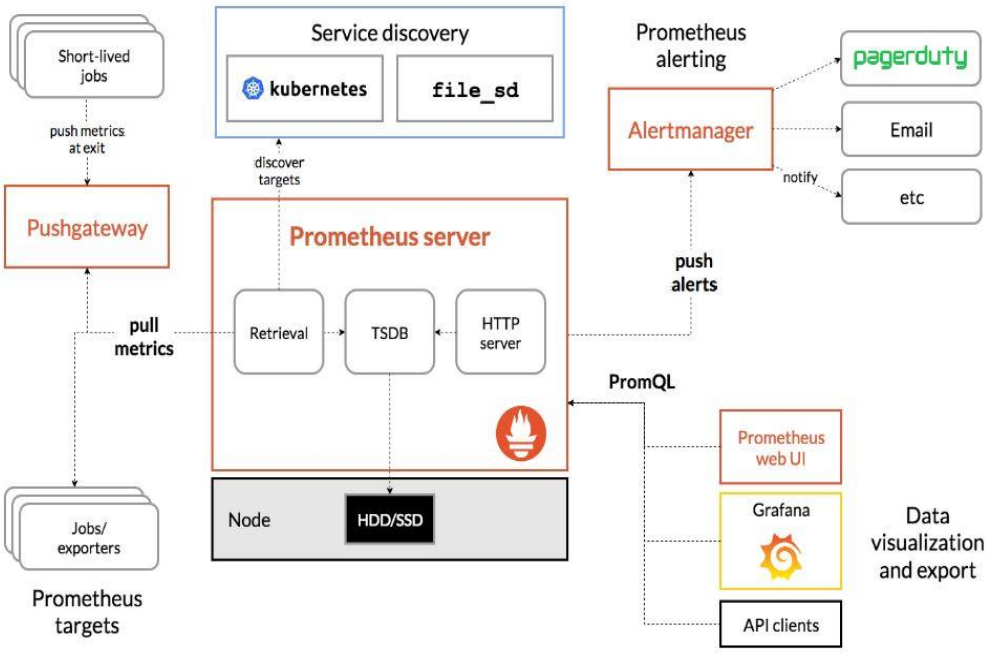
Monitoring Windows OS with Prometheus

This diagram illustrates the architecture of Prometheus and some of its ecosystem components:



To monitor a Windows computer with Prometheus, you must have Prometheus installed on your computer. You also need to have the Prometheus Windows Exporter installed on your Windows computer.

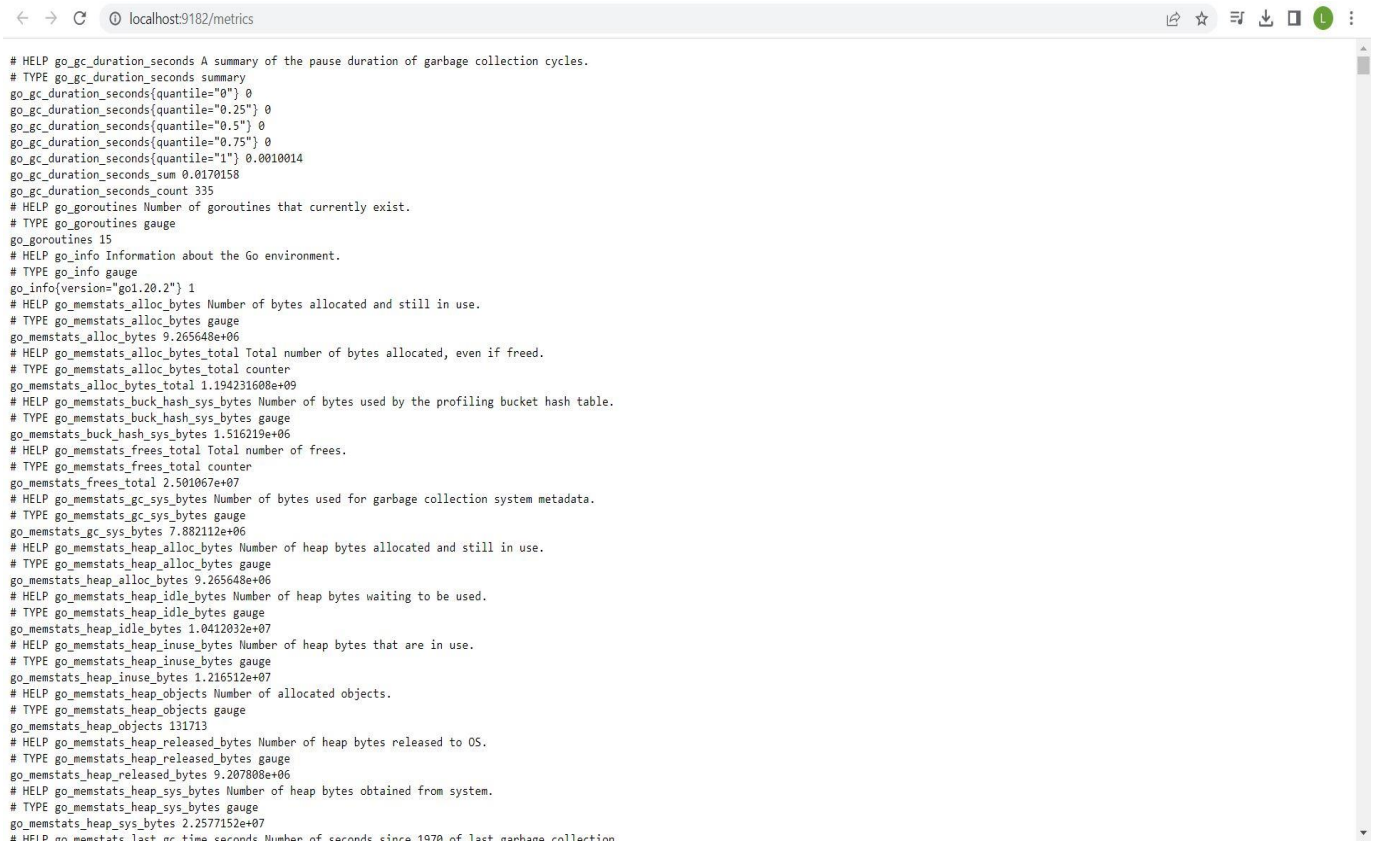
To download Prometheus Windows Exporter, navigate to the https://github.com/prometheus-community/windows_exporter from your web browser.

You can downloaded Prometheus for the official site https://prometheus.io/download/

After you download Prometheus and windows exporter , you need to run the windows exporter.

Windows Exporter should be running on port 9182 of your Windows computer

To verify whether Windows Exporter is working, open a web browser and visit http://localhost:9182/metrics. If you see the following output, then Windows Exporter is working.



Once the Windows Exporter is installed on your Windows computer, you should be able to add it to Prometheus. To add your Windows computer to Prometheus, you need to know the IP address of your Windows computer.

To find the IP address of your Windows computer, you can run the following command on the Command Prompt app of your Windows computer.

```
C:\Users\Lyubomir Vasilev\Downloads>ipconfig
```

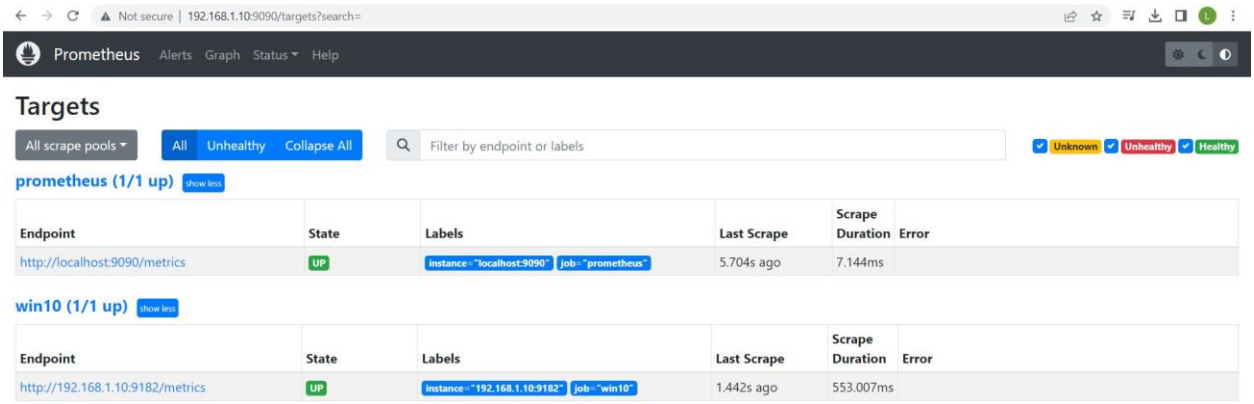
As you can see, the IP address of my Windows computer is 192.168.1.10. It will be different for you. So, make sure to replace it with yours from now on.

```
Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . :
   IPv6 Address. . . . . . . . . . . : 2a01:5a8:31d:3b1:fee7:7706:e20b:b2ea
   Temporary IPv6 Address. . . . . . : 2a01:5a8:31d:3b1:dcac:1a5d:688b:b3cb
   Link-local IPv6 Address . . . . . : fe80::524:7897:58b5:f8e%18
   IPv4 Address. . . . . . . . . . . : 192.168.1.10
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : fe80::1%18
                                       192.168.1.1

Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::7066:993a:2fb7:2b2f%14
   IPv4 Address. . . . . . . . . . . : 192.168.56.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :
```

Now we need to open the Prometheus configuration file and add the job, also specify the target IP address of our Windows computer:

```yaml
global:
  scrape_interval: 15s
scrape_configs:
  - job_name: 'prometheus'
    static_configs:
      - targets: ['localhost:9090']
  - job_name: 'win10'
    static_configs:
    - targets: ['192.168.1.10:9182']
```

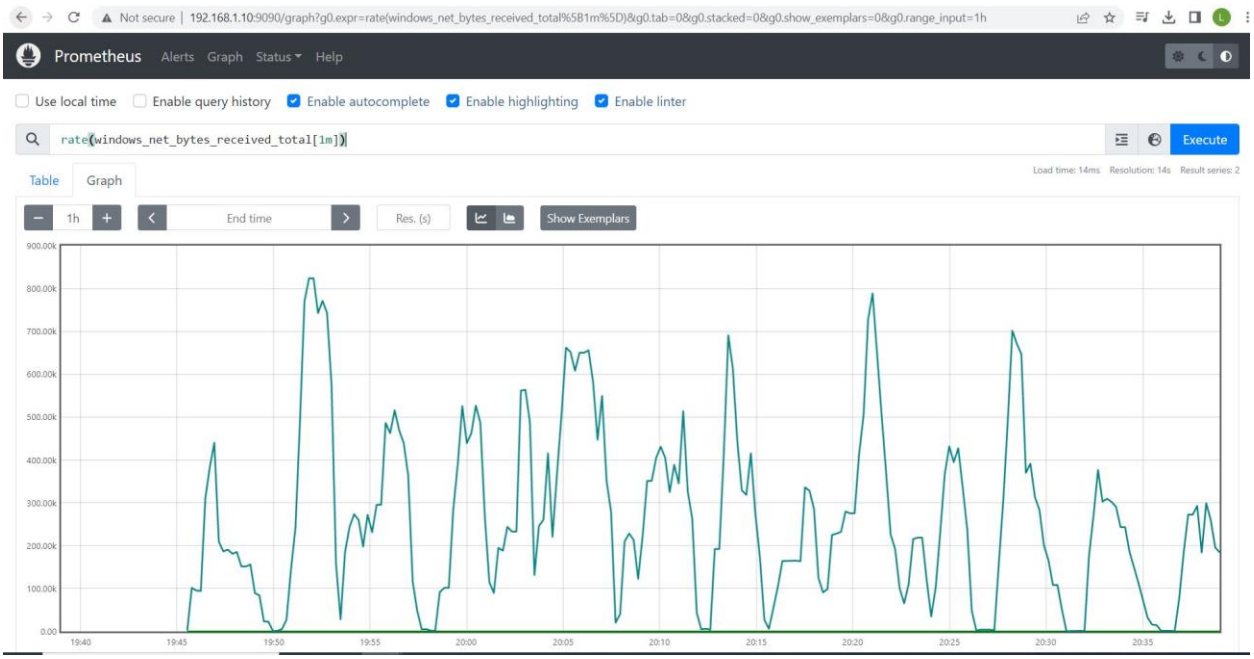
After that we can navigate to localhost:9090/targets:



To monitor your Windows computer with Prometheus, visit the Prometheus Graph page at http:// 192.168.1.10:9090/graph from your web browser.

To monitor the download speed of your Windows computer, run the expression rate(windows_net_bytes_received_total[1m]).

You should see a graph of the download speed of your Windows computer, as shown in the screenshot below.


Not secure | 192.168.1.10:9090/graph?g0.expr=rate(windows_net_bytes_received_total%5B1m%5D)&g0.tab=0&g0.stacked=0&g0.show_exemplars=0&g0.range_input=1h
Prometheus
Alerts
Graph
Status
Help
Use local time
Enable query history
Enable autocomplete
Enable highlighting
Enable linter
rate(windows_net_bytes_received_total[1m])
Execute
Table
Graph
Load time: 14ms
Resolution: 14s
Result series: 2
1h
End time
Res. (s)
Show Exemplars
900.00k
800.00k
700.00k
600.00k
500.00k
400.00k
300.00k
200.00k
100.00k
0.00
19:40
19:45
19:50
19:55
20:00
20:05
20:10
20:15
20:20
20:25
20:30
20:35