# **Installation front One**

Virtualisation, One, front, install

Le front Open Nebula permet de gérer la virtualisation.

#### **Prérequis**

Nous utilisons une installation minimale de Debian 11 sur une machine dédiée.

## **Configuration du dépôt APT**

Nous installons les paquets dont nous avons besoin

apt install gpg wget apt-transport-https

Nous récupérons la clé publique du dépôt

wget -q -0- https://downloads.opennebula.io/repo/repo2.key | gpg --dearmor o /usr/share/keyrings/one-archive-keyring.gpg

Nous créons le fichier de dépôt

```
cat > /etc/apt/sources.list.d/opennebula.list <<EOF
##
# APT OpenNebula repository
##
deb [signed-by=/usr/share/keyrings/one-archive-keyring.gpg]
https://downloads.opennebula.io/repo/6.6/Debian/11 stable opennebula</pre>
```

Nous mettons à jour la liste des paquets

apt update

E0F

## Installation base de données

apt install mariadb-server

Nous nous connectons au client MariaDB

mysql

CREATE USER 'oneadmin' IDENTIFIED BY '<thepassword>';
GRANT ALL PRIVILEGES ON opennebula.\* TO 'oneadmin';

Nous sortons du client

QUIT

Nous configurons l'isolation des transactions

SET GLOBAL TRANSACTION ISOLATION LEVEL READ COMMITTED;

# Installation OpenNebula

Nous installons les paquets OpenNebula à proprement parler

```
apt install opennebula opennebula-sunstone opennebula-fireedge opennebula-
gate opennebula-flow opennebula-provision
```

# **Configuration OpenNebula**

Nous ajoutons la configuration de la base de données dans le fichier /etc/one/oned.conf

vi /etc/one/oned.conf

Nous remplaçons la configuration avec sqlite par

```
DB = [ BACKEND = "mysql",
    SERVER = "localhost",
    PORT = 0,
    USER = "oneadmin",
    PASSWD = "<thepassword>",
    DB_NAME = "opennebula",
    CONNECTIONS = 25,
    COMPARE_BINARY = "no" ]
```

Nous configurons FireEdge

vi /etc/one/sunstone-server.conf

```
:public_fireedge_endpoint: http://one.example.com:443
```

Nous configurons onegate server

vi /etc/one/onegate-server.conf

:host: 0.0.0.0

Nous configurons onegate endpoint

vi /etc/one/oned.conf

ONEGATE\_ENDPOINT = "http://one.example.com:5030"

#### Démarrage et activation des services

Nous démarrons les services

```
systemctl start opennebula opennebula-sunstone opennebula-fireedge
opennebula-gate opennebula-flow
```

Nous activons les services

systemctl enable opennebula opennebula-sunstone opennebula-fireedge
opennebula-gate opennebula-flow

#### **Proxy Nginx**

Nous installons Nginx

apt install nginx

Nous configurons le vHost

```
vi /etc/nginx/site-available/one.example.com.conf
```

```
##
# Nginx vHost
# Application: OpenNebula Sunstone
# Sources:
# https://github.com/storpool/addon-vnctoken/blob/master/vnctoken.conf.nginx
#
https://forum.opennebula.io/t/fireedge-public-endpoint-is-not-working/9611/5
##
# No squealing.
server_tokens off;
# OpenNebula Sunstone upstream
upstream sunstone {
    server 127.0.0.1:9869;
}
```

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```
# OpenNebula fireedge upstream
upstream fireedge {
  server 127.0.0.1:2616;
}
# OpenNebula websocketproxy upstream
upstream websocketproxy {
  server 127.0.0.1:29876;
}
# HTTP virtual host, redirect to HTTPS
server {
    listen 80;
    server name one.example.com;
    return 301 https://one.example.com;
}
#
# Example Sunstone configuration (/etc/one/sunstone-server.conf)
#
#:vnc_proxy_port: 127.0.0.1:29876
#:vnc_proxy_support_wss: only
#:vnc proxy cert: /etc/letsencrypt/live/frontend/fullchain.pem
#:vnc_proxy_key: /etc/letsencrypt/live/frontend/privkey.pem
#:vnc_proxy_ipv6: false
#:vnc_request_password: false
#:vnc client port: 443
# HTTPS virtual host, proxy to Sunstone
server {
    listen 443 ssl;
    server name one.example.com;
    ssl certificate
                        /etc/ssl/certs/one.example.com.crt;
    ssl certificate key /etc/ssl/private/one.example.com.key;
    location / {
        proxy_pass http://sunstone;
        proxy redirect
                           off;
        log_not_found
                           off;
                           X-Real-IP $remote addr;
        proxy set header
        proxy_set_header
                          Host $http host;
        proxy_set_header
                           X-Forwarded-FOR $proxy_add_x_forwarded_for;
    }
    location /websockify {
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy set header X-Real-IP $remote addr;
        proxy set header X-Forwarded-Host $host;
        proxy_set_header X-Forwarded-Server $host;
        proxy set header x-forwarded-proto $scheme;
        proxy_set_header Host $host;
```

```
proxy_buffering off;
        proxy_http_version 1.1;
        proxy read timeout 86400;
        proxy_pass https://websocketproxy;
        proxy set header Upgrade $http upgrade;
        proxy_set_header Connection "upgrade";
    }
}
# HTTPS virtual host, proxy to FireEdge
server {
    listen 443 ssl;
    server name fireedge.example.com;
    ssl certificate
                      /etc/ssl/certs/fireedge.example.com.crt;
    ssl certificate key /etc/ssl/private/fireedge.example.com.key;
    location / {
        proxy_pass http://fireedge;
                           off;
        proxy redirect
        log not found
                           off;
                           X-Real-IP $remote_addr;
        proxy set header
        proxy_set_header
                           Host $http host;
        proxy_set_header
                           X-Forwarded-FOR $proxy_add_x_forwarded_for;
    }
}
```

```
cd /etc/nginx/site-enabled
ln -s /etc/nginx/site-available/one.example.com.conf
```

Nous testons la configuration et redémarrons

nginx -t
systemctl reload nginx.service

### Liens

- documentation Open Nebula
- configuration MariaDB
- single frontend installation

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