

# 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 -O- 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
EOF
```

Nous mettons à jour la liste des paquets

```
apt update
```

## 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;  
}
```

```
# 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;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header Host $http_host;
        proxy_set_header X-Forwarded-FOR $proxy_add_x_forwarded_for;
    }
    location /websocketify {
        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;
        proxy_redirect    off;
        log_not_found      off;
        proxy_set_header   X-Real-IP $remote_addr;
        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](#)

From:  
<https://wiki.grohub.org/> - **Grohub wiki**

Permanent link:  
<https://wiki.grohub.org/infrastructure/virtualisation/opennebula/frontend-install?rev=1684413418>

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