

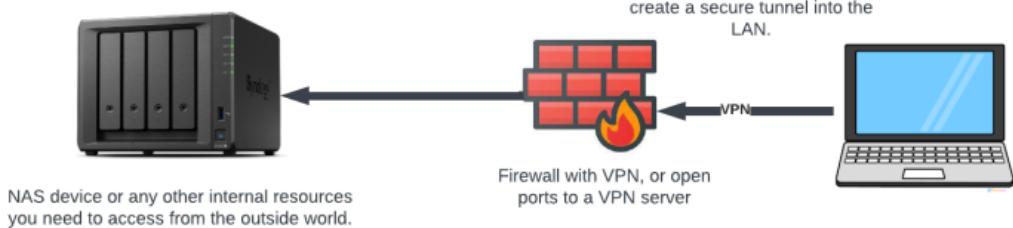


Cloudflare Tunnel Easy Setup

Cloudflare Tunnels is an AWESOME service for home users and businesses alike. But what is it exactly? Cloudflare Tunnels is kind of like a VPN connection in that it's a secure way to access resources on your internal private network from the outside world. So for instance, say you have a Synology NAS device that has a local GUI interface, and you want to change some settings – how can you log into that device and make those changes when you're travelling? There are a number of ways to skin this cat.

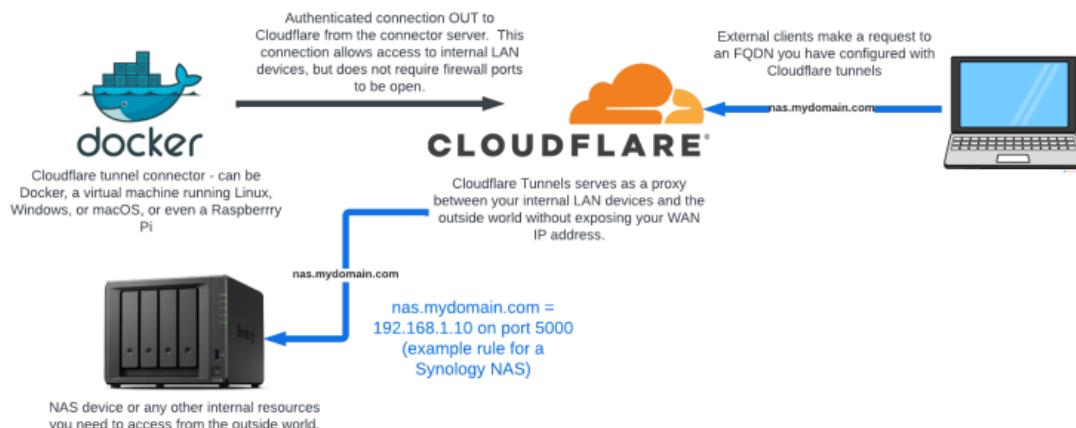
The difference with Cloudflare Tunnels vs. your traditional VPN is that you don't have to open ports in your firewall. With VPN, you connect into your VPN server (or sometimes directly to your router) through a hole that you've poked in your firewall.

Traditional VPN



With Cloudflare Tunnels, you install a client inside your network that maintains a secure connection out to Cloudflare. You then create different FQDNs (Fully Qualified Domain Names aka. DNS names aka. CNAME records) that associate with your internal services. So in our NAS example, perhaps you create a ‘synology.mydomainname.com’ for your NAS device and tell Cloudflare what the private IP address and port is. In the case of Synology, it’s an HTTP interface that runs on port 5000. BUT – when we go through Cloudflare Tunnels, it becomes an HTTPS connection on port 443 (standard) – so this is not only a convenient way to access internal resources, you also get some bonus features like that HTTP port 5000 to HTTPS port redirect. Since you’re connecting to an FQDN that Cloudflare manages, you’re also obscuring your own WAN IP address.

Cloudflare Tunnels



I recently dug deep into this technology, and it definitely took me a while to wrap my head around...so in this post, I will try to make your life easier and explain it in simple easy terms – THEN – we’ll set up our own Cloudflare Tunnel so that we can connect to our internal private devices from the outside world safely and securely. Let’s do this!

What You Need to Get Started

Domain Name – you’re going to have to give Cloudflare a domain name to use for routing FQDNs to your internal resources. Let’s say you use ‘mydomain.com.’ You’ll first set up the tunnel, and then you can add multiple resources onto this domain name such as webserver.mydomain.com, nas.mydomain.com, pihole.mydomain.com – whatever you need to connect to from the outside world can be connected to Cloudflare Tunnels...but it all starts with that domain name.

There are a number of ways to get free domain names, and you can absolutely Google search those out – for me though, I like to use Namecheap.com for my domains. Namecheap has very cost effective domain names without all the extra fluff. They also often have \$0.99 sales on new domain name purchases.

The domain name that I’m going to use for this tutorial is crosstalkwireless.net – which is a spare domain that I’m not using for anything else.

Cloudflare Account – This is pretty straight forward – head over to cloudflare.com and click the ‘Sign Up’ button in the upper right. You’ll be walked through the sign-up process, and eventually you’ll be logged into the Cloudflare dashboard. It’s free!

Cloudflared Connector – This is a server or Docker container on your local network that connects out to Cloudflare. The service that it runs is called ‘cloudflared’ (short for cloudflare daemon). Essentially, this is a device on your network that authenticates and holds open a connection to Cloudflare’s services. Cloudflare allows you to install the cloudflared connector on Windows, macOS, Linux, Docker – lots of options.

Choose your environment

Choose an operating system:

 Windows  Mac  Debian  Red Hat  Docker

Choose an architecture:

 64-bit  32-bit

Cloudflared options

In this tutorial, we’re going to be using Docker on a Synology NAS since it’s very lightweight. I have also successfully set up cloudflared in Ubuntu running on a virtual machine in my Synology NAS, which was pretty easy, but the overhead of the operating system takes away from the resources of the NAS vs. Docker which isn’t quite as resource intensive. You can pick the best way to set up the connector for your own environment – as long as it connects and authenticates to Cloudflare, it’ll work. We’ll dig more into the connector a bit later in this tutorial.

Let’s Get Started!

The first thing you want to do is add your domain name to Cloudflare and switch over the root nameservers for that domain. From the Cloudflare dashboard, click on Websites in the left-hand menu and then click ‘Add a Site.’

Enter in your domain name and click ‘Add site.’

Accelerate and protect your site with Cloudflare

Enter your site (example.com):

crosstalkwireless.net

1

Add site

2

Need more help adding a site? Check out our guided [learning path](#).

Add your site (domain name) and click 'Add site.'

You're going to be presented with some pricing options, but if you scroll down to the bottom, you have the option to click on a Free version of Cloudflare – pick the Free version and then click 'Continue.'

Pro

\$20 PER MONTH

For professional websites that aren't business-critical.

Core Features

Everything in Free, and:

- Enhanced Web Application Firewall (WAF) capabilities
- Lossless image optimization
- Automatic mobile optimization
- Cache Analytics
- Enhanced bot mitigation
- Super Bot Fight Mode
- Cloudflare Managed Ruleset
- APO plugin for Wordpress

20 Page Rules

20 WAF Rules ①

Support

Ticket.

Business

\$200 PER MONTH

For growing small businesses operating online.

Core Features

Everything in Pro, and:

- 100% uptime SLA
- 24x7x365 chat support
- PCI DSS 3.2 compliance
- CNAME set-up compatibility
- Bot Analytics
- Custom + BYO SSL

50 Page Rules

100 WAF Rules ①

Support

Chat, plus ticket.

Enterprise

Custom

For mission-critical applications that are core to your business.

Core Features

Everything in Business, and:

- Prioritized IP ranges
- Solutions engineer support
- 25x reimbursement uptime SLA
- Role-based account access
- Mitigation for all bots
- Access to non-contract services

Free

1

For personal or hobby projects.

Support

Community and developer docs.

Core Features

- Fast, easy-to-use DNS
- Unmetered DDoS Protection
- Global CDN

- Universal SSL Certificate

- Free Managed Ruleset

- Simple bot mitigation

3 Page Rules

5 WAF Rules ①

[Which plan is right for you?](#)

2

Continue

Scroll down to the Free version and click 'Continue.'

Cloudflare then scans your domain and replicates any existing records for you – since this is a brand new domain that we're using for our Tunnels setup, we can just click on 'continue' at the bottom.

DNS management for **crosstalkwireless.net**

Import DNS Records ▾

Search DNS Records

Search + Add record

Type	Name	Content	Proxy status	TTL	Actions
A	crosstalkwireless.net	192.64.119.213	Proxied	Auto	Delete
CNAME	www	parkingpage.namecheap.c...	Proxied	Auto	Delete
MX	crosstalkwireless.net	eforward3.registrar-serv...	10 DNS only	A.▼	Edit
MX	crosstalkwireless.net	eforward2.registrar-serv...	10 DNS only	A.▼	Edit
MX	crosstalkwireless.net	eforward1.registrar-serv...	10 DNS only	A.▼	Edit
MX	crosstalkwireless.net	eforward4.registrar-serv...	15 DNS only	A.▼	Edit
MX	crosstalkwireless.net	eforward5.registrar-serv...	20 DNS only	A.▼	Edit
TXT	crosstalkwireless.net	v=spf1 include:spf.efwd.regi...	DNS only	A.▼	Edit

Continue 

Technically, I can delete the 'parkingpage' CNAME record since I won't be using that. Or just click 'continue.'

Next, Cloudflare is going to give us the DNS names for the DNS servers that we should use as the root domain servers for our domain name. Basically, this just means that right now, when you perform a DNS lookup to crosstalkwireless.net, that lookup is being handled by Namecheap's DNS nameservers. We want to change our domain name so that all DNS lookups are instead handled by Cloudflare's nameservers.

Change your nameservers

[← Back](#)



Pointing to Cloudflare's nameservers is a critical step in activation and must be complete for Cloudflare to optimize and protect your site.

① Nameservers are your primary DNS controller and identify the location of your domain on the internet.

1. Log in to your [Namecheap](#) account

2. Remove the following nameservers

[dns1.registrar-servers.com](#)

[dns2.registrar-servers.com](#)

3. Add Cloudflare's nameservers

[jade.ns.cloudflare.com](#) [Click to copy](#)

[jay.ns.cloudflare.com](#) [Click to copy](#)

4. Save your changes

Registrars can take 24 hours to process nameserver updates. You will receive an email when your site is active on Cloudflare.

[Done, check nameservers](#)

Every domain name provider is going to give you a way to do this, and they'll all be slightly different. If you're using Namecheap for your domain names, these instructions will work – but if you're using a different domain name provider, you'll have to search out how it's done for your own DNS host.

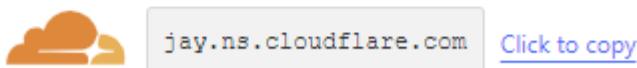
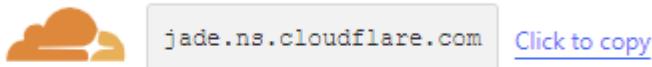
Logging into Namecheap.com, first click on Domain List in the left-hand menu, and then click the 'Manage' button next to the domain name you're using with Cloudflare.

In the section that says 'Nameservers,' by default it's going to be set to 'NameCheap Basic DNS.' Drop down that option and instead choose 'Custom DNS.'

The screenshot shows the Namecheap 'Manage' interface. On the left, there are two tabs: 'NAMESERVING' (which is selected) and 'REDIRECT DOMAIN'. In the center, there is a dropdown menu with three options: 'Namecheap BasicDNS', 'Namecheap Web Hosting DNS', and 'Custom DNS'. A red arrow points to the 'Custom DNS' option, indicating it should be selected.

Cloudflare already gave us the nameservers to enter in here – so go back to Cloudflare and copy each of those nameservers and then paste them into Namecheap (or your own domain hosting provider):

3. Add Cloudflare's nameservers



Copy from Cloudflare

A screenshot of the Cloudflare DNS settings page under the "NAMESERVING" tab. It shows two nameservers listed: "jade.ns.cloudflare.com" and "jay.ns.cloudflare.com". Below the list is a red "ADD NAMESERVER" button. At the top right is a "Save" button with a green checkmark and a red X. A question mark icon is also present.

Paste into Namecheap and then click the green checkmark to save.

Once those are pasted in, click the green checkmark to save.

Go back to Cloudflare and click the 'Done, check nameservers' button. You should be routed to the Quick Start Guide – you can just click 'Finish Later' or you can take all the defaults.

Quick Start Guide

[← Back](#)

Configure your domain settings to improve security, optimize performance, and get the most from your account.

- 1 Improve security
- 2 Optimize performance
- 3 Summary

[Get started](#)

[Finish later](#)

Finish later or take the defaults here.

Back in the Overview screen, you may be given a button to check Nameservers again – just click it and you'll see this notification:

[Save your changes.](#)

Registrars can take 24 hours to process nameserver updates. You will receive an email when your site is active on Cloudflare.

Cloudflare is now checking the nameservers for [crosstalkwireless.net](#). Please wait a few hours for an update.

And now...we wait.

This process can take some time, but you'll receive an email once Cloudflare has detected the name server change. Now would be a great time to go grab a cup of coffee!

 Buy me a coffee!

Once your nameservers have been updated and verified by Cloudflare, you'll see the domain as 'Active' in the Cloudflare dashboard.

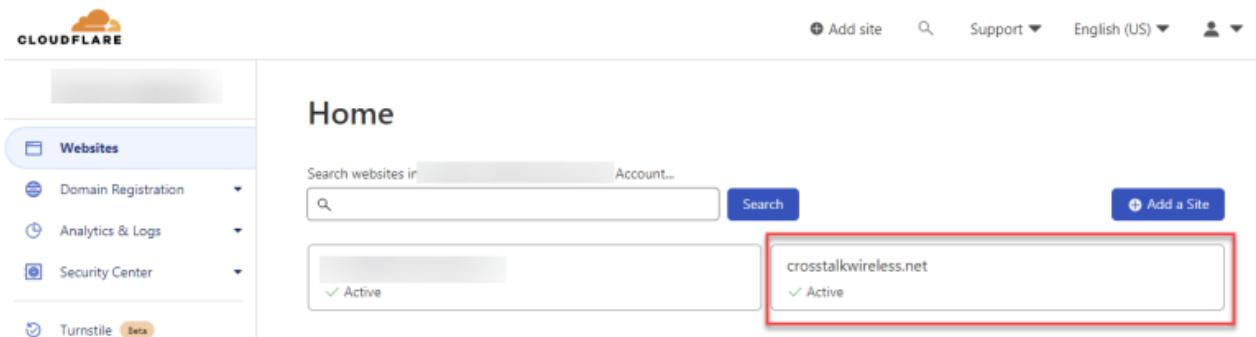


Success!

Create a Tunnel

The next step is to set up our Cloudflare tunnel. This is the connection between your LAN and the Cloudflare services. There are two pieces to this puzzle – creating the tunnel itself, and then creating a connector on our LAN that will communicate outbound with the tunnel that we created. When we have both of these pieces working, we have effectively created a secure connection between our LAN and Cloudflare that we can then build upon to access our internal services.

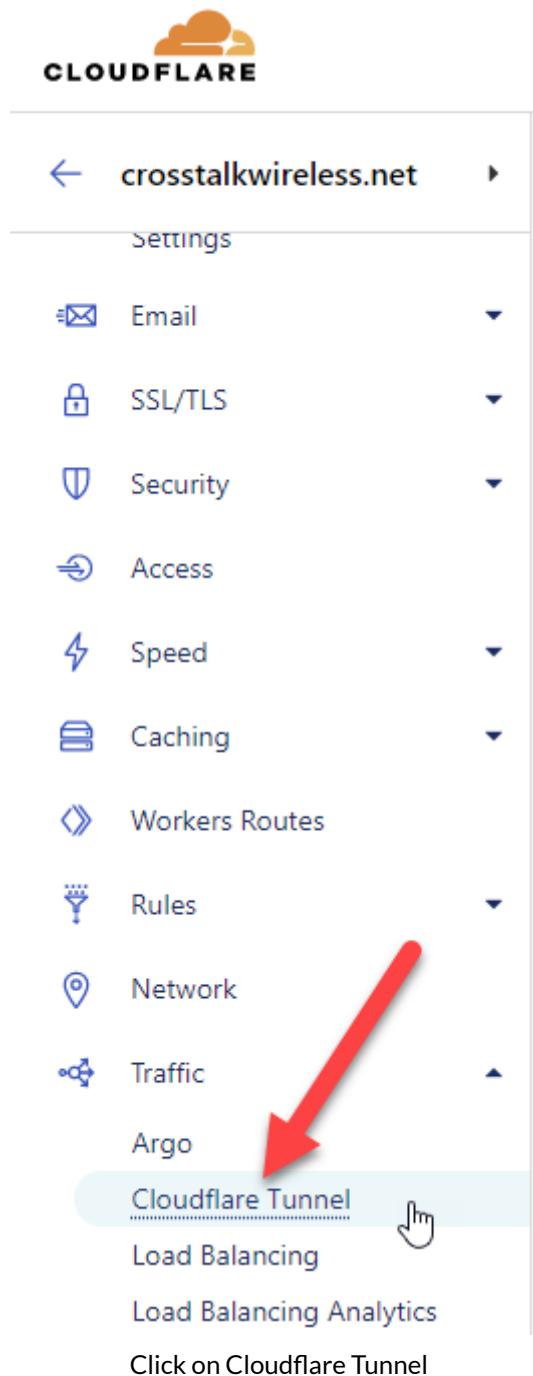
In the Cloudflare dashboard (you can get there by clicking the Cloudflare logo in the upper left-hand corner), you should see all of your Cloudflare-managed domains. Click on the domain that you just added.



The screenshot shows the Cloudflare Home dashboard. On the left, there's a sidebar with options like 'Websites', 'Domain Registration', 'Analytics & Logs', 'Security Center', and 'Turnstile'. The 'Websites' section is currently selected. In the main area, there's a search bar with placeholder text 'Search websites in...' and a 'Search' button. Below the search bar, the domain 'crosstalkwireless.net' is listed with a green checkmark icon and the word 'Active' next to it. This entire row is highlighted with a red rectangular box. At the top right of the dashboard, there are buttons for 'Add site', 'Support', 'English (US)', and a user profile icon.

Click on the domain that you added to Cloudflare.

Then click on 'Cloudflare Tunnel' which is located in the left-hand menu underneath 'Traffic.'



This will get us to the link to the Zero Trust Dashboard, which is where we will do the bulk of configuration with our tunnel.

Traffic

Cloudflare Tunnel

Legacy Tunnels are becoming unsupported. You should migrate all existing legacy tunnels to Named Tunnels by October 1, 2022. For more information on this change, refer to our [documentation](#). X

Cloudflare Tunnel

Cloudflare Tunnel exposes applications running on your local web server on any network with an internet connection without manually adding DNS records or configuring a firewall or router.

Launch the Zero Trust Dashboard to view your Tunnels and create Zero Trust policies for your team.

[Launch Zero Trust Dashboard](#)

[Help](#)

Click on 'Tunnels' under the 'Access' section of the left-hand menu and then click on 'Create a Tunnel.'

The screenshot shows the Cloudflare Zero Trust dashboard. On the left, there is a vertical navigation menu with the following items:

- Cloudflare Zero Trust
- Home
- Analytics
- Gateway
- Access
 - Applications
 - Access Groups
 - Service Auth
 - Tunnels** (highlighted with a red circle containing the number 1)
- My Team
- Logs

The 'Tunnels' item is highlighted with a red circle containing the number 1. To its right, the main content area displays the following:

Create your first tunnel

Tunnels allow you to easily and securely connect your environment to Cloudflare so that your users can reach public or private resources.

2 Create a tunnel

If you need help, check out our [documentation](#) on tunnels.

Access -> Tunnels -> Create a tunnel

Give your tunnel a descriptive name such as the highly imaginative name 'mytunnel' that I used in the screenshot below, and then click 'Save tunnel.'

Create a tunnel

Create a tunnel to connect HTTP web servers, SSH servers, remote desktops, and other protocols safely to Cloudflare.

[Learn more](#)

Name your tunnel > Install connector > Route tunnel

Name your tunnel

Use a descriptive name based on the network you want to connect. We recommend creating only one tunnel for each network.

Tunnel name (Required)

mytunnel

1

For example, enterprise-VPC-01

2

Back

Save tunnel

Name your tunnel and save.

On the next screen, you're going to be asked about the environment in which your tunnel will be installed. For the purposes of this tutorial, we're going to be using Docker, but if you're using Windows, Linux, macOS, etc., you'll want to pick the appropriate environment and then follow the instructions in the box below your selection.

Configure mytunnel

Name your tunnel > **Install connector** > Route tunnel

Choose your environment

Choose an operating system:

Windows

Mac

Debian

Red Hat

Docker

1

Choose your environment

Install and run a connector

To connect your tunnel to Cloudflare, copy-paste one of the following commands into a terminal window. Remotely managed tunnels require that you install cloudfred 2022.03.04 or later.

① **Store your token carefully.** This command includes a sensitive token that allows the connector to run. Anyone with access to this token will be able to run the tunnel.

x

```
docker run cloudflare/cloudfred:latest tunnel --no-autoupdate run --token  
$ eyzhijoinNTU2MDgvOGMzDk1NGNlZjNjZTBhyzg1NmRiOZjN2iLC01joimDNKyjdNjEtZmQ1zi00NGMzLTkyMjIthmQ3MDQzzjAzNzAzIiwicy  
16Ik1UzzBze1jsTnpBdE9UZGp0aTAwTjJRekxUa3lNRFl0TURRMU1XVTNzekZoT1dVNC9
```

2

Follow the instructions

[View Frequently Asked Questions](#)

Choose your environment. Notice how the connector instructions change based on the environment selected.

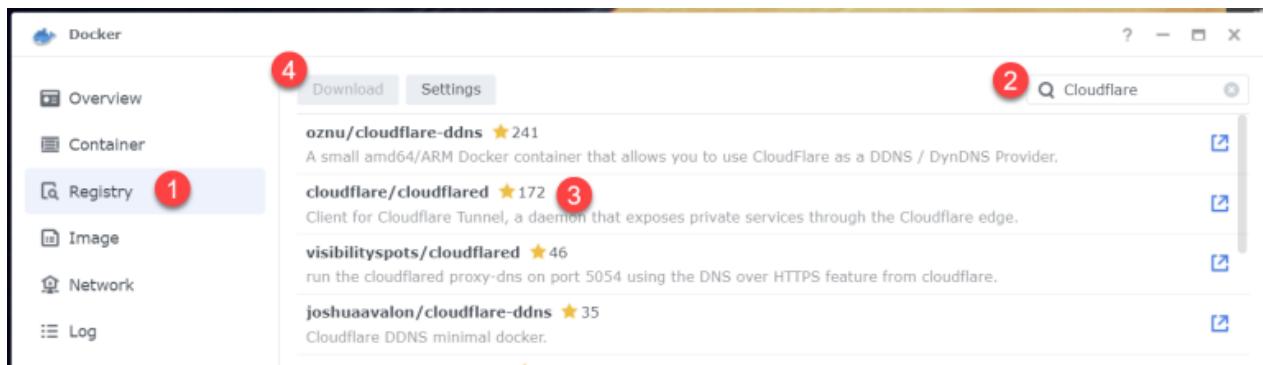
Below those instructions, you'll see the connector status – this will be blank for now since we haven't set up our connector yet, but when you do create the connector, this is where you can check if it's connected and working properly.

REMEMBER THIS PAGE! We're going to be back here in just a minute.

Create the Connector

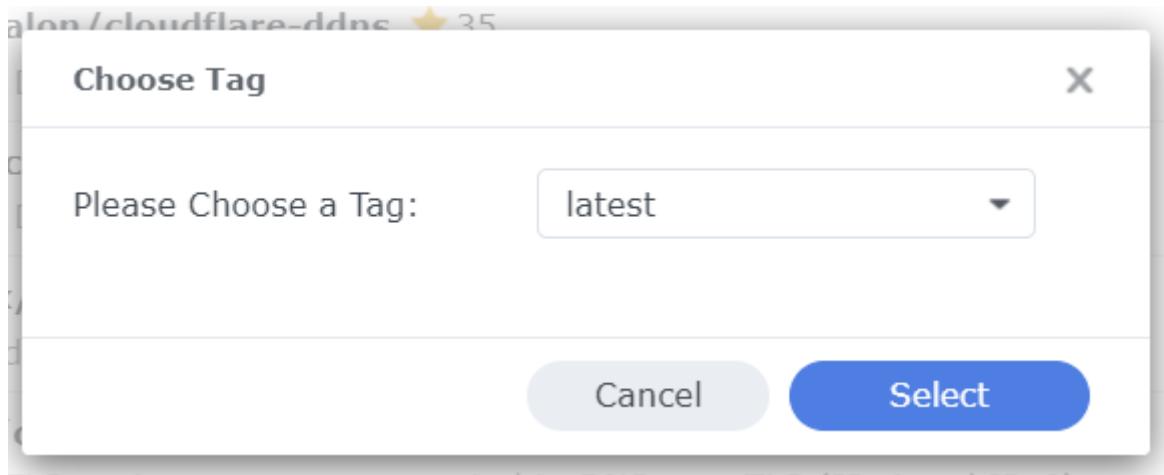
We're going to be using Docker for this tutorial, and more specifically, we're going to be using the Docker application in the Synology NAS. If you're using more traditional command-line based Docker, you can simply copy/paste the Docker command that Cloudflare gives you right into your CLI. If you're using something like Portainer to manage your Docker containers, you'll have to modify the command similar to what we're going to do with Synology's Docker application, but all the info you need is in that command line string.

These next steps will be in the Synology Docker application, so head over to your Synology NAS, log in, and then install and/or run the Docker application. Once you're in Docker, click on 'Registry' in the left-hand menu and then search for Cloudflare in the search box. You will see a list of Cloudflared-related items in the resulting window – click on the one that says 'cloudflare/cloudflared' and then click the 'Download' button in the top bar.



Search for the Cloudflare docker image. Select it and choose 'Download.'

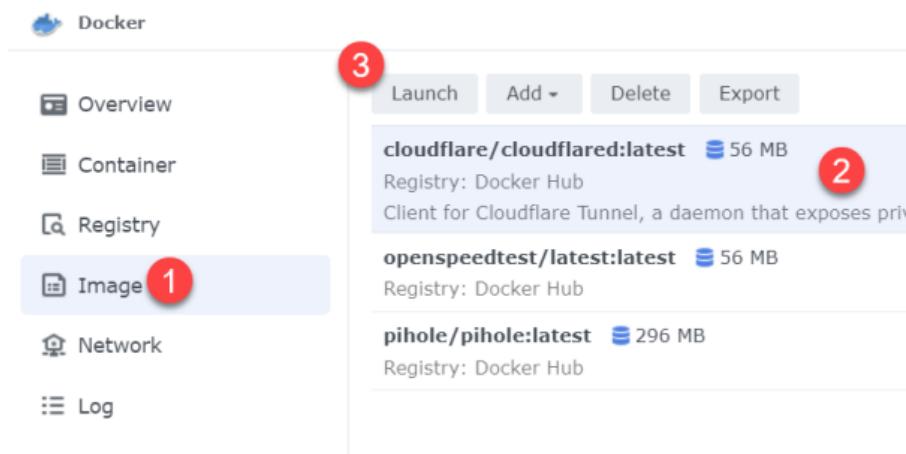
Pick 'latest' when prompted and then click 'Select.'



Choose 'latest' and then click 'Select.'

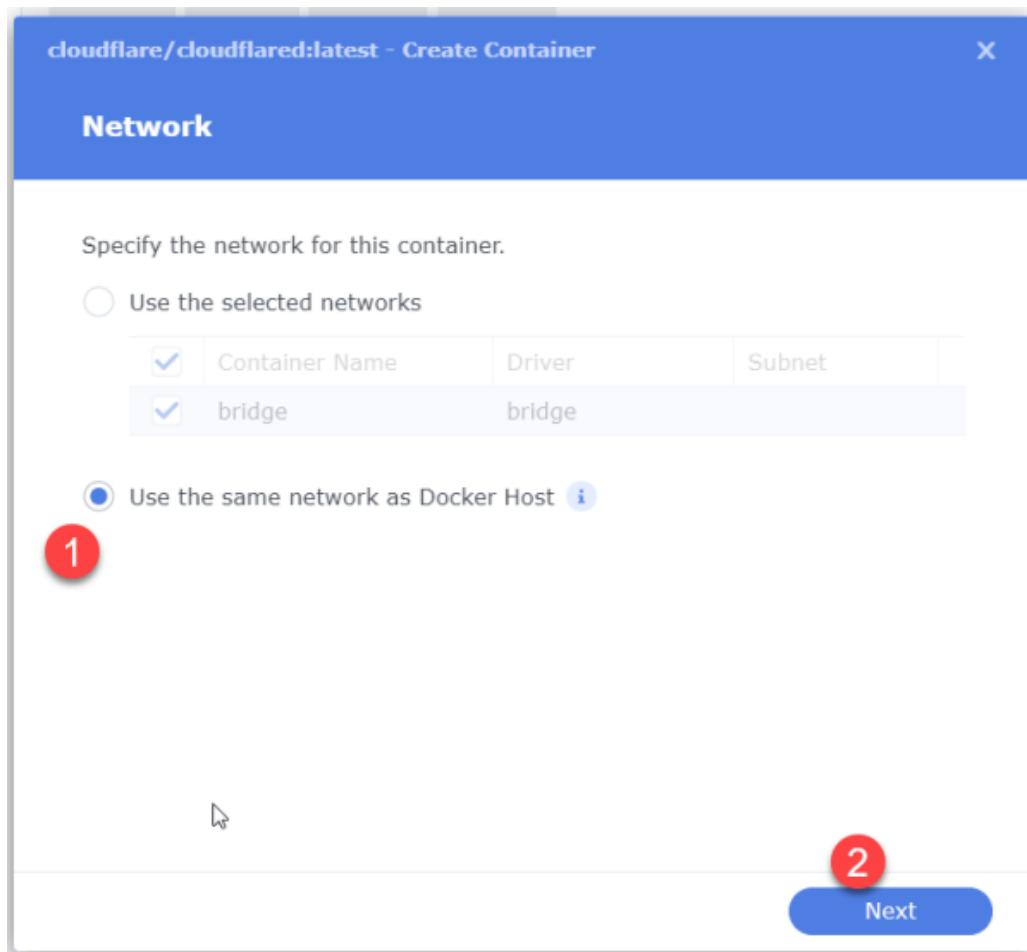
The Cloudflare Docker image will download and you'll get a notification when it's done (should just take a few seconds). You can now click on 'Images' in the left-hand menu, and you'll see the Cloudflare Docker image that was just downloaded.

Click on the image and then click 'Launch.'



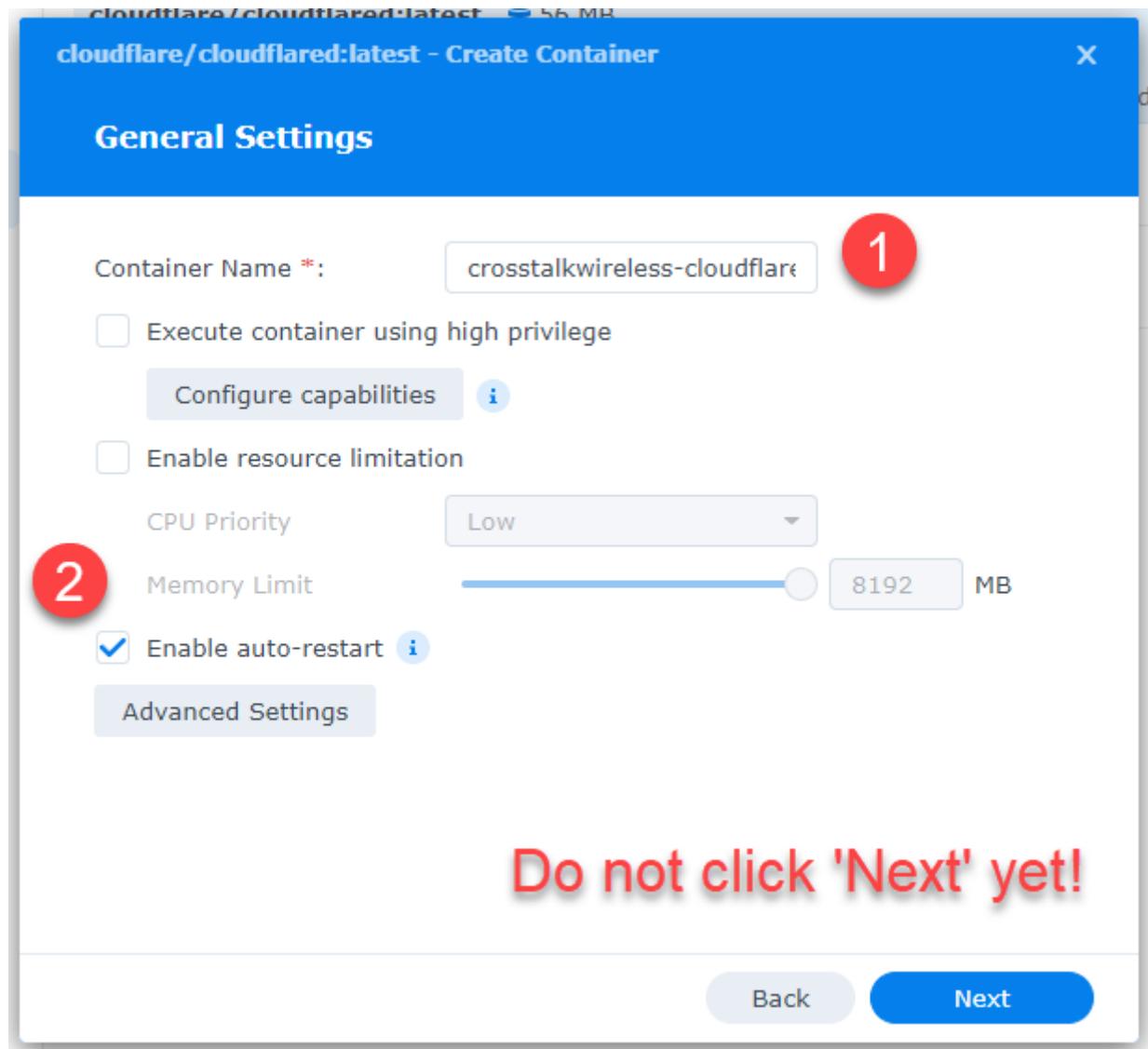
Click on the Docker Image and then click 'Launch.'

This will start the Create Container wizard. For the first step, we don't really need this Docker container to have its own IP address on the network, so we can choose 'Use the same network as the Docker Host. Click Next.



Use the same network as the Docker Host.

On the next screen, give your connector container a name – I'm calling mine 'crosstalknetworking-cloudflared.' Then check the box for 'Enable auto-restart.' DO NOT click 'Next' yet.



Name it, click Enable auto-restart, but don't click Next yet!

Here's the trickiest part of creating this connector – we have to give it a specific execution command that includes the cloudfared token for authentication with Cloudflare.

Remember the Docker configuration page in Cloudflare that had our instructions for the Docker container? Let's go back to that page.

We're going to want to copy the Docker command that Cloudflare gives us – click the 'copy' button to copy the whole string to your clipboard – then open a text editor like Windows Notepad and paste it in. Let's take a closer look at that command:

```
docker run cloudflare/cloudfared:latest tunnel --no-autoupdate
run --token eyJhIjojNTU2MDgwOGM3ZDk1NGNlZjNjZTBhYzg1NmRiODZjN2Ii
LCJ0IjojMDNkYjdmdNjEtZmQ1Zi00NGMzLTkyMjItNmQ3MDQzZjAzNzAzIiwicyI6
Ik1UZzBZelJsTnpBdE9UZGp0aTAwTjJRekxUa3lNRFl0TURRMU1XVTNZekZoT1dV
NCJ9
```

There are a few components here – I have indicated in **BOLD** the ones we need to keep...but first, let's take a close look at this string.

- docker is the executable command we would run if we were doing this in the Linux CLI. That can be disregarded since we're using Synology's Docker application.
- run means 'run' this command – we'll need to keep the 'run' but we're going to move it to a different spot.
- cloudflare/cloudflared:latest is the Docker container that we want to run – but since we've already selected cloudflare/cloudflared:latest in the Synology application, we can disregard it here.
- tunnel means create a tunnel.
- run again! (we'll leave this one)
- -no-autoupdate means that we want to manually run updates for this Docker container.
- -token is our authentication token (don't worry that I've shown mine here – this tunnel will be destroyed by the time this article is published).

So now we've broken down the various components of this command, we need to adjust it a bit – here's what we need to do in Notepad:

- delete out anything that is not in **BOLD** above (docker, cloudflare/cloudflared:latest, and -no-autoupdate)
- second, just to be sure – make sure you deleted the first 'run' but not the second one

When you're finished, the string should look like this:

```
tunnel run --token eyJhIjoiNTU2MDgw0GM3ZDk1NGNlZjNjZTBhYzg1NmRi0DZjN2IiLCJ0IjoiMDNkYjdmNjEtZmQ1Zi00NGMzLTkyMjItNmQ3MDQzZjAzNzAzIiwicyI6Ik1UZzBZe1JsTnpBdE9UZGp0aTAwTjJRekxUa3lNRFl0TURRMU1XVTNZeKZoT1dVNCJ9
```

Copy this new command to the clipboard and then head on back over to the Synology Create Container wizard.

Back at the Wizard, click on 'Advanced Settings.'

General Settings

Container Name *:

crosstalknetworking-cloudf

 Execute container using high privilege[Configure capabilities](#) [i](#) Enable resource limitation

CPU Priority

Low

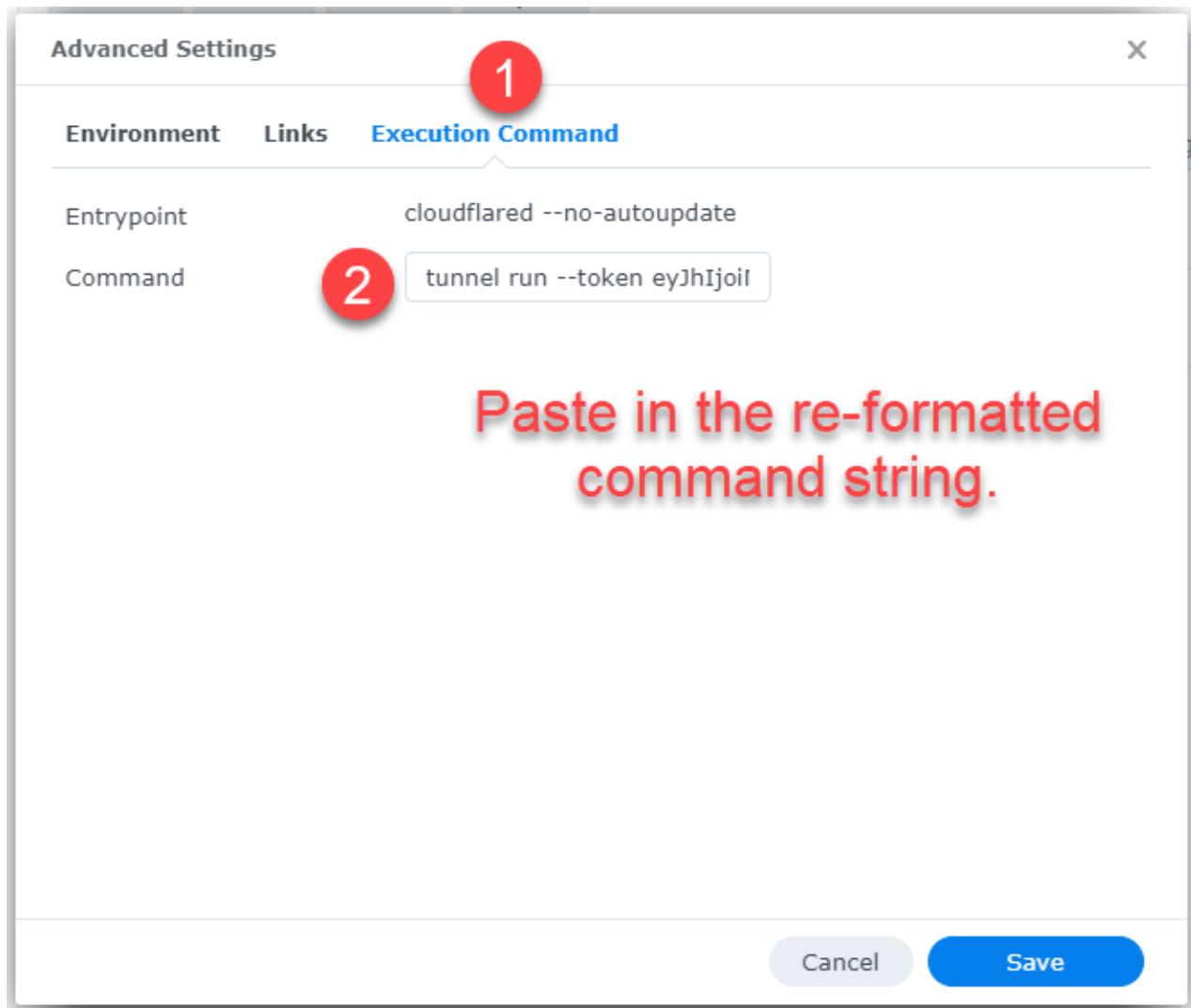
Memory Limit

8192 MB

 Enable auto-restart [i](#)[Advanced Settings](#)[Back](#)[Next](#)

Click Advanced Settings.

In Advanced Settings, click the 'Execution Command' tab and then paste our re-formatted command string into the 'Command' box. Side note – notice how the 'Entrypoint' has -no-autoupdate? This is why we were able to remove that portion of the original command string. Once that's done, click 'Save.'



Paste in the re-formatted command string. Then click 'Save.'

Once you've saved the Advanced settings, you can click 'Next' on the General Settings window.

General Settings

Container Name *:

crosstalknetworking-cloudf

 Execute container using high privilege[Configure capabilities](#) Enable resource limitation

CPU Priority

Low

Memory Limit

 8192 MB Enable auto-restart [i](#)[Advanced Settings](#)[Back](#)[Next](#)

NOW you can click Next. Thank you for following instructions.

On the Volume Settings step, you can just click 'Next.' This is where we would normally tell Docker where we are storing files or folders outside of the Docker container. Since this Cloudflare Connector is basically just a command we're executing, we don't need any external files or folders.

Volume Settings



Map the volumes of the container to shared folders on Synology NAS. Click **Next** to skip this step.

Add File

Add Folder

Back

Next



Click 'Next.'

Finally, on the Summary page, click 'Done.' Make sure 'Run container after the wizard is finished' is checked (it is by default).

Summary

Item	Value	
Container Name	crosstalknetworking-cloudflared	
Enable auto-restart	Yes	
Use the same network as Docker Host	Yes	
Environment Variables	Variable	Value
	PATH	/usr/local/sbin:/usr/loc...
	SSL_CERT_FILE	/etc/ssl/certs/ca-certificates.crt
CPU Priority	Auto	

7 items



Run this container after the wizard is finished

Check this if unchecked

Back

Done

Done!

After a few seconds, you should see the Docker Container show up under Containers. It should be 'Running' with no issues. If there are any problems, it will likely just restart over and over, and you'll see error messages popping up. If that happens, just delete it and go back through the container creation – you probably messed up the command string.

Container	Status	Created	CPU	RAM
cloudflare-dockertest2	Running	Up for 9 hours	Low	Low
crosstalknetworking-cloudflared	Running	Up for 1 min	Low	Low
openspeedtest-latest1	Running	Up for 18 days	Low	Low

Great success!

Running container!

Back in the Cloudflare Zero Trust Dashboard, if we click on Tunnels we should see that our tunnel is now active and healthy!

Your tunnels Showing 1 - 1
Manage the configurations of your existing tunnels.

+ Create a tunnel

Tunnel name ↑	Tunnel ID	Status
mytunnel		HEALTHY

1 - 1 | Items per page: 10

Cloudflare tunnel looks healthy!

OK – so at this point, our connector is done, and we can start the REAL configuration of opening up access to our LAN resources. We're done with the Synology NAS portion – it's basically set it and forget it.

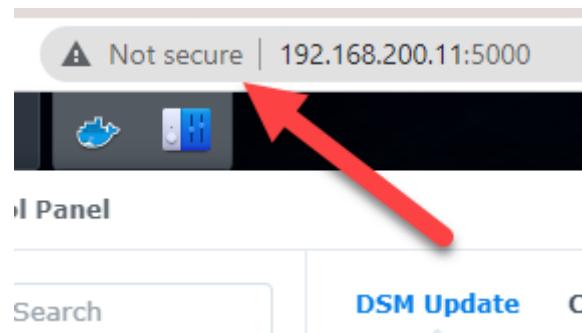
Adding LAN Services

In order to gain access to our internal resources, we need to add them to the Cloudflare Tunnel. When we add a new service, such as the GUI interface of our Synology NAS, Cloudflare will automatically create a DNS CNAME record and route it through the tunnel for us.

This routing gives us a bunch of really cool advantages:

- **HTTP to HTTPS** – the surfing done through the Cloudflare tunnel is HTTPS...even if the GUI interface we're pointing to is only HTTP!
- **Port redirection** – we can use standard HTTPS port 443 for all LAN device interfaces that we push through the tunnel – even if the GUI port is not 443. For example, the Synology NAS interface runs on port 5000 – but when we push it through the tunnel, it will be HTTPS port 443 and we never have to remember that port number again.
- **IP address obfuscation** – Cloudflare creates a CNAME record that points to a Cloudflare IP address – our own WAN IP address is never exposed to the Internet, which adds an additional layer of security.

Let's add our first LAN server! I'm going to start off with the GUI interface of my Synology NAS which exists on my LAN at <http://192.168.200.11:5000>. Notice that this interface is HTTP, not HTTPS:



Non-secure HTTP port for LAN access to the
Synology NAS.

Head over to the Cloudflare Zero Trust Dashboard and navigate to Access -> Tunnels. Then click on the tunnel that we just created. A right-side window will pop out – click the ‘Configure’ button.

Configure 'mytunnel.'

Once you’re in ‘mytunnel,’ (what you named your tunnel may be different), click on the Public Hostname tab, and then click ‘+ Add a public hostname.’

Public hostnames

Public hostname

Public Hostname tab -> Add a public hostname

Now, we need to enter in some info:

- Subdomain – this is the beginning of the FQDN (the hostname in front of our domain name). Since I’m opening up access to my NAS, I’m just calling it ‘nas’ – the resulting full domain name will end up being nas.crostalkwireless.net.
- Domain – select the domain for the FQDN – if you have only set up one domain, it should be the only one in the list.
- Service Type – this is going to be HTTP since we’re redirecting internally to an HTTP interface.

- URL – this is what I would type into my browser locally on the LAN to access my NAS – in this case it's the IP address (:) port number – or 192.168.200.11:5000.

Click 'Save hostname' when you're done.

Public Hostname Page

Edit public hostname for mytunnel

Public hostname

Subdomain **1** Domain **2** Path

nas . / (optional) path

① Warning: No DNS record found for this domain. The policy may not execute as expected. **x**

Service

Type **3** URL **4**

HTTP :// 192.168.200.11:5000

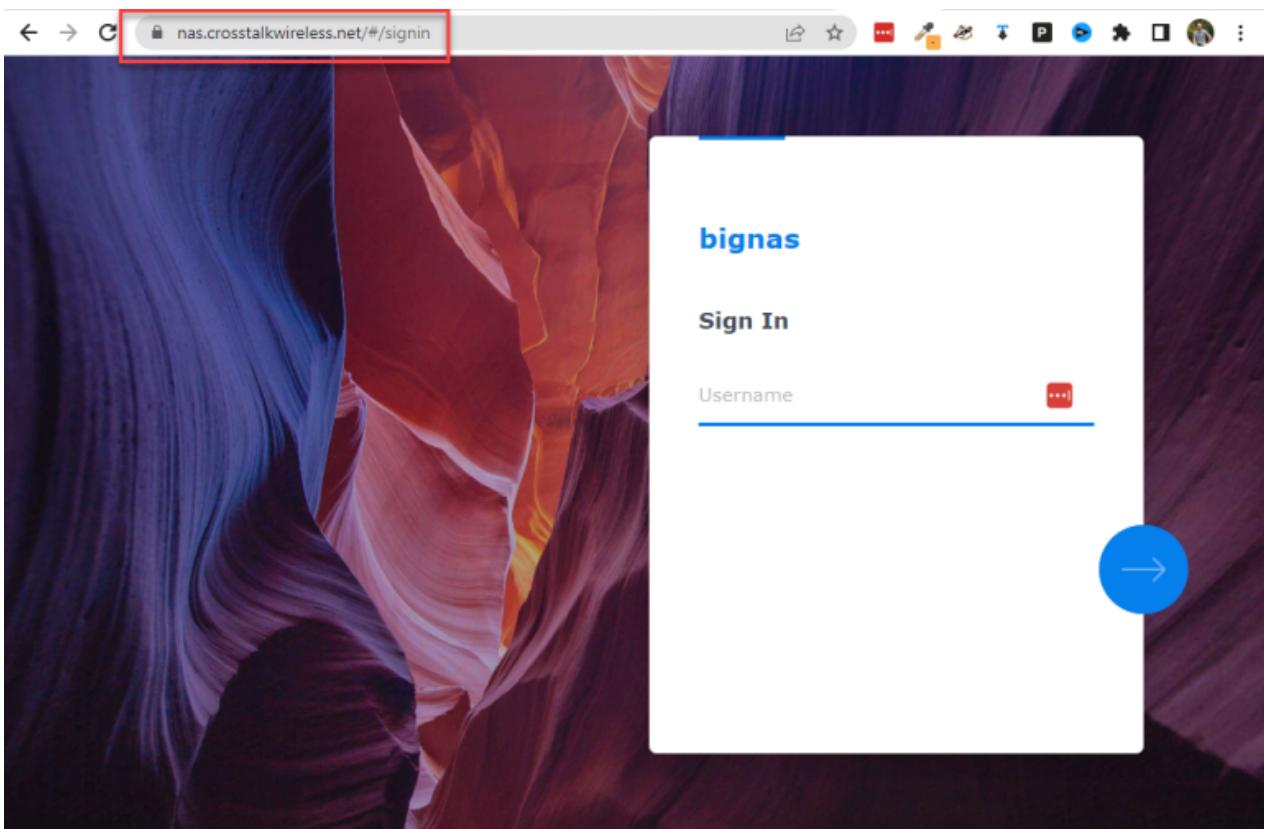
For example, https://localhost:8001

Additional application settings ▶

5 Save hostname

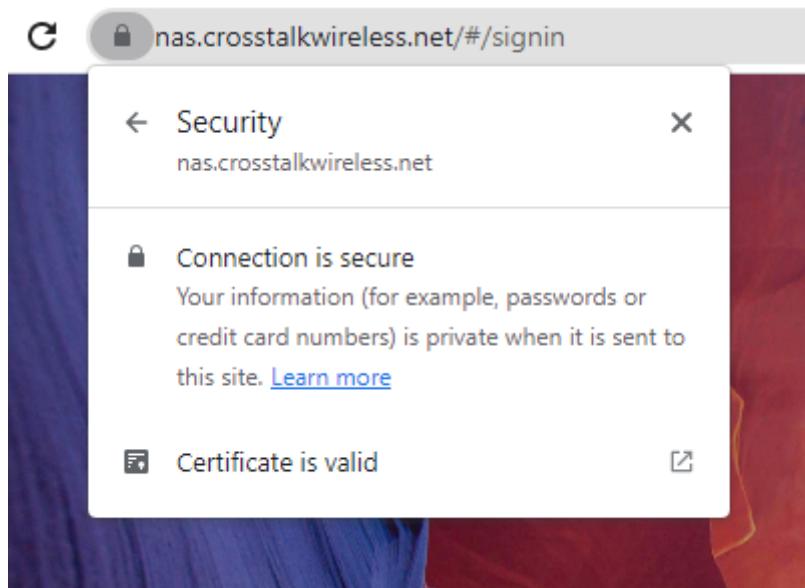
Create a new hostname to direct to a LAN resource through the tunnel.

Now, if we open up that FQDN (nas.crosstalkwireless.net) in a browser, we're redirected to the NAS interface – this should happen pretty much immediately after you click 'Save hostname.' Amazing!



Pop the new FQDN into a browser, and we're redirected through the tunnel!

Notice also that the connection is HTTPS secure with a valid certificate:



HTTPS secured!

Let's add another one! I use PiHole for network-wide ad-blocking on my LAN. It runs on <http://192.168.200.50/admin> – let's create a tunnel for that service as well:

In the Cloudflare Zero Trust dashboard, navigate to Access -> Tunnels. Click on 'mytunnel' and then the 'Public Hostname' tab. Click 'Add a public hostname.'

In this example, PiHole runs on standard HTTP port 80, so we don't need to add a port after the IP address:

Edit public hostname for mytunnel

Public hostname

Subdomain

Domain (Required)

Path

Service

Type (Required)

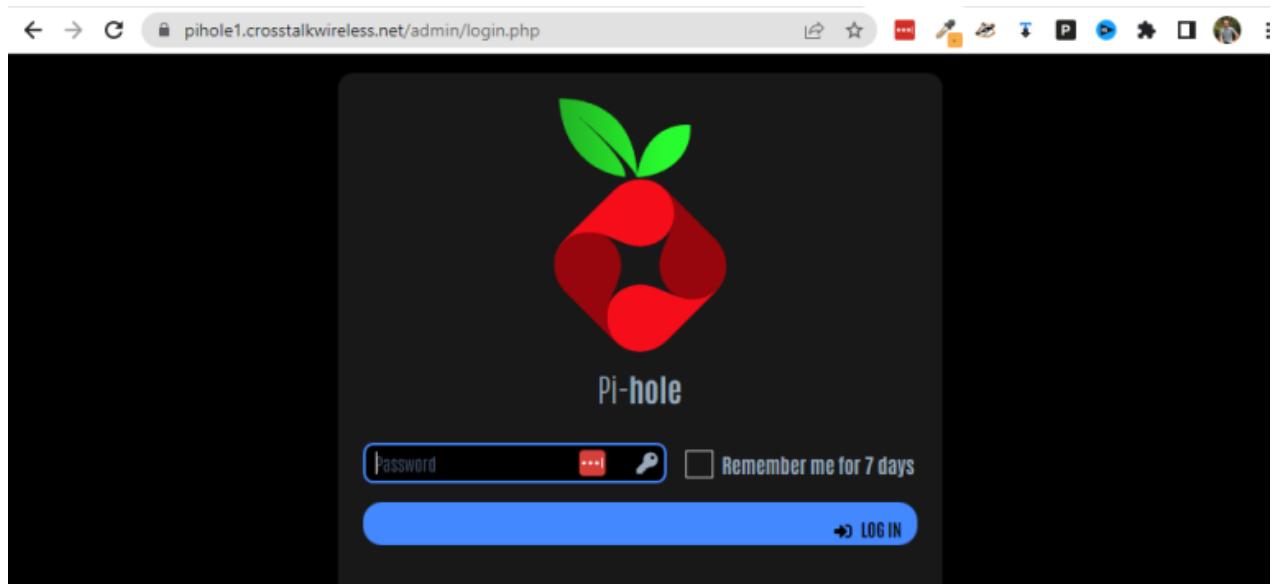
URL (Required)

For example, <https://localhost:8001>

[Additional application settings ▶](#)

Adding PiHole to the tunnel.

Once saved, we can now open up our PiHole through the tunnel – the only caveat with this one is that we have to remember to add /admin to the FQDN since the PiHole interface runs locally on my LAN on 192.168.200.50/admin.



PiHole through the tunnel.

Let's add one more – the GUI interface of my firewall which is an EdgeRouter 4 running on <https://192.168.200.1> (note HTTPS not HTTP):

Edit public hostname for mytunnel

Public hostname

Subdomain	Domain (Required)	Path
firewall	crosstalkwireless.net	(optional) path

Service

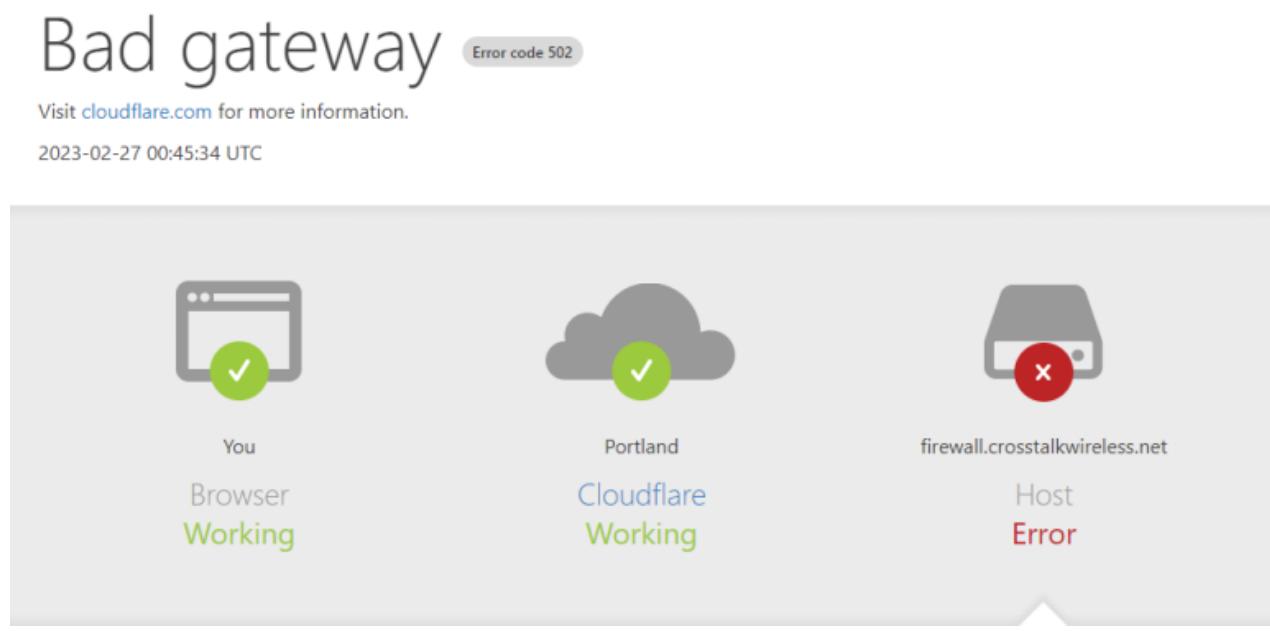
Type (Required)	URL (Required)
HTTPS	// 192.168.200.1

For example, https://localhost:8001

[Additional application settings ▶](#)

Adding my firewall interface to the tunnel.

Let's try going to [firewall.crosstalkwireless.net!](https://firewall.crosstalkwireless.net)



OH NO!! Massive error screen – what happened here?? Well, in this case, the internal protocol for connecting to my firewall is HTTPS, which requires a certificate (or else you get an error in the browser that you have to click past). In this case, the certificate being provided by Cloudflare is a mismatch to what the EdgeRouter is expecting, so it throws an error. In order to fix this, we're going to have to get into the 'Additional application settings' of our tunnel rule for this firewall.

Back in the 'Public hostnames' tab of our 'mytunnel' tunnel, click on the firewall rule that was created, then click 'Configure'.

Open up the 'Additional application settings' and then open up the TLS sub-menu. There's a setting called 'No TLS Verify' – shift that to Enabled:

Edit public hostname for mytunnel

Public hostname

Subdomain Domain (Required) Path

firewall crosstalkwireless.net / (optional) path

Service

Type (Required) URL (Required)

HTTPS // 192.168.200.1

For example, https://localhost:8001

Additional application settings ▾

TLS ▾

Origin Server Name Null

Hostname that Cloudflare should expect from your origin server certificate.

Certificate Authority Pool Null

Path to the certificate authority (CA) for the certificate of your origin. This option should be used only if your certificate is not signed by Cloudflare.

No TLS Verify Enabled

Disables TLS verification of the certificate presented by your origin. Will allow any certificate from the origin to be accepted.

Disable TLS verification of the secure certificate.

Now scroll to the bottom and click 'Save hostname.' Let's try to open up that firewall interface again:



This time it works perfectly. Moral of the story here is that sometimes, you'll have to dig into the advanced settings to make a tunnel rule work, but by and large, this is pretty straight forward.

So now we're done right?? Absolutely not. At this point, we have our tunnel up and running but literally ANYONE can connect to these FQDNs and get into our network...now, there may be cases where you DO want to open up a tunnel connection to the whole wide world (such as if

you're running a public web server), but in this case, we're just trying to access some stuff on our own local LAN – we absolutely do not want the whole wide world to be able to connect in – we only want to be able to access it ourselves!

Lock That S#!& Down!

The security options for Cloudflare Tunnels are pretty robust – see the screenshot below...you can use basically any of the popular SSO services such as Google/Facebook/GitHub/Azure/etc. Each one of these is going to have its own way to do the initial setup. I have personally done the Google integration, and it wasn't too difficult as long as you can follow directions.

Add a login method

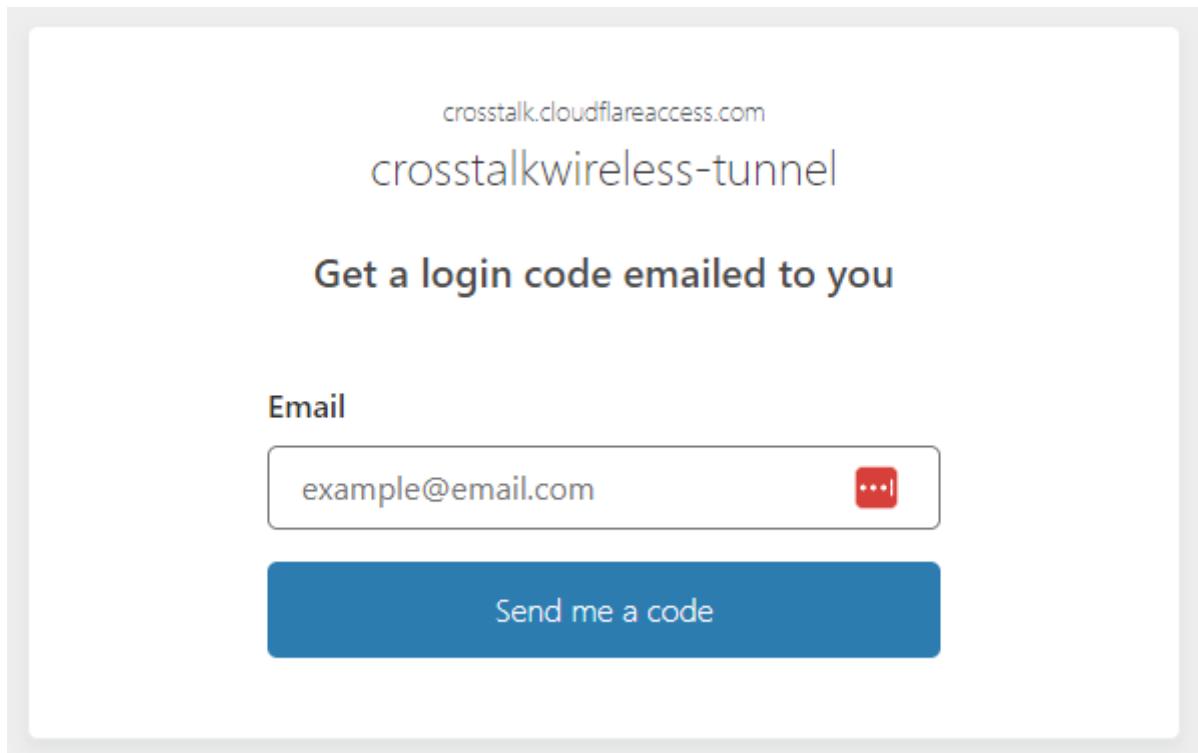
The screenshot shows a list of authentication providers:

- Azure AD
- Centrify
- Facebook
- Github
- Google Workspace
- Google
- LinkedIn
- Okta
- OneLogin
- One-time PIN (marked as ADDED)
- OpenID Connect
- PingOne
- SAML
- Yandex

So many authentication options!

For the purposes of this tutorial however, we're going to just use a One-time PIN. This means that when you first try to access any resource you've shared through the Cloudflare tunnel, you'll be prompted for your email address (this can be individual email addresses, or an entire domain such as *@crosstalkwireless.net). When you input an email address that matches the rules you have set up, you receive an email with a PIN code that can then be used to provide access to your tunnel. Keep in mind though that you will STILL have to log into whichever resource you're trying to reach.

For instance, the whole process for me logging into my Synology NAS through the tunnel is 1. Open the FQDN and enter my email address when prompted. 2. Receive the PIN code in email and authenticate to the Cloudflare tunnel. 3. Log into the Synology NAS.



The Cloudflare One-time PIN screen.

Let's get started with the lockdown! The first thing you need to do is open the Cloudflare Zero Trust dashboard and click Settings → Authentication.

A screenshot of the Cloudflare Zero Trust Settings page. The left sidebar shows navigation options like Home, Analytics, Gateway, Access, My Team, Logs, and Settings (marked with a red circle containing the number 1). The main area is titled "Settings" and contains several cards: "Account", "General", "Network", "Authentication" (marked with a red circle containing the number 2), "WARP Client", and "Downloads".

Cloudflare Zero Trust

Home

Analytics

Gateway

Access

My Team

Logs

Settings 1

1

2

Settings

Account
Manage payment methods, seats and plans.

General
Personalize the Cloudflare Zero Trust experience for your end-users.

Network
Manage your filtering preferences for outbound traffic.

Authentication
Set global preferences for applications protected behind Access.

WARP Client
Manage preferences for the WARP client.

Downloads
Download WARP Client, Cloudflared, and certificates.

Go to Settings → Authentication to add an Authentication method.

Under Login methods, click 'Add new' and then select One-time PIN.

Login methods

1 Add new

G Google

You likely won't see Google here...

Click Add new to add a new login method.

On the next screen, just click One-time PIN.

Add a login method

Select an identity provider

Azure AD	Centrify
Facebook	GitHub
Google Workspace	Google
LinkedIn	Okta
OneLogin	One-time PIN 1
OpenID Connect	PingOne
SAML	Yandex

Click One-time PIN – there's no additional configuration needed for this Login method.

That's it! We can now use One-time PIN as our Login method – let's now create an access rule that uses it.

In the Zero Trust dashboard, click Applications under the Access menu. Then click 'Add an application.'

- [Home](#)
- [Analytics](#)
- [Gateway](#)
- [Access](#)
- [Applications](#) 1
- [Access Groups](#)
- [Service Auth](#)
- [Tunnels](#)
- [My Team](#)
- [Logs](#)

Start protecting your applications

Access protects your internal and SaaS applications by putting a layer of Zero Trust policies in front of them.

When users request to access an application behind Cloudflare Zero Trust, each request is checked for device health and user identity. Only users who match your policies will be allowed in.

2 [Add an application](#)

Applications -> Add an application

For the type of application, choose Self-hosted.

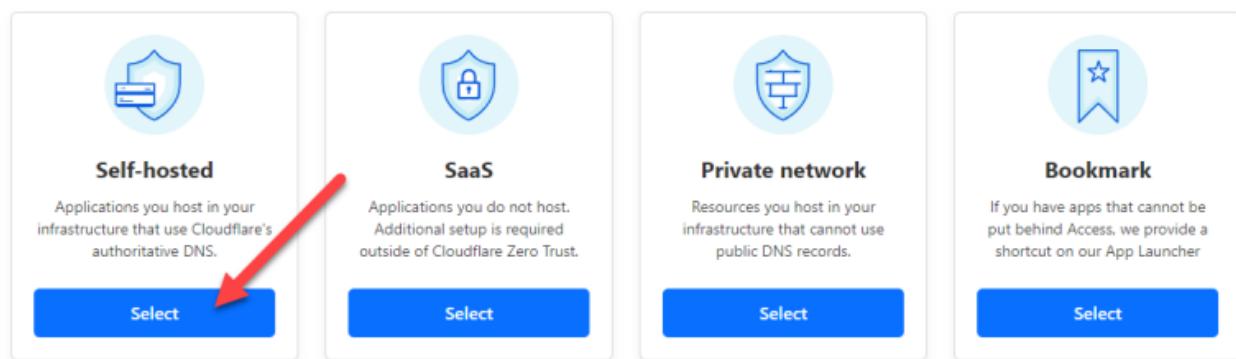
Add an application

Configure the policies, authentication, and settings of your applications.

Select type > Configure app > Add policies > Setup

What type of application do you want to add?

If you're not sure, choose self-hosted.



Click Self-hosted.

Now we get into the Add an application wizard. First, give your application a name such as 'mytunnel-access.' Then you can either lock down individual FQDNs and have different access rules for different resources, or you can use a wildcard for the subdomain which is what I'm going to do here. Add an '*' into the subdomain field, and then drop down the Domain box to pick your domain.

This means that “anything” (dot) crosstalkwireless.net will be protected by this rule.

Application Configuration

Application name (Required)
mytunnel-access
15/350

Session Duration (Required)
24 hours

Application domain
Subdomain . Domain (Required) crosstalkwireless.net Path (optional) path

⚠ Warning: No DNS record found for this domain. The policy may not execute as expected.

Set a wildcard to protect access to any FQDN in your domain.

Now, scroll down to the Identity Providers section. Accept all available identity providers should be enabled by default, which means that any of the authentication/login methods that you configured will be used for access to this resource. Typically you just want to leave this default, but do understand that you can individually select login methods – in the screenshot below, I have disabled ‘Accept all available identity providers’ and specifically selected One-time PIN (this is just for the purposes of this tutorial). Click Next.

Identity providers [Learn more](#)

Accept all available identity providers

Manually select identity providers users can use to connect to this application

One-time PIN Google [Deselect all](#) [Select all](#)

Instant Auth
Skip identity provider selection if only one is configured

Typically, just leave this section default.

On the next screen, we can name our policy – I’m going to call it Default, and the Action is set to ‘Allow.’

Add an application

Configure the policies, authentication, and settings of your applications.

Select type > Configure app > **Add policies** > Setup

Policy name (Required)
Default

Action (Required)
Allow

Session duration
Same as application session timeout

Name the policy.

If this is your first time configuring Cloudflare Tunnels, you likely won’t have anything in the ‘Assign a group’ section, but it is good to understand what this section is for. Basically, if you click on Access –> Access Groups in the Zero Trust sidebar, you have the option of pre-

configuring access rules that can be used in your application policies. This way, if you are administering multiple tunnels, but you want to re-use the access rules, you can do it as a group instead of having to modify each Application individually. For our purposes however, we're going to skip over this.

Down in the 'Create additional rules' section – this is where we will input the list of emails that we want to grant access to. In the 'Include' section, choose 'Emails' for the selector and then type in your email address, or multiple email addresses if you need multiple people to connect.

You can also optionally choose 'Emails ending in' as the selector and then put in your whole email domain such as @crosstalkwireless.net if you want anyone with an email address in your domain to have access. Just like with individual email addresses, you can add multiple email domains here.

To add more than one Selector, you can just click '+ Add include' down toward the bottom of this section.

There are other types of Selectors you can use as well – such as 'Anyone with IP range XYZ' or 'Anyone from Country X.' All sorts of different ways you can grant access.

Create additional rules

If you're assigning one or more groups to this application, any rules you create now will be applied in addition to group rules.

Include

Selector	Value
Emails	email1@crosstalkwireless.net email2@crosstalkwireless.net email@example.com
Emails ending in	@crosstalkwireless.net @domain.com

An example of two different Selectors in use.

Below the 'Include' section is the 'Require' section. This is where you can even further lock things down. For instance, I'm going to choose 'Country' and then select United States. This means that only people with IP addresses originating in the US will have access...which isn't super locked down since everyone knows how to use a VPN, but it does still lock it down somewhat.

Require

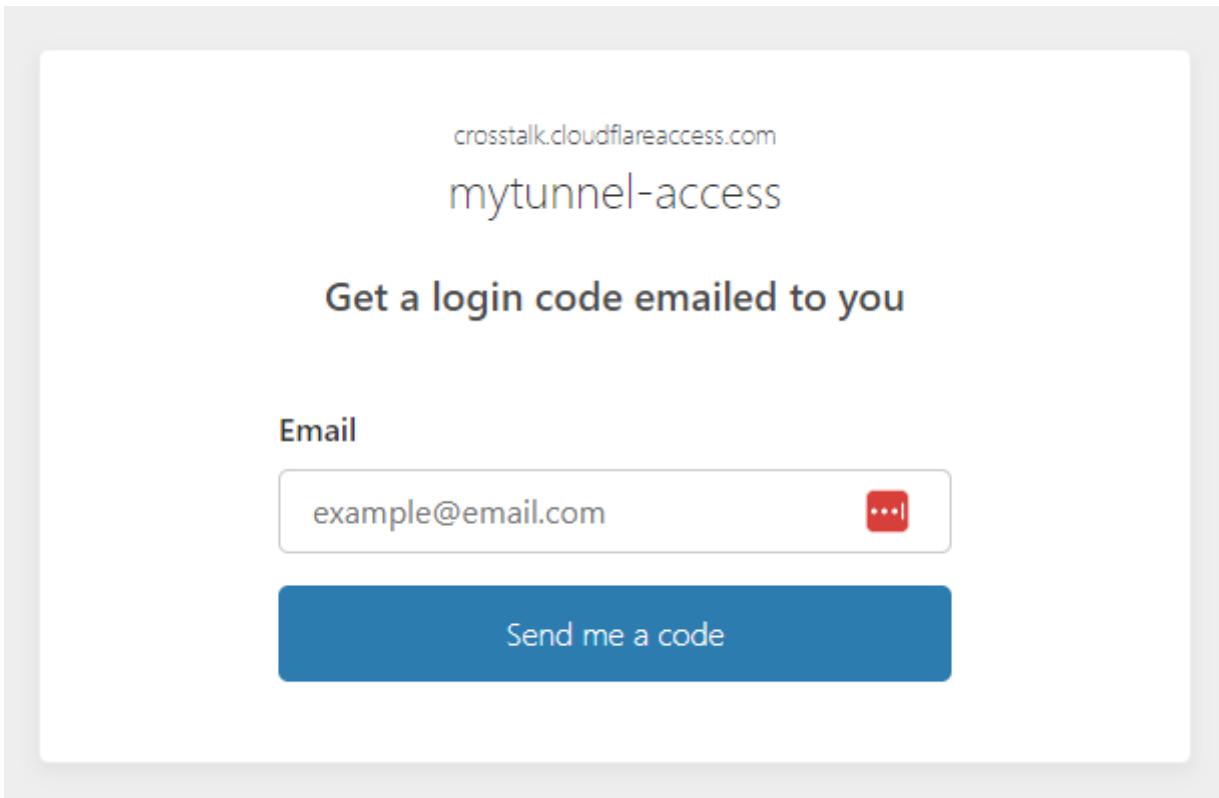
Selector	Value
Country	United States X

Lock your access down further with Require rules.

Scroll down to the bottom and click 'Next.' Leave everything default and click 'Add application' on the final wizard step to create this access rule.

***** NOTE:** It seems that when you add access/application rules to your tunnel, it can take a few minutes to take effect.

You should now see your Application in the list when you go to Access -> Applications. Let's try it out! Try browsing to one of your tunnel FQDNs (you may have to clear cache first). You should be given the One-time PIN screen like this:



One-time PIN screen.

Now when you enter in a valid email address, you will receive an email with a One-time PIN code.



Cloudflare <noreply@notify.cloudflare.com>

to me ▾

Hello,

Click the link below to finish your login to pihole1.crosstalkwireless.net:

<https://crosstalk.cloudflareaccess.com/cdn-cgi/access/callback?nonce=q5f5Vowg710bQNhMu06DbcTwK2>

You can also copy and paste the code below into the Cloudflare Access login screen:

207626

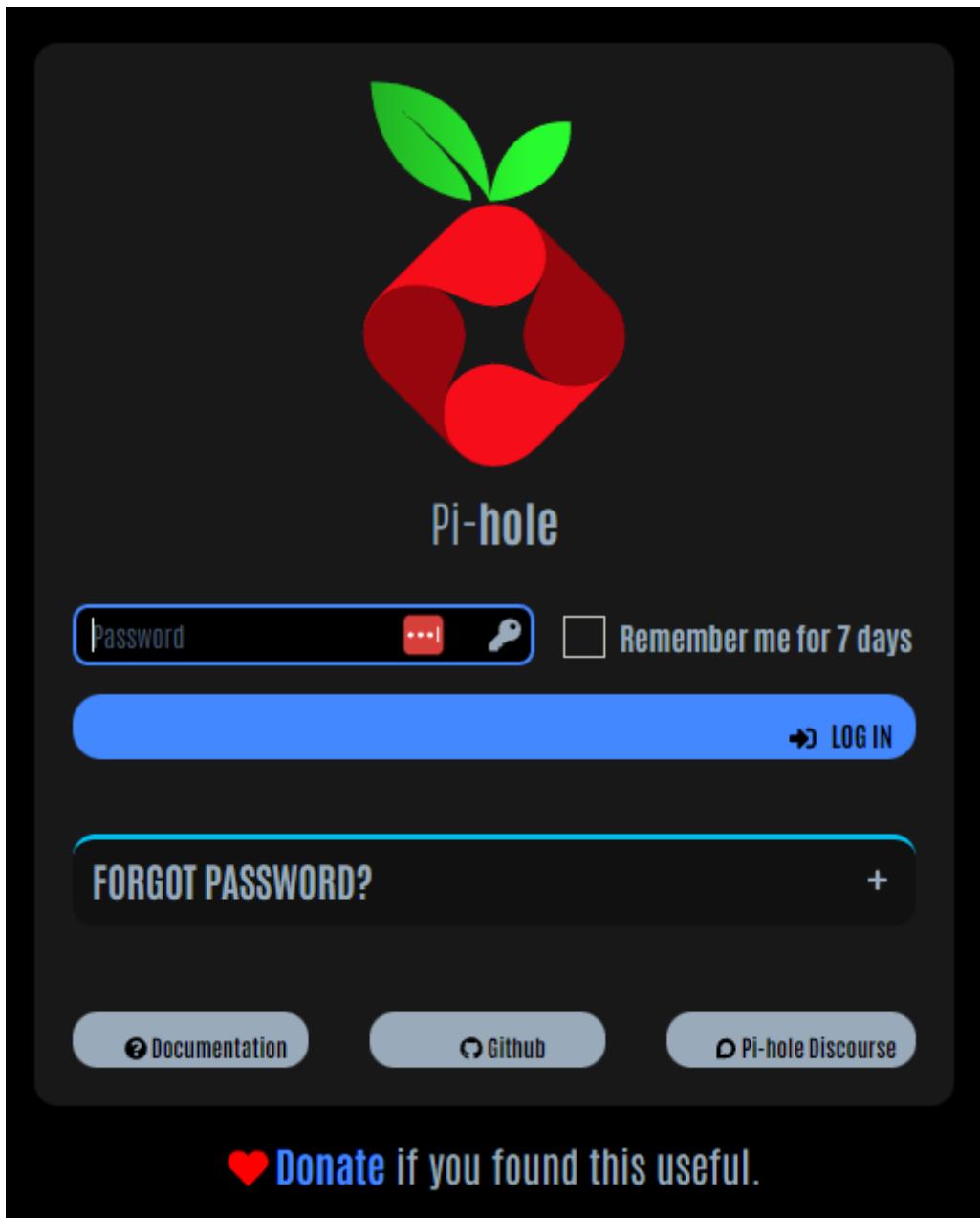
This code will expire after 10 minutes or if you request a new code.

Thanks,

The Cloudflare Team

Your One-time PIN.

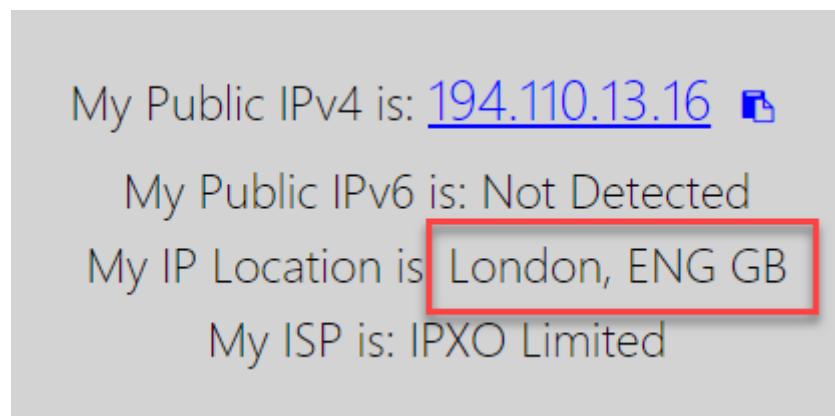
Enter in that PIN, and you should then be redirected to the resource you requested!



Access granted!

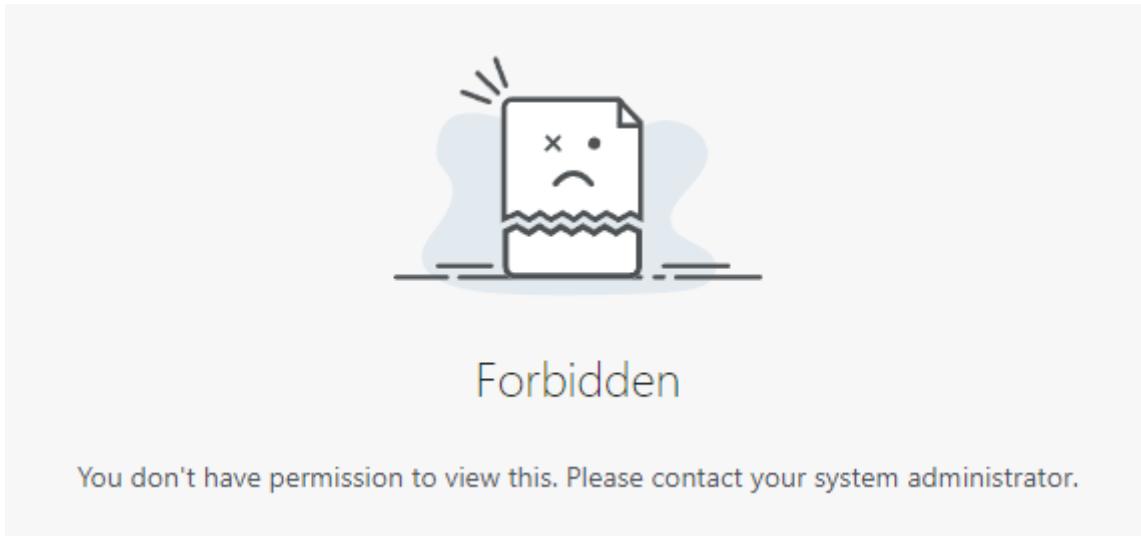
Congrats! You're in! Your Cloudflare Tunnel is configured and secure.

Let's now try something – I'm going to use Private Internet Access to change my geographical location to London, England.



Let's try connecting in from across the pond!

Navigating to that same PiHole FQDN, I'm straight blocked by Cloudflare:



BLOCKED! Our rules are working!

Final Thoughts

There is SO MUCH that can be done with Cloudflare's Zero Trust interface – we've barely even scratched the surface with Tunnels, but hopefully this gives you a good foundation from which to build upon. Once this is set up and working, you may never go back to VPNs again.

How did this tutorial work for you? Any mistakes/issues/comments, please let me know down below!

If you have found this useful, please consider buying me a coffee or beer:

 Buy me a coffee!

Or you can always check out some of the awesome merch in the Crosstalk store:



2FA FTW T-Shirt

SALE

\$35.00 \$29.00

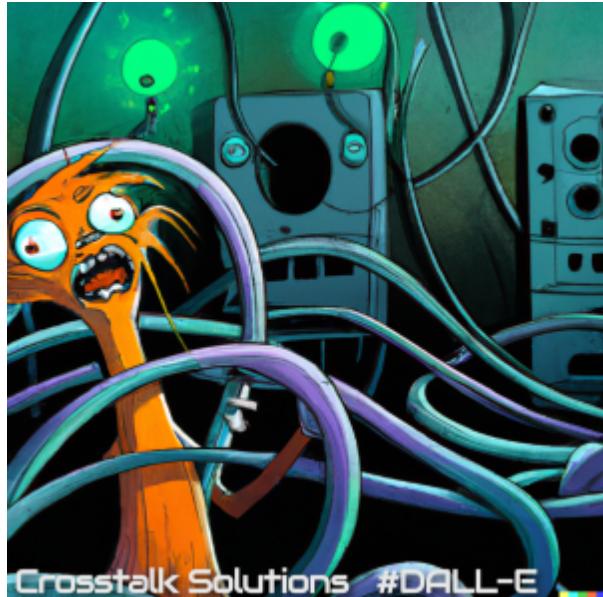
Select options

Network the Moon T-Shirt

SALE

\$35.00 \$29.00

Select options



Felix the Network Weasel DALL-E Sticker

\$5.00

Add to cart



Crosstalk Magnetic Dish

\$12.75

Add to cart



Crosstalk Schwag Bag

\$9.99

Comments³⁹

Thomas Guerra

MARCH 3, 2023 AT 9:42 AM

Cloudflare Unraid Setup:

You can use the native docker script to setup cloudflare tunnels but in unraid it wont have the option to update it and it will also not be named. In order to fix that I'm listing the steps below with credit to u/-xblahx- on Reddit.

In Unraid Docker interface, click "add container"

change to advanced view

name = whatever you want. I chose "Cloudflare"

repository = cloudflare/cloudflared

docker hub URL = <https://hub.docker.com/r/cloudflare/cloudflared>

Icon URL = <https://icons-for-free.com/iconfiles/png/512/super+tiny+icons+cloudflare-1324450714381209833.png> (or whatever icon you want)

web UI = <https://dash.teams.cloudflare.com/> (or whatever URL you want)

post arguments = tunnel -no-autoupdate run -token XXXX

After doing all of this you'll end up with a nice app that can be updated and changed on the fly if need be. However be careful as the token will be visible if you can get to the edit interface of said app.

Reply ↩

Sergio

MARCH 4, 2023 AT 1:56 AM

First of all, great tutorial, congratulations. I already wanted to try this but I never had time and patience to discover how by myself, so your tutorial was very useful.

This is very good for a few individual services or apps but if you want to simulate a real VPN where you can access shared folders, print documents and work as if you are in your home, is this possible with this tunnel option or other cloudflare option?

Thank you.

Reply ↶

Chris

APRIL 14, 2023 AT 12:27 PM

One way to achieve that, would be to setup a guacamole server, build the tunnel, and access the resources via ssh or RDP.

Reply ↶

Ricardo

APRIL 20, 2023 AT 5:32 AM

also,

Is there any way to connect to my MySql server in the Synology,
I've added a TCP connection to my tunnel (and other option), but I can't connect,
Can you help with that?

Thank you for this great tutorial, and it's the best way to start, but WE need more

Reply ↶

Thomas Guerra

MARCH 3, 2023 AT 9:59 AM

How to configure seamless IP address bypass to allow for no login prompt when on a certain network:

Instead of needing to get a code every time to log in to your services, you can set a IP address bypass which will bypass the login screen and let you straight into your service.

After you've set up all your Cloudflare stuff you should have set up the access control with email in the Access/Applications tab.

1. Find your IP address using whichever method works best. Google "what's my IP"
2. Go to Access/Access Groups tab in the zero trust dashboard and create a new group, it can be named whatever but for this setup I'm choosing "IP Address".
3. Check "Set as default group" if desired, then select IP ranges down below. Insert the IP that you found earlier followed by a /32 then press enter.
- 3a. IP address should look like x.x.x.x/32
4. Click save and head back to the Applications tab, click configure on any of your previously

made applications or make a new one according to this guide.

5. In the policies section click “add a policy”.

6. Enter a policy name, in this example “IP Address”. Action “bypass”. Select the IP Address group then press “Add policy” down low.

7. Now when you go to access your applications you shouldn’t be prompted for any login but if you VPN outside your network or use your cell service connection it’ll prompt for traditional login.

Keep in mind that anyone on your network will now have complete access to your applications and should be considered if you have a public network that uses the same IP address as your main network.

Reply ↲

Jason

MARCH 4, 2023 AT 6:20 AM

Are there any routers that have this zero trust Cloudflare tunneling service built-in? The router is an always-on device in the network already, so it might as well run this tunneling service just as many high end routers can already have traditional VPN services run on it.

Reply ↲

Hector

MARCH 7, 2023 AT 3:33 PM

I run the cloudflared arm binary on my Openwrt router without any issues. I daemonized the binary as a service script so it’s always started when the router starts. I wrote about it in my blog: <https://hmolina.dev/p/cloudflared-tunnel-in-openwrt/>

Reply ↲

Steve Leeke

MARCH 4, 2023 AT 6:45 AM

For those it may help, if you find nas.myfqn.com isn’t working for your synology, go to Control Panel -> Login Portal and make sure Automatically redirect HTTP connection to HTTPS for DSM desktop is turned off.

Reply ↲

Dennis Warwick

MARCH 9, 2023 AT 8:18 PM

Thank you! That was driving me nuts. Is there a way to leave that enabled and the tunnel access still work?

Reply ↲

Charles Wilkes

MARCH 11, 2023 AT 1:03 PM

Thank you. You saved me a lot of research time.

Reply ↲

James

MARCH 14, 2023 AT 2:44 PM

Game changer. I was banging my head against the wall.

I was just going to use 5001 on the Zero Trust dashboard before I decided to take another look here to see if anyone else ran into this.

Otherwise, excellent guide from crosstalk!

Reply ↲

al

MARCH 6, 2023 AT 3:32 AM

Hi,

Can Cloudflare see my data in any way?

Thanks

Reply ↲

Paul

MARCH 7, 2023 AT 12:35 PM

It's a nice guide but think you could include the SSL portion, especially for the redirect. Since many people may be switching to Cloudflare for this purpose, it is mentioned but not really explained in the video or blog post.

Reply ↲

Mark Endry

MARCH 7, 2023 AT 1:10 PM

Thank you for another excellent tutorial. I am all setup, but the challenge I have is it is slow. I can log into my NAS with only minor delays. If I try to connect to my cameras that run off my QNAP NAS the viewer connects and it paints the screen where the camera thumbnails go, but it never fills in the thumbnails. If instead I connect via Teleport VPN on my UDM-SE and connect direct to the LAN address they paint quickly.

Reply ↲

Mark

MARCH 8, 2023 AT 6:54 AM

After some research it is against the user agreement to stream Video so tunnels can't be used to view the cameras on the Internet.

Reply ↲

Chris

APRIL 14, 2023 AT 12:34 PM

Unfortunately yes, but you can tie your device using ZeroTier, and make that connection

Reply ↲

Dmitry Nefedov

MARCH 7, 2023 AT 7:39 PM

So now, instead of a privately run VPN which is (in most cases) easier to install and manage you're suggesting we use this? Thats not only harder to install and configure but also less secure. I can see two main security issues:

1. it's centralized, meaning hackers do want to get the data from it. As we recently saw with LastPass, even the companies who have security products at their core can be hacked. Compare it with some random vpn which is used by you/your family/small company and can give dozens of clients when hacked, not hundreds of thouhands.
2. by eliminating VPN you exposing the actual services like NAS, pihole, router etc to the internet. So now anyone with the URL can try to brute force or use vulnerabilities. A lot of times those are not up-to-date.

You're basically vanishing DMZ for convenience. Terrible idea.

Reply ↲

mail server

MARCH 8, 2023 AT 3:38 AM

can i use this Cloudflare Tunnel also for my mail server (SMTP, imap pop) ?

Reply ↲

Josh Poore

MARCH 8, 2023 AT 4:11 AM

I am working on getting RDP set up via Zero Trust. Any insight?

Reply ↲

Mike

MARCH 15, 2023 AT 1:42 PM

Reply ↶

Sergii

MARCH 9, 2023 AT 4:32 AM

Thank you for your step-by-step tutorial.

I have a photo app by Synology.

Could I lock down the whole domain with Cloudflare and (at the same time) have access via the app?

The app does not have any option different from standard login/pass.

Reply ↶

Puttareddy

MARCH 9, 2023 AT 8:01 AM

First of all, great tutorial. Thanks a lot for the detailed instructions. I have couple of questions

1. Is there any performance impact if every packet of information goes through that tunnel. How to make it more scalable for large enterprises?

2. What would be the recommended architecture, if we use GKE clusters? Just, spin-up the tunnel service as a POD and route all the traffic through it?

Reply ↶

millionthBeginner

MARCH 9, 2023 AT 12:57 PM

cloudflared is created with the host docker network. however, if i create an ip address via a macvlan for my pihole for example, then the networks are isolated.

Correct? I wonder if there is a simple but also secure solution for this.

Chris seems to have done it, because he also uses the pihole with a different ip-address.

I would be very grateful for any helpful tips.

Reply ↶

LTek

MARCH 9, 2023 AT 5:36 PM

ONE BIG issue I with this (I set this up today) is I cant get any of my mobile apps to connect. From the phone the browser works, but native android apps going to the same DNS do not.

Reply ↶

Martin Kjærulff

MARCH 11, 2023 AT 2:07 PM

Thanks for this video and article!

May I suggest that you do more videos on the free part of Cloudflare? I created an account after watching your video and have moved several domain names to their service. It's great how much you get for free.

I'll probably have to upgrade to a paid account. But most people would get a lot out of the free account. Like e-mail forwarding for free.

Reply ↶

Ahmed

MARCH 11, 2023 AT 10:14 PM

Tip

" the only caveat with this one is that we have to remember to add /admin to the FQDN since the PiHole interface runs locally on my LAN on 192.168.200.50/admin"

Login >> select your domain >> left panel "Rules" >> Transform Rules >> Creat rule >> " Custom filter expression"

Field: hostname

Operator: equal

Value: pihole1.crosstalkwireless.net

Then

Path >> Rewrite to Static "admin"

Deploy

Reply ↶

LOMBARD

MARCH 22, 2023 AT 11:34 PM

Top. Thx!

Reply ↩

Fred van der Schaar

MARCH 12, 2023 AT 8:06 AM

I'm not running docker in my Synology, I have it running in a virtual machine on Proxmox.
For those users in a similar situation, I created a docker-compose.yml. I left out my token 😊
Feel free to use it.

version: "3"

services:

cloudflared:

image: "cloudflare/cloudflared:latest"

restart: unless-stopped

command: tunnel -no-autoupdate run -token

Reply ↩

unmesh

MARCH 25, 2023 AT 8:23 AM

Would this work with Dynamic DNS?

Reply ↩

juangarcia4ks

MARCH 25, 2023 AT 6:06 PM

apiVersion: apps/v1

kind: Deployment

metadata:

labels:

app: cloudflared

```
name: cloudflared-deployment
namespace: default
spec:
replicas: 1
selector:
matchLabels:
pod: cloudflared
template:
metadata:
creationTimestamp: null
labels:
pod: cloudflared
spec:
containers:
- command:
- cloudflared
- tunnel
# The address 0.0.0.0:2000 allows any pod in the namespace.
- --metrics
- 0.0.0.0:2000
- run
args:
- --token
- here you token
image: cloudflare/cloudflared:latest
name: cloudflared
livenessProbe:
httpGet:
# Cloudflared has a /ready endpoint which returns 200 if and only if
# it has an active connection to the edge.
path: /ready
port: 2000
failureThreshold: 1
initialDelaySeconds: 10
periodSeconds: 10
for you kubernetes cluster only add your token and run: kubectl/oc create -f
(nameofyourfile).yaml
```

Reply ↤

Dipak

MARCH 28, 2023 AT 10:05 AM

I have setup cloudflare access tunnel with one time pin setup on synology. On mobile phone I can access the DMS and successfully login thru web browser. However, the mobile app DS File could not sign in. Without one time pin set, DS File work. Any suggestion/help is appreciated.

Reply ↲

Sebastian

APRIL 12, 2023 AT 5:57 AM

I have the same problem. In DS File I can add the :443 suffix and everything works. In DS Cam I get a connection error when I try to add the fixed port :443.

Any Ideas?

Reply ↲

Jacob

MARCH 29, 2023 AT 6:15 AM

Has anyone tried installing the daemon on a UDM/Pro/SE?

Reply ↲

Mike

APRIL 5, 2023 AT 1:27 PM

Clear manual only I don't understand what you get out of it. You can really only access html. No SMB and no AFP. So what use is it on your fileserver with these restrictions?

Reply ↲

Sebastian

APRIL 12, 2023 AT 5:57 AM

I have the same problem. In DS File I can add the :443 suffix and everything works. In DS Cam I get a connection error when I try to add the fixed port :443.

Any Ideas?

Reply ↲

Paul Paul

APRIL 16, 2023 AT 10:36 AM

I finally got it working for a local LAN page with a button and small video stream that uses a 2nd port.

I had to change my php code in the website to use the subdomain pointing to the local website address, and make 2 public subdomain that has the port for the video.

Reply ↲

Paul Paul

APRIL 16, 2023 AT 10:42 AM

No more port forwarding in my router.

I used to be able to have the user and password in the shortcut I saved on my phone.

I.e <http://user:password@name.dynu.net:port/site.php>

How would I do that with Cloudflare Tunnel, on the phone I really don't want to stop and enter the user and password? I.e in the car coming up to home

Reply ↲

Etienne

APRIL 19, 2023 AT 2:09 AM

Cloudflare forces me to select a plan before it allows me to vreate a tunnel.

Even if you select the free plan, it wants your credit card info before it will proceed.

Reply ↲

Kurt

APRIL 21, 2023 AT 11:02 AM

Is it just me, or did they change the interface for “Additional Application Settings” in the Public Hostname Page? I am following this well-written tutorial and was trying to turn off TLS as my router is inaccessible with the default set up. I only have three choices HTTP Settings – Connection – Or Access. None of which has the TLS option?

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