

Install node exporter on another machine than the server

- Add that machine target to server configuration
- Share screenshot from status->targets to show the available nodes
- Share configuration of node exporter & prometheus server

For installing we open our **Centos7** VM and,

wget

https://github.com/prometheus/node_exporter/releases/download/v0.16.0-rc.1/node_exporter-0.16.0-rc.1.linux-amd64.tar.gz

tar -xzvf node_exporter-0.16.0-rc.1.linux-amd64.tar.gz

mv node_exporter-0.16.0-rc.1.linux-amd64 node_exporter

cd /etc/systemd/system/

vim node_exporter.service

```
100%[=====>] 5,617,869  2.03MB/s  in 2.6s
2021-12-04 09:52:35 (2.03 MB/s) - 'node_exporter-0.16.0-rc.1.linux-amd64.tar.gz'
  saved [5617869/5617869]

[root@server2 ~]# tar -xzvf node_exporter-0.16.0-rc.1.linux-amd64.tar.gz
node_exporter-0.16.0-rc.1.linux-amd64/
node_exporter-0.16.0-rc.1.linux-amd64/LICENSE
node_exporter-0.16.0-rc.1.linux-amd64/node_exporter
node_exporter-0.16.0-rc.1.linux-amd64/NOTICE
[root@server2 ~]# mv node_exporter-0.16.0-rc.1.linux-amd64 node_exporter
[root@server2 ~]# cd /etc/systemd/system/
[root@server2 system]# vim node_exporter.service
```

Include the below in node_exporter.service file:

[Unit]

Description=Node Exporter

Wants=network-online.target

After=network-online.target

[Service]

ExecStart=~/.node_exporter/node_exporter

[Install]

WantedBy=default.target

```
[Unit]
Description=Node Exporter
Wants=network-online.target
After=network-online.target
[Service]
ExecStart=/root/node_exporter/node_exporter
[Install]
WantedBy=default.target
```

systemctl daemon-reload

systemctl start node_exporter

systemctl enable node_exporter

Systemctl status node_exporter

netstat -plntu

```

[root@server2 system]# systemctl daemon-reload
[root@server2 system]# systemctl restart node_exporter
[root@server2 system]# systemctl status node_exporter
● node_exporter.service - Node Exporter
   Loaded: loaded (/etc/systemd/system/node_exporter.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2021-12-04 10:21:45 EST; 8s ago
   Main PID: 6691 (node_exporter)
   CGroup: /system.slice/node_exporter.service
           └─6691 /root/node_exporter/node_exporter

Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - st...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - te...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - ti...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - ti...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - un...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - vm...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - wi...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - xf...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg=" - zf...97"
Dec 04 10:21:45 server2 node_exporter[6691]: time="2021-12-04T10:21:45-05:00" level=info msg="Liste...11"
Hint: Some lines were ellipsized, use -l to show in full.
[root@server2 system]# netstat -plntu
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      1017/sshd
tcp        0      0 127.0.0.1:25            0.0.0.0:*               LISTEN      1264/master
tcp6       0      0 :::22                   :::*                     LISTEN      1017/sshd
tcp6       0      0 :::1:25                  :::*                     LISTEN      1264/master
tcp6       0      0 :::9100                  :::*                     LISTEN      6691/node_exporter
udp        0      0 127.0.0.1:323           0.0.0.0:*               648/chromvd

```

We can clearly see that the node_exporter is running in **port 9100**

Now, Adding node exporter target to prometheus server we do,
sudo vi /etc/prometheus/prometheus.yml

Include the below :

global:

scrape_interval: 15s

rule_files:

- 'prometheus.rules.yml'

scrape_configs:

- job_name: 'prometheus'

scrape_interval: 5s

static_configs:

- targets: [192.168.1.104:9090]

basic_auth:

username: admin

password: centos

```
- job_name: 'node_exporter'
  scrape_interval: 5s
  static_configs:
    - targets: [192.168.1.168:9100']
```

```
global:
  scrape_interval: 15s

rule_files:
  - 'prometheus.rules.yml'

scrape_configs:

  - job_name: 'prometheus'
    scrape_interval: 5s
    static_configs:
      - targets: ['192.168.1.104:9090']
    basic_auth:
      username: admin
      password: centos

  - job_name: 'node_exporter'
    scrape_interval: 5s
    static_configs:
      - targets: ['192.168.1.168:9100']
```

Restarting the service,

```
lostins@lostins:/etc/prometheus$ sudo systemctl restart prometheus.service
lostins@lostins:/etc/prometheus$ sudo systemctl status prometheus.service
● prometheus.service - Prometheus service file
   Loaded: loaded (/etc/systemd/system/prometheus.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2021-12-07 13:53:52 +0545; 9s ago
     Main PID: 53050 (prometheus)
        Tasks: 9 (limit: 9364)
      Memory: 32.9M
     CGroup: /system.slice/prometheus.service
            └─53050 /usr/local/bin/prometheus --config.file /etc/prometheus/prometheus.yml --storage.ts

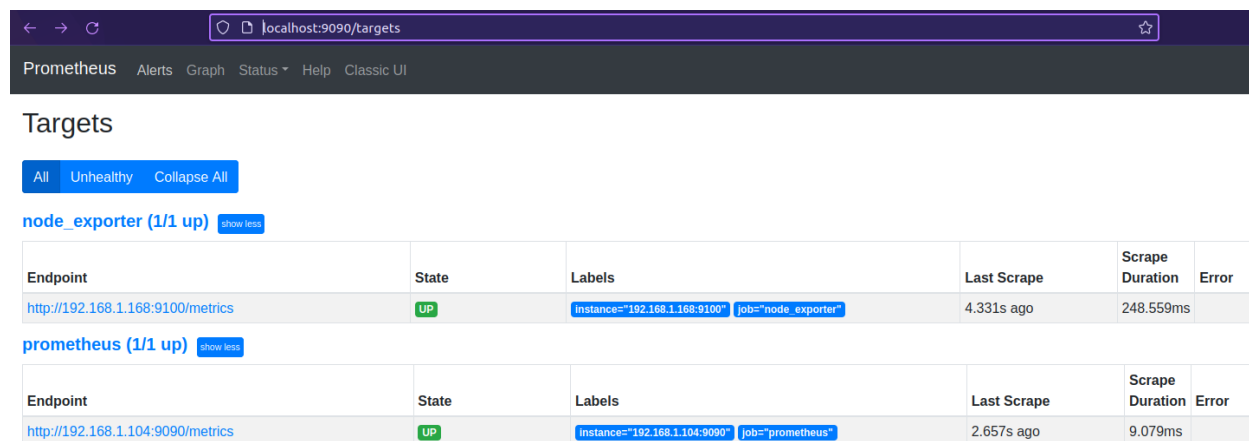
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.901Z caller=head.go:597 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.901Z caller=head.go:597 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.902Z caller=head.go:597 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.902Z caller=head.go:603 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.902Z caller=head.go:603 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.904Z caller=main.go:945 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.904Z caller=main.go:948 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.904Z caller=main.go:1129 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.905Z caller=main.go:1166 level=>
दि सम्बर 07 13:53:52 lostins prometheus[53050]: ts=2021-12-07T08:08:52.905Z caller=main.go:897 level=>
```

Now we allow the 9100 port to the firewall rules in the VM as,

firewall-cmd --add-port=9100/tcp
firewall-cmd --reload

```
[root@server2 system]# firewall-cmd --add-port=9100/tcp
success
[root@server2 system]# firewall-cmd --reload
success
```

Now we check the browser in, <http://localhost:9090/targets>



Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
node_exporter (1/1 up) show less					
http://192.168.1.168:9100/metrics	UP	instance="192.168.1.168:9100" job="node_exporter"	4.331s ago	248.559ms	
prometheus (1/1 up) show less					
http://192.168.1.104:9090/metrics	UP	instance="192.168.1.104:9090" job="prometheus"	2.657s ago	9.079ms	