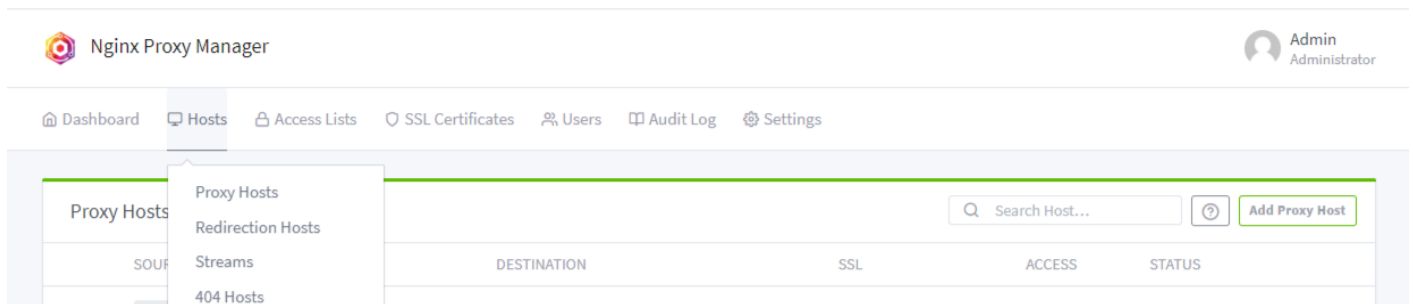


Proxy Server

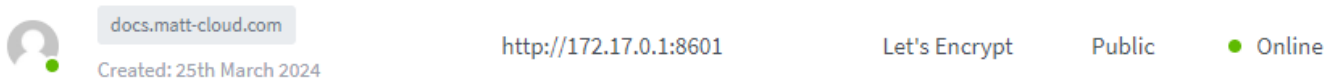
The proxy server is how I am able to host an indefinite amount of different things all from the same IP address. Thanks to the arcane magic lain down by the elders before me, one can make a DNS request, and when received by a certain type of server, said server is able to provide a different service based on the incoming DNS request. The proxy server I use is creatively called Ngix Proxy Manager, or NPM. This also allows me to use LetsEncrypt to create valid HTTPS certs and ideally auto renew them. The only major services I have that get their own VM and IP are Drive and Mail, so they don't go through this proxy. The proxy is also the only container with ports directly exposed to the internet, everything else is routed internally on the VM. As of the writing of this sentence, there are 56 different ports exposed internally from my different containers.

Home page items for NPM



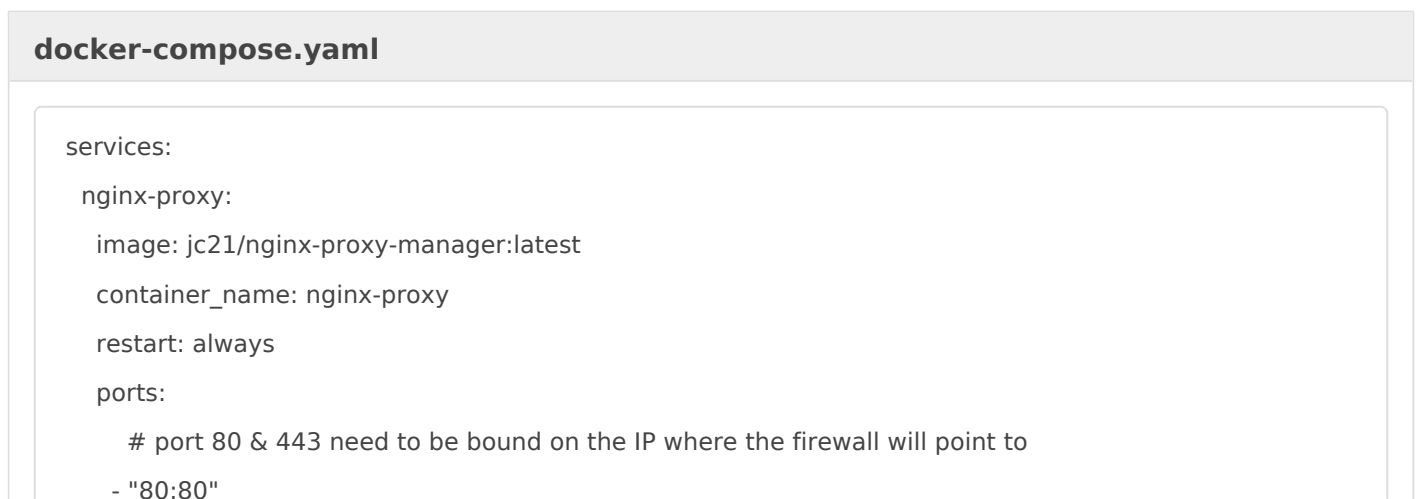
The screenshot shows the Nginx Proxy Manager interface. At the top left is the logo and name 'Nginx Proxy Manager'. At the top right is the user profile 'Admin Administrator'. Below the header is a navigation bar with links: Dashboard, Hosts, Access Lists, SSL Certificates, Users, Audit Log, and Settings. The 'Hosts' menu is expanded, showing a list of host types: Proxy Hosts, Redirection Hosts, Streams, and 404 Hosts. To the right of the menu is a search bar labeled 'Search Host...' and an 'Add Proxy Host' button. Below the menu is a table with columns: DESTINATION, SSL, ACCESS, and STATUS.

Sample NPM config entry



The screenshot shows a sample NPM config entry. On the left is a user profile for 'docs.matt-cloud.com' with a green status indicator and the text 'Created: 25th March 2024'. To the right, the URL 'http://172.17.0.1:8601' is listed, followed by 'Let's Encrypt', 'Public', and a green status indicator with the text 'Online'.

Docker compose config



```
services:
  nginx-proxy:
    image: jc21/nginx-proxy-manager:latest
    container_name: nginx-proxy
    restart: always
    ports:
      # port 80 & 443 need to be bound on the IP where the firewall will point to
      - "80:80"
```

- "443:443"

port 81 is the web dashboard for NPM, you can proxy this using itself

- "81:81"

volumes:

- ./npm_data:/data

- ./npm_letsencrypt:/etc/letsencrypt

network_mode: bridge

Revision #5

Created 2 April 2024 04:15:01 by Matt Anderson

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