

Nginx Docker Hub

About

- Nginx is an open source reverse proxy server for
 - HTTP
 - HTTPS
 - STMP
 - POP3
 - IMAP
- Load Balancer
- HTTP Cache
- Web Server

Adventajes

- High Performance
- High Concurrency
- Low Memory Usage

Image Usage

Hosting Static Content

```
docker run --name my-nginx-container -v  
/host/path/nginx.conf:/etc/nginx/nginx/.conf:ro -d nginx
```

Dockerfile can be used to generate a new image that includes the necessary content

```
FROM nginx  
COPY static-html-directory /usr/share/nginx/html
```

Place this file in the same directory as your directory of content, run `docker build -t some-content-nginx .` then start the container

```
docker run --name some-nginx -d -p 8080:80 some-content-nginx
```

then you can visit <http://localhost:8080/> in the browser.

Complex Config

```
docker run --name my-custom-nginx-container -v  
/host/path/nginx.conf:/etc/nginx/nginx.conf:ro -d nginx
```

to adapt default configuration file

```
docker run --name tmp-nginx-container -d nginx  
docker cp tmp-nginx-container:/etc/nginx/nginx.conf /host/path/nginx.conf  
docker rm -f tmp-nginx-container
```

```
FROM nginx  
COPY nginx.conf /etc/nginx/nginx.conf
```

To add custom **CMD** in Dockerfile be sure to include **-g daemon off;** in the CMD order for nginx to stay in the foreground, so that docker can track the preocess properly.

Then build the image with **docker build -t custom-nginx .** an run it as

```
docker run --name my-custom-nginx-container -d custom-nginx
```

Environment Variables

- Nginx does not support environment variables inside most configuration blocks
- This image extract environment variables before nginx starts.

Using docker-compose:

```
web:  
  image: nginx  
  volumes:  
    - ./templates:/etc/nginx/templates  
  ports:  
    - "8080:80"  
  environment:  
    - NGINX_HOST=foobar.com  
    - NGINX_PORT=80
```

This function reads template files in **/etc/nginx/templates/*.template** and outputs the result of executing **envsubst** to **/etc/nginx/conf.d**.

Nginx Read Only Mode

1. Mount a docker volume to every location where nginx writes information.

2. Default Nginx config requires write-access to /var/cache and /var/run
3. To advanced configuration that requires nginx to write other location, add more volume mounts to those locations.

```
docker run -d -p 80:80 --read-only -v $(pwd)/nginx-cache:/var/cache/nginx -v $(pwd)/nginx-pid:/var/run nginx
```

Debug Mode

```
docker run --name my-nginx -v /host/path/nginx.conf:/etc/nginx/nginx.conf:ro -d nginx nginx-debug -g 'daemon off;'
```

```
web:
  image: nginx
  volumes:
    - ./nginx.conf:/etc/nginx/nginx.conf:ro
  command: [nginx=debug, '-g', 'daemon-off;']
```