Monitoring Windows OS with Prometheus

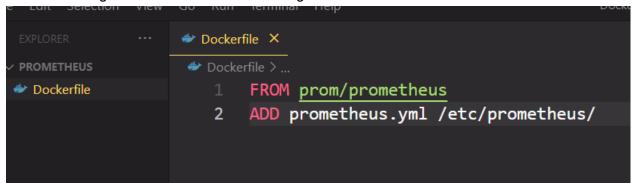
Installing Windows Exporter:

The Windows Exporter is running:

```
Monitoring Windows X S localhost:9182/metric X Release v0.22.0 - pron X
     → C ① localhost:9182/metrics
 🦊 Inbox (8,773) - andr... 👸 Online Courses - Le... 🦳 Payoneer | Get Paid... 😕 Upwork | The World
# 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"} 0.0135381
go_gc_duration_seconds_sum 0.0142953
go_gc_duration_seconds_count 30
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 14
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.20.2"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 5.06548e+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 9.4716064e+07
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.469187e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 118086
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 7.442968e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and still in use
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 5.06548e+06
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 8.986624e+06
# HELP go_memstats_heap_inuse_bytes Number of heap bytes that are in use.
# TYPE go_memstats_heap_inuse_bytes gauge
go_memstats_heap_inuse_bytes 7.49568e+06
# HELP go_memstats_heap_objects Number of allocated objects.
# TYPE go_memstats_heap_objects gauge
go_memstats_heap_objects 25070
# HELP go_memstats_heap_released_bytes Number of heap bytes released to OS.
# TYPE go_memstats_heap_released_bytes gauge
go_memstats_heap_released_bytes 8.339456e+06
# HFIP on mametate hash eve hutae Numbar of hash hutae obtained from evetam
```

Adding Windows Exporter to Prometheus:

1. Creating a Dockerfile with the following content:



Running Prometheus on port 9090:

We have a Prometheus image installed in Docker:



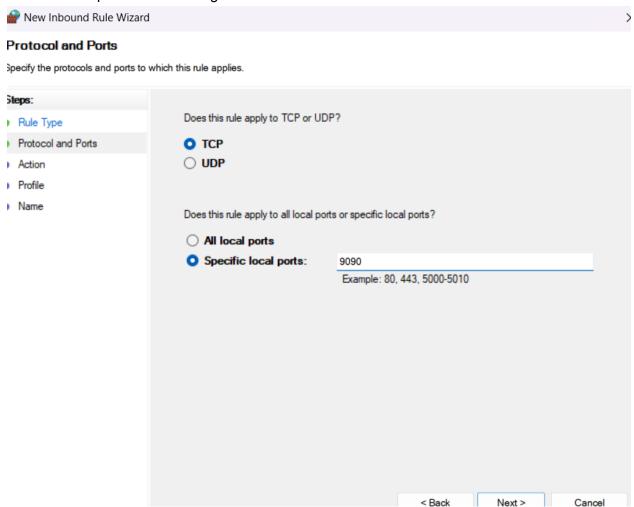
Checking the IP Address where Prometheus was installed with the **ipconfig** command:

```
Ethernet adapter Ethernet 2:

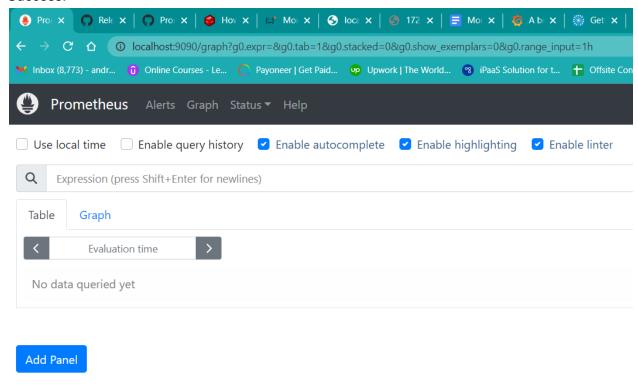
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . : fe80::d545:5f1e:485b:b7f9%11
IPv4 Address . . . . . : 192.168.56.1
Subnet Mask . . . . . . : 255.255.255.0
Default Gateway . . . . . . :
```

- My IP address is 192.168.56.1
- I need to enter this address in the prometheus.yml file so the connection can be established

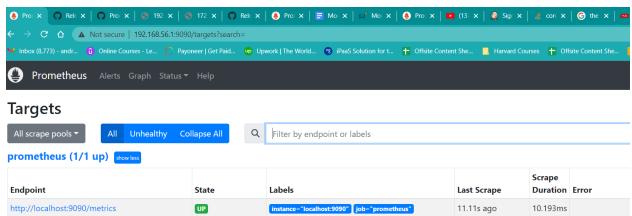
Adding an inbound rule for the 9090 port to be opened - I had to enable 9090 port in my Firewall so that I can open the monitoring metrics in the web browser



Success!



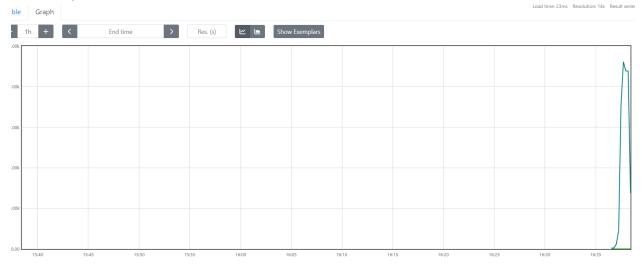
We can also access the monitoring metrics by typing in 192.168.56.1:9090/targets, which is my PC IP address:



And we have the win10 running:



Monitoring the download speed:



- {instance="192.168.56.1:9182", job="win10", nic="Realtek_PCle_GbE_Family_Controller"}
- [Instance="192.168.56.1:9182", job="win10", nic="Realtek_RTL8821CE_802_11ac_PCle_Adapter"]

Click: select series, CTRL + click: toggle multiple series