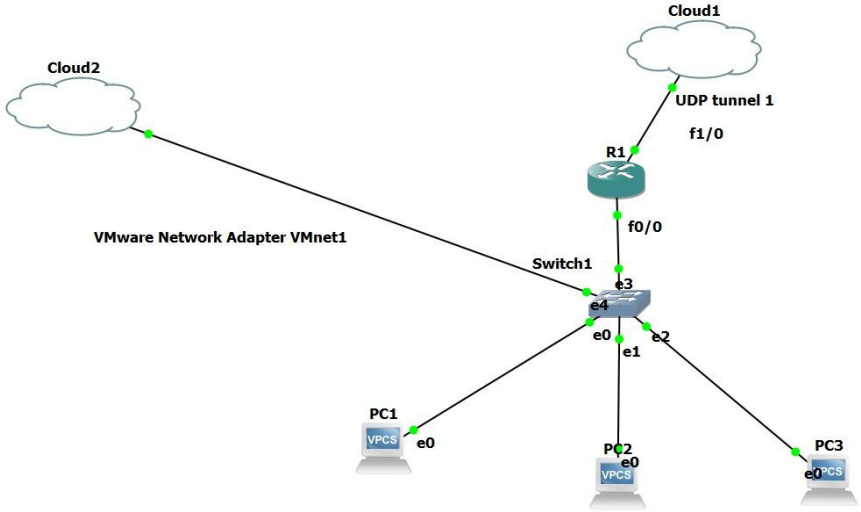
Département Monitoring

- **Topologie :**

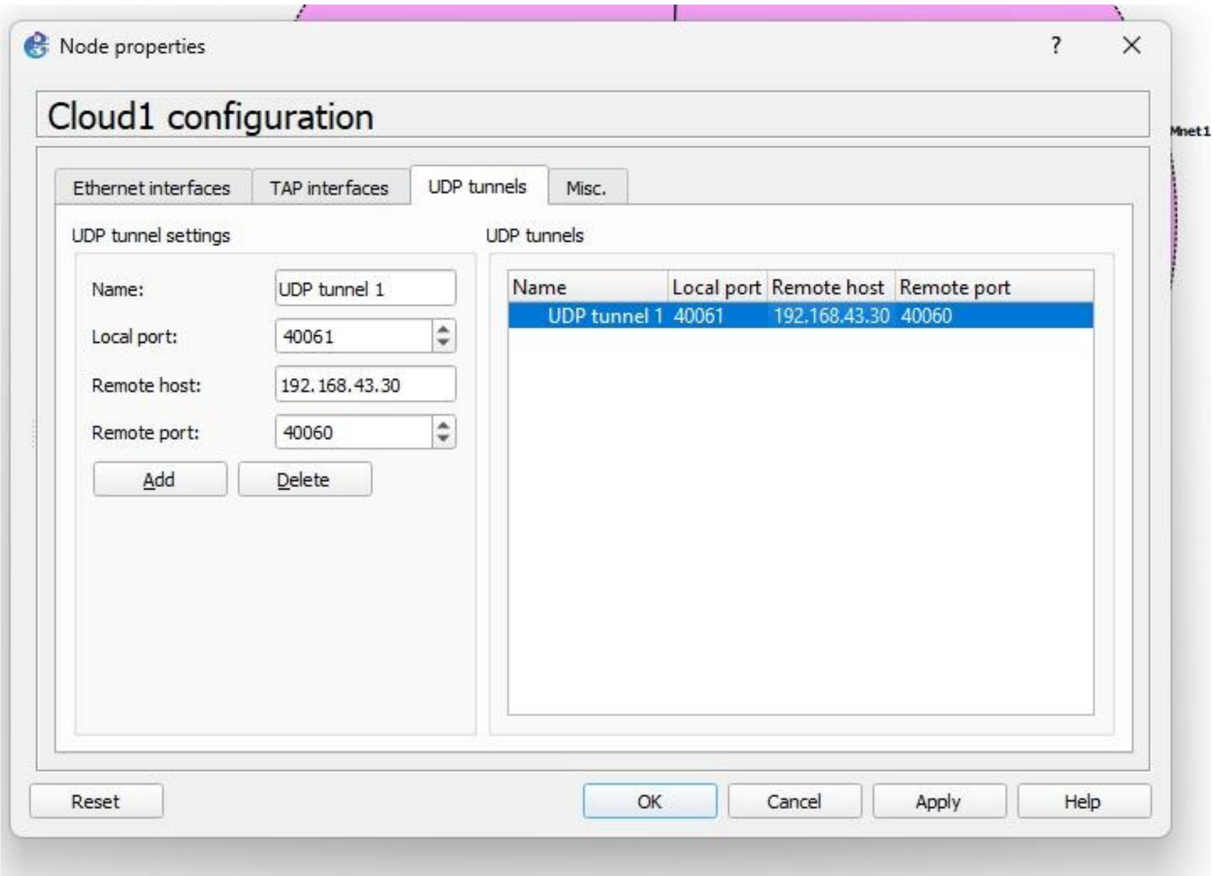


- **Configuration Routeur RZ-2 - DHCP, IPsec et Services de Base :**

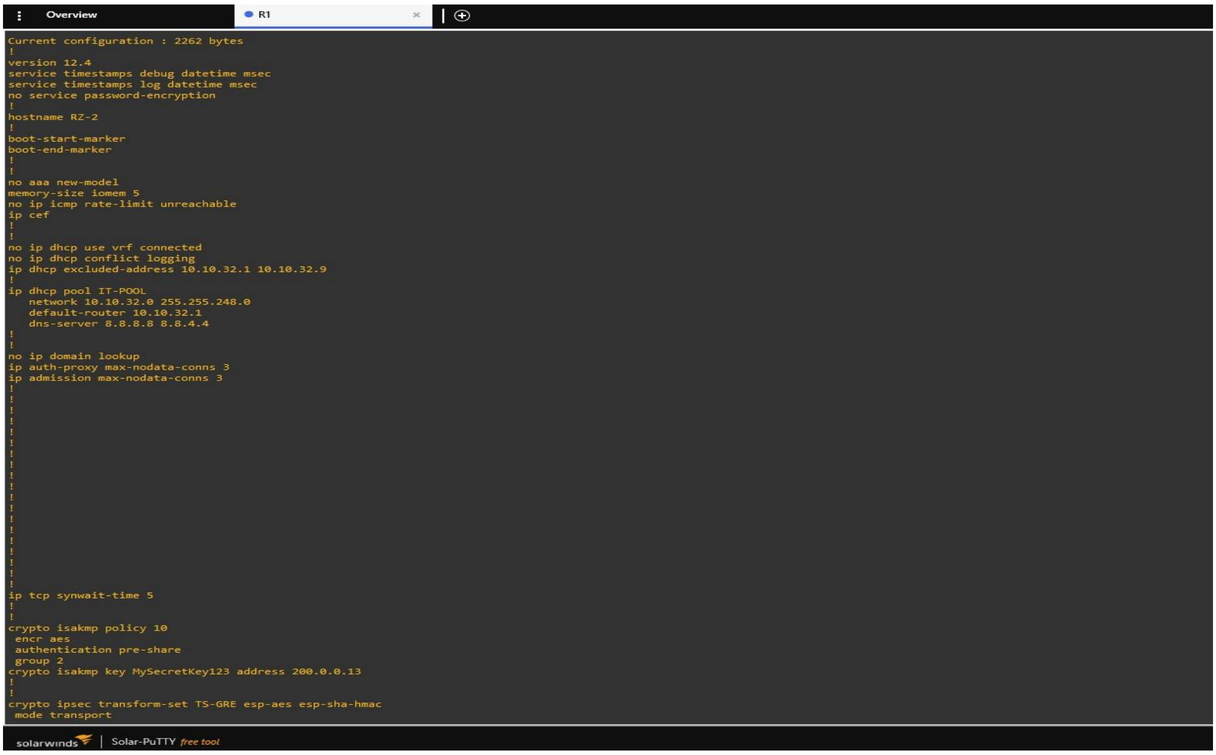
Overview | R1

```
crypto ipsec transform-set TS-GRE esp-aes esp-sha-hmac
 mode transport
!
!
!
interface Tunnel0
 no ip address
!
interface Tunnel1
 ip address 172.16.2.2 255.255.255.252
 tunnel source FastEthernet0/1
 tunnel destination 200.0.0.13
!
interface FastEthernet0/0
 ip address 10.10.32.1 255.255.248.0
 ip helper-address 10.10.32.1
 ip nat inside
 ip virtual-reassembly
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 200.0.0.14 255.255.255.252
 ip nat outside
 ip virtual-reassembly
 duplex auto
 speed auto
!
router ospf 1
 router-id 22.22.22.22
 log-adjacency-changes
 network 10.10.32.0 0.0.7.255 area 0
 network 172.16.2.0 0.0.0.3 area 0
 network 192.168.100.0 0.0.0.255 area 0
 network 200.200.200.0 0.0.0.3 area 0
!
ip forward-protocol nd
ip route 201.201.201.0 255.255.255.0 Tunnel1
!
!
no ip http server
no ip http secure-server
ip nat inside source list 10 interface FastEthernet0/1 overload
ip nat inside source list 100 interface FastEthernet0/1 overload
!
ip access-list extended ACL-VPN-BACKBONE
 permit gre host 200.0.0.14 host 200.0.0.13
!
access-list 10 permit 10.10.32.0 0.0.7.255
access-list 100 permit ip 10.10.32.0 0.0.7.255 any
access-list 100 deny   ip any 172.16.0.0 0.0.0.3
access-list 100 deny   ip any 201.201.201.0 0.0.0.3
no cdp log mismatch duplex
!
!
!
control-plane
!
!
!
!
!
!
```

- **Configuration Tunnel UDP - Interface Cloud1 :**

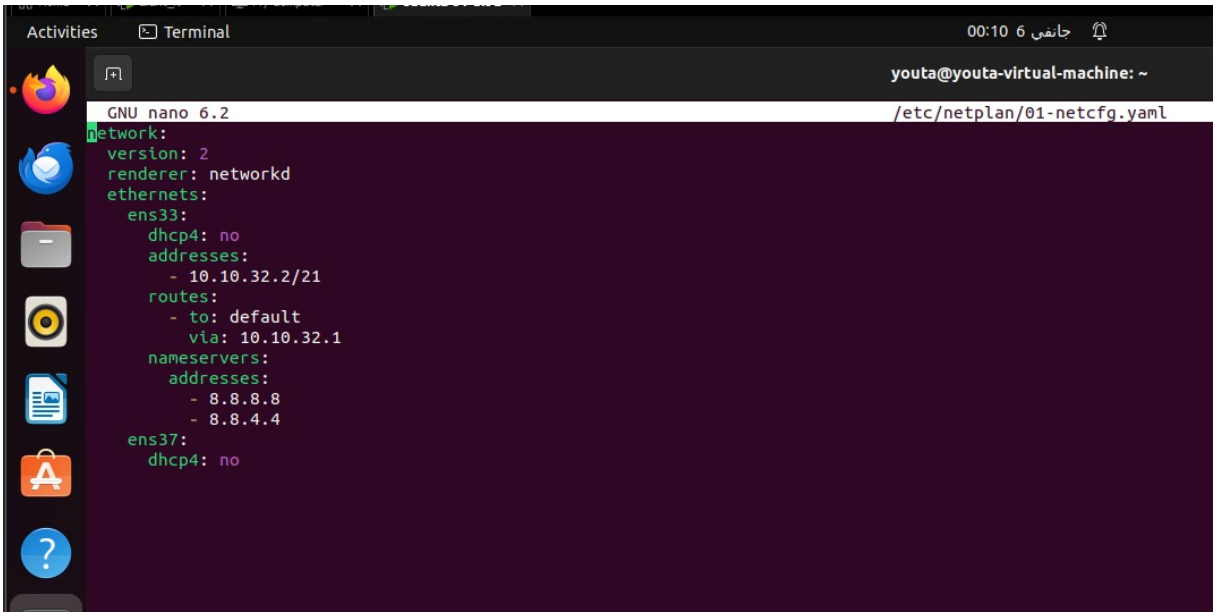


- **Configuration Interfaces, OSPF, NAT et Routage**

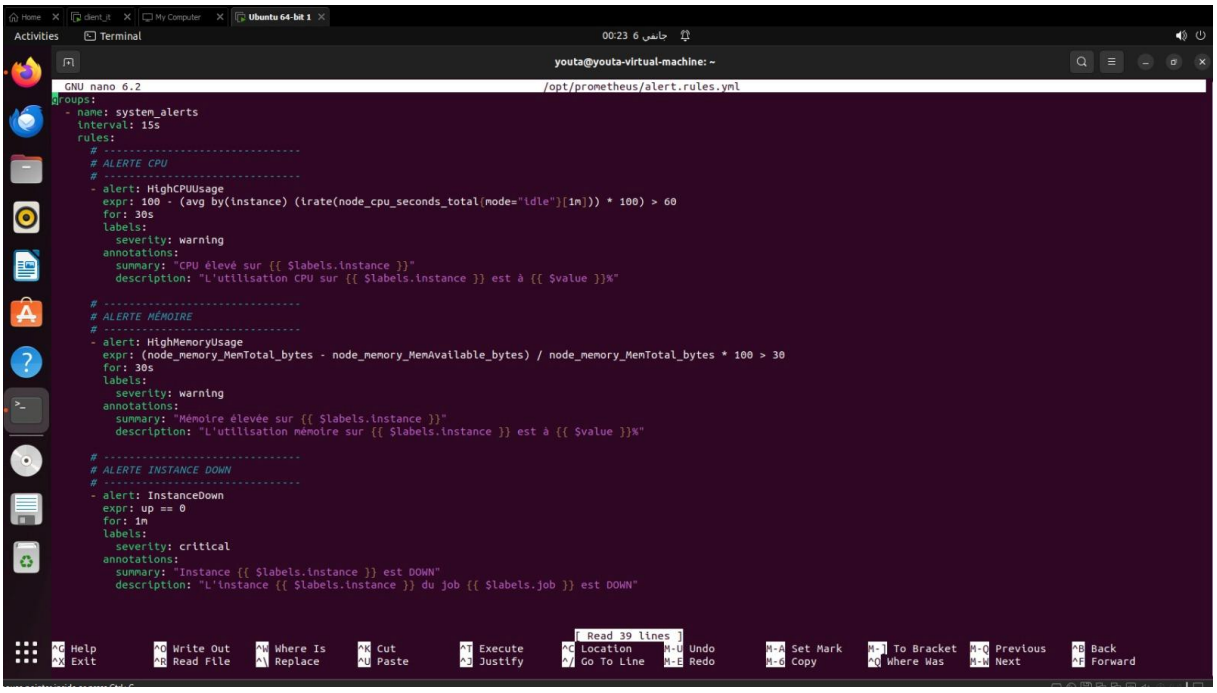


```
Current configuration : 2262 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname RZ-2
!
boot-start-marker
boot-end-marker
!
!
no aaa new-model
memory-size iomem 5
no ip icmp rate-limit unreachable
ip cef
!
!
no ip dhcp use vrf connected
no ip dhcp conflict logging
ip dhcp excluded-address 10.10.32.1 10.10.32.9
!
ip dhcp pool IT-POOL
   network 10.10.32.0 255.255.248.0
   default-router 10.10.32.1
   dns-server 8.8.8.8 8.8.4.4
!
!
no ip domain lookup
ip auth-proxy max-nodata-conns 3
ip admission max-nodata-conns 3
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
ip tcp synwait-time 5
!
!
crypto isakmp policy 10
 encr aes
 authentication pre-share
 group 2
crypto isakmp key MySecretKey123 address 200.0.0.13
!
!
crypto ipsec transform-set TS-GRE esp-aes esp-sha-hmac
 mode transport
```

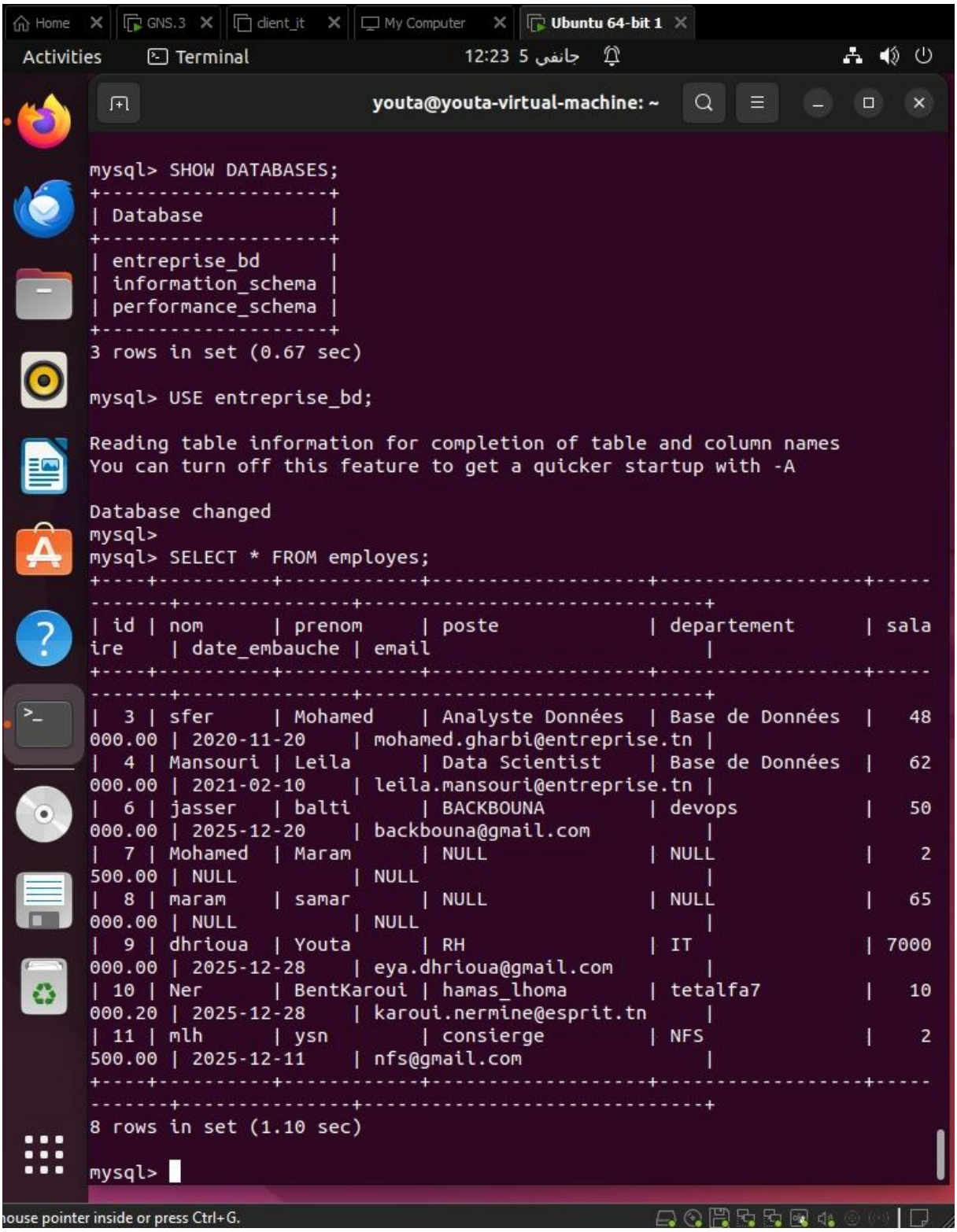
- **Configuration Réseau Netplan**



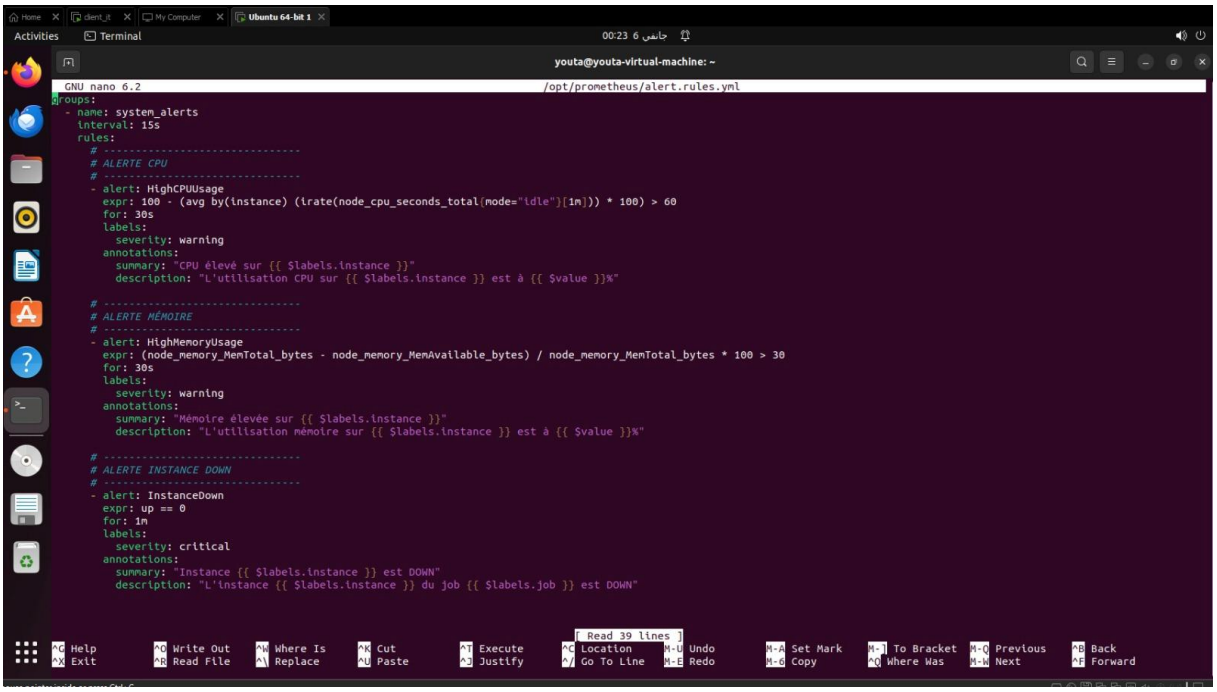
- **Vérification Configuration Réseau (Interfaces et Routes)**



- **Accès Base de Données MySQL**



- **Configuration des Alertes de Supervision**



commands.txt × grafana-server.service × node_expo

```
[Unit]
Description=Prometheus
Wants=network-online.target
After=network-online.target

[Service]
User=nobody
Group=nogroup
Type=simple
ExecStart=/opt/prometheus/prometheus \
  --config.file=/opt/prometheus/prometheus.yml \
  --storage.tsdb.path=/opt/prometheus/data

[Install]
WantedBy=multi-user.target
```

```bash
#!/bin/bash
# ==============================
# NFS CLIENT SETUP SCRIPT
# ==============================

SERVER_IP="10.10.42.20"
NFS_EXPORT="/nfs_share"
MOUNT_POINT="/mnt/nfs"

GROUP="nfsgrp"
USER="server"
UID_NUM="1001"
IP_CLIENT="10.10.32.2"
INTERFACE="ens33"
GATEWAY="10.10.42.20"
NFS_SERVER="10.10.42.20"

echo "Creation groupe nfsgrp"
getent group $GROUP || groupadd $GROUP

echo "Creation usr"
id $USER &>/dev/null || useradd -u $UID_NUM -m -s /bin/bash $USER

echo "ajout usr au nfsgrp"
usermod -aG $GROUP $USER

echo "pt partage"
mkdir -p $MOUNT_POINT

echo "ajout partage permanent"
grep -q "$SERVER_IP:$NFS_EXPORT" /etc/fstab || \
echo "$SERVER_IP:$NFS_EXPORT  $MOUNT_POINT  nfs  defaults  0  0" >> /etc/fstab

echo "montage du partage nfs"
mount -a

echo "veriiif montage"
mount | grep nfs

echo "Configuration CL NFS terminée avec succès"
```

```yaml
# my global config
global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds. Default is every 1 minute.
  evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).

# Alertmanager configuration
alerting:
  alertmanagers:
    - static_configs:
        - targets:
          # - alertmanager:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  # - "first_rules.yml"
  # - "second_rules.yml"

# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
  # The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.
  - job_name: "prometheus"

    # metrics_path defaults to '/metrics'
    # scheme defaults to 'http'.

    static_configs:
      - targets: ["localhost:9090"]
      - labels:
          app: "prometheus"
```

yml × nfs.sh × network.txt × install_monitoring.sh × commands.txt

```ini
[Unit]
Description=Grafana Server
After=network.target

[Service]
Type=simple
User=grafana
Group=grafana
ExecStart=/usr/sbin/grafana-server --homepath=/usr/share/grafana

[Install]
WantedBy=multi-user.target
```

install_monitoring.sh × commands.txt × grafana-server.service × node_exporter.service ×

```
[Unit]
Description=Node Exporter
Wants=network-online.target
After=network-online.target

[Service]
User=prometheus
Group=prometheus
Type=simple
ExecStart=/usr/local/bin/node_exporter

[Install]
WantedBy=multi-user.target
```