

# server + docker

## instalación servidor

setup.sh

```
apt-get update
apt-get upgrade -y
apt install sudo
vim \
mc \
ncdu \
curl \
wget \
git \
fonts-powerline \
zsh \
apt-transport-https \
ca-certificates \
curl \
gnupg2 \
software-properties-common
useradd -m -d /home/user user
passwd user
usermod -a -G sudo user
vim /etc/sudoers.d/nopass # user ALL=(ALL) NOPASSWD:ALL
vim /etc/ssh/sshd_config # PermitRootLogin No
```

## instalación nginx+certbot

1. crear estructura de directorios:

```
mkdir -p data/nginx/conf.d
mkdir -p data/nginx/www
mkdir -p data/certbot/www
mkdir -p data/certbot/conf
```

2. crear fichero configuración nginx:

```
server {
    listen 80;
    server_name <SERVER_NAME>;
#    location / {
#        return 301 https://$host$request_uri;
#    }
    root /var/www/html;
    index index.html;
    location /.well-known/acme-challenge/ {
        root /var/www/certbot;
    }
}
```

```
}
#server {
#   listen 443 ssl;
#   server_name <SERVER_NAME>;
#   ssl_certificate /etc/letsencrypt/live/k0.vividumcodex.com/fullchain.pem;
#   ssl_certificate_key
/etc/letsencrypt/live/k0.vividumcodex.com/privkey.pem;
##   include /etc/letsencrypt/options-ssl-nginx.conf;
##   ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;
#
#   location / {
#       root /var/www/html;
#   }
}
```

3. ejecutar:

[run-nginx.sh](#)

```
docker run \
  -it \
  --name nginx \
  --rm \
  -p 80:80 \
  -v ${PWD}/data/nginx/conf.d:/etc/nginx/conf.d \
  -v ${PWD}/data/nginx/www:/var/www/html \
  -v ${PWD}/data/certbot/conf:/etc/letsencrypt \
  -v ${PWD}/data/certbot/www:/var/www/certbot \
  nginx:1.15-alpine
```

4. ejecutar:

[run-certbot.sh](#)

```
docker run \
  -it \
  --name certbot \
  --rm \
  -v ${PWD}/data/certbot/conf:/etc/letsencrypt \
  -v ${PWD}/data/certbot/www:/var/www/certbot \
  certbot/certbot:latest certonly
```

- opción 2 (place files in webroot directory)
- webroot: **/var/www/certbot**

## origen

<https://medium.com/@pentacent/nginx-and-lets-encrypt-with-docker-in-less-than-5-minutes-b4b8a60d3a71>

[docker-compose.yml](#)

```
version: '3'
```

```

services:
  nginx:
    image: nginx:1.15-alpine
    ports:
      - "80:80"
      - "443:443"
    volumes:
      - ./data/nginx/conf.d:/etc/nginx/conf.d
      - ./data/nginx/www:/var/www/html
      - ./data/certbot/conf:/etc/letsencrypt
      - ./data/certbot/www:/var/www/certbot
    # command: "/bin/sh -c 'while ;; do sleep 6h & wait $$!}; nginx -s reload;
done & nginx -g \"daemon off;\""

  certbot:
    image: certbot/certbot
    volumes:
      - ./data/certbot/conf:/etc/letsencrypt
      - ./data/certbot/www:/var/www/certbot
    command: "certonly"
    # # entrypoint: "/bin/sh -c 'trap exit TERM; while ;; do certbot renew;
sleep 12h & wait $$!}; done;'"

```

## instalacion rtorrent+rutorrent

1. crear estructura de directorios:

```

mkdir -p data/downloads/completo
mkdir -p data/root
mkdir -p data/rutorrent

```

2. copiar ficheros de configuración contenedor en **/root** (sacados del propio contenedor y modificar los ficheros de configuración de nginx):
  - o añadir:

```

location /completo {
    alias /downloads/completo;
    autoindex on;
}

```

3. copiar fichero **config.php** en **data/rutorrent** (para cambiar variable \$forbidUserSettings = true;)
4. crear enlaces simbólicos:

```

# los enlaces funcionarán desde dentro del contenedor por el mapeo de volumen
ln -s /etc/letsencrypt/live/k0.vividumcodex.com/cert.pem nginx.crt
ln -s /etc/letsencrypt/live/k0.vividumcodex.com/privkey.pem nginx.pem

```

- ejecutar:

```
CERTBOT_PATH="/home/user/workspaces/nginx+certbot"
```

```
docker run \
```

```
-dt \  
--restart unless-stopped \  
--name rtorrent-rutorrent \  
-p 443:443 \  
-p 49160:49160/udp \  
-p 49161:49161 \  
-v ${PWD}/data/downloads:/downloads \  
-v ${PWD}/data/root:/root \  
-v ${PWD}/data/rutorrent/config.php:/var/www/rutorrent/conf/config.php \  
-v ${CERTBOT_PATH}/data/certbot/conf:/etc/letsencrypt \  
-v ${CERTBOT_PATH}/data/certbot/www:/var/www/certbot \  
diameter/rtorrent-rutorrent:latest
```

## renovación certificado

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