

Monitoring

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Node exporter

Installation of node exporter

Download the package from the [github repository](#)

```
cd /tmp
wget <link to the last release>
tar xvfz node_exporter-*.linux-amd64.tar.gz
sudo mv node_exporter-*.linux-amd64/node_exporter /usr/local/bin/
chmod +x /usr/local/bin/node_exporter
./node_exporter
```

Then try to get the metrics with a curl command: `curl http://localhost:9100/metrics`

Create a systemctl task

First create a nonlogin user to run the task

```
sudo useradd -rs /bin/false node_exporter
```

Create a systemctl file

```
sudo vim /etc/systemd/system/node_exporter.service
```

Past the following in it

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

[Service]
User=node_exporter
Group=node_exporter
```

```
Type=simple
```

```
ExecStart=/usr/local/bin/node_exporter
```

```
[Install]
```

```
WantedBy=multi-user.target
```

Then restart the systemctl daemon, start the task and enable it at system start up

```
sudo systemctl daemon-reload
```

```
sudo systemctl start node_exporter
```

```
sudo systemctl enable node_exporter
```

```
sudo systemctl status node_exporter
```

Prometheus

Install Prometheus

First download the source from the [web site](#)

```
wget <link of the source>
tar xvf prometheus-*.*-amd64.tar.gz
mv prometheus-*.*-amd64 prometheus-files
```

Create an user to run **Prometheus** and give it the ownership

```
sudo useradd --no-create-home --shell /bin/false prometheus
sudo mkdir /etc/prometheus
sudo mkdir /var/lib/prometheus
sudo chown prometheus:prometheus /etc/prometheus
sudo chown prometheus:prometheus /var/lib/prometheus
```

Copy / past the source in the new folder

```
sudo cp prometheus-files/prometheus /usr/local/bin/
sudo cp prometheus-files/promtool /usr/local/bin/
sudo chown prometheus:prometheus /usr/local/bin/prometheus
sudo chown prometheus:prometheus /usr/local/bin/promtool
sudo cp -r prometheus-files/conssoles /etc/prometheus
sudo cp -r prometheus-files/console_libraries /etc/prometheus
sudo chown -R prometheus:prometheus /etc/prometheus/conssoles
sudo chown -R prometheus:prometheus /etc/prometheus/console_libraries
```

Configuration of Prometheus targets

Create a `prometheus.yml` to setup the config

```
sudo vim /etc/prometheus/prometheus.yml
```

Past it the following and change the target **ip:port**

```
global:
  scrape_interval: 10s

scrape_configs:
  - job_name: 'prometheus'
    scrape_interval: 5s
    static_configs:
      - targets: ['localhost:9090']
```

Then give the ownership to the user previously created

```
sudo chown prometheus:prometheus /etc/prometheus/prometheus.yml
```

You can now access to the GUI in your browser

```
http://<prometheus-ip>:9090/graph
```

Create a systemctl task

Create the systemctl file

```
sudo vim /etc/systemd/system/prometheus.service
```

Past it the following

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

[Service]
User=prometheus
Group=prometheus
```

Type=simple

```
ExecStart=/usr/local/bin/prometheus \  
  --config.file /etc/prometheus/prometheus.yml \  
  --storage.tsdb.path /var/lib/prometheus/ \  
  --web.console.templates=/etc/prometheus/consoles \  
  --web.console.libraries=/etc/prometheus/console_libraries
```

[Install]

WantedBy=multi-user.target

Restart the systemctl daemon, start the task and enable it at system start up

```
sudo systemctl daemon-reload  
sudo systemctl start prometheus  
sudo systemctl enable prometheus  
sudo systemctl status prometheus
```

Grafana

InfluxDB