2.

Install node exporter on another machine than the server.

Add that machine target to server configuration.

Answer:

I tried to use a node-exporter in another VM but due to some issue could not run both the VMs at the same time due to which state was seen down in the prometheus dashboard.

So, I used windows exporter also which is given below;

For node_exporter:

First, we install **node-exporter** as follows;

- curl -LO

https://github.com/prometheus/node_exporter/releases/download/v1.3.0/node_exporter-1.3.0.linux-amd64.tar.gz

```
aashish@vm2: ~/node_exporter-1.3.0.linux-amd64
 Ħ
                                                         Q
aashish@vm2:~$ curl -LO https://github.com/prometheus/node_exporter/releases/do
wnload/v1.3.0/node_exporter-1.3.0.linux-amd64.tar.gz
 % Total
            % Received % Xferd Average Speed
                                                        Time
                                                Time
                                                                 Time
                                                                      Current
                                Dload Upload
                                                Total
                                                        Spent
                                                                 Left Speed
100
     673
          100
                673
                       0
                             0
                                  950
                                           0 --:--:--
100 8818k 100 8818k
                       0
                             0
                                1452k
                                           0 0:00:06 0:00:06 --:-- 1789k
```

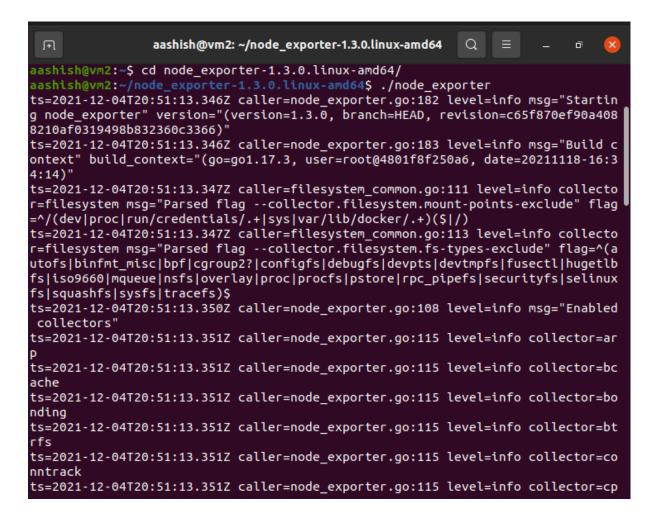
Once downloaded, we unzip the downloaded file as follows;

tar xvfz node_exporter-1.3.0.linux.amd64.tar.gz

```
aashish@vm2:~$ tar xvfz node_exporter-1.3.0.linux-amd64.tar.gz
node_exporter-1.3.0.linux-amd64/
node_exporter-1.3.0.linux-amd64/LICENSE
node_exporter-1.3.0.linux-amd64/NOTICE
node_exporter-1.3.0.linux-amd64/node_exporter
```

Next, we run the **node_exporter** being inside the **node_exporter-1.3.0.linux-amd64** directory as follows;

- cd node_exporter-1.3.0.linux-amd64/
- ./node exporter



Next, we verify it via web browser using the ip(VMs IP) as follows;

- http://192.168.1.20:9100



Node Exporter

Metrics

We click on the metrics to see the metrics as below;

```
Node Exporter
                              192.168.1.20:9100/metrics ×
                    O & 192.168.1.20:9100/metrics
                                                                        🗉 ☆
                                                                                     \odot
 # HELP go gc duration seconds A summary of the pause duration of garbage collection
 # TYPE go_gc_duration_seconds summary
 go_gc_duration_seconds{quantile="0"} 0
 go gc duration seconds{quantile="0.25"} 0
 go gc duration seconds{quantile="0.5"} 0
 go_gc_duration_seconds{quantile="0.75"} 0
 go_gc_duration_seconds{quantile="1"} 0
 go gc duration seconds sum 0
 go gc duration seconds count 0
 # HELP go goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go goroutines 7
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.17.3"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 1.408128e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go memstats alloc bytes total counter
 go_memstats_alloc_bytes_total 1.408128e+06
 # HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash
 table.
 # TYPE go memstats buck hash sys bytes gauge
 go_memstats_buck_hash_sys_bytes 1.445943e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
```

Next, we edit **prometheus.yml** as follows;

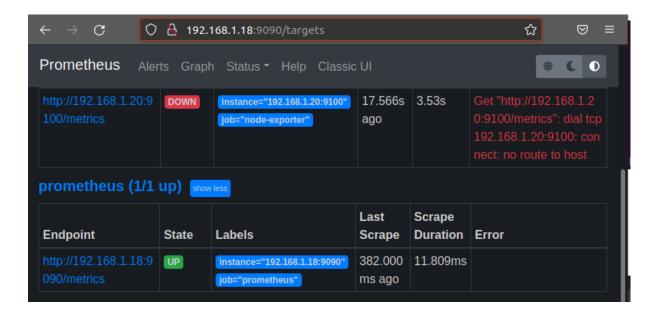
```
aashish@Zagent:~ × aashish@Zagent:~ × ▼

GNU nano 4.8 /etc/prometheus/prometheus.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>
- job_name: "prometheus"
    scrape_interval: 5s
# metrics_path defaults to '/metrics'
# scheme defaults to 'http'
    static_configs:
        - targets: ["192.168.1.18:9090"]

- job_name: "node-exporter"
    static_configs:
        - targets: ["192.168.1.20:9100"]
```

We click on the **status -> targets**, to check the targets as follows;



Could not run both VMs at a time so, it is shown down on the targets. So, I have used a Windows exporter.

For windows_exporter:

To download the windows_exporter I used the following repository;

https://github.com/prometheus-community/windows exporter/releases
 And downloaded the exporter msi file as follows;

- windows_exporter-0.16.0-amd64.msi

Next, we check the IP address of the host machine as follows;

```
Wireless LAN adapter Wi-Fi:

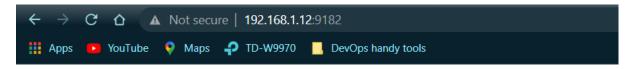
Connection-specific DNS Suffix . : domain.name
IPv4 Address. . . . . . . . : 192.168.1.12
Subnet Mask . . . . . . . : 255.255.255.0
Default Gateway . . . . . . : 192.168.1.1

C:\Users\DELL>
```

Next, we edit prometheus.yml as follows;

```
aashish@Zagent: ~
                                                   aashish@Zagent: ~
 GNU nano 4.8
                            /etc/prometheus/prometheus.yml
scrape_configs:
 # The job name is added as a label `job=<job_name>` to any timeseries scraped>
  - job_name: "prometheus"
   scrape_interval: 5s
   static_configs:
       - targets: ["192.168.1.18:9090"]
  - job name: "node-exporter"
    static_configs:
       targets: ["192.168.1.20:9100"]
  - job_name: "windows-exporter"
    static_configs:
       - targets: ["192.168.1.12:9182"]
                                        ^K Cut Text ^J Justify
  Get Help
             ^O Write Out ^W Where Is
                                                                    ^C Cur Pos
                Read File ^\ Replace
                                           Paste Text<mark>^T</mark> To Spell
                                                                      Go To Line
  Exit
```

Then, we check the windows_exporter via web browser as follows;



windows_exporter

Metrics

(version=0.16.0, branch=master, revision=f316d81d50738eb0410b0748c5dcdc6874afe95a)

To check wondows exporter metrics, we click on the metric as follows;

We verify the targets on prometheus dashboard are up and running as follows;

