**NGINX - The fastest web server**

**NGINX** is open source software for web serving, reverse proxying, caching, load balancing, media streaming, and more. It started out as a web server designed for maximum performance and stability. In addition to its HTTP server capabilities, NGINX can also function as a proxy server for email (IMAP, POP3, and SMTP) and a reverse proxy and load balancer for HTTP, TCP, and UDP servers.

Used by many websites such as Dropbox, Netflix, Gitlab and Zynga

As a software‑only all-in-one load balancer, web server, API gateway, and reverse proxy that is designed for cloud‑native architectures, NGINX helps accelerate IT infrastructure and application modernization efforts

Nginx is built to offer **low memory usage** and high concurrency. Rather than creating new processes for each web request, Nginx uses an asynchronous, event-driven approach where requests are handled in a single thread.

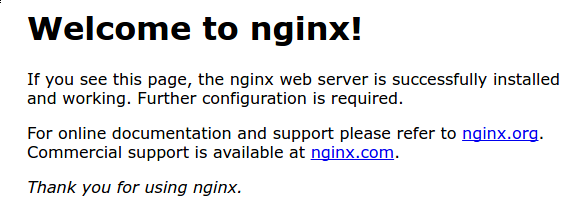
**Some common features seen in Nginx:**

* Reverse proxy with caching
* IPv6
* Load balancing
* FastCGI support with caching
* WebSockets
* Handling of static files, index files, and auto-indexing
* TLS/SSL with SNI

**Installing nginx on ubuntu18**

1. sudo apt update
2. sudo apt install nginx
3. sudo ufw allow ‘Nginx HTTP’
4. Check status of ngnix
   1. sudo systemctl status nginx
5. In Browser access below URL
   1. http://<AWS\_VM\_HOST\_Public\_IP>

***You should see the default Nginx landing page as below:***



**Managing the NGINX processes:**

* To stop the web server:
  + sudo systemctl stop nginx
* To start the web server:
  + sudo systemctl start nginx
* To stop and start the service again:
  + sudo systemctl restart nginx
* Nginx can be made to reload configuration changes without dropping the connections with:
  + sudo systemctl reload nginx
* By default, Nginx is configured to start automatically when the server boots. This can be disabled with:
  + sudo systemctl disable nginx
* To re-enable the service to start up at boot, you can type:
  + sudo systemctl enable nginx

**Setup "file browser" mode on freshly installed nginx server:**

1. Edit default config for nginx:

sudo vim /etc/nginx/sites-available/default

1. Add following to config section:

location /logs {

alias /home/ubuntu/logs/;

autoindex on;

}

1. Create folder and sample file there:

mkdir -p /home/ubuntu/logs/release\_2021\_1.0\_20211003

cp -r <log\_files\_of\_build> /home/ubuntu/logs/

1. Restart nginx

sudo systemctl restart nginx

1. Check result from browser:

http://<AWS\_VMHOST\_PUBLIC\_IP>/logs/

**Copying test logs to a folder in this AWS Nginx host using SCP:** [ Ex: from Jenkins]

ssh -i ~/<your\_aws\_key>.pem ubuntu@<AWS\_vmhost\_PublicIp> “mkdir -p /home/ubuntu/logs/release\_2021\_1.0\_20211003”

scp -i ~/<your\_aws\_key>.pem <src\_files> ubuntu@<AWS\_vmhost\_PublicIp>:/home/ubuntu/logs/release\_2021\_1.0\_10032021