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Remote printer access for Klipper – OctoEverywhere

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Have you ever been half way through a long print and your social life gets in the way? Do you want to keep an eye on your printer while you are at work? Well it has been possible for a long time now but it required a pretty good level of IT understanding and awareness to do it securely and safely and the gold standard was a paid for VPN service.

Enter OctoEverywhere, a company formed in 2021 and based in Washington, US. They have offered free remote OctoPrint monitoring for a while now but just recently released full support for Klipper printers. Having tested the basic access level content I am very impressed, it is very easy to setup notifications and the responsiveness of the web app is like using the Klipper interface from within my own WiFi network. It is by far the best solution to date (and no I am in no way sponsored by them) mostly because of the ease of setup and security considerations.

They operate with a sort of Freemium model where you have access to the majority of features for free but have to pay for various supporter tiers to unlock everything.

All Supporter Levels Include



Unlimited App Access

Your favorite iOS and Android apps work anywhere!

[Learn more](#)



Longer Webcam Streams

2 minutes of webcam streaming per stream and **unlimited** back-to-back streams.



Large File Transfers

500 MB file size limit for file uploads and downloads, compared to 20 MB on standard accounts.



Gadget AI Advance Perks

Smart Pause, 4x Faster Detections, new types of print failures, and more.

[Learn more](#)



Full Webcam Link Links

Empower your Live Links with full frame rate and resolution webcam streaming for all of your viewers.



Advance Quick View Streams

Full frame webcam streaming and up to 2 minutes of streaming between breaks.



Unlimited Printer Notifications

Alerts and snapshots sent via Email, SMS, Telegram, Discord and more.

[Learn more](#)



Shared Connections

Share safe and secure remote access to your printers with anyone.

[Learn more](#)



Unthrottled Access

Unlimited & unthrottled remote access in all browsers and apps.



Connect 5 Printers

Your supporter perks empower up to 5 printers at no extra charge.

[Need more printers?](#)

Now these limits might sound annoying but for most people the free offering is plenty. It allows you to monitor up to 5 printers, gives you print failure detection and short webcam streaming sessions to check up on your latest 500% scaled Benchy.

One of the key features for me was status notifications and honestly when I was greeted with this huge list of notification methods I was a bit blown away. As I am a regular discord user and have other automations / bot messages that already use it I chose to experiment with notifications via Discord (see how later).

⚡ Instant Printer Notifications

OctoEverywhere's Instant Notification technology keeps you up to date with your printer's progress and issues from anywhere. We'll even alert you if your filament runs out. ⌘<



Email



SMS *(new!)*



Desktop And Mobile *(new!)*



Telegram



Discord



Slack



Pushover



Pushbullet



Custom Webhook



Security

The BIG question with all services which allow access to devices in your home has to be is it secure? In 2018 Octoprint was involved in a huge security blunder where thousands of it's users opened up their printers to anyone, without any passwords, on the Internet.

Whilst this wasn't a flaw in Octoprint itself it shows that the average user needs more guidance when configuring remote access to their devices. It doesn't take much imagination to guess how dangerous that situation could be? A machine capable of heating itself, to well above melting temperatures of the plastics around it, is now in the hands of whoever wants to cause trouble from wherever they are in the world!

I am not going to claim to be an IT security expert but I did some digging before giving it a go because well I don't want to expose myself to any security issues.

Unsurprisingly OctoEverywhere have written a bit of a blog and 3rd party YouTube channel Renaissance Laboratories have done a video covering the steps OctoEverywhere have taken.

To summarise; All data sent and received is encrypted and no port forwarding etc. (common security weakness that is exploited) takes place. Please do your own reading but in general it promises a good level of security.

The Security Behind OctoEverywhere

In the video Renaissance Laboratories runs a commercially available network security flaw testing tool to see the results and it simply gives 24 information notifications and no warnings. I ran the address for my printer instance through <https://pentest-tools.com/> and likewise only received information notifications.

→ Scan summary

Overall risk level Info	Scan status Finished
Risk ratings	Start time 05/04/2023, 23:38:22
High 0	Finish time 05/04/2023, 23:38:41
Medium 0	Scan duration 19 seconds
Low 0	Tests performed 3/3
Info 3	

Lastly there is the question of what will OctoEverywhere do with your data? Their Terms of Service ([Found here](#)) state that images/video will be used/processed for printer

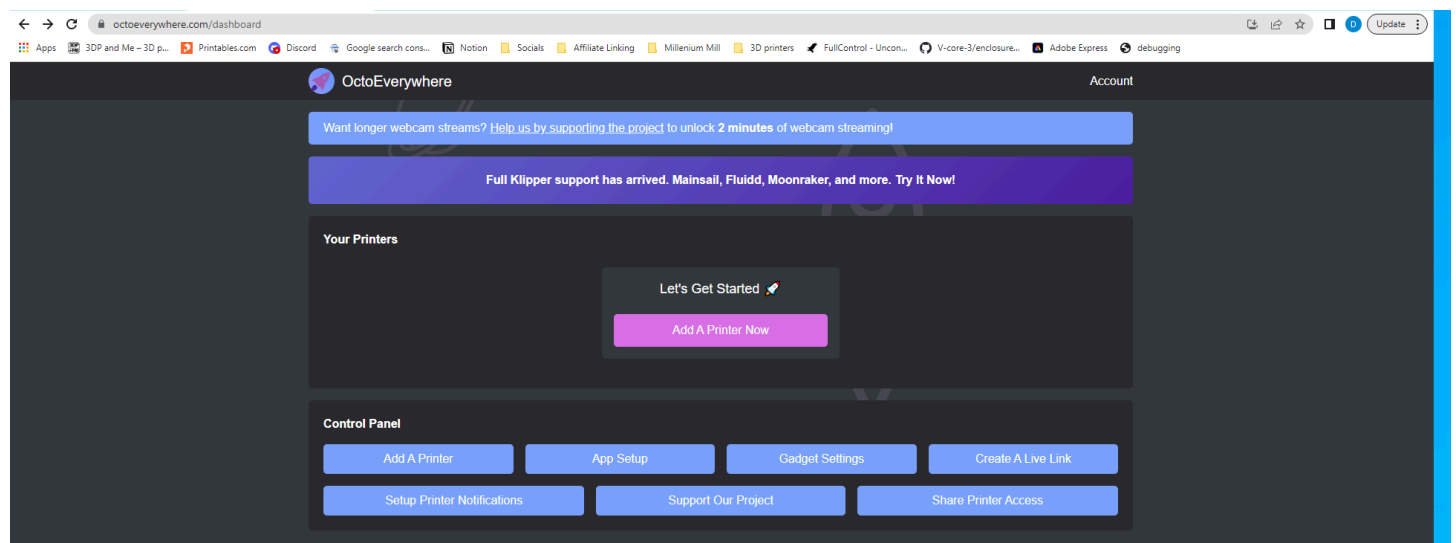
notifications (print failure detection) and improving features but will never be sold or shared which is inline with what I would expect from an upstanding tech firm.

A good result all round. Right time to go ahead with an install!

Installation

Step one is to head over to <https://octoeverywhere.com/> and create an account. If you read their security blog now might be a good time to choose to use a 3rd party authentication / single sign on tool from someone like Google; rather than a generic password you have used everywhere! Again take the opportunity to also enable 2 factor authentication for the added piece of mind.

Once logged in you are greeted with a home screen prompting you to add your first printer! Go ahead and click that button



There are 3 supported printer control types right now. If you are reading this then it's highly likely you are hitting the Klipper option.

Empower Your Printer

OctoEverywhere fully supports many printer platforms; you can even set up multiple platforms on your account. Select which platform you would like to install on below.

OctoPrint Or OctoKlipper

Klipper, Mainsail, Fluidd, or Moonraker

Crealty Sonic Pad

If you get stuck we are happy to help, [send us a message](#).

Now this is the only real technical step in the installation but if you setup Klipper yourself you already have the full skill set to tackle it!

Prepare For Launch

To establish a secure connection with your printer, you need to [install our Klipper plugin](#).

To install the plugin, simply SSH into your device running Klipper and copy-paste the following command:

```
bash <(curl -s https://octoeverywhere.com/klipper-install.sh)
```

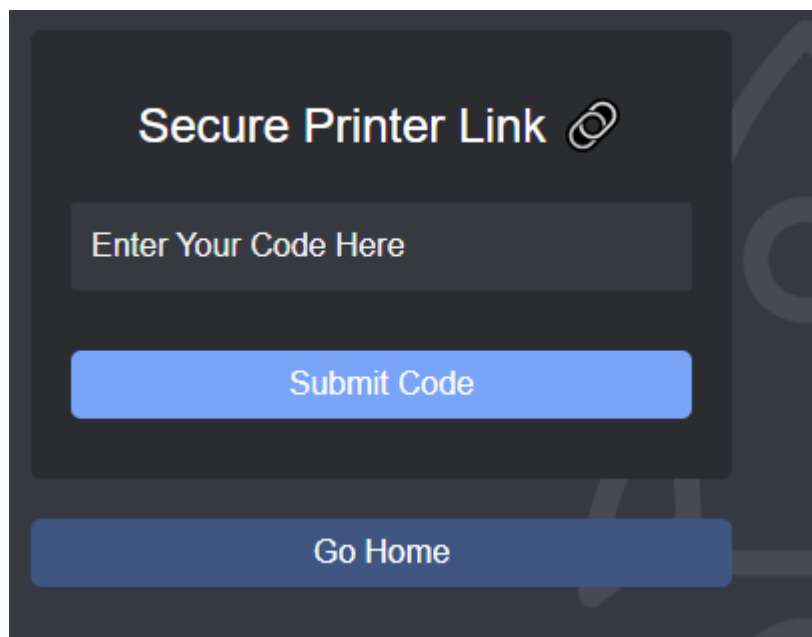
Command not working? [Try another way](#)

Need Help? [Send us a message](#)

SSH into your printer and paste the command line above. It is a bash script which will clone the Octoeverywhere repo and then install the services all for you.

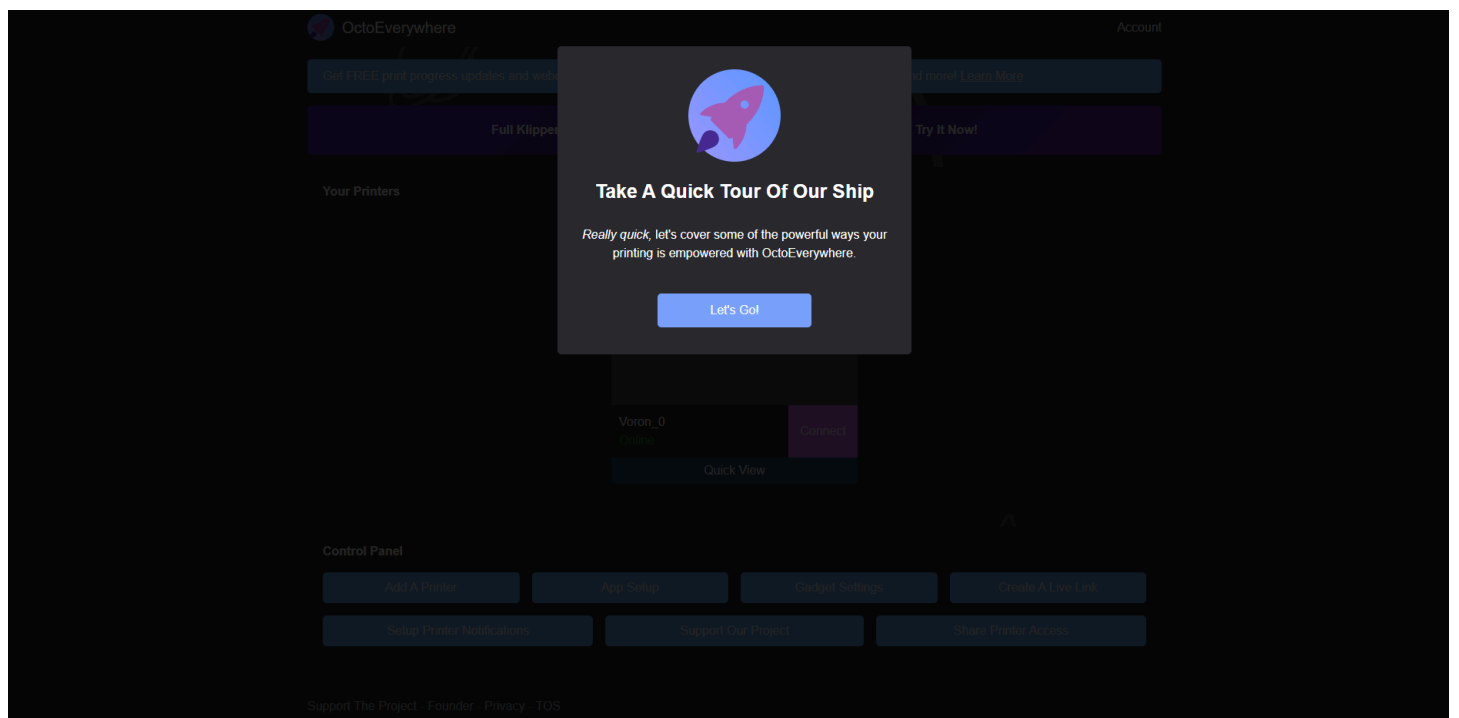
Once completed it will give you a code to use to setup your printer. Head over to <https://octoeverywhere.com/code> and enter it.

```
biqu@BTT-CB1: ~  
Found existing OctoEverywhere service config.  
Server section not found in OE config.  
Found existing OctoEverywhere service config.  
Server section not found in OE config.  
Found existing OctoEverywhere service config.  
Server section not found in OE config.  
Found existing OctoEverywhere service config.  
Server section not found in OE config.  
Found existing OctoEverywhere service config.  
Server section not found in OE config.  
  
You're 10 seconds away from free and unlimited printer access from anywhere!  
To securely link this printer to your OctoEverywhere account, go to the following website and use the code.  
  
Website: https://octoeverywhere.com/code  
Code:   
  
Waiting for the printer to be linked to your account...
```



The image shows a web interface titled "Secure Printer Link" with a link icon. It features a text input field labeled "Enter Your Code Here", a blue "Submit Code" button, and a blue "Go Home" button at the bottom.

Add a printer name and then you should be greeted with the welcome screen!



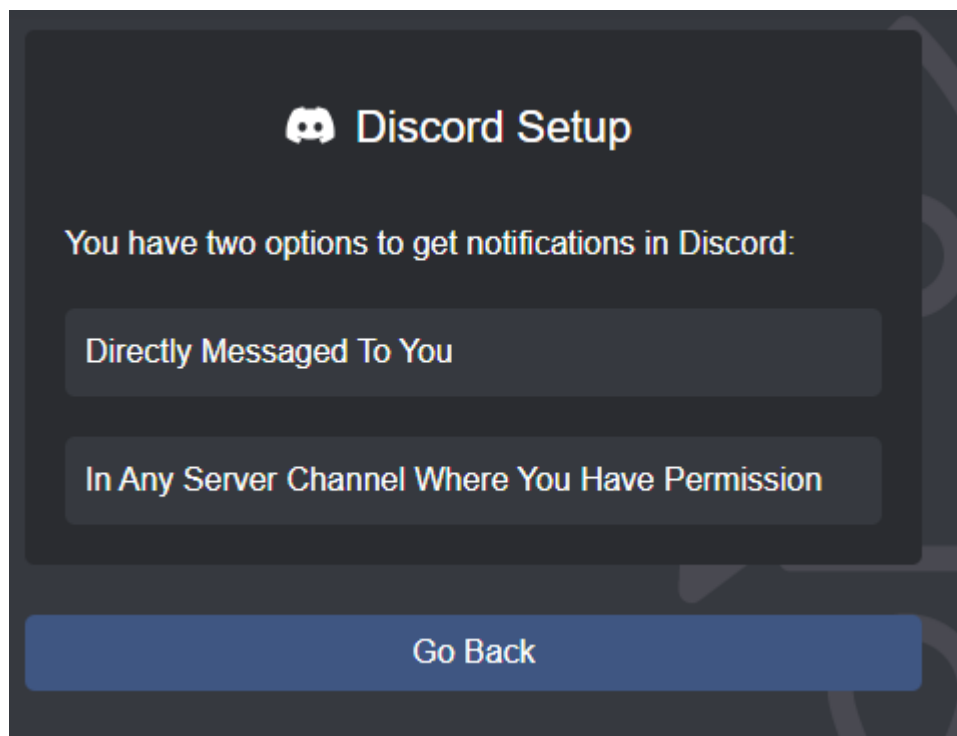
Check back in your ssh terminal and enter 'y' to say your printer is paired.

```
~~~ OctoEverywhere For Klipper Setup Complete ~~~  
You Can Access Your Printer Anytime From OctoEverywhere.com  
Welcome To Our Community  
<3
```

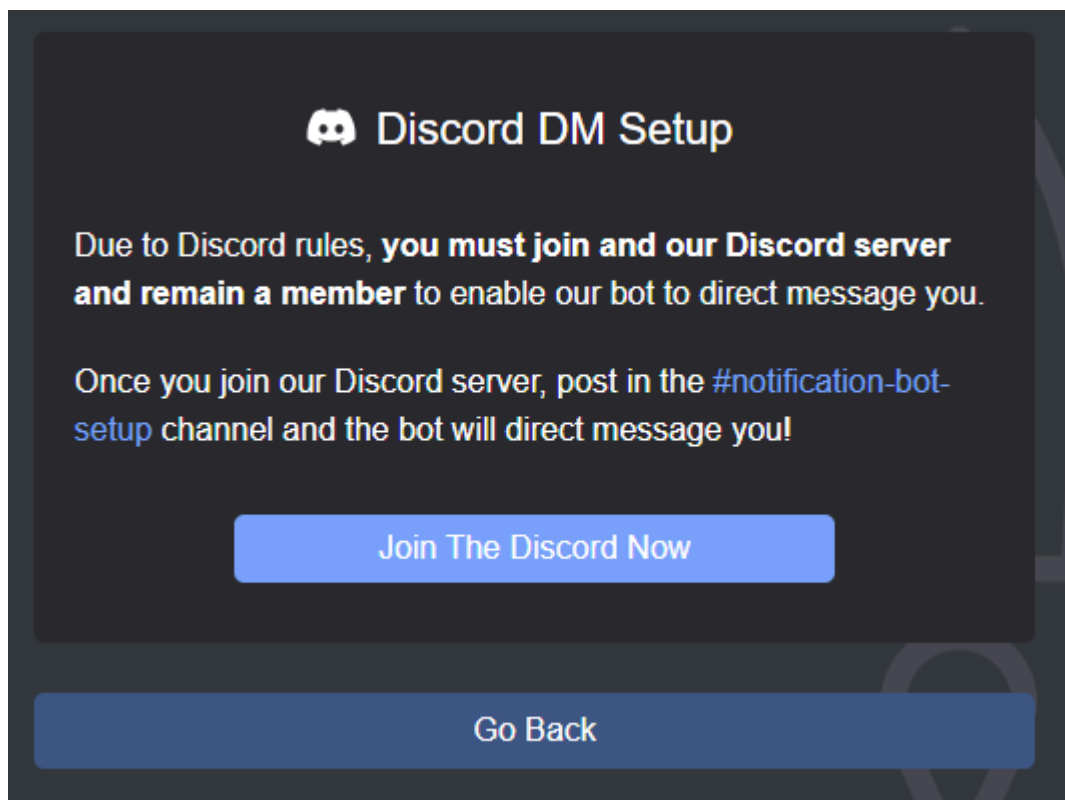
That is it. Your basic functionality should be all up and running! Now there are many configuration options you can apply. For now I have just gone ahead and added Discord notifications.

Discord Notifications

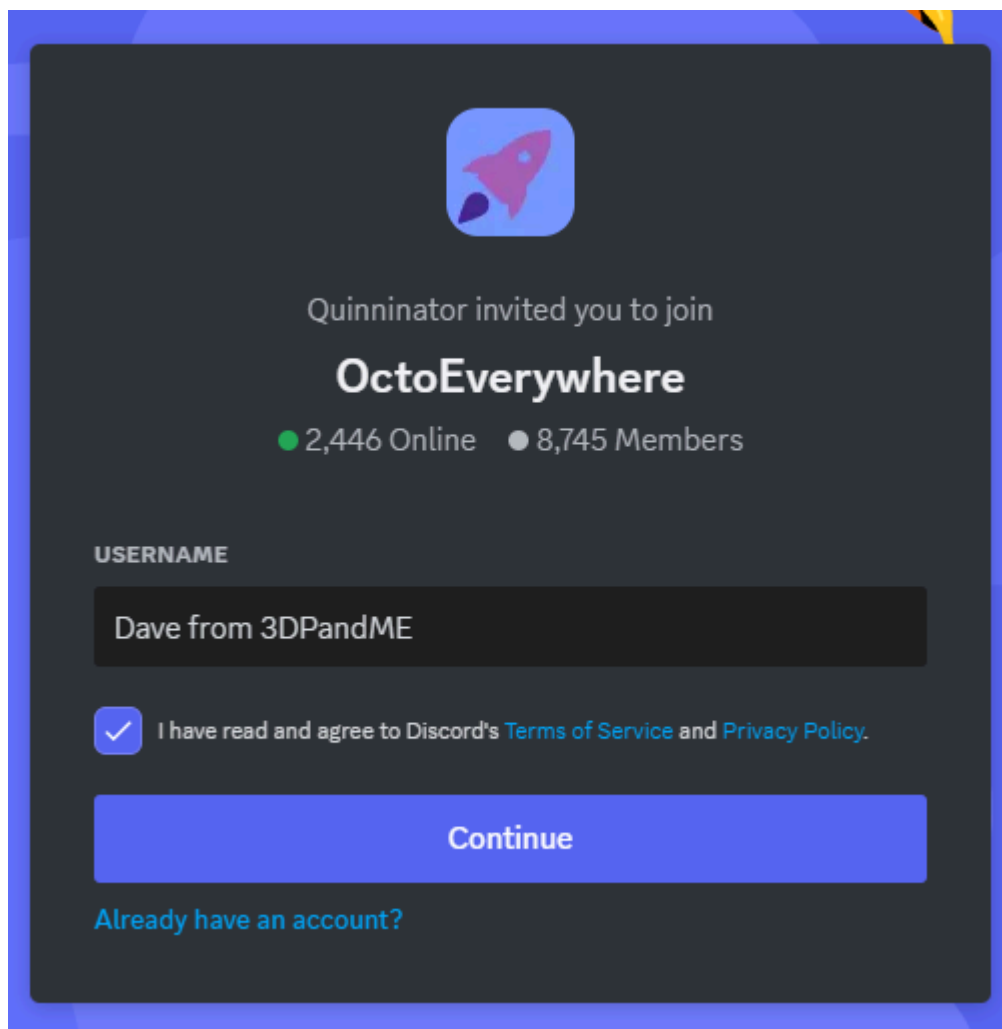
Setting up discord notifications was pretty straight forward. Much like the installation you are guided through the steps. I chose to receive direct messages because no channels (not even my own) need the spam from my failed prints!



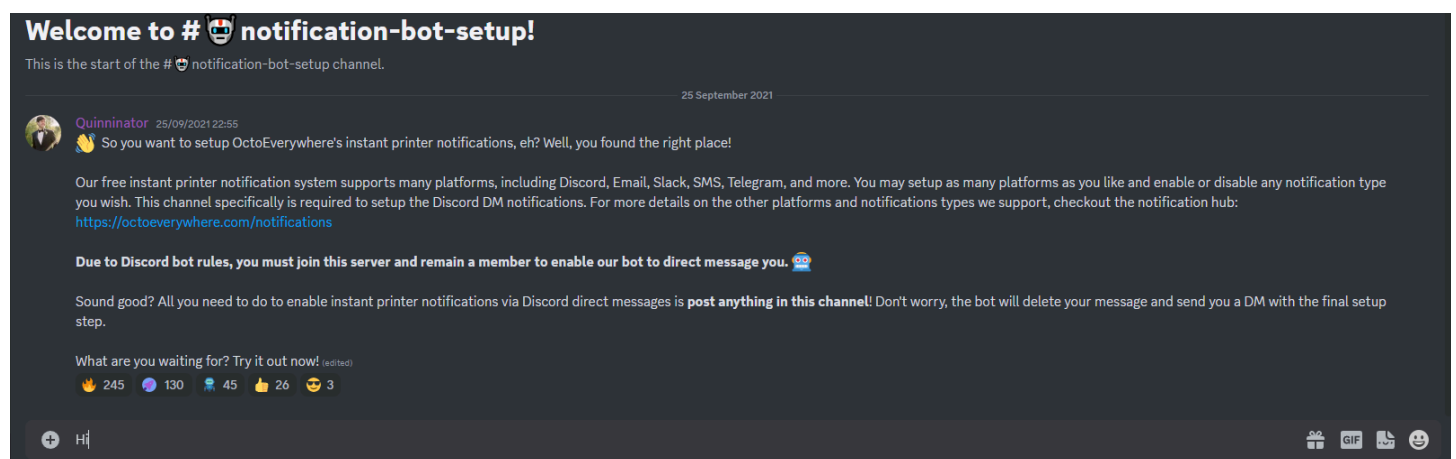
For security / discord rules their discord BOT can only message you if you are a member on their channel.



Join the channel – Note you will probably have to log into discord in your browser for this to work! Don't accidentally create a new account like I started doing.



Once joined head over to the notification bot setup channel and post a message saying literally anything!



You will get a DM from the OctoEverywhere bot with a link to click to finish setting up the notifications. You can choose a bunch of options on what you receive notifications for depending on the level of information you want/need.

Discord Notifications

You are currently using Discord DMs for notifications.

Due to Discord rules, **you must remain a member of the OctoEverywhere Discord server** so our bot can direct message you.

[Click here to update or change your Discord setup](#)

Enable Notifications



Print Started

Alerts when a new print is started.



Print Complete

Alerts when a print is completed successfully.



Print Failed

Alerts when a print fails for any reason.



Print Time Elapsed

Alerts at each given time interval.

Disabled



Print Progress

Alerts at the given percentage interval.

Disabled



First Layer Done

Alerts when the first layer of the print is done. This is



Once done you will get a little tick icon next to the Discord option. Note you can add as many different options as you like and configure only certain notifications to go to each! I hate my inbox getting filled up in my emails so I went back and turned off email notifications.

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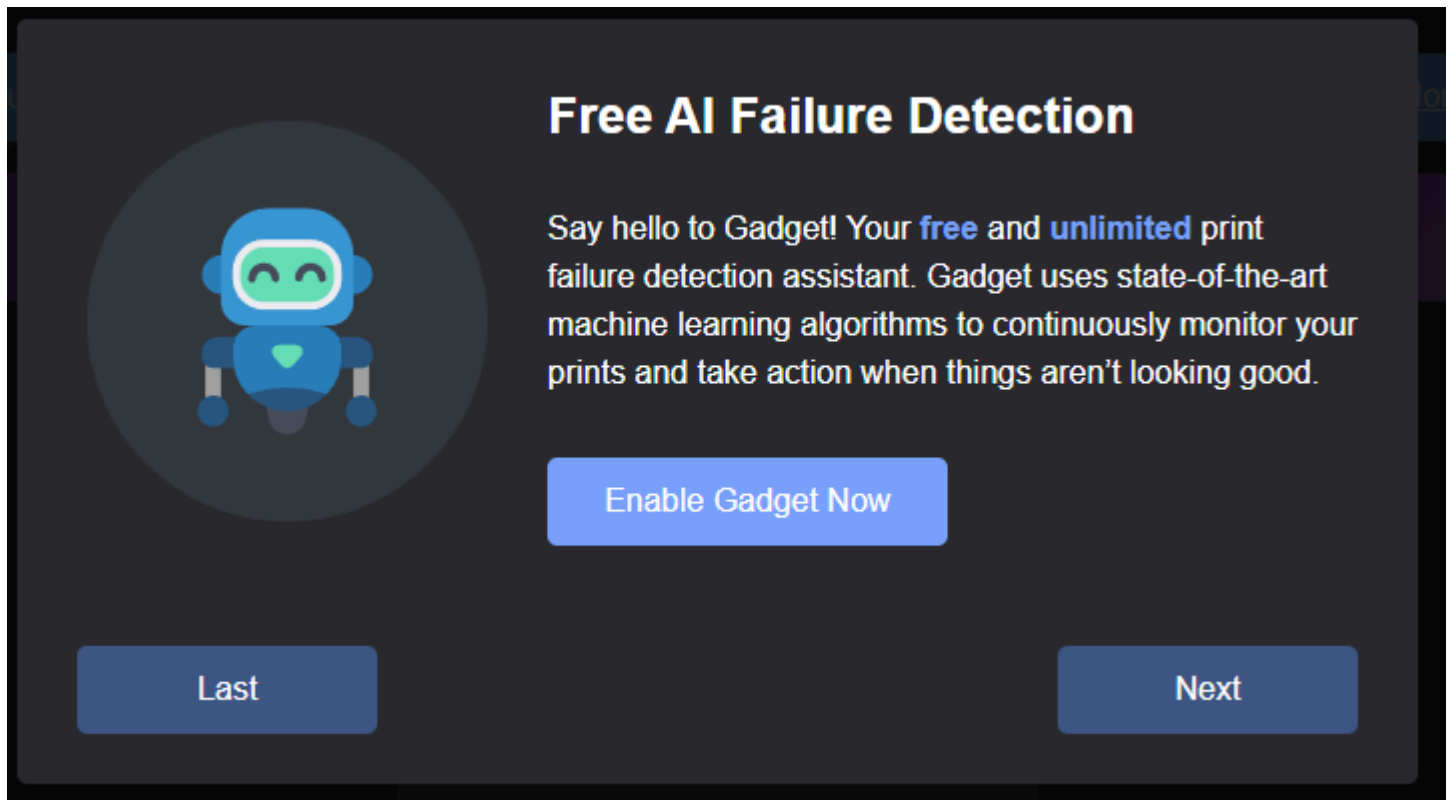
Custom Webhook



Enabling print failure AI

Now automatic print failure on paper sounds like a game changer however I used Spaghetti detective years ago and it caused more harm than good!

OctoEverywhere offers a free AI failure detection service and I just wanted to let you know that I will be putting it through it's paces before I give my feedback because it isn't something that you can be confident with until you have tested it for a reasonable time period.



The image shows a dark-themed user interface for a service called 'Free AI Failure Detection'. On the left, there is a circular icon containing a blue robot character with a green visor. To the right of the icon, the title 'Free AI Failure Detection' is displayed in a large, bold, white font. Below the title, a paragraph of text in a smaller white font reads: 'Say hello to Gadget! Your **free** and **unlimited** print failure detection assistant. Gadget uses state-of-the-art machine learning algorithms to continuously monitor your prints and take action when things aren't looking good.' Below this text is a prominent blue button with the white text 'Enable Gadget Now'. At the bottom of the interface, there are two smaller, semi-transparent blue buttons: 'Last' on the left and 'Next' on the right.

Free AI Failure Detection

Say hello to Gadget! Your **free** and **unlimited** print failure detection assistant. Gadget uses state-of-the-art machine learning algorithms to continuously monitor your prints and take action when things aren't looking good.

Enable Gadget Now

Last Next

WordPress reported zero comments at retrieval. Outbound links remain references to their original sites. No embedded video was downloaded.