the-vpn-servers-list

      - UPDATER\_PERIOD=24h

      - FIREWALL\_OUTBOUND\_SUBNETS=172.20.0.0/192.168.0.0/24 #change this in line with your subnet see note on guide

#      - FIREWALL\_VPN\_INPUT\_PORTS=12345 #uncomment or remove this line based on the notes below

    network\_mode: synobridge

    labels:

      - com.centurylinklabs.watchtower.enable=false

    security\_opt:

### Download client

The best torrent download client in my opinion is qBitTorrent and is therefore what I will use today. But you can use rTorrent or any other preferred torrent client. Here is the docker-compose for qBitTorrent:

qbittorrent:

    image: lscr.io/linuxserver/qbittorrent

    container\_name: qbittorrent

    network\_mode: "service:gluetun"

    environment:

      - PUID=<your-UID>

      - PGID=<your-GID>

      - TZ=<your-timezone>

      - WEBUI\_PORT=8085

      - UMASK=022

    volumes:

      - \path\to\your\config:/config

      - \path\to\your\media\torrents:/Media/Torrents

    depends\_on:

      gluetun:

        condition: service\_healthy

    security\_opt:

      - no-new-privileges:true

    restart: always

#### network\_mode

If you also are using a VPN, and therefore by extension gluetun, you will need to set network\_mode to “service:gluetun”. If you don’t use VPN, you can just do “network\_mode: bridge” or any other network you have set up.

#### Environment

##### PUID and PGID

For PUID and PGID you need to find the ID for your user. To do this, SSH into your synology, log in to your own user, then type “id”. The output should include UID (user ID) and GID (Group ID).

##### UMASK

I simply don’t have enough information on this to tell you what it is or how it works. If you are interested, you can read here: <https://en.wikipedia.org/wiki/Umask>

##### Volumes

If you followed me in the creation of the directories, it should be:  
  
\volume1\docker\arr-stack\qbittorrent\config:/config

\volume1\Media/Torrents:/Media/Torrents

**NOTE:** It is very important that we have torrents in the same shared folder as our media library. This is because of how hardlinks work. If we do not have it in the same folder, we will then copy the files. So for every 10GB file, you would have to use 20GB of your storage. This adds up really quickly to many TB wasted storage.

#### Full docker-compose.yml for qbittorrent

The full docker-compose could look something like this:

qbittorrent:

    image: lscr.io/linuxserver/qbittorrent

    container\_name: qbittorrent

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

      - WEBUI\_PORT=8085

      - UMASK=022

    volumes:

      - /volume1/docker/arr-stack/qbittorrent/config:/config

      - /volume1/Media/Torrents:/media/Torrents

    depends\_on:

      gluetun:

        condition: service\_healthy

    security\_opt:

      - no-new-privileges:true

    restart: always

### Sonarr

This is the docker-compose.yml

sonarr:

    image: lscr.io/linuxserver/sonarr:latest

    container\_name: sonarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /path\to\your\config:/config

      - /path\to\your\media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

We have already covered most of the components in the docker-compose file, so I won’t repeat myself. The only thing I want to mention is the fact that if you separate your TV shows and Anime shows in your Media folder, like me, you need to mount both of them here.

#### Something important:

The path to your media **NEED** to be in the same shared folder as the torrents, for the reason we talked about earlier.

#### Full docker-compose.yml file

sonarr:

    image: lscr.io/linuxserver/sonarr:latest

    container\_name: sonarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/sonarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

### Radarr

Here we have radarr’s docker-compose:

radarr:

    image: lscr.io/linuxserver/radarr:latest

    container\_name: radarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/radarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

So, as you can see, it’s identical to Sonarr’s, except for the image and name.

### Lidarr

Docker-compose:

lidarr:

    image: lscr.io/linuxserver/lidarr:latest

    container\_name: lidarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/lidarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

Again, we have a pretty familiar looking docker-compose file. Edit the appropriate settings just like you did for radar.

### Prowlarr

Prowlarr is what we use to search for the files we are going to download. Here is the docker-compose:

  prowlarr:

    image: lscr.io/linuxserver/prowlarr:latest

    container\_name: prowlarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - path\to\your/config:/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

Obviously change the PUID and PGID. Other than that we only have to change the config path. It should be “\volume1\docker\arr-stack\prowlarr\config”.

### Flaresolverr

Docker-compose:

flaresolverr:

    image: ghcr.io/flaresolverr/flaresolverr:latest

    container\_name: flaresolverr

    network\_mode: "service:gluetun"

    environment:

      - TZ=Europe/Oslo

    depends\_on:

      gluetun:

        condition: service\_healthy

    security\_opt:

      - no-new-privileges:true

    restart: unless-stopped

You don’t need to change anything here. Just paste it in. Only exception is if you don’t use VPN, then change “network\_mode” and delete “depends\_on”.

### Overseerr

Docker-compose:

 overseerr:

    image: sctx/overseerr:latest

    container\_name: overseerr

    network\_mode: "service:gluetun"

    environment:

      - LOG\_LEVEL=debug

      - TZ=Europe/Oslo

    volumes:

      - \path\to\your\config:/app/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

The only thing you need to change here is the path to your config. It should be “\volume1\docker\arr-stack\overseerr\config”

### Requestrr

Docker-compose:

 requestrr:

    image: darkalfx/requestrr

    container\_name: requestrr

    network\_mode: "service:gluetun"

    volumes:

    - \path\to\your\config:/root/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

Again, only change the config path. Should be “\volume1\docker\arr-stack\requestrr\config”

### Tautulli

Docker-compose:

  tautulli:

    image: ghcr.io/tautulli/tautulli

    container\_name: tautulli

    network\_mode: service:gluetun #Replace this bridge if you don’t use GlueTUN

    restart: unless-stopped

    volumes:

      - \path\to\your\config:/config

    environment:

      - PUID=<your UID>

      - PGID=<your GID>

      - TZ=Europe/Oslo

    depends\_on: #use this if you use GlueTUN for VPN

      gluetun:

        condition: service\_healthy

For me it would look like this:

  tautulli:

    image: ghcr.io/tautulli/tautulli

    container\_name: tautulli

    network\_mode: service:gluetun

    restart: unless-stopped

    volumes:

      - /volume1/docker/arr-stack/tautulli/config:/config

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    depends\_on:

      gluetun:

        condition: service\_healthy

### Putting it all together

Now we can put all our relevant docker-compose files together inside one, big file. Remember, if you want to add more -arr apps or other download-clients, you can just add them in this docker-compose just like we did for all the other apps. Just remember to open up the ports in GlueTUN as well. For me the docker-compose.yml is like this:

version: "3"

services:

  gluetun:

    image: qmcgaw/gluetun

    container\_name: gluetun

    hostname: gluetun

    cap\_add:

      - NET\_ADMIN

    devices:

      - /dev/net/tun:/dev/net/tun

    ports:

      - 6881:6881

      - 6881:6881/udp

      - 8085:8085 # qbittorrent

      - 8989:8989 # Sonarr

      - 9696:9696 # Prowlarr

      - 7878:7878 # Radarr

      - 8686:8686 #Lidarr

      - 8191:8191 #FlareSolverr

      - 5055:5055 #Overseerr

      - 4545:4545 #Requestrr

    volumes:

      - \volume1\docker\arr-stack\gluetun:/gluetun

    environment:

      - VPN\_SERVICE\_PROVIDER=mullvad

      - VPN\_TYPE=wireguard

      - VPN\_DISABLE\_IPV6=true

      # OpenVPN:

      # - OPENVPN\_USER=

      # - OPENVPN\_PASSWORD=

      # Wireguard:

      - WIREGUARD\_PRIVATE\_KEY= iExD5V5kkXnh+40dyo/PmCL1aus8eNBdHQMWergYFWo=

      - WIREGUARD\_ADDRESSES=10.72.171.113/32

      - DNS=10.64.0.

      - SERVER\_HOSTNAMES=se-sto-wg-001,se-sto-wg-002,se-sto-wg-003,se-sto-wg-004

      - SERVER\_CITIES=stockholm

      - HTTPPROXY=off #change to on if you wish to enable

      - SHADOWSOCKS=off #change to on if you wish to enable

      # Timezone for accurate log times

      - TZ=Europe/Oslo

      # Server list updater

      # See https://github.com/qdm12/gluetun-wiki/blob/main/setup/servers.md#update-the-vpn-servers-list

      - UPDATER\_PERIOD=24h

      - FIREWALL\_OUTBOUND\_SUBNETS=172.20.0.0/192.168.0.0/24 #change this in line with your subnet see note on guide

#      - FIREWALL\_VPN\_INPUT\_PORTS=12345 #uncomment or remove this line based on the notes below

    network\_mode: synobridge

    labels:

      - com.centurylinklabs.watchtower.enable=false

    security\_opt:

  qbittorrent:

    image: lscr.io/linuxserver/qbittorrent

    container\_name: qbittorrent

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

      - WEBUI\_PORT=8085

      - UMASK=022

    volumes:

      - /volume1/docker/arr-stack/qbittorrent/config:/config

      - /volume1/Media/Torrents:/Media/Torrents

    depends\_on:

      gluetun:

        condition: service\_healthy

    security\_opt:

      - no-new-privileges:true

    restart: always

  sonarr:

    image: lscr.io/linuxserver/sonarr:latest

    container\_name: sonarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/sonarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  prowlarr:

    image: lscr.io/linuxserver/prowlarr:latest

    container\_name: prowlarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/prowlarr/config:/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  radarr:

    image: lscr.io/linuxserver/radarr:latest

    container\_name: radarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/radarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  lidarr:

    image: lscr.io/linuxserver/lidarr:latest

    container\_name: lidarr

    network\_mode: "service:gluetun"

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/lidarr/config:/config

      - /volume1/Media:/Media

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  flaresolverr:

    image: ghcr.io/flaresolverr/flaresolverr:latest

    container\_name: flaresolverr

    network\_mode: "service:gluetun"

    environment:

      - TZ=Europe/Oslo

    depends\_on:

      gluetun:

        condition: service\_healthy

    security\_opt:

      - no-new-privileges:true

    restart: unless-stopped

  overseerr:

    image: sctx/overseerr:latest

    container\_name: overseerr

    network\_mode: "service:gluetun"

    environment:

      - LOG\_LEVEL=debug

      - TZ=Europe/Oslo

    volumes:

      - /volume1/docker/arr-stack/overseer/config:/app/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  requestrr:

    image: darkalfx/requestrr

    container\_name: requestrr

    network\_mode: "service:gluetun"

    volumes:

    - /volume1/docker/arr-stack/requestrr/config:/root/config

    depends\_on:

      gluetun:

        condition: service\_healthy

    restart: unless-stopped

  tautulli:

    image: ghcr.io/tautulli/tautulli

    container\_name: tautulli

    network\_mode: service:gluetun

    restart: unless-stopped

    volumes:

      - /volume1/docker/arr-stack/tautulli/config:/config

    environment:

      - PUID=1026

      - PGID=100

      - TZ=Europe/Oslo

    depends\_on:

      gluetun:

        condition: service\_healthy

### Common Errors

The most common error to get now is “gluetun is unhealthy” If you get this, it is likely an error in the config file. Usually, it relates to the provider specific elements. If you check the logs for the GlueTUN container it will tell you why it couldn’t connect. My best guess would be incorrect private key, or something similar. If you can’t figure it out, please drop a comment or DM me somehow with your logs, and I’ll look.

Also please, please, please! Double check the volume mounts. If they are not correctly set up, you will loose **HALF** your storage space to waste. It should be as follows:

Media

├── Torrents

│ ├── Incomplete

│ └── Complete

│ ├── Movies

│ ├── Music

| ├── Anime TV Shows

│ └── TV Shows

├── Usenet

│ ├── Incomplete

│ └── Complete

│ ├── Movies

│ ├── Music

| ├── Anime TV Shows

│ └── TV Shows

└── Media

├── Movies

├── Music

├── Anime TV Shows

└── TV Shows

# Configuration of the apps

## qBitTorrent

### Login

The first thing we should do is configure qBitTorrent. Open up a web browser /on your computer) then type in your NAS IP address followed by port 8085. For this example it would look like this: 192.168.0.2:8085

You will then get to the login page for the qBitTorrent WebUI. The username is always admin. The password could be adminadmin, as this is the default. But most likely you will find a temporary password in the logs for the qBitTorrent container inside container manager.

Et bilde som inneholder tekst, skjermbilde, Font, line

Automatisk generert beskrivelse

### Change username and password

The first thing to do now that you are logged in is to change your username and password. Click the cog icon at the top of the page, then go to the Web UI tab. Put in your new details then click save at the bottom of the page.

**NOTE:** Please change both your username and password for maximum security.

Et bilde som inneholder tekst, skjermbilde, programvare, nummer

Automatisk generert beskrivelse

### Change downloads path

Go back to settings, then go to the “Downloads” tab.

Change the default save path to “/Media/Torrents/Complete” and tick the box for “Keep incomplete torrents in:”. Select “/Media/Torrents/Incomplete”

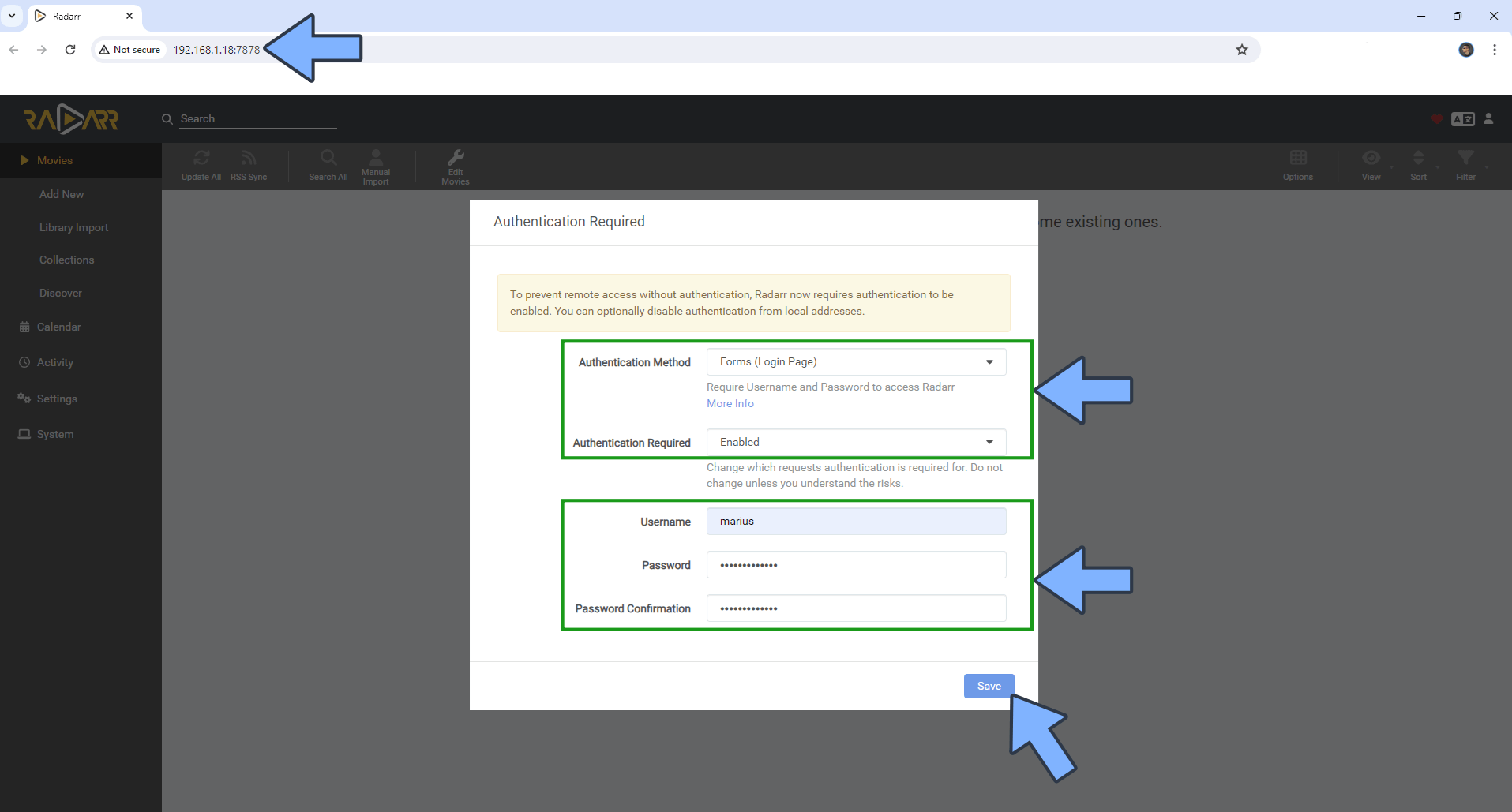
Et bilde som inneholder tekst, skjermbilde, programvare, nummer

Automatisk generert beskrivelse

## Radarr

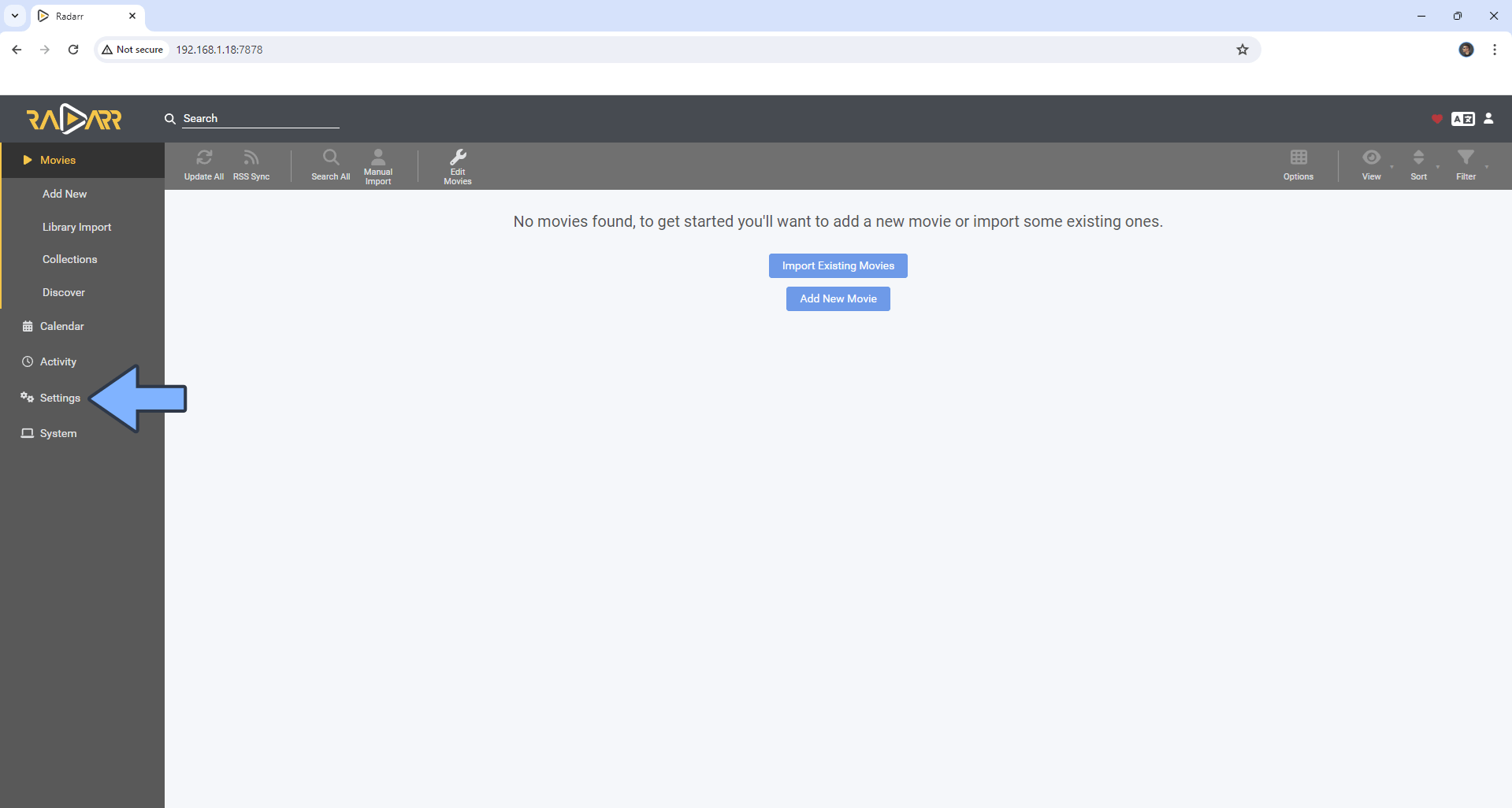
### Adding Authentication method

Open a web browser on your PC, then type in the IP of your NAS followed by port 7878. So e.g. 192.168.0.2:7878. The first time you open this, you will be prompted to add an authentication method. I recommend to use forms and have it enabled. Set username to something else than admin or administrator as this is easy to guess.

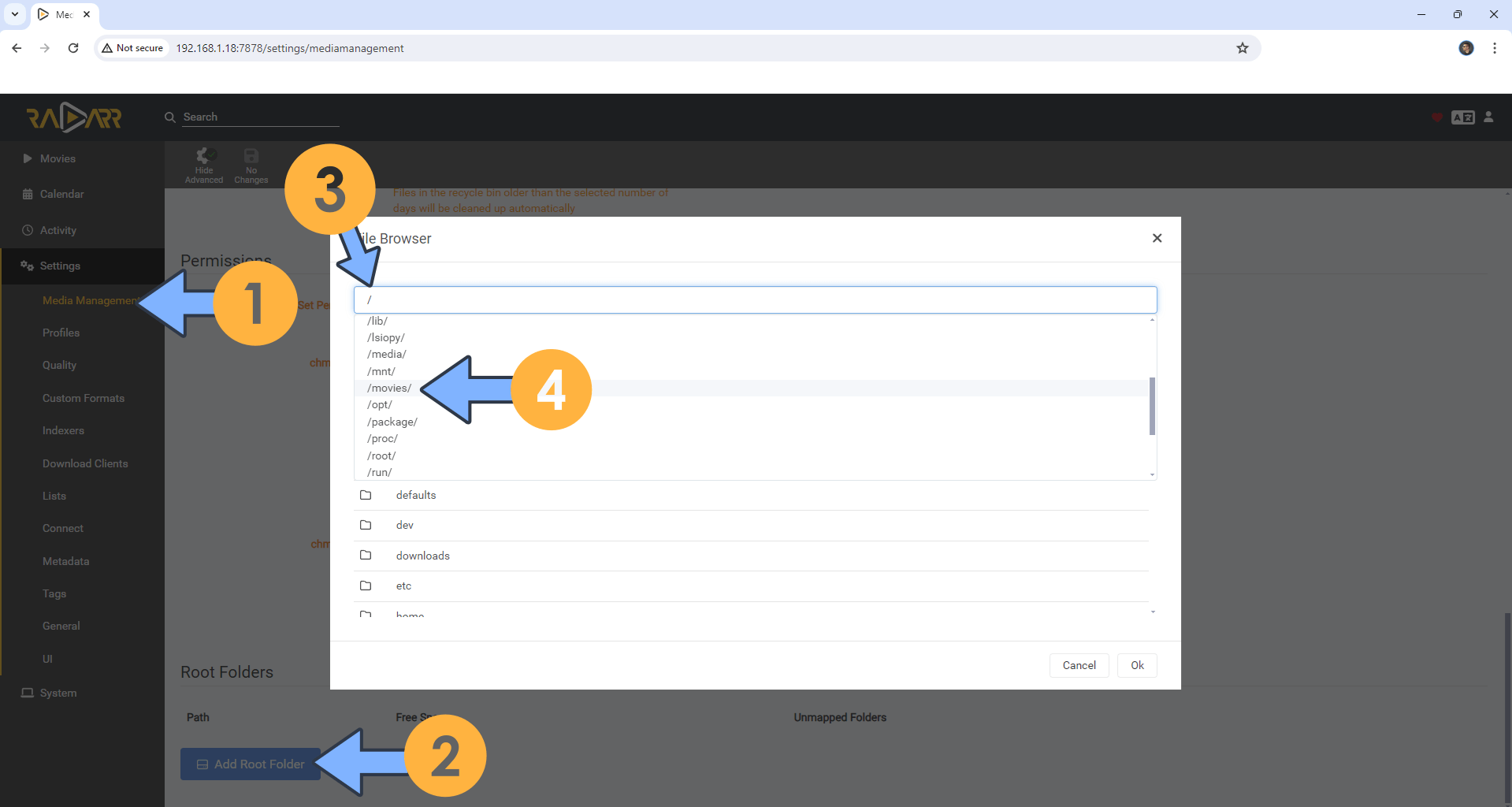


### Adding Root Folder

Now go to settings on the left-hand side menu.



Now go to media management, scroll down and click on “Add Root Folder”. Type /Media/Media/Movies and select it. Click OK.



### Changing Movie Naming Scheme

1. Go to settings, then choose media management. Turn on advanced settings (right under the search bar).
2. Tick the box next to “Rename Movies” and “Replace illegal characters.”
3. Change the “Standard Movie Format” to the one that fits you the best on TRaSH’s website. For Plex, I recommend to stick with Plex (TVDB). You can read more about recommended naming schemes here: <https://trash-guides.info/Radarr/Radarr-recommended-naming-scheme/>
4. For Movie Folder Format I would go for “{Movie CleanTitle} ({Release Year}) {tmdb-{TmdbId}}”, but again you can read more on TRaSH Guides.

Et bilde som inneholder tekst, skjermbilde, programvare, Nettside

Automatisk generert beskrivelse

1. Make sure “Use Hardlinks instead of Copy” under “Importing” is enabled.
2. Scroll down until you get to “File Management” and select “Do Not Prefer for” “Propers and Repacks”. This is important for our quality profiles later.

Et bilde som inneholder tekst, programvare, Nettside, Nettsted

Automatisk generert beskrivelse

Now be sure to click save, next to the “Show advanced” switch under the search bar.

### Quality Settings (File Size)

1. Go to settings, then select “Quality” from the menu. Make sure to enable “Show Advanced” by clicking the cog under the search bar.
2. Go to TRaSH Guids and change the appropriate settings as described.

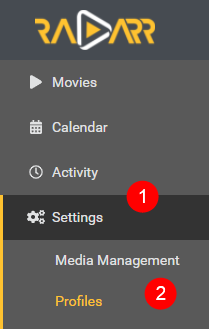
<https://trash-guides.info/Radarr/Radarr-Quality-Settings-File-Size/>

Et bilde som inneholder tekst, skjermbilde, programvare, Dataikon

Automatisk generert beskrivelse

### Quality profiles

1. Go to settings, Profiles.



1. Delete all of the default ones.
2. Create a new one
3. Go to TRaSH Guide’s and follow their instructions on how to setup quality profiles, aswell as to set custom formats. Add all the profiles you need for you setup, needs and wants.

<https://trash-guides.info/Radarr/radarr-setup-quality-profiles/>

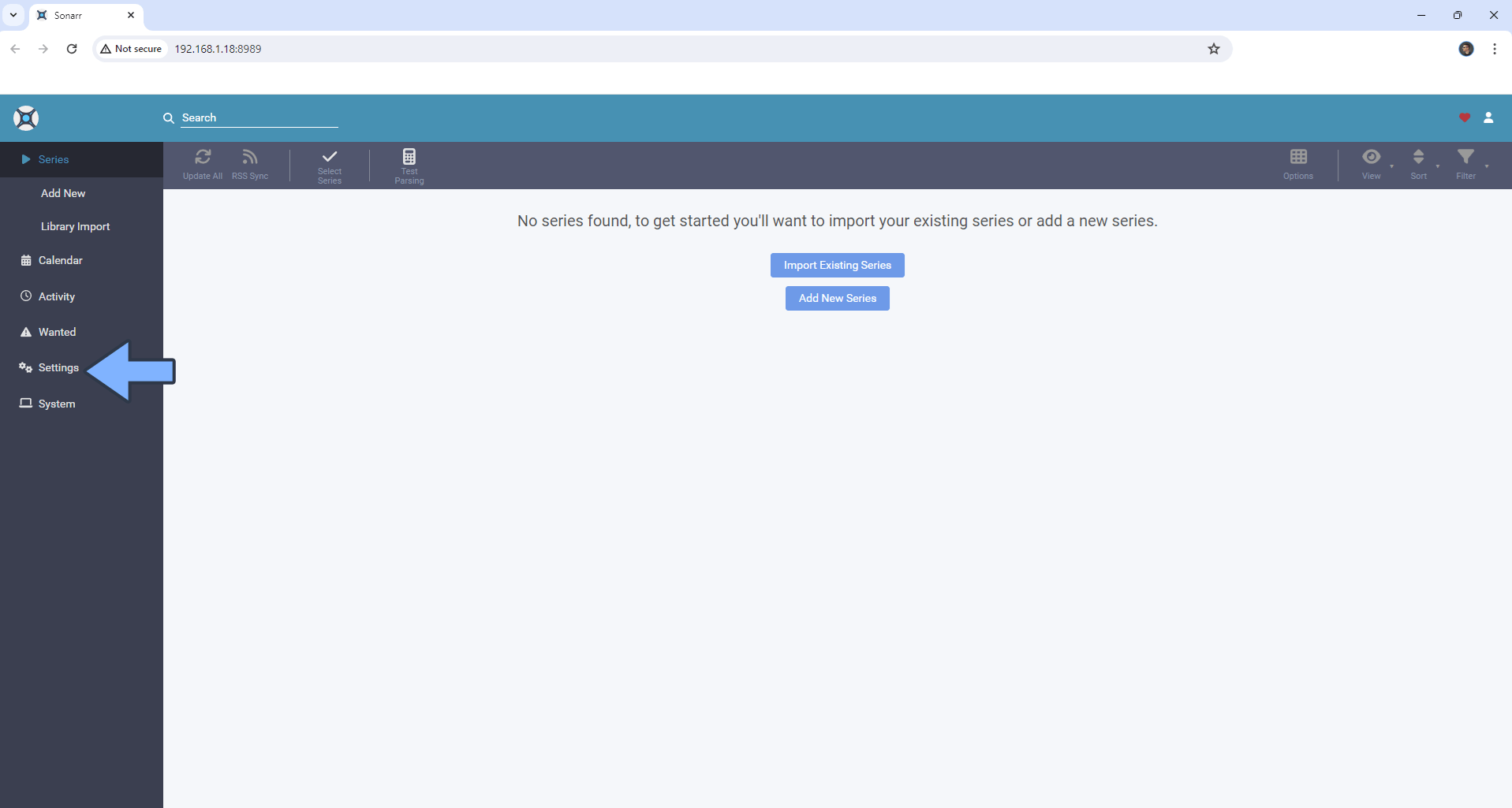
## Sonarr

### Adding Root Folder(s)

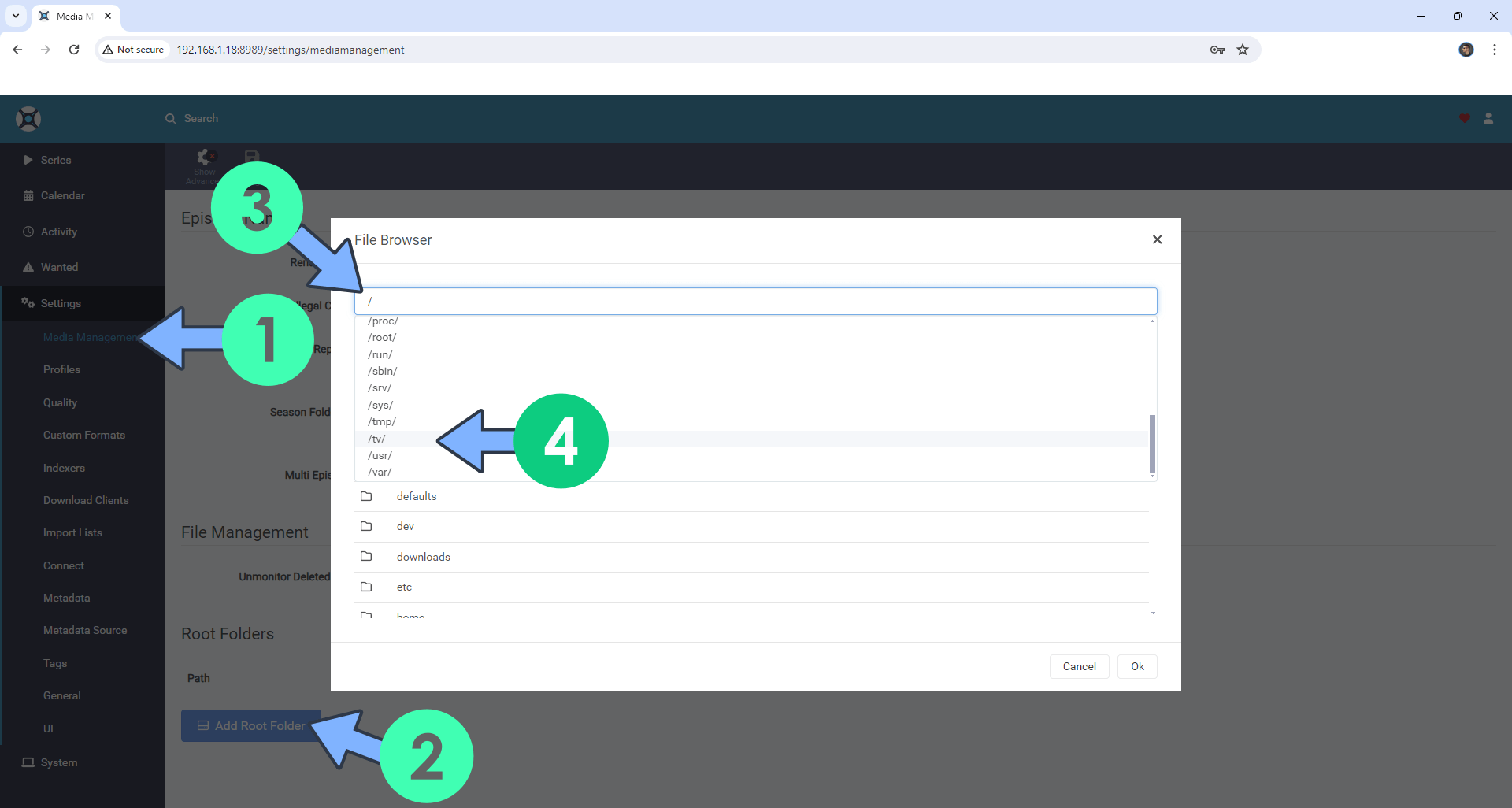
1. Open a web browser on your PC and type in the IP of your NAS followed by port 8989. So e.g. 192.168.0.2:8989.
2. Here you will be prompted to set up an authentication method. I recommend selecting “Forms” and having it enabled. Choose a username that is not admin or administrator, then select a password.



1. Go to settings

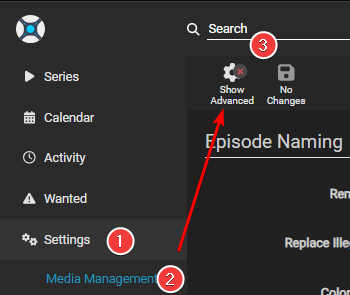


1. Select “Media Management”, scroll down and click on “Add Root Folder”. Type in “/Media/Media/TV Shows/” and select it before you click OK. If you have a separate folder for anime, add another root folder and search for “/Media/Media/Anime TV Shows” and select it. Click OK.

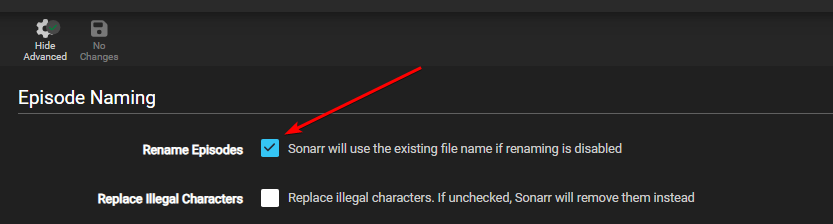


### Changing Naming Scheme(s)

1. Go to settings > Media Management and click on Show Advanced.



1. Enable “Rename Episodes”. I recommend to also enable “Replace illegal characters”



1. Go to TRaSH Guide’s and select the settings they recommend.

<https://trash-guides.info/Sonarr/Sonarr-recommended-naming-scheme/#standard>

1. Scroll down to “File Management” and select “Do not Prefer” for “Propers and Repacks”. This is important for our quality profiles later.
2. Under “Importing” make sure “Use Hardlinks instead of Copy” is enabled.

### Quality Settings (File Size)

1. Go to settings and select “Quality”
2. Enabled “Show Advanced” by clicking the cog at the top.
3. Go to TRaSH Guides and edit the appropriate settings

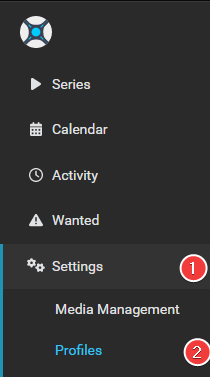
<https://trash-guides.info/Sonarr/Sonarr-Quality-Settings-File-Size/>

Et bilde som inneholder tekst, skjermbilde, programvare, Dataikon

Automatisk generert beskrivelse

### Quality Profiles

1. Go to settings and select “Profiles”

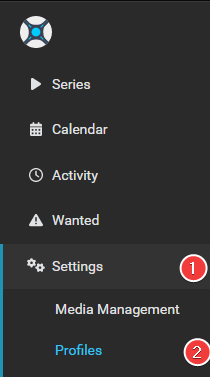


1. Delete all the default ones.
2. Go to TRaSH Guides and set up profiles as described there. Import the relevant custom formats that fits your needs and wants.

<https://trash-guides.info/Sonarr/sonarr-setup-quality-profiles/>

### Quality Profiles (Anime)

1. Go to settings and select “Profiles”



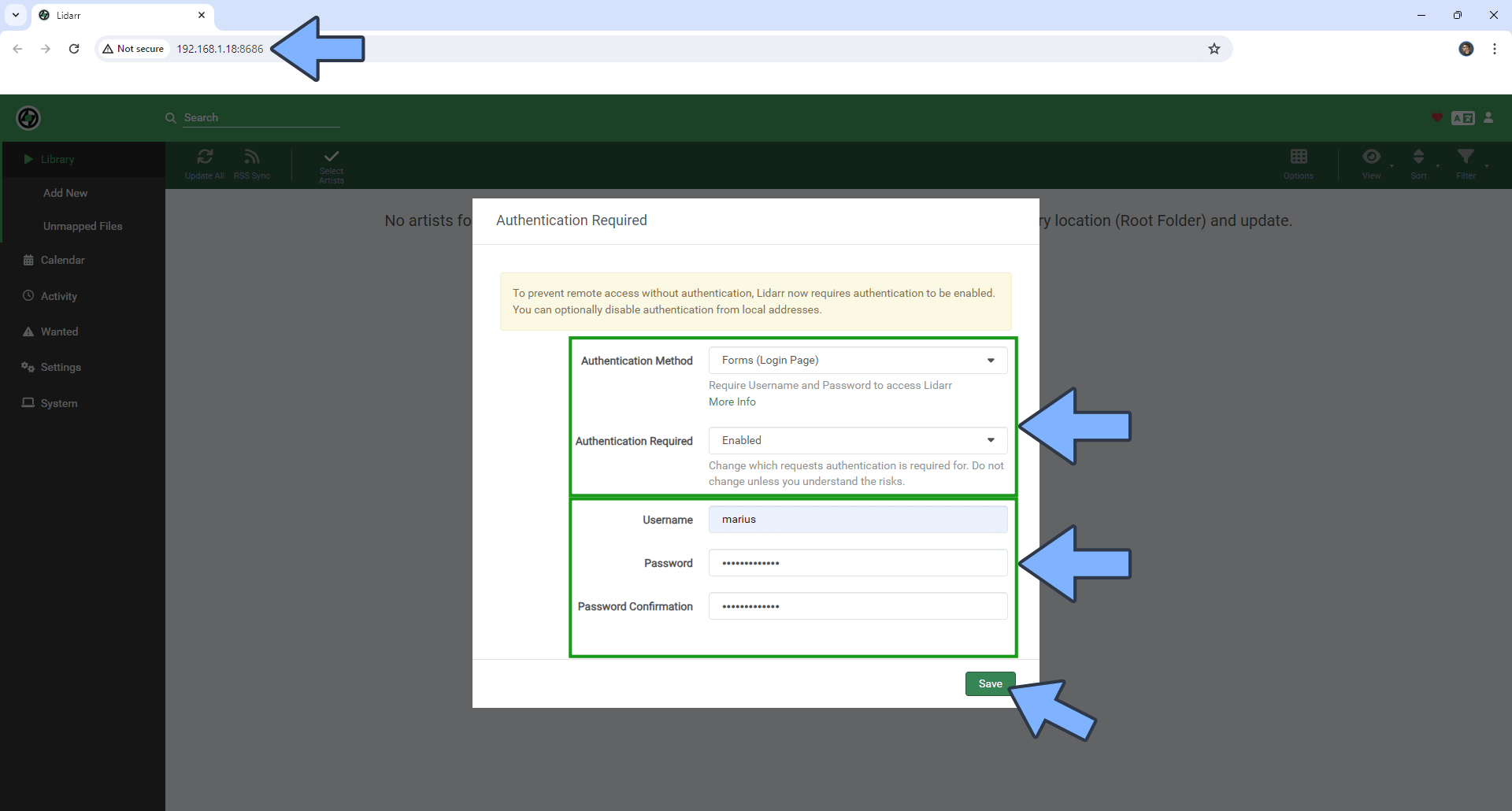
1. Delete all the default ones.
2. Go to TRaSH Guides and set up profiles as described there. Import the relevant custom formats that fits your needs and wants.

<https://trash-guides.info/Sonarr/sonarr-setup-quality-profiles-anime/>

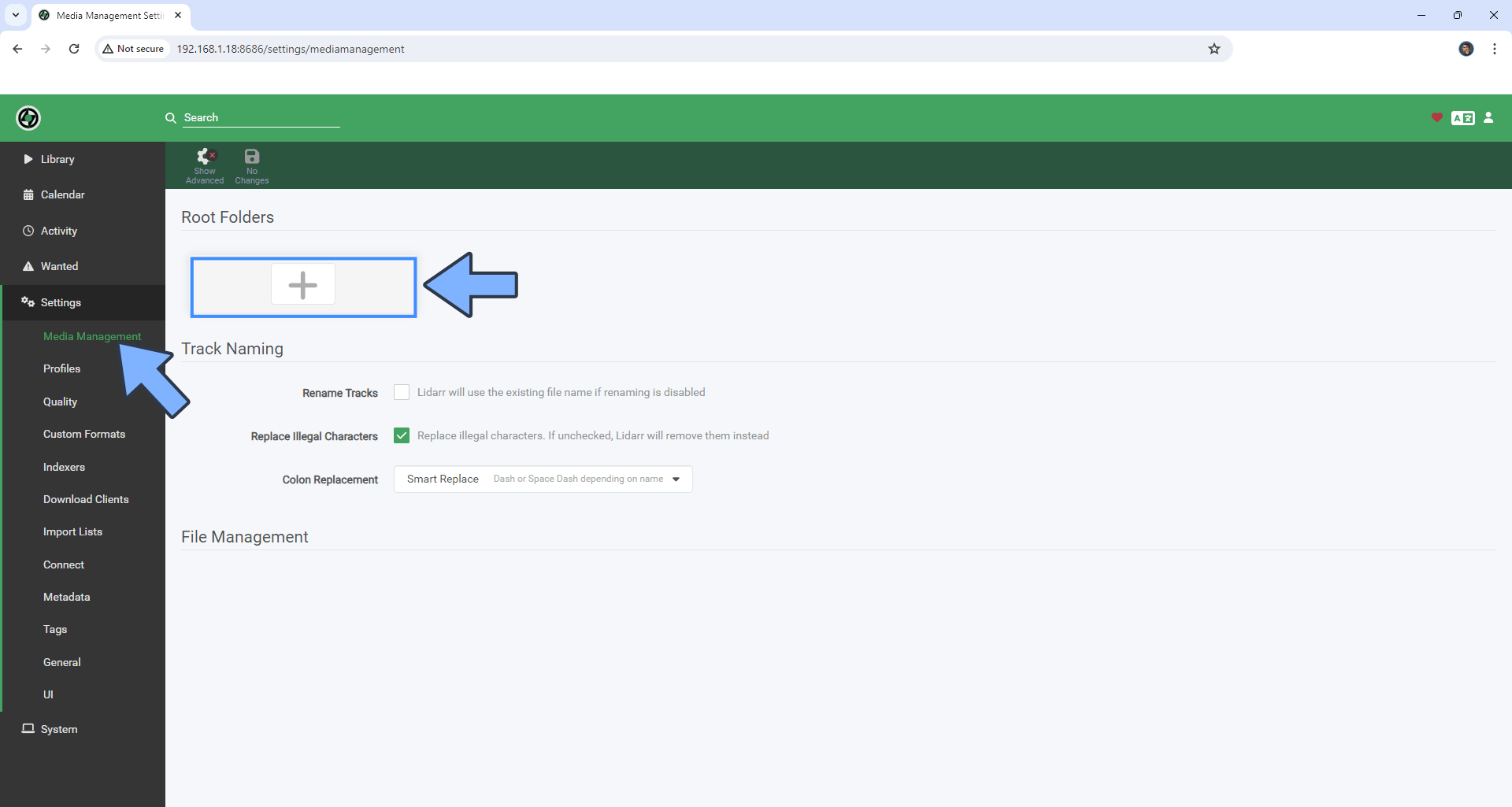
## Lidarr

### Adding Root Folder(s)

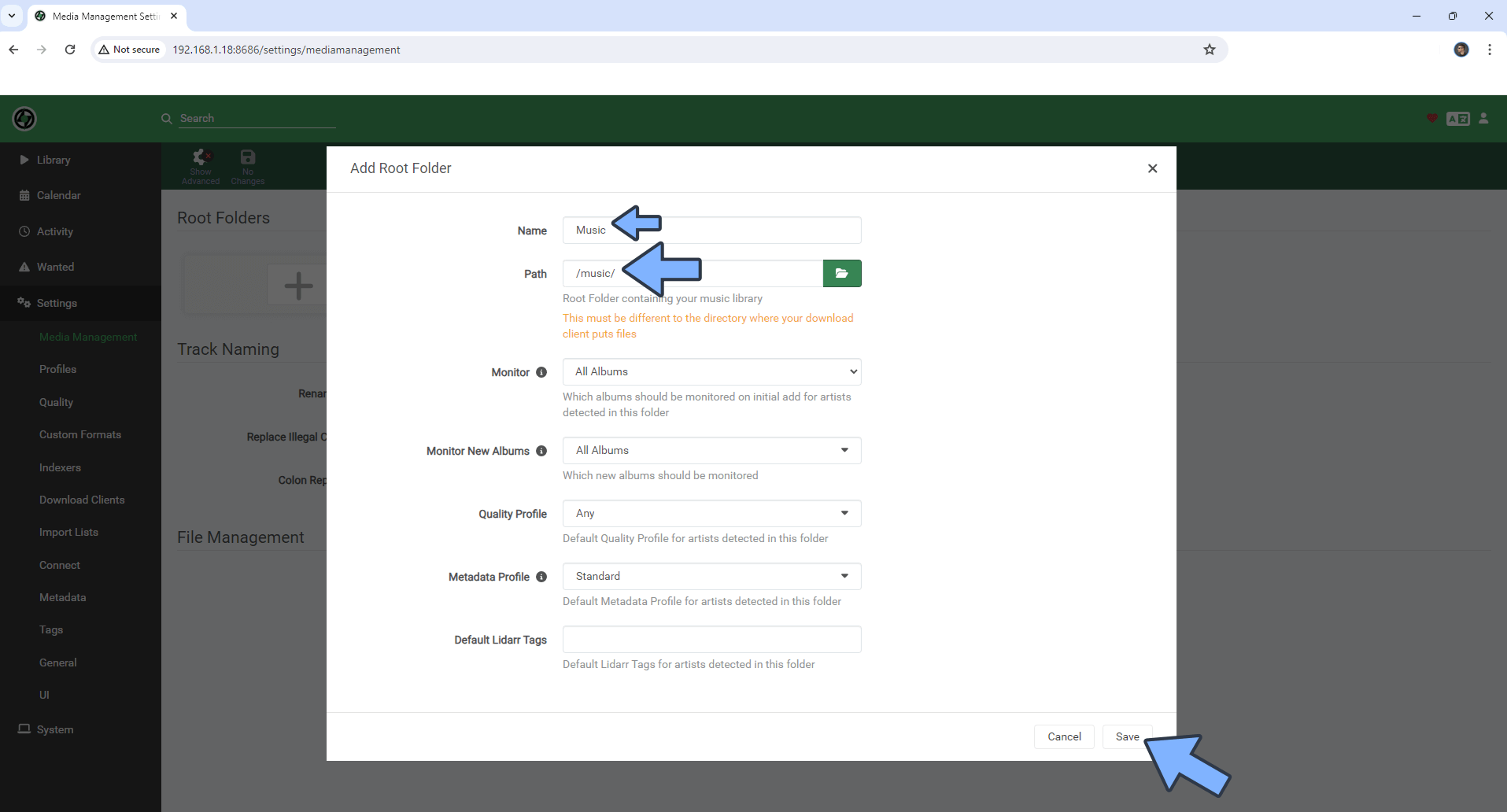
1. Open a web browser on your PC and type in the IP of your NAS followed by port 8686. So e.g. 192.168.0.2:8686.
2. Here you will be prompted to set up an authentication method. I recommend selecting “Forms” and having it enabled. Choose a username that is not admin or administrator, then select a password.



1. Go to settings, then select “Media Management”.
2. Click on the big “+” sign under “Add Root Folder



1. Search for “/Media/Media/Music” select it then click on OK



1. Make sure “Rename Tracks” and “Replace illegal characters” is enabled.

Et bilde som inneholder tekst, skjermbilde, programvare, Nettside

Automatisk generert beskrivelse

“Standard Track Format” should be:

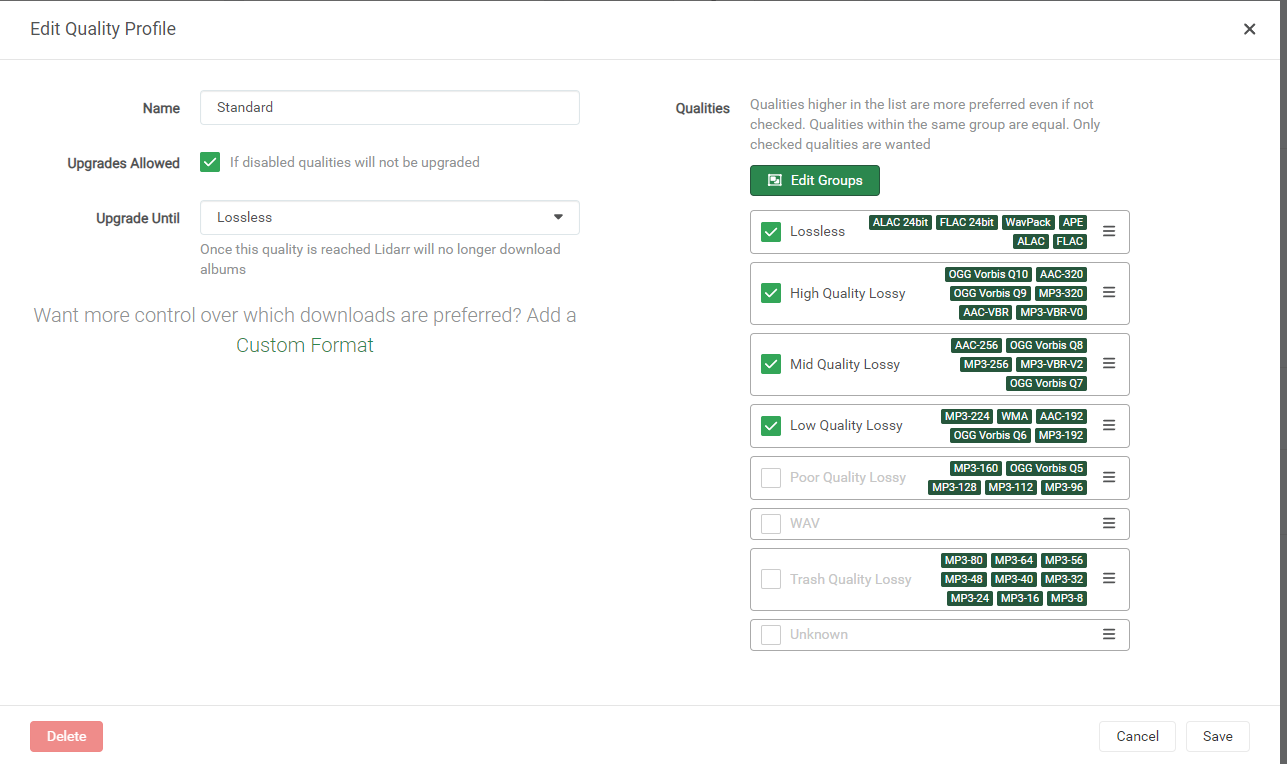
{Album Title} ({Release Year})/{Artist Name} - {Album Title} - {track:00} - {Track Title}

And “Multi Track Format” should be:

{Artist Name}/{Album Title} ({Release Year})/{Medium Format} {medium:00}/{Artist Name} - {Album Title} - {track:00} - {Track Title}

### Quality Settings

TRaSH Guides have no guides on lidarr. I have tried to search the internet but have not found any guides on quality settings or profiles for lidarr. I have only set up one profile myself on Lidarr, which is a pretty basic one without any scoring system with custom formats. Neither have I changed the size for the different Quality Settings.



## Connecting download client to Radarr, Sonarr and Lidarr

Now that we have configured all of our main arr-apps, we need to actually give them something to send the downloads to. For this guide we are using qBitTorrent. The setup will be identical for all of the apps, so just repeat the steps for all of them.

1. Go to settings, then select “Download Clients”
2. Make sure “Automatically import completed downloads from download client” is enabled.
3. Click on the big “+” icon.

Et bilde som inneholder tekst, skjermbilde, programvare, Dataikon

Automatisk generert beskrivelse

1. Select qBitTorrent
2. Fill out the details

i Name: qBitTorrent

ii Enable

iii Host: 170.20.0.2

**NOTE:** This must be the IP of the **GlueTUN** container, and **NOT** the NAS itself. So instead of 192.168.0.2, we but 172.20.0.2. To confirm this is the correct IP, we can go back to Synology container manager > container and click on gluetun. Scroll down until you find “Network Settings” and look for where is says “IP Address”

Et bilde som inneholder tekst, nummer, line, skjermbilde

Automatisk generert beskrivelse

iv Port: 8085

v Username: <username on qBitTorrent>

vi Password: <password on qBitTorrent>

vii Category: <the appropriate category. music/movies/tv/anime>

**NOTE:** For Sonarr, you will need to setup 2 download clients if you want to

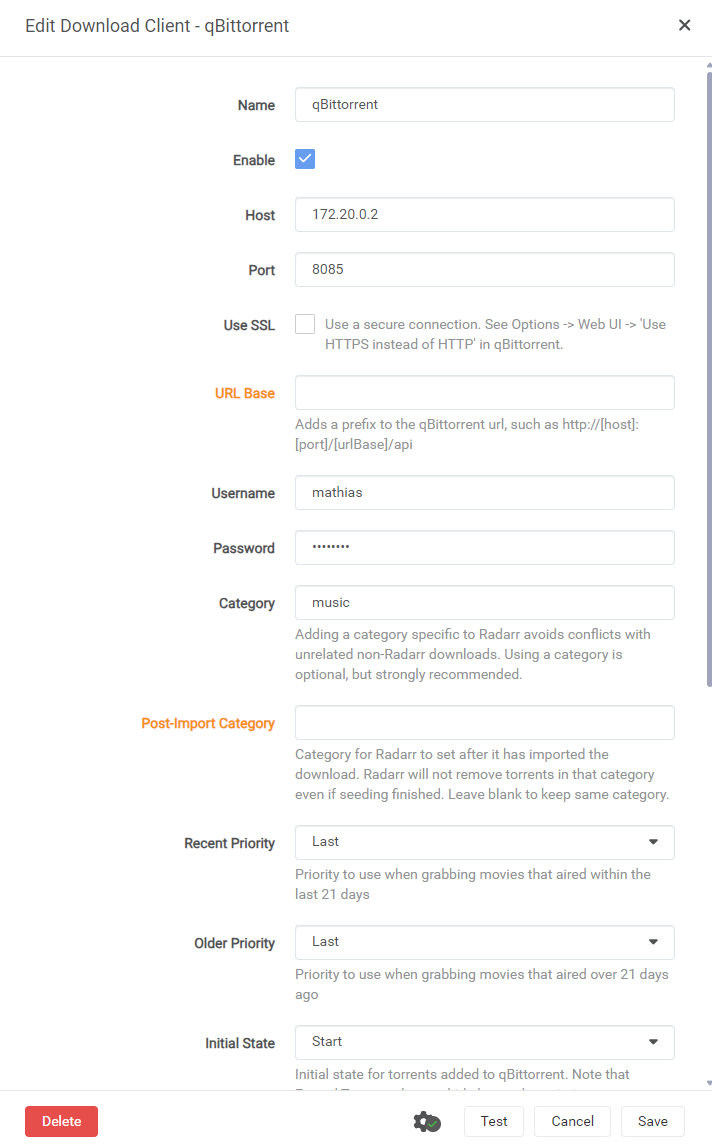
separate anime to a separate folder then tv. Both can be the same

client, with identical setup. Only thing that has to change is the

“Category” must be “anime” for anime and “tv” or “series” for

normal TV Series.

1. Click “Test”. If it becomes green for a second, then press “Add” If it becomes red, review and double check your settings.

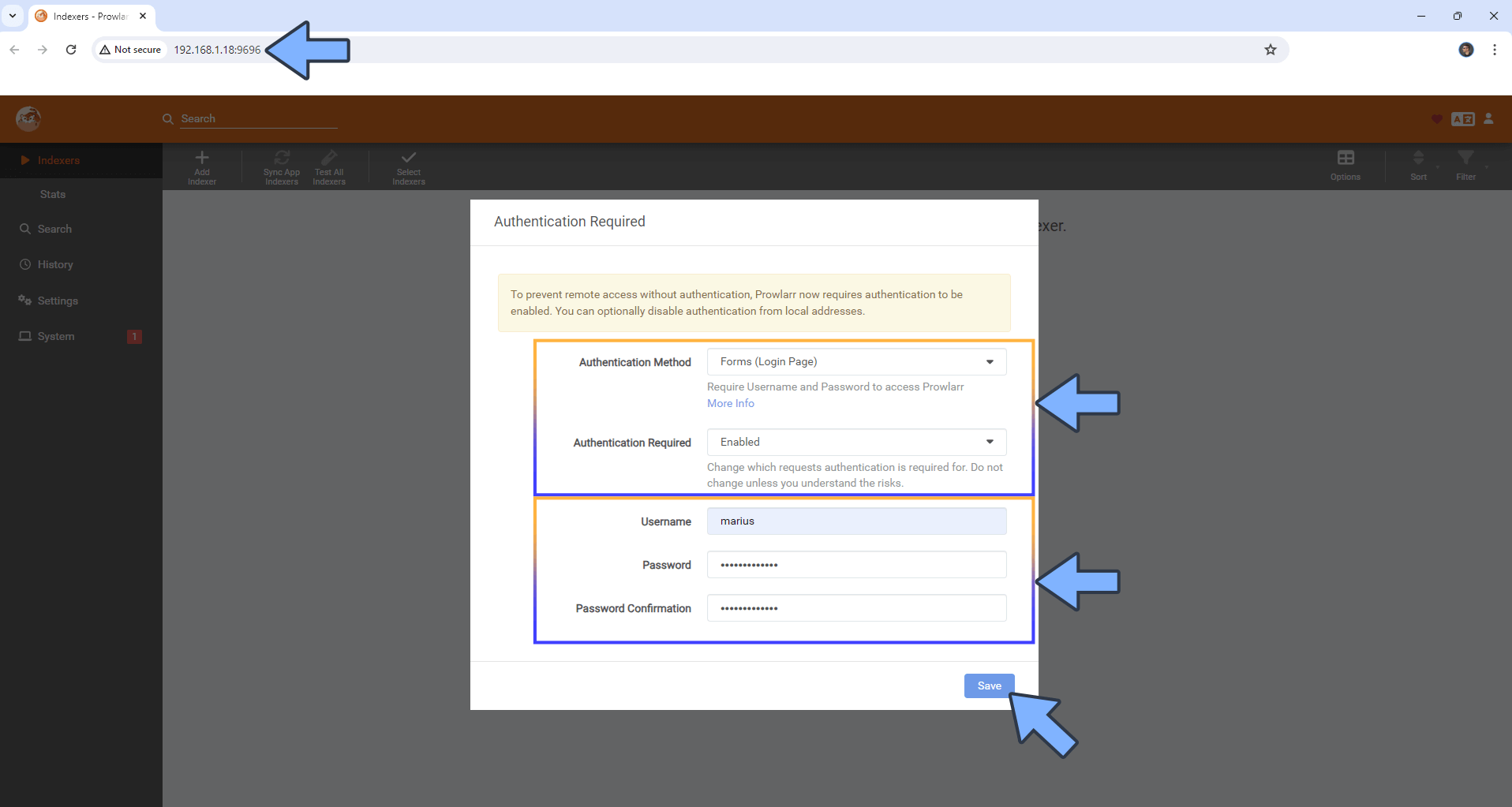


## Prowlarr

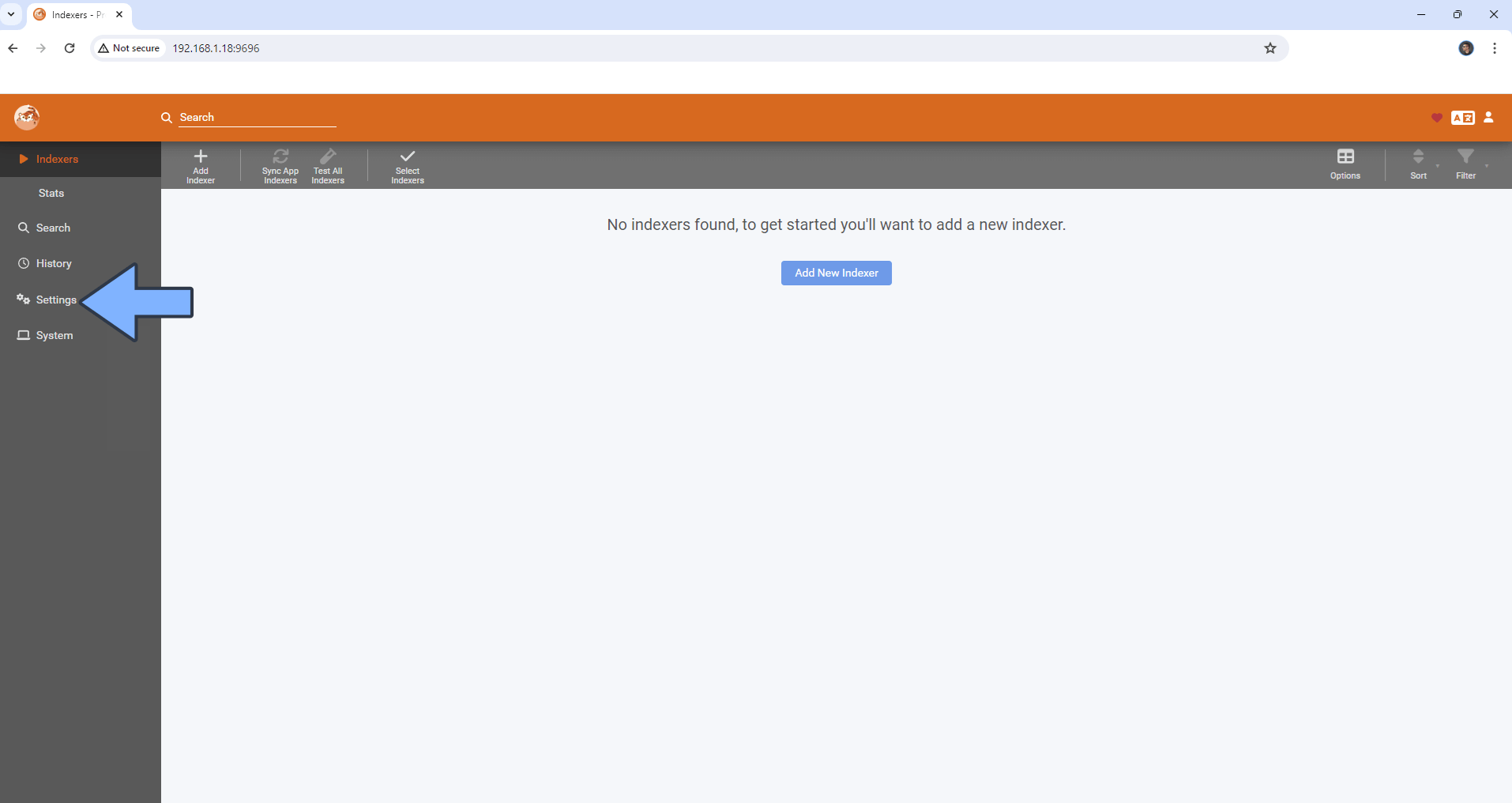
### Adding the apps to Prowlarr

Now that we have set up all our downloaders, we need something to actually search for the files we are going to download. For that, we will use Prowlarr.

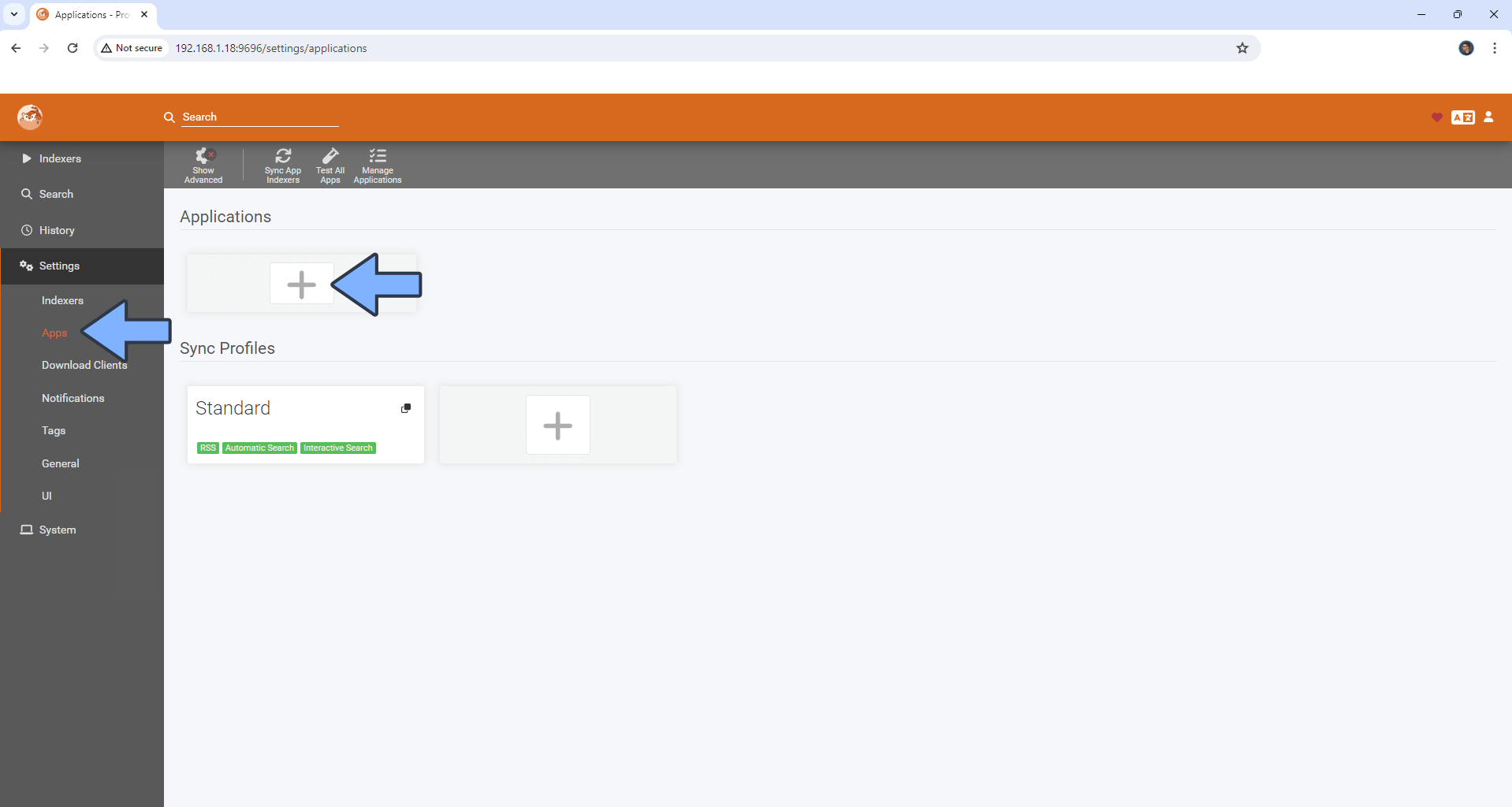
1. Go to <NAS-IP>:9696 e.g. 192.168.0.2:9696
2. Fill out the form just like earlier.



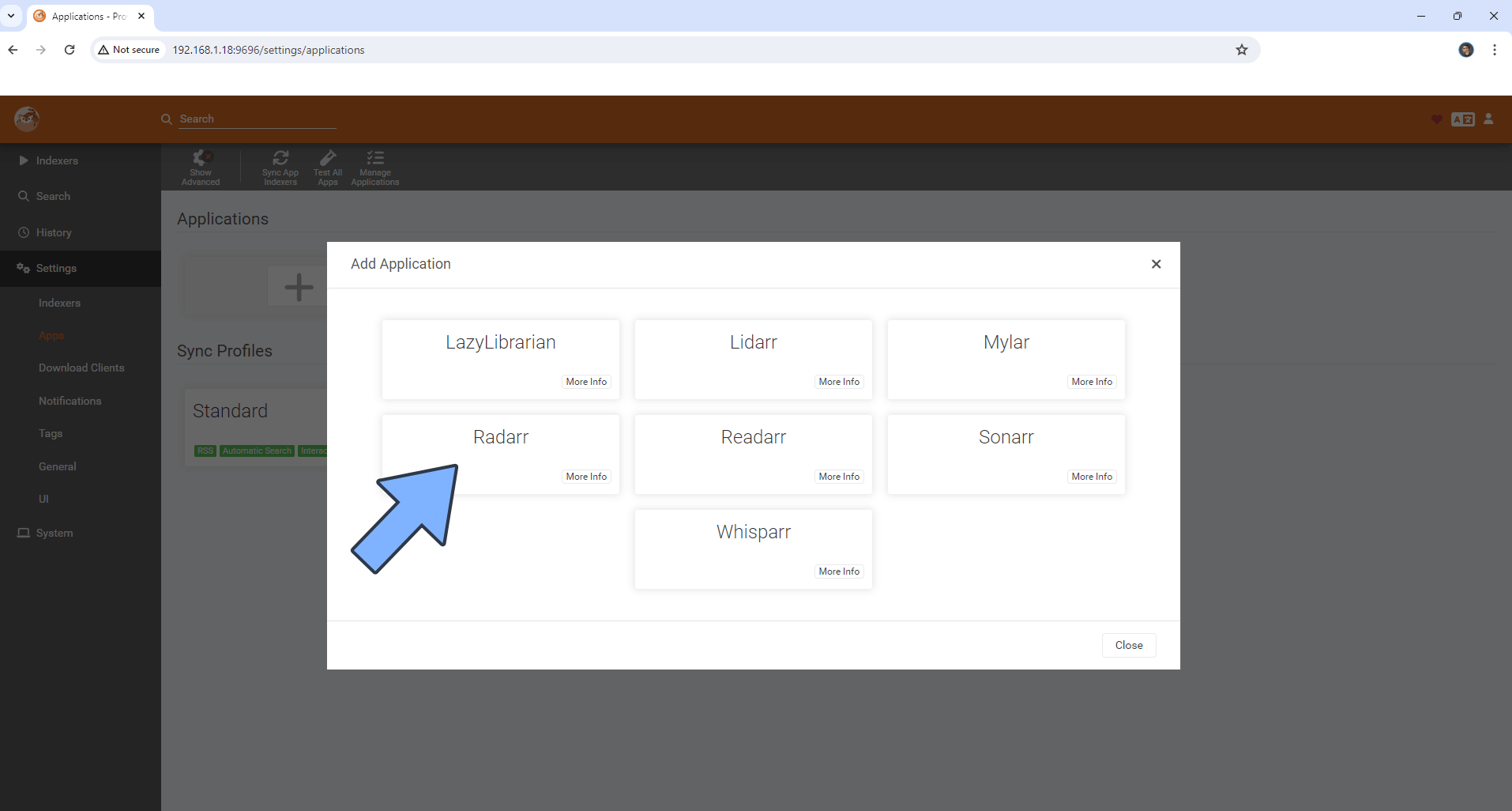
1. Go to settings on the left-hand side menu.



1. Click on apps, then the big “+” under applications



1. Click on the app you want. We can start with Radarr.



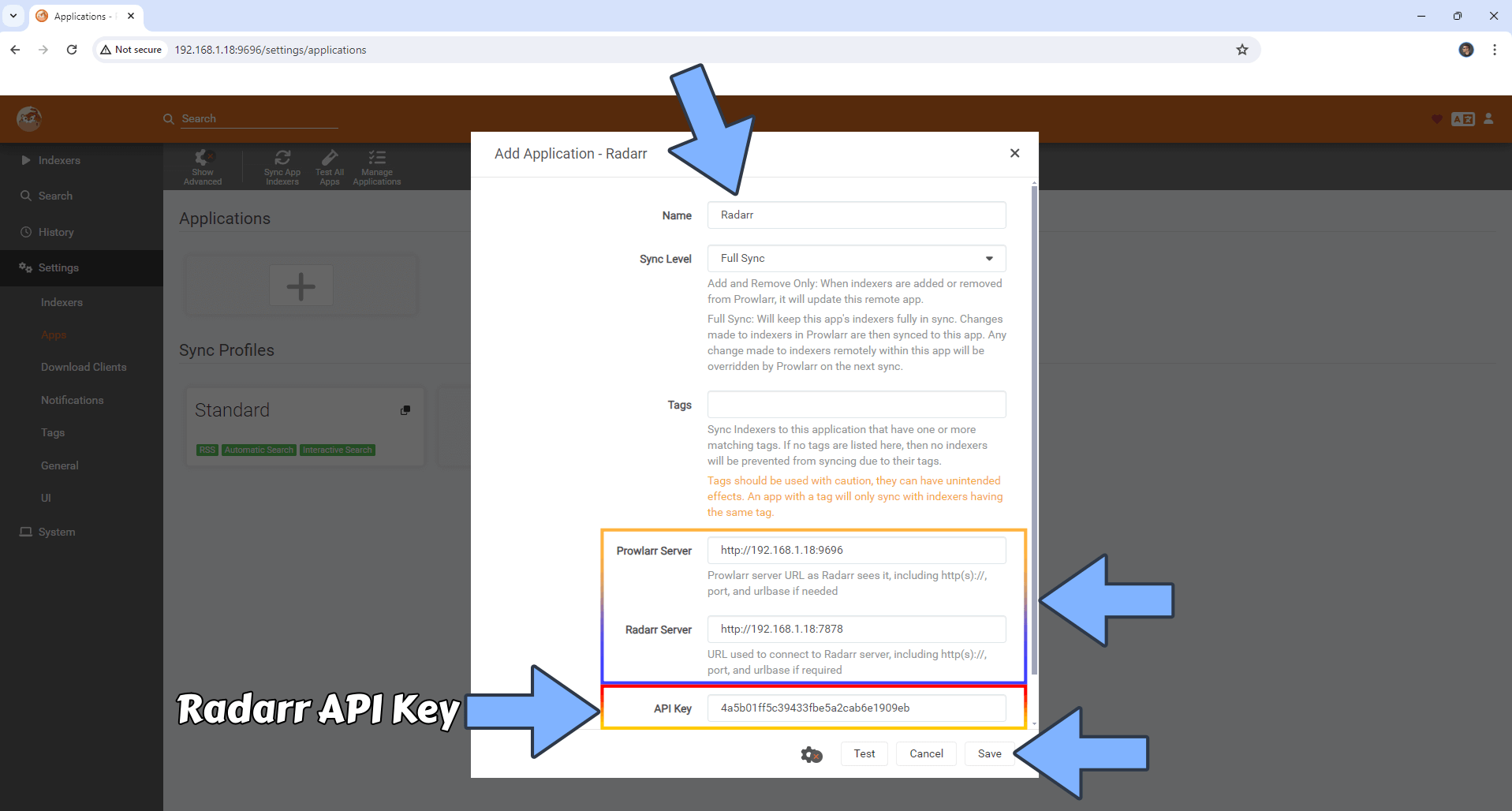
1. Fill out the form:

* Name can be default.
* Sync Level: Full Sync
* Tags: Leave blank
* Prowlarr server: <http://172.20.0.2:9696>
* Radarr server: <http://172.20.0.2:7878>

**NOTE:** If you chose another IP for your “synobridge” network, then put that in instead.

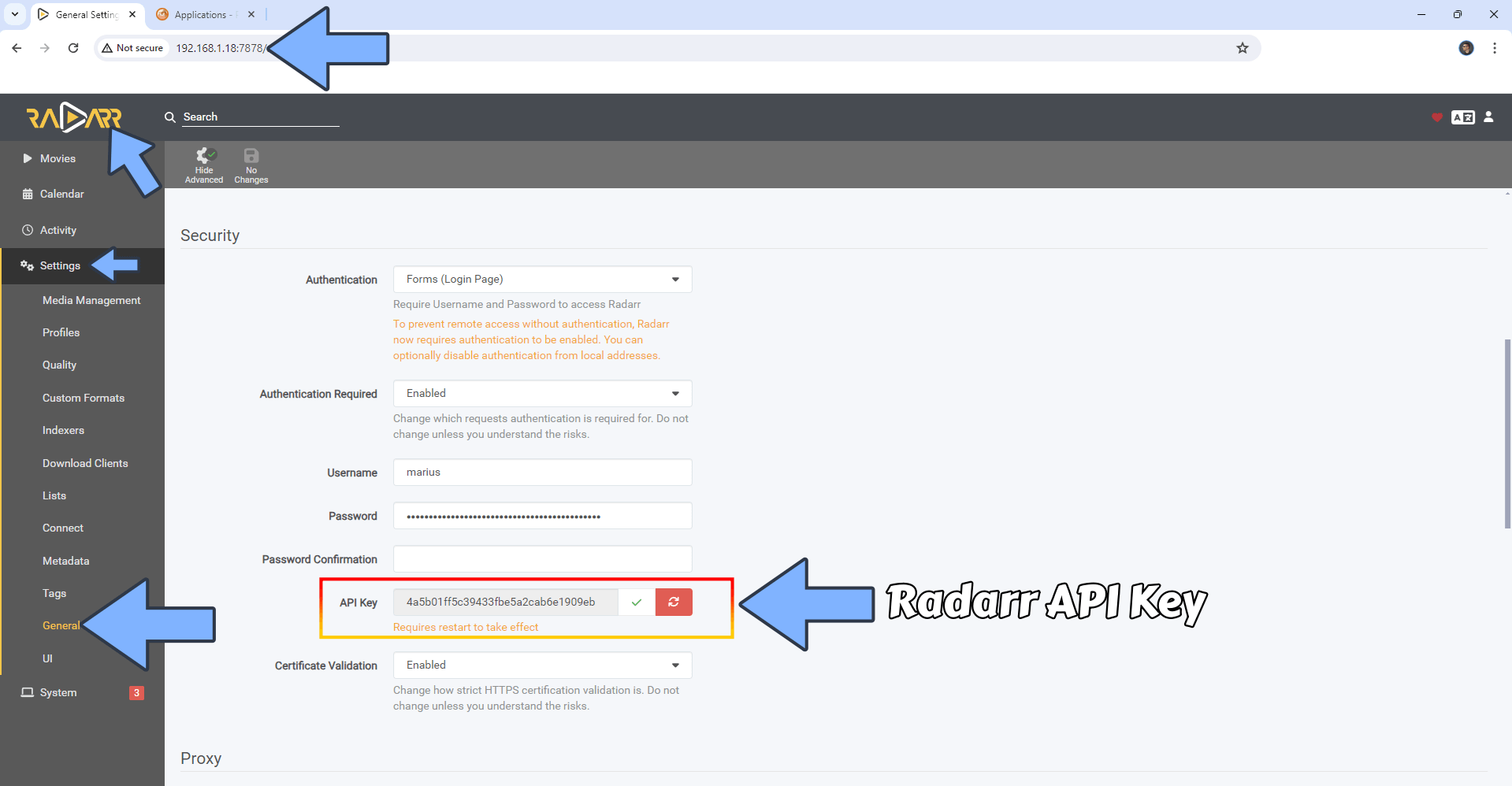
* API Key: Get this from the relevant app. In this case, Radarr. Scroll down to find out how.

1. Repeat this step for all the apps you want; LazyLibrarian, Lidarr, Mylar, Radarr, Readarr, Sonarr and Whisparr.



### How do I get the API key?

1. Open your relevant application in the browser.
2. Go to settings, then click on “General”
3. The API Key should be right there. Just click the copy button on the right, and paste that into Prowlarr.



### Connecting Flaresolverr

Some indexers, like 1337x which is one of the best free ones, require you to solve a Cloudflare verification before you get access. To make prowlarr do this, you have to use flaresolverr. To do this:

1. Go to settings, then click on indexers
2. Click the big + icon.

Et bilde som inneholder skjermbilde, programvare, Multimedieprogramvare, datamaskin

Automatisk generert beskrivelse

1. Edit the “Host” field to be “http://172.20.0.2:8191”

Et bilde som inneholder tekst, skjermbilde, nummer, Font

Automatisk generert beskrivelse

1. Click on “Test” and if it becomes green for a second it works, and you can click “Save”. If it becomes red, then double check your Host IP. It should be the same as your “synobridge” network in docker.

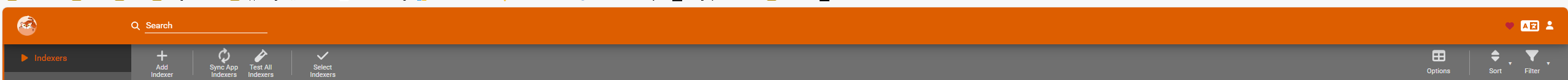
Et bilde som inneholder tekst, Font, logo

Automatisk generert beskrivelse

### Adding indexers

Indexers are the websites prowlarr search for files. Sadly, a lot of the good ones are pirvate. This means that to use them you will most likely need to pay to get access, so I will focus on the free ones.

1. Click on Indexers, then “Add Indexer”



1. Here can filter by protocol, Language, Privacy and Category. All indexers that use the “nzb” protocol are private. So you could just set the privacy to public to get a list of all the free ones. The 2 ones I would recommend to get at least are 1337x and TheRARBG for general TV and movies, and Nyaa for anime.
2. We can now search for our desired indexers, then click on the result
3. Fill out the settings. Base URL should be 1337x.to and I would also recommend to tur non advanced settings, then choose “minimum seeders: 1”.

Et bilde som inneholder tekst, skjermbilde, nummer, programvare

Automatisk generert beskrivelse

If we scroll down, we can see that it says it requires flaresolverr. Now we can click “Test” to see if it works, and if it does we can click “Save”. Do this for all your wanted indexers.

Et bilde som inneholder tekst, skjermbilde, Font, nummer

Automatisk generert beskrivelse

1. After you have added all your desired indexers, click on “Sync App Indexers” to push them to all your apps.

Et bilde som inneholder tekst, skjermbilde, design

Automatisk generert beskrivelse

1. Let’s wait 2-5 minutes for it to finish up, then we can head into our apps, like Radarr or Sonarr, and click on settings > indexers to see our selected indexers with a (prowlarr) at the end to indicate where it comes from.

Et bilde som inneholder tekst, skjermbilde, programvare, Font

Automatisk generert beskrivelse

Et bilde som inneholder tekst, skjermbilde, Font, logo

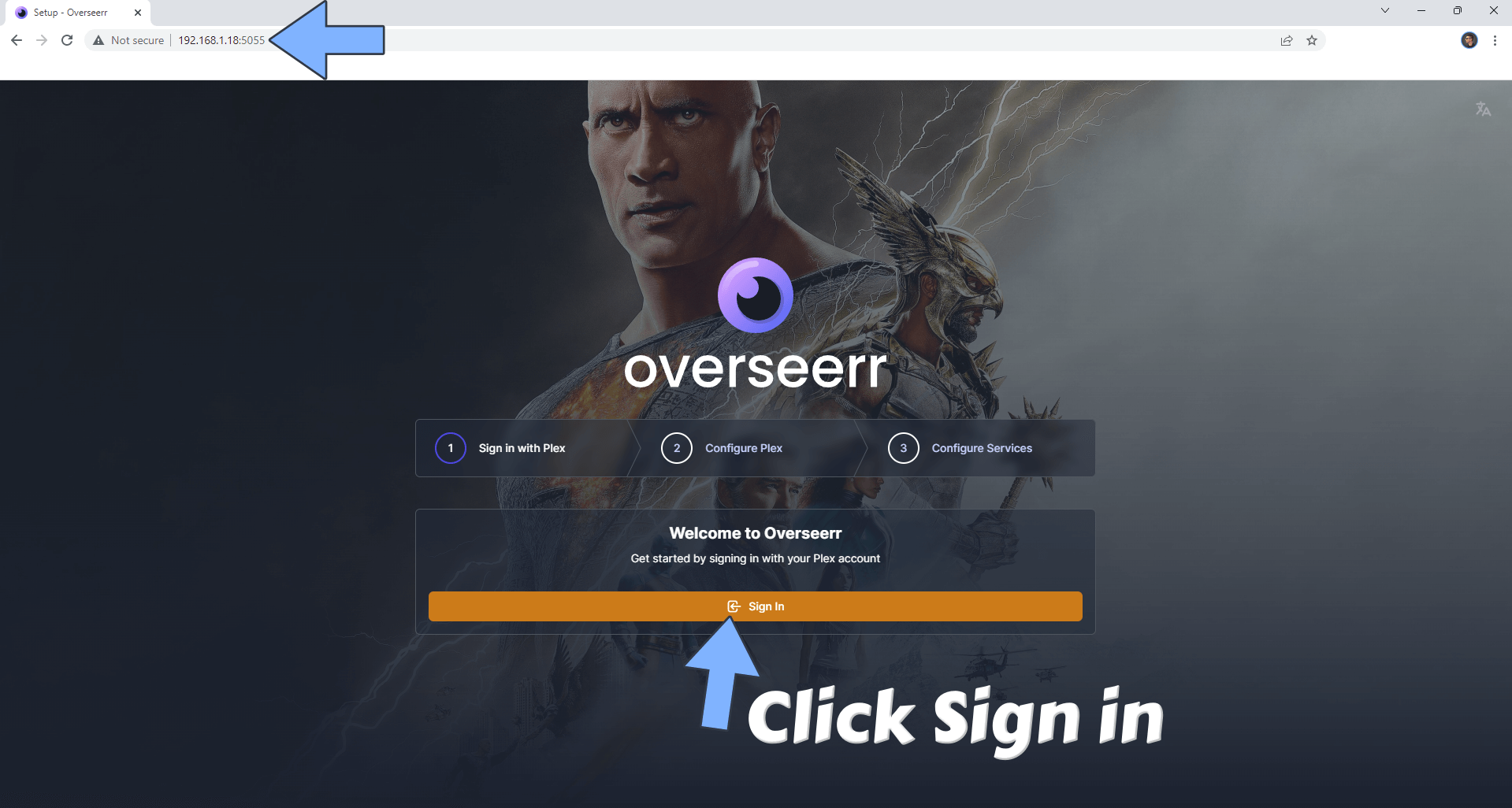
Automatisk generert beskrivelse

## Overseerr

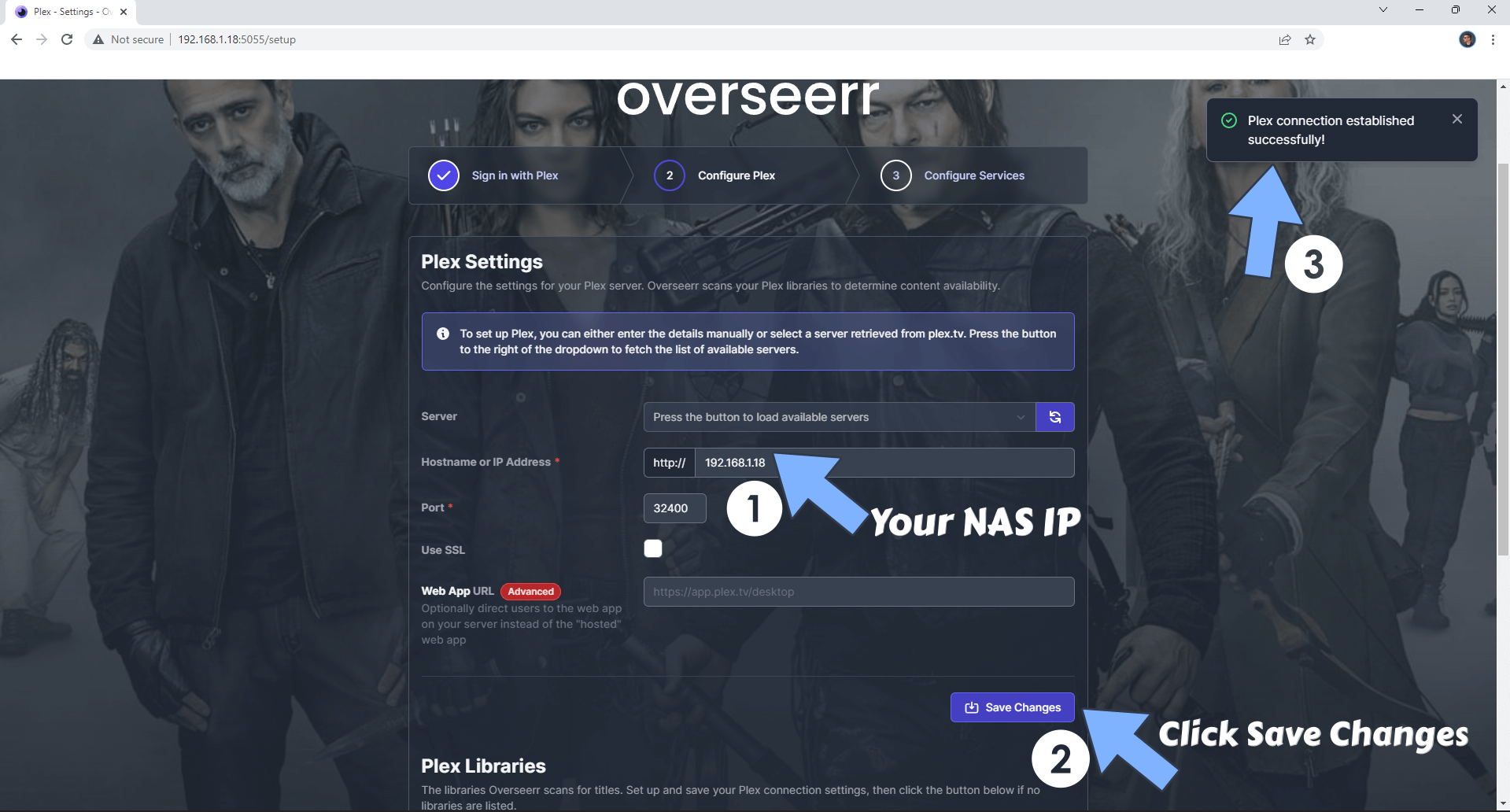
Now it’s time to take the automation to the next level. With overseer, we get a huge catalogue of movies and shows at our fingertips, and can download them with just one click.

### Configuring Overseerr

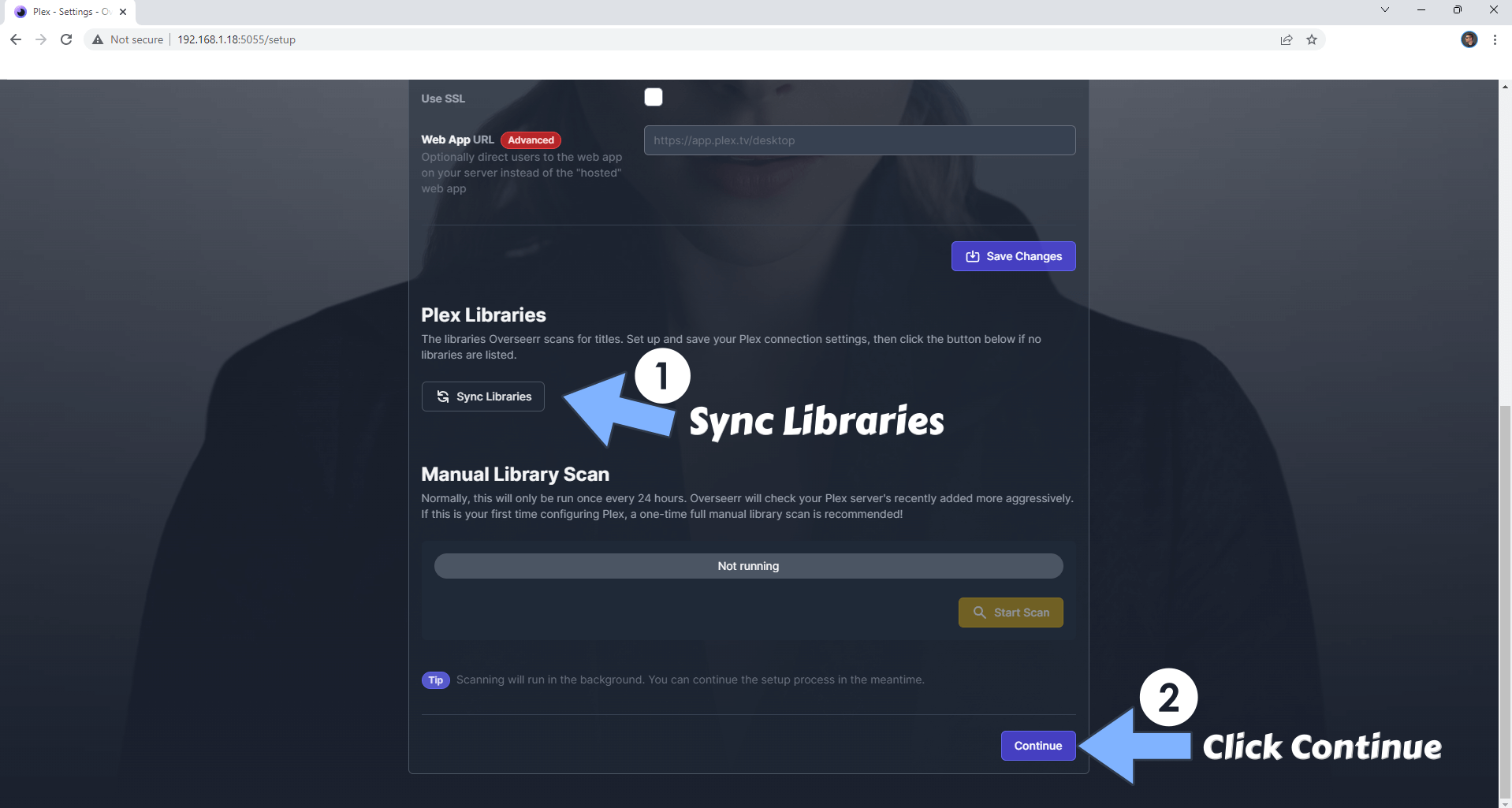
1. Go to <synolog-ip>:5055.
2. Click “Sign In”, and follow the sign in instructions



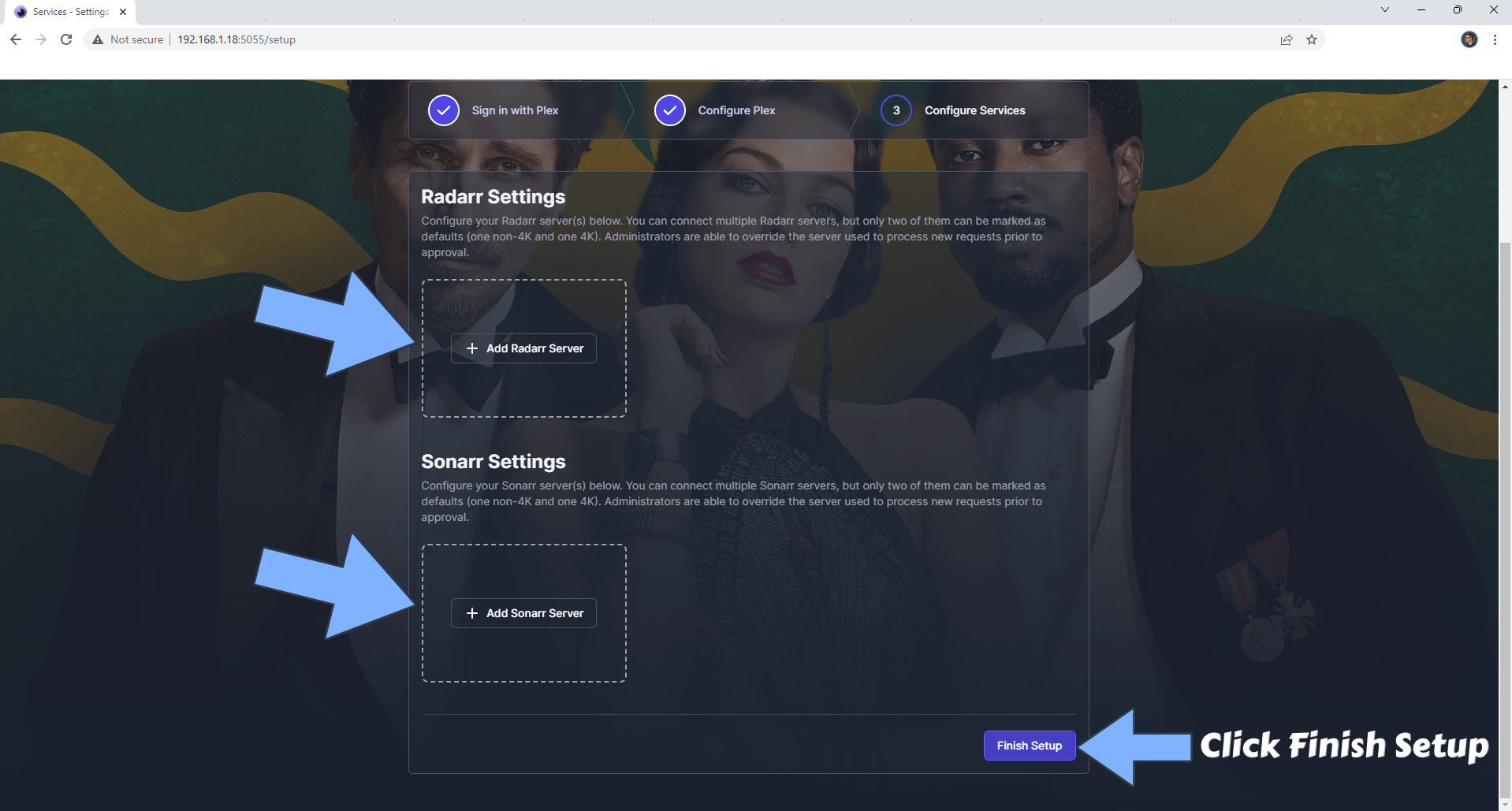
1. On the setup screen, **DON’T** use your NAS IP, but your synobridge IP. So for me it’s 172.20.0.2. If you haven’t changed the plex port, it can stay as default. Click “Save Changes”. You should now see a green checkmark at the top.



1. Scroll down a bit and click “Sync Libraries”. Afterwards you can click continue. If it’s not done syncing, it will continue in the background.



1. Add your Radarr and Sonarr by clicking the buttons as shown in the image below. Scroll down to continue.



### Adding Radarr and Sonarr

On the first-time setup, you will get a prompt to add Radarr and Sonarr. If you manage to miss it, freight not as you can do it in settings later. Just head to settings > services then click on add.

Et bilde som inneholder tekst, skjermbilde, programvare, Multimedieprogramvare

Automatisk generert beskrivelse

#### Radarr

1. When you click on “Add Radarr Server” you should see something like this:

Et bilde som inneholder tekst, skjermbilde, programvare, Multimedieprogramvare

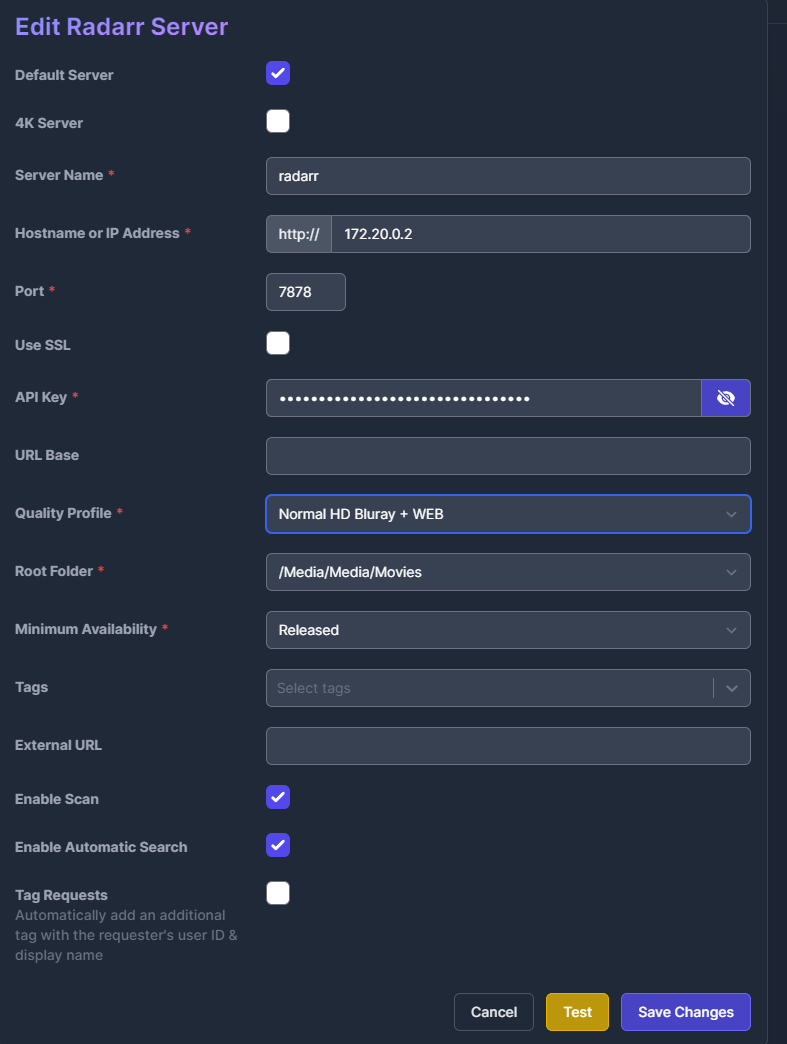
Automatisk generert beskrivelse

1. Fill out server name, hostname, port and API Key as follows:

* Server Name radar (or anything you like)
* Hostname: 170.20.0.2 (your synobridge IP)
* Port: Default. 7878 for Radar
* API Key: Your relevant API Key. Don’t know how to get it? Check the table of contents.

1. Now click on “Test”. If it’s successful, you will now get to select the rest of the settings.
2. Now configure the rest of the settings:

* Quality Profile: Your desired default quality profile. This can be changed every time you request in Overseer, but not in Requestrr
* Root folder: “/Media/Media/Movies”
* Minimum availability: Whatever you prefer. I want it to be released.
* Tick the options for “Enable scan” and “Enable Automatic Search”



1. Now we can save our changes.

#### Sonarr

1. After you click “Add Sonarr”, you should see something like this:

Et bilde som inneholder tekst, skjermbilde, programvare, Multimedieprogramvare

Automatisk generert beskrivelse

1. Fill out the settings like this:

* Servername: sonar (or anything you like)
* Hostname: 170.20.0.2 (Your synobridge IP)
* Port: Default. 8989 for Sonarr
* API Key: Your API Key. Don’t know where to get it? Check the table of contents.

1. Now we can click “Test” to test out connection. If it’s successful, we can now move on to edit some more settings.

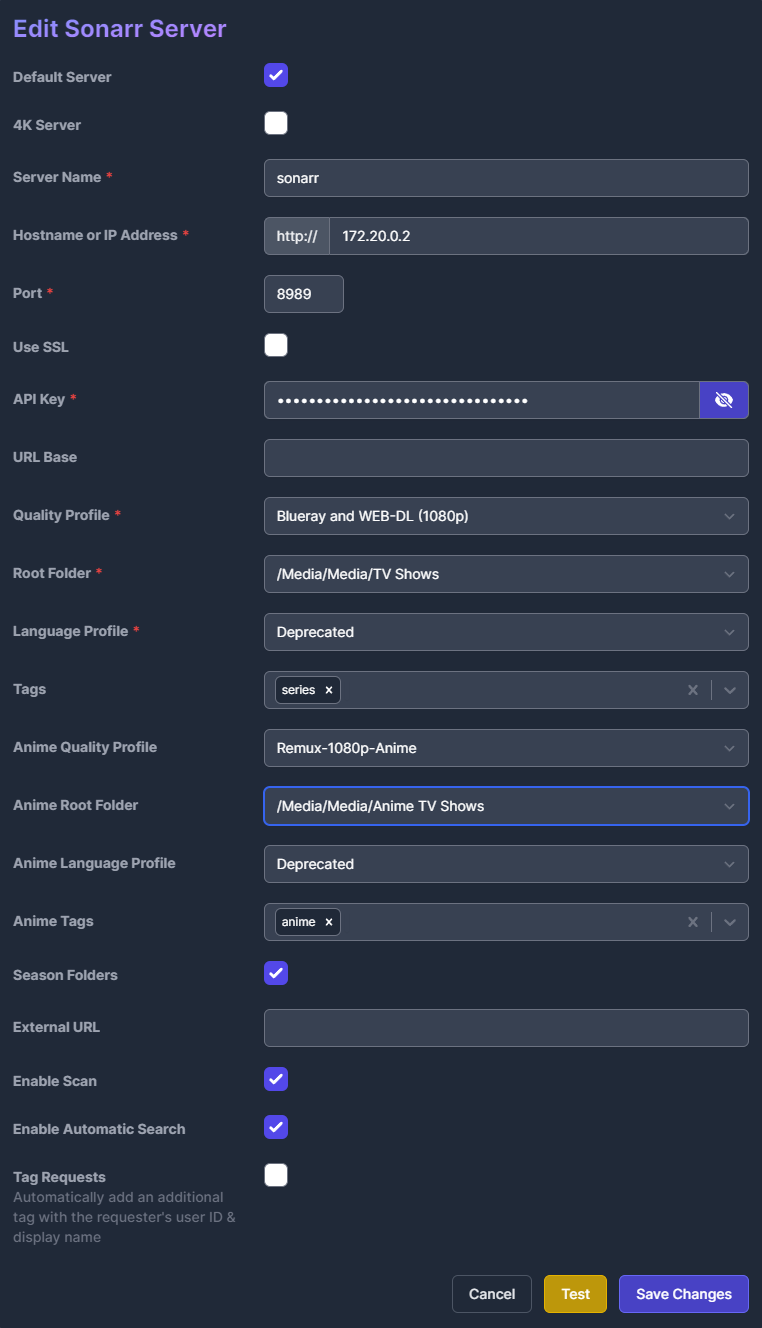
Et bilde som inneholder tekst, skjermbilde, programvare, Multimedieprogramvare

Automatisk generert beskrivelse

1. Now make these changes to the settings:

* Quality Profile: Your desired default quality profile. This can be changed every time you request in Overseer, but not in Requestrr
* Root Folder: “/Media/Media/TV Shows”
* Language Profile: Depricated
* Tags: series
* Anime Quality profile: Your desired default quality profile for anime shows. This can be changed every time you request in Overseer, but not in Requestrr
* Anime Root Folder: “/Media/Media/Anime TV Shows”
* Language Profile: Depricated
* Anime Tags: anime
* Be sure to tick the boxes for “Enable Scan” and “Enable Automatic Search”

1. Click “Save”



### Requestrr

Now we can configure Requestrr. It allows us, and our users, to request movies and TV shows through chat in discord. This is a good alternative if you don’t know how or don’t want to port forward your Overseer. Or if you plan to share your Plex with strangers and don’t want them to know your public IP-address

#### Configuring Requestrr

1. Open Requestrr in a web browser by typing <NAS-IP>:4045
2. The first time you log in, you might get a pop-up to create an authentication method just like all the other apps. Fill out the form like earlier then.
3. When we open up Requestrr, we should see our Chat clients. If not, navigate to it on the left-hand side menu.

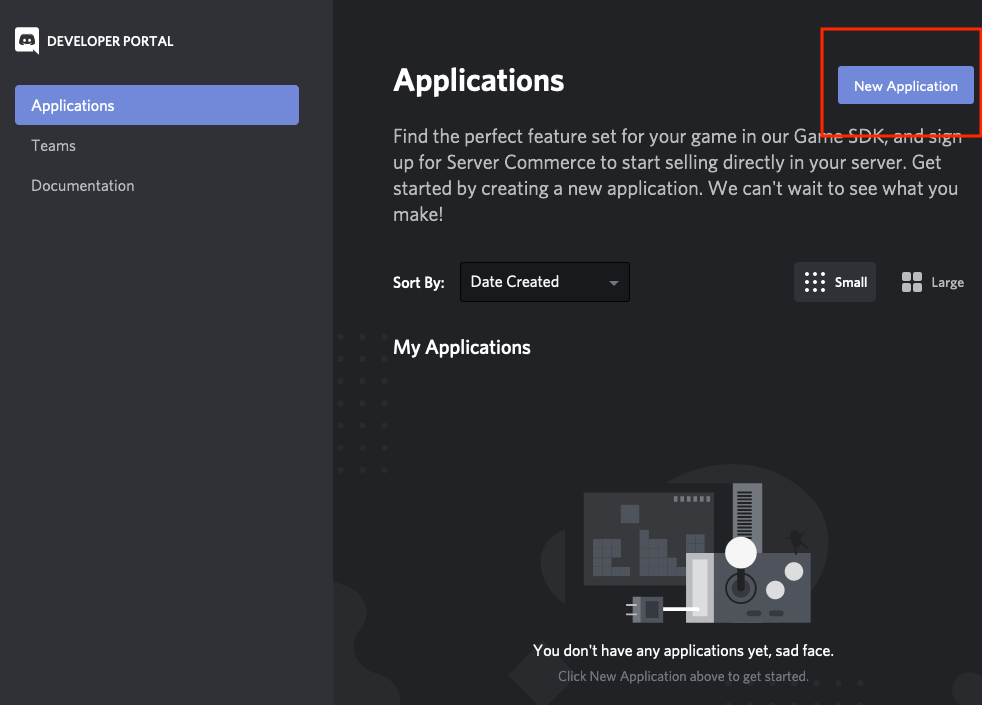
Et bilde som inneholder tekst, skjermbilde, programvare, Dataikon

Automatisk generert beskrivelse

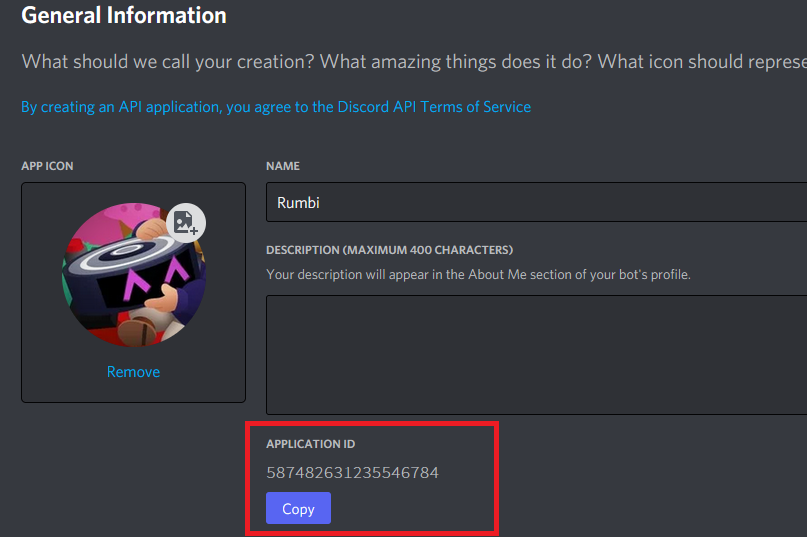
1. As you can see, we need an Application Id and Bot Token for Discord. Here is how you can get it:

#### How to get Discord Application Id and Bot Token

1. Go to Discord Developer Portal by clicking this link: <https://discordapp.com/developers/applications>
2. Click on New Application



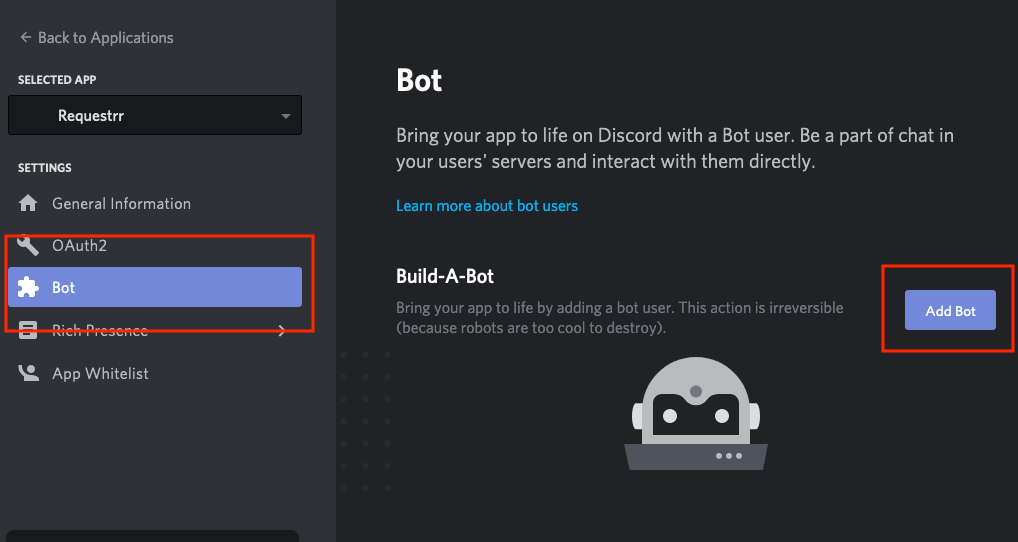
1. Give it a name and a profile picture if you so wish. The important thing is to copy the Application Id.



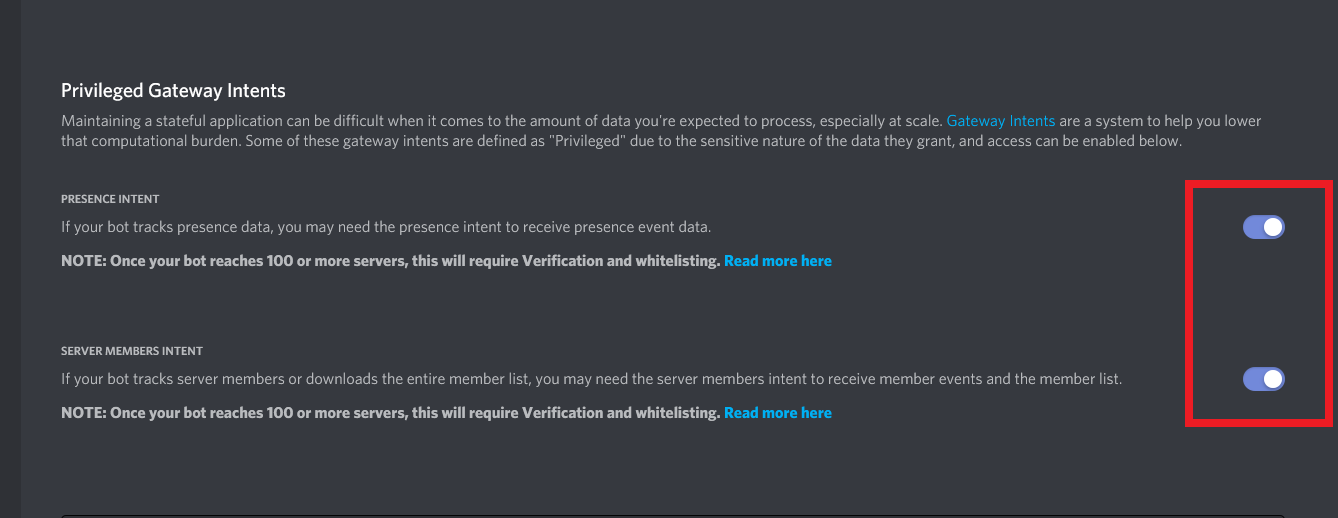
1. Paste it into Requestrr



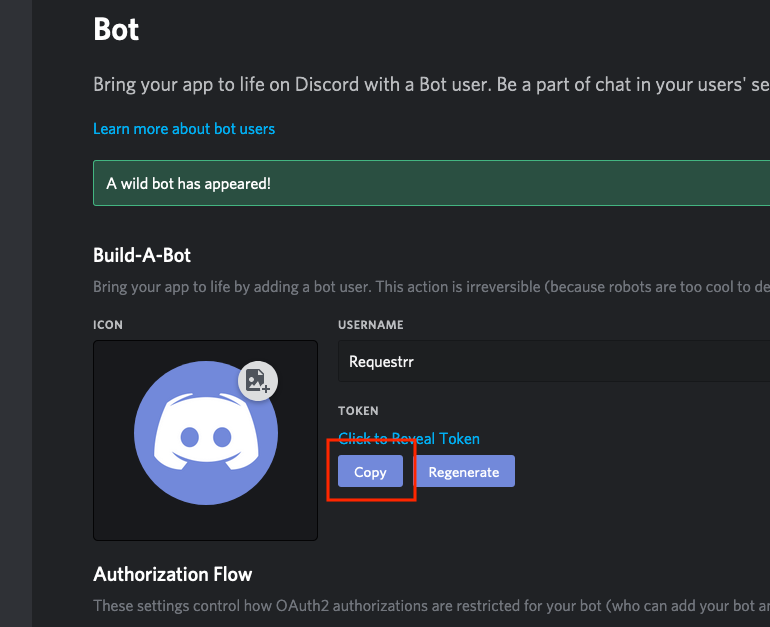
1. Go back into Discord Developer Portal and create a bot for your newly created application.



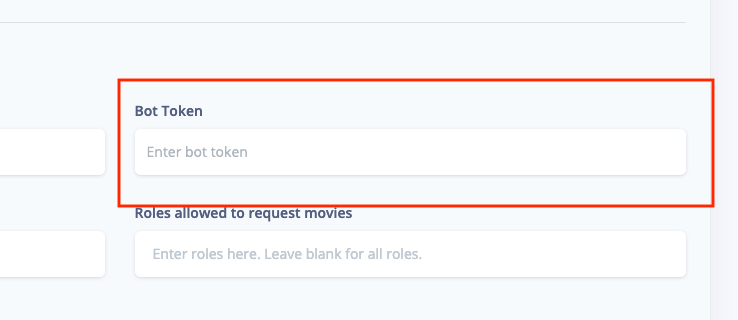
1. Make sure these 2 settings are enabled:



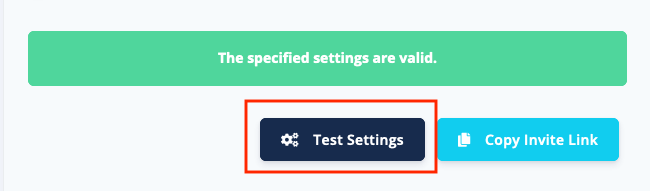
1. Now copy the Bot Token



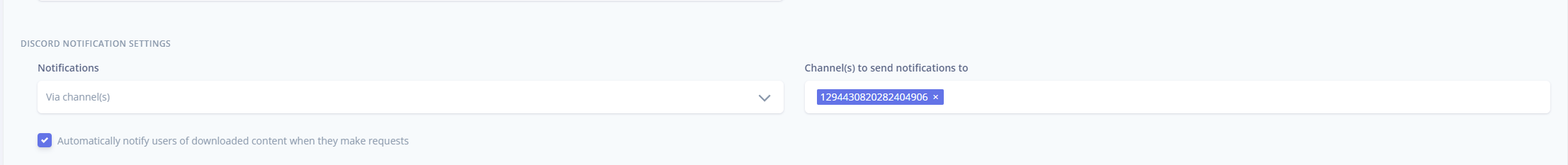
1. Paste the Bot Token into Requestrr



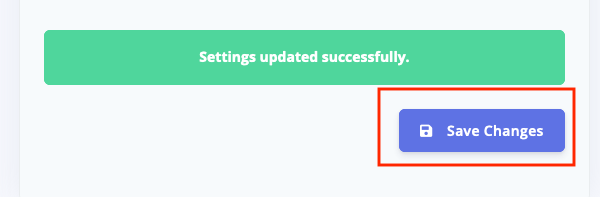
1. Click on “Test Settings” to check if the connection is good



1. Go to your discord server, right click on the channel you want your bot to be in and copy the channel ID. Paste it into “Channel(s) to send notifications to”

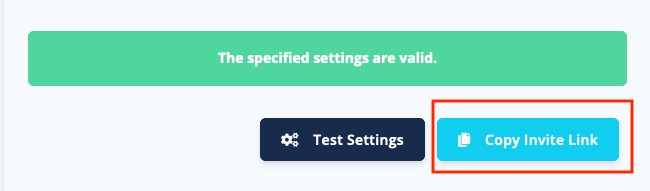


1. Finally, we can save our changes

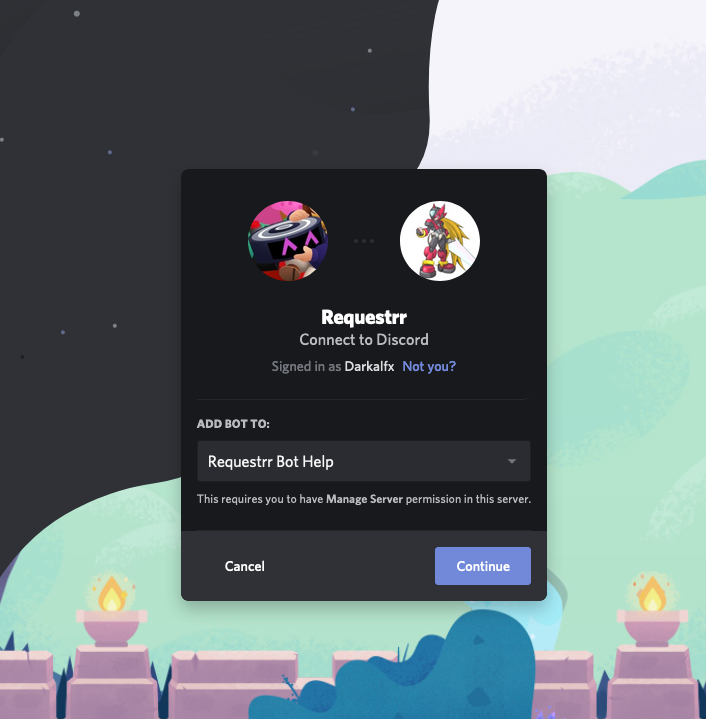


#### How to invite the bot to our Discord server

1. Be sure you have created a Discord server, or are admin in an existing one
2. Click “Copy Invite Link”



1. Choose the Server you whish to add the Bot to



#### Connecting Requestrr to Overseerr (Or Radarr, Sonarr, Ombi)

Now we have to set up Requestrr to actually, well, request. The best way would be to use Overseer or Ombi, but it also works directly with Radarr and Sonarr.

1. Go to Overseer on your web-browser. <NAS-IP>:5055
2. Go to settings (On the left-hand side menu) and make sure “Enable CSRF Protection” is disabled (unticked)
3. While you’re here, also copy your Overseer API key.

Et bilde som inneholder skjermbilde, tekst, programvare, Multimedieprogramvare

Automatisk generert beskrivelse

1. Go to Requestrr on your web-browser. <NAS-IP>:4045
2. Go to Movies (On the left-hand side menu)

Et bilde som inneholder tekst, skjermbilde, programvare, Dataikon

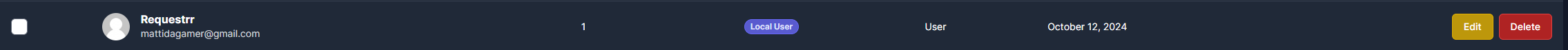
Automatisk generert beskrivelse

1. Choose Overseer as Download Client. Paste in your API Key. Host should be 170.20.0.2 (your synobridge) and port 5055.Default Overseer user is which user the requests should come from. To find out your user ID to as follows:

i Go back to overseer

ii Select “Users” from the menu

iii Then you should see a list of all your users. I made a custom Requestrr user.



Click on the desired user. Now you should see your user id



1. Click “Test Settings”, then scroll down and click on “Save Changes”
2. Now go to “TV Shows” from the menu, and do the exact same as you did for movies. Most of it should already be automatically filled out by your movies section when you select “Overseerr” as client.
3. Now it works! You can go to your server and type /help in the channel you copied the ID for earlier, and it will list all available commands.

# Sources

Marius Hosting have a lot of great guides on how to setup different things on Synology:

<https://mariushosting.com/>

DrFrankenstein’s Tech Stuff also has a lot of useful information on a bunch of subjects within the synology ecosystem:

<https://drfrankenstein.co.uk/>

TRaSH Guides. The BEST source for configuring Radarr and Sonarr:

<https://trash-guides.info/>

Radarrs official docs:

<https://github.com/Radarr/Radarr>

Sonarrs official docs:

<https://github.com/sonarr/sonarr>

Lidarrs official docs:

<https://github.com/lidarr/lidarr>

Overseerrs official docs:

<https://github.com/sct/overseerr>

Requestrrs official docs:

<https://github.com/darkalfx/requestrr>

GlueTUNs official docs:

<https://github.com/qdm12/gluetun-wiki>

Awesome -arrs wiki:

<https://github.com/Ravencentric/awesome-arr>