

installatie



context

dit document beschrijft de installatie van Netbox

vereisten

- PostgreSQL database
- Redis
- NetBox components
- Gunicorn or uWSGI
- HTTP server
- LDAP authentication (optioneel)

algemene opbouw



PostgreSQL database

- installeer [PostgreSQL](#)
- meld aan als gebruiker postgres:

```
sudo -u postgres psql
```

- maak de database aan:

```
CREATE DATABASE netbox;
```

controleer: \l

- maak de netbox gebruiker aan:

```
CREATE USER netbox WITH PASSWORD 'q2;kjp8bnz ng;iu';
```

controleer: \du

- maak de gebruiker netbox eigenaar van de database:

```
ALTER DATABASE netbox OWNER TO netbox;
```

controleer: \l

- verbind op db netbox als gebruiker netbox:

```
\connect netbox;
```

- ken rechten toe:

```
GRANT CREATE ON SCHEMA public TO netbox;
```

- controleer aanmelden als volgt:

```
psql --username netbox --password --host localhost netbox
```

Redis

zie: [:Redis](#)

NetBox components

- installeer systeempackages:

```
apt install -y git python3 python3-pip python3-venv python3-dev build-essential libxml2-dev libxslt1-dev libffi-dev libpq-dev libssl-dev zlib1g-dev
```

- controleer je Python (min: 3) versie:

```
python3 -V
```

- clone Netbox:

```
sudo mkdir -p /opt/netbox/  
cd /opt/netbox/
```

```
git clone https://github.com/netbox-community/netbox.git .
```

- maak de metbox **gebruiker** aan en geef toegang:

```
adduser --system --group netbox
chown --recursive netbox /opt/netbox/netbox/media/ (**deze bestaat niet in cloned repo!!!)
chown --recursive netbox /opt/netbox/netbox/reports/
chown --recursive netbox /opt/netbox/netbox/scripts/
```

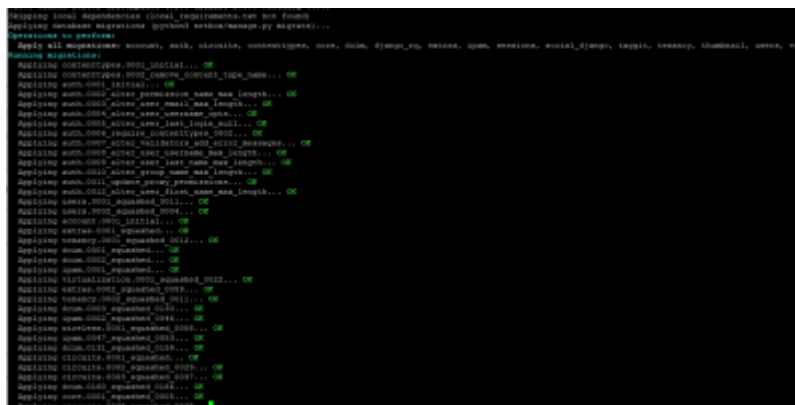
- maak een **secret key** (crypto, hashing) aan: `python3 /opt/netbox/netbox/generate_secret_key.py`
- maak de config file aan:

```
cd /opt/netbox/netbox/netbox/
cp configuration_example.py configuration.py
```

- open configuration.py en vul onderstaande waarden in:
 - ALLOWED_HOSTS = ['fqdn.netbox']
vb: netbox.legoland.net
of: ALLOWED_HOSTS = ['*'] en regel de toegang via Firewall.
 - postgresql info: user en wachtwoord
 - redis info: default is ok
 - SECRET_KEY =
- **bewaar** je wijzigingen en sluit af.
- voer het installatie (upgrade) script uit:

```
/opt/netbox/upgrade.sh
```

- dit doet volgende:
 - maakt een Python virtual environment
 - installeert alle nodige Python packages
 - voert database schema migrations uit
 - maakt de documentatie aan



- activeer de Python virtual environment:

```
source /opt/netbox/venv/bin/activate
```

- maak een **superuser** gebruiker aan:

```
cd /opt/netbox/netbox
```

```
python3 manage.py createsuperuser
```

- test de server:

```
python3 manage.py runserver 0.0.0.0:8000 --insecure
```



```
(root) root@ONVve-netbox:/opt/netbox/netbox# python3 manage.py runserver 0.0.0.0:8000 --insecure
Performing system checks...
System check identified no issues (0 silenced).
November 18, 2019 - 14:09:22
Django version 3.2.8, using settings 'netbox.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CONTROL-C.

WARNING: This is a development server. Do not use it in a production setting. Use a production WSGI or ASGI server instead.
For more information on production servers see: https://docs.djangoproject.com/en/3.2/howto/deployment/
```

Gunicorn

= Webserver Gateway Interface: functie waarbij web servers requests forward naar achterliggende web applicaties of frameworks geschreven in Python.

```
cp /opt/netbox/contrib/gunicorn.py /opt/netbox/gunicorn.py
```

Systemd

- ```
cp -v /opt/netbox/contrib/*.service /etc/systemd/system/
```

```
systemctl daemon-reload
```

- start netbox en netbox-rq

```
systemctl enable --now netbox netbox-rq
```

- controleer de status:

```
systemctl status netbox.service
```

## HTTP server

- install nginx:

```
apt install -y nginx
```

- kopieer de config:

```
cp /opt/netbox/contrib/nginx.conf /etc/nginx/sites-available/netbox
```

pas de severnaam aan, cfr ALLOWED\_HOSTS

- verwijder default bestanden:

```
rm /etc/nginx/sites-enabled/default
ln -s /etc/nginx/sites-available/netbox /etc/nginx/sites-enabled/netbox
```

- herstart nginx:

```
systemctl restart nginx
```

## LDAP authentication

### meer info

- [Netbox KB](#)
- [Netbox on Debian12](#)

[netbox](#)

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