

# Instalação N8N docker (1)

Link: <https://docs.n8n.io/hosting/installation/server-setups/docker-compose/#5-create-docker-compose-file>

If you have already installed Docker and Docker-Compose, then you can start with step 4.

Self-hosting knowledge prerequisites

Self-hosting n8n requires technical knowledge, including:

- Setting up and configuring servers and containers
- Managing application resources and scaling
- Securing servers and applications
- Configuring n8n

n8n recommends self-hosting for expert users. Mistakes can lead to data loss, security issues, and downtime. If you aren't experienced at managing servers, n8n recommends [n8n Cloud](#).

Latest and Next versions

n8n releases a new minor version most weeks. The `latest` version is for production use. `next` is the most recent release. You should treat `next` as a beta: it may be unstable. To report issues, use the [forum](#).

Current `latest`: 1.58.2

Current `next`: 1.59.0

## 1. Install Docker#

This can vary depending on the Linux distribution used. You can find detailed instructions in the [Docker documentation](#). The following example is for Ubuntu:

```
sudo apt-get remove docker docker-engine docker.io containerd runc
sudo apt-get update
sudo apt-get install ca-certificates curl gnupg lsb-release
sudo mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
```

```
echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list
> /dev/null

sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io
```

## 2. Optional: Non-root user access#

Run when logged in as the user that should also be allowed to run docker:

```
sudo usermod -aG docker ${USER}
su - ${USER}
```

## 3. Install Docker-Compose#

This can vary depending on the Linux distribution used. You can find detailed instructions in the [Docker documentation](#).

The example below is for Ubuntu:

```
sudo apt-get install docker-compose-plugin
```

## 4. DNS setup#

Add A record to route the subdomain accordingly:

```
Type: A
Name: n8n (or the desired subdomain)
IP address: <IP_OF_YOUR_SERVER>
```

## 5. Create Docker Compose file#

Create a `docker-compose.yml` file. Paste the following in the file:

```
version: "3.7"

services:
  traefik:
    image: "traefik"
    restart: always
    command:
      - "--api=true"
      - "--api.insecure=true"
      - "--providers.docker=true"
      - "--providers.docker.exposedbydefault=false"
      - "--entrypoints.web.address=:80"
      - "--entrypoints.web.http.redirections.entryPoint.to=websecure"
      - "--entrypoints.web.http.redirections.entrypoint.scheme=https"
      - "--entrypoints.websecure.address=:443"
      - "--certificatesresolvers.mytlschallenge.acme.tlschallenge=true"
      - "--certificatesresolvers.mytlschallenge.acme.email=${SSL_EMAIL}"
      - "--certificatesresolvers.mytlschallenge.acme.storage=/letsencrypt/acme.json"
    ports:
      - "80:80"
      - "443:443"
    volumes:
      - traefik_data:/letsencrypt
      - /var/run/docker.sock:/var/run/docker.sock:ro

  n8n:
    image: docker.n8n.io/n8nio/n8n
    restart: always
    ports:
      - "127.0.0.1:5678:5678"
    labels:
      - traefik.enable=true
      - traefik.http.routers.n8n.rule=Host(`${SUBDOMAIN}.${DOMAIN_NAME}`)
      - traefik.http.routers.n8n.tls=true
      - traefik.http.routers.n8n.entrypoints=web,websecure
      - traefik.http.routers.n8n.tls.certresolver=mytlschallenge
      - traefik.http.middlewares.n8n.headers.SSLRedirect=true
      - traefik.http.middlewares.n8n.headers.STSSeconds=315360000
```

- traefik.http.middlewares.n8n.headers.browserXSSFilter=true
- traefik.http.middlewares.n8n.headers.contentTypeNosniff=true
- traefik.http.middlewares.n8n.headers.forceSTSHeader=true
- traefik.http.middlewares.n8n.headers.SSLHost=\${DOMAIN\_NAME}
- traefik.http.middlewares.n8n.headers.STSIncludeSubdomains=true
- traefik.http.middlewares.n8n.headers.STSPreload=true
- traefik.http.routers.n8n.middlewares=n8n@docker

environment:

- N8N\_HOST=\${SUBDOMAIN}.\${DOMAIN\_NAME}
- N8N\_PORT=5678
- N8N\_PROTOCOL=https
- NODE\_ENV=production
- WEBHOOK\_URL=https://\${SUBDOMAIN}.\${DOMAIN\_NAME}/
- GENERIC\_TIMEZONE=\${GENERIC\_TIMEZONE}

volumes:

- n8n\_data:/home/node/.n8n

volumes:

traefik\_data:

external: true

n8n\_data:

external: true

If you are planning on reading/writing local files with n8n (for example, by using the [Read/Write Files from Disk node](#), you will need to configure a data directory for those files here. If you are running n8n as a root user, add this under `volumes` for the n8n service:

```
- /local-files:/files
```

If you are running n8n as a non-root user, add this under `volumes` for the n8n service:

```
- /home/<YOUR USERNAME>/n8n-local-files:/files
```

You will now be able to write files to the `/files` directory in n8n and they will appear on your server in either `/local-files` or `/home/<YOUR USERNAME>/n8n-local-files`, respectively.

## 6. Create `.env` file#

Create an `.env` file and change it accordingly.

```
# The top level domain to serve from
DOMAIN_NAME=example.com

# The subdomain to serve from
SUBDOMAIN=n8n

# DOMAIN_NAME and SUBDOMAIN combined decide where n8n will be reachable from
# above example would result in: https://n8n.example.com

# Optional timezone to set which gets used by Cron-Node by default
# If not set New York time will be used
GENERIC_TIMEZONE=Europe/Berlin

# The email address to use for the SSL certificate creation
SSL_EMAIL=user@example.com
```

## 7. Create data folder#

Create the Docker volume that's defined as `n8n_data`. n8n will save the database file from SQLite and the encryption key in this volume.

```
sudo docker volume create n8n_data
```

Create a volume for the Traefik data, This is defined as `traefik_data`.

```
sudo docker volume create traefik_data
```

## 8. Start Docker Compose#

n8n can now be started via:

```
sudo docker compose up -d
```

To stop the container:

```
sudo docker compose stop
```

## 9. Done#

n8n will now be reachable using the above defined subdomain + domain combination. The above example would result in: `https://n8n.example.com`

n8n will only be reachable using `https` and not using `http`.

Secure your n8n instance

Make sure that you set up authentication for your n8n instance.

## Next steps#

- Learn more about configuring and scaling n8n.
- Or explore using n8n: try the Quickstarts.

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Revision #3

Created 14 September 2024 18:56:17 by Administrador

Updated 15 September 2024 01:17:53 by Administrador