

Downloading Windows Exporter



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.

```
# HELP go_gc_duration_seconds A summary of the pause duration of garbage collection cycles.
# 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"} 0.0021918
go_gc_duration_seconds_sum 0.0033867
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_memstat_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstat_alloc_bytes gauge
go_memstat_alloc_bytes 1.793880e+06
# HELP go_memstat_alloc_bytes_total Number of bytes allocated, even if freed.
# TYPE go_memstat_alloc_bytes_total counter
go_memstat_alloc_bytes_total 1.7623992e+07
# HELP go_memstat_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstat_buck_hash_sys_bytes gauge
go_memstat_buck_hash_sys_bytes 1.467203e+06
# HELP go_memstat_free_total Number of frees.
# TYPE go_memstat_free_total counter
go_memstat_free_total 102790
# HELP go_memstat_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstat_gc_sys_bytes gauge
go_memstat_gc_sys_bytes 7.508048e+06
# HELP go_memstat_heap_alloc_bytes Number of heap bytes allocated and still in use.
# TYPE go_memstat_heap_alloc_bytes gauge
go_memstat_heap_alloc_bytes 3.753880e+06
# HELP go_memstat_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstat_heap_idle_bytes gauge
go_memstat_heap_idle_bytes 1.06496e+07
# HELP go_memstat_heap_inuse_bytes Number of heap bytes that are in use.
# TYPE go_memstat_heap_inuse_bytes gauge
go_memstat_heap_inuse_bytes 5.865472e+06
# HELP go_memstat_heap_objects Number of allocated objects.
# TYPE go_memstat_heap_objects gauge
go_memstat_heap_objects 22205
# HELP go_memstat_heap_released_bytes Number of heap bytes released to OS.
# TYPE go_memstat_heap_released_bytes gauge
go_memstat_heap_released_bytes 1.0248192e+07
```

Services (Local)						
Name	Description	Status	Startup Type	Log On As		
windows_exporter	Exports Prometheus metrics about the system	Running	Automatic	Local System		
Windows Installer	Adds, modifies, and removes applications provid...	Running	Manual	Local System		
Windows License Manager S...	Provides infrastructure support for the Microsoft...	Running	Manual (Trigger Start)	Local Service		
Windows Management Instr...	Provides a common interface and object model t...	Running	Automatic	Local System		
Windows Management Serv...	Performs management including Provisioning an...	Running	Manual	Local System		
Windows Media Player Netw...	Shares Windows Media Player libraries to other n...	Running	Manual	Network Service		
Windows Mixed Reality Ope...	Enables Mixed Reality OpenXR runtime functio...	Running	Manual	Local System		
Windows Mobile Hotspot Se...	Provides the ability to share a cellular data conne...	Running	Manual (Trigger Start)	Local Service		
Windows Modules Installer	Enables installation, modification, and removal o...	Running	Manual	Local System		
Windows Perception Service	Enables spatial perception, spatial input, and hol...	Running	Manual (Trigger Start)	Local Service		
Windows Perception Simulat...	Enables spatial perception simulation, virtual ca...	Running	Manual	Local System		
Windows Presentation Foun...	Optimizes performance of Windows Presentation...	Running	Manual	Local Service		
Windows Push Notifications...	This service runs in session 0 and hosts the notifi...	Running	Automatic	Local System		
Windows Push Notifications...	This service hosts Windows notification platform...	Running	Automatic	Local System		
Windows PushToInstall Servi...	Provides infrastructure support for the Microsoft...	Running	Manual (Trigger Start)	Local System		
Windows Remote Managem...	Windows Remote Management (WinRM) service ...	Running	Manual	Network Service		
Windows Search	Provides content indexing, property caching, and...	Running	Automatic (Delayed Start)	Local System		
Windows Security Service	Windows Security Service handles unified device ...	Running	Manual	Local System		
Windows Subsystem for Linux	Windows Subsystem for Linux lets developers ru...	Running	Automatic	Local System		
Windows Time	Maintains date and time synchronization on all c...	Running	Automatic (Delayed Start, Tr...	Local Service		
Windows Update	Enables the detection, download, and installatio...	Running	Manual (Trigger Start)	Local System		
windows_exporter	Exports Prometheus metrics about the system	Running	Automatic	Local System		
WinHTTP Web Proxy Auto-D...	WinHTTP implements the client HTTP stack and o...	Running	Manual	Local Service		

Not secure | http://192.168.50.74:9182
ScaleFocus
Tryit Editor v3.6
sun and steel - Goo...
Index
Mirrored prefab ho...
Treehotel.se - The...
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Windows Exporter

Prometheus Exporter for Windows servers

Version: (version=0.22.0, branch=heads/tags/v0.22.0, revision=b29434c7c057e8616880cacf99d59793289e3e88)

- [Metrics](#)
- [Health Check](#)
- [Version Info](#)

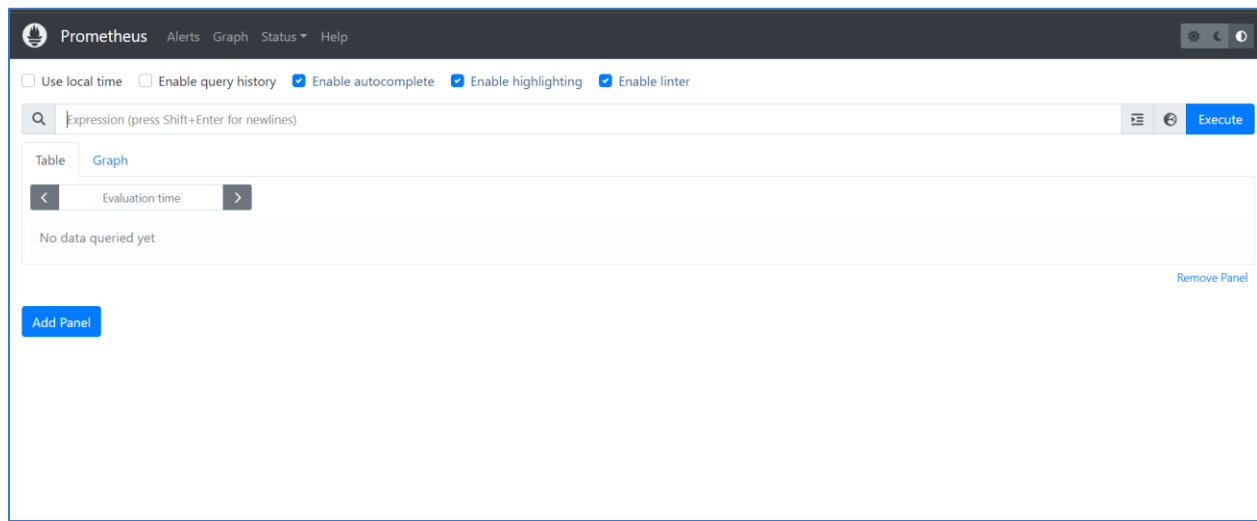
Adding Windows Exporter to Prometheus

```

C:\Users\filip\Downloads\pro x + v
ts=2023-05-04T10:35:05.661Z caller=main.go:520 level=info msg="No time or size retention was set so using the default time retention" duration=15d
ts=2023-05-04T10:35:05.661Z caller=main.go:564 level=info msg="Starting Prometheus Server" mode=server version="(version=2.43.0, branch=HEAD, revision=edfc3bcd025dd6fe296c167a14a216cable552ee)"
Prometheus Server" mode=server version="(version=2.43.0, branch=HEAD, revision=edfc3bcd025dd6fe296c167a14a216cable552ee)"
ts=2023-05-04T10:35:05.661Z caller=main.go:569 level=info build_context="(go=go1.19.7, platform=windows/amd64, user=root@4a87cb133ee9, date=20230321-13:01:30, tags=builtinassets)"
ts=2023-05-04T10:35:05.661Z caller=main.go:570 level=info host_details=(windows)
ts=2023-05-04T10:35:05.661Z caller=main.go:571 level=info fd_limits=N/A
ts=2023-05-04T10:35:05.661Z caller=main.go:572 level=info vm_limits=N/A
ts=2023-05-04T10:35:05.665Z caller=web.go:561 level=info component=web msg="Start listening for connections" address=0.0.0.0:9090
ts=2023-05-04T10:35:05.667Z caller=main.go:1005 level=info msg="Starting TSDB ..."
ts=2023-05-04T10:35:05.668Z caller=tsdb_config.go:232 level=info component=web msg="Listening on" address=[::]:9090
ts=2023-05-04T10:35:05.668Z caller=main.go:1200 level=info msg="Loading configuration file" filename=prometheus.yml
ts=2023-05-04T10:35:05.677Z caller=web.go:587 level=info component=web msg="TLS is disabled." http2=false address=[::]:9090
ts=2023-05-04T10:35:05.677Z caller=web.go:587 level=info component=tsdb msg="Replaying on-disk memory mappable chunks if any"
ts=2023-05-04T10:35:05.677Z caller=web.go:658 level=info component=tsdb msg="On-disk memory mappable chunks replay completed" duration=0s
ts=2023-05-04T10:35:05.677Z caller=web.go:664 level=info component=tsdb msg="Replaying WAL, this may take a while"
ts=2023-05-04T10:35:05.680Z caller=web.go:735 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegment=0ts=2023-05-04T10:35:05.680Z caller=head.go:772 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_duration=0s wal_replay_duration=3.0178ms wbl_replay_duration=0s total_replay_duration=3.0178ms
ts=2023-05-04T10:35:05.687Z caller=main.go:1026 level=info fs_type=unknown
ts=2023-05-04T10:35:05.688Z caller=main.go:1029 level=info msg="TSDB started"
ts=2023-05-04T10:35:05.688Z caller=main.go:1200 level=info msg="Loading configuration file" filename=prometheus.yml
ts=2023-05-04T10:35:05.727Z caller=main.go:1246 level=info msg="Completed loading of configuration file" filename=prometheus.yml totalDuration=39.284ms db_storage=0s remote_storage=0s web_handler=0s query_engine=0s scrape=36.886ms scrape_sd=501.7us notify=0s notify_sd=0s rules=0s tracing=0s
ts=2023-05-04T10:35:05.728Z caller=main.go:990 level=info msg="Server is ready to receive web requests."

```

Prometheus is running



IP address of your Windows computer

192.168.50.74

```
Wireless LAN adapter Wi-Fi 2:

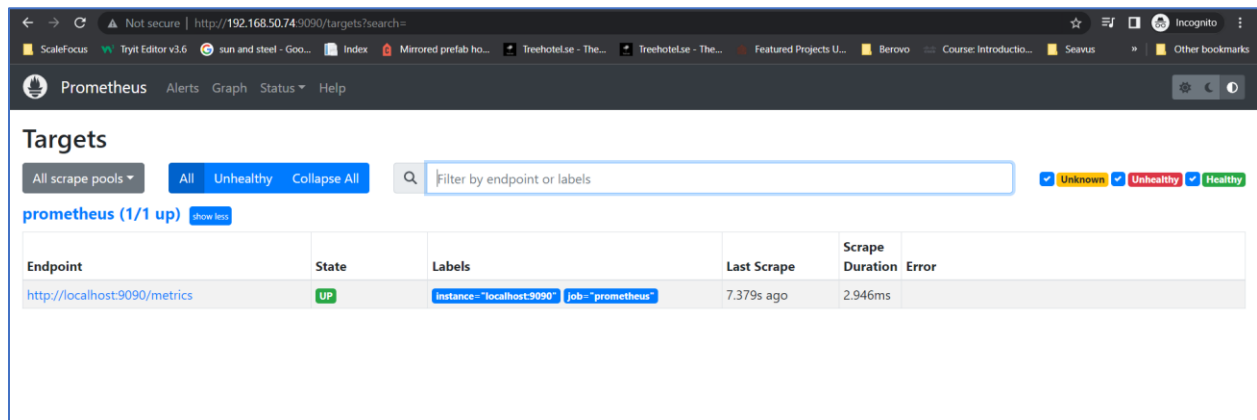
Connection-specific DNS Suffix  . : 
Link-local IPv6 Address . . . . . : fe80::f4cc:f266:6e09:a108%16
IPv4 Address. . . . . : 192.168.50.74
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.50.1
```

Prometheus YAML file:

```
prometheus.yml - Visual Studio Code

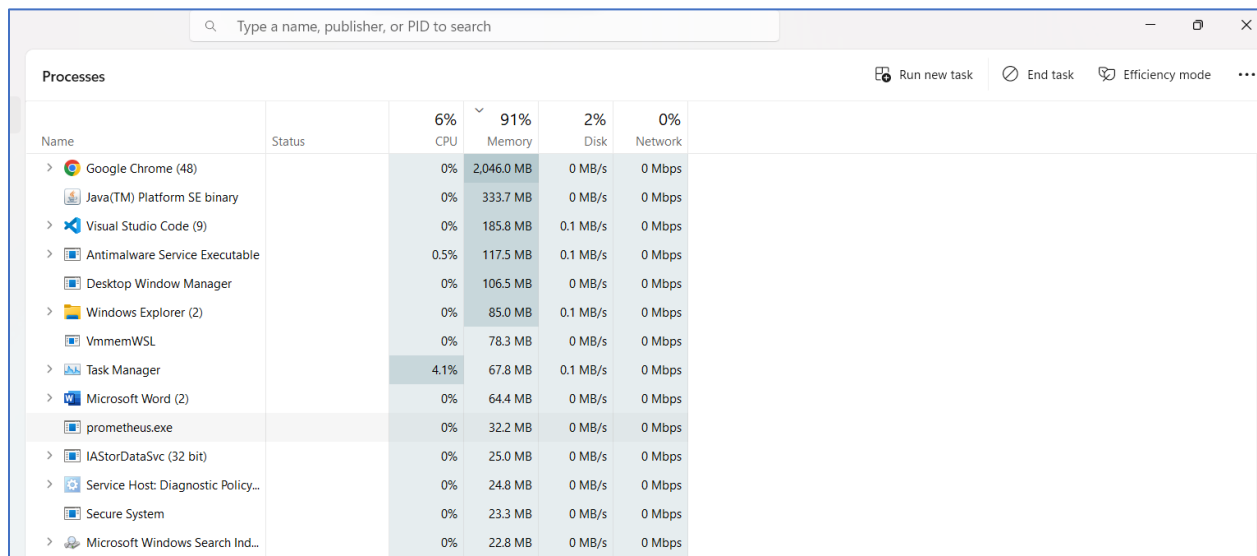
! prometheus.yml X
C:\Users> filp > Downloads > prometheus-2.43.0.windows-amd64 > prometheus-2.43.0.windows-amd64 > ! prometheus.yml
1 # my global config
2 global:
3   scrape_interval: 15s # Set the scrape interval to every 15 seconds. Default is every 1 minute.
4   evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
5   # scrape_timeout is set to the global default (10s).
6
7 # Alertmanager configuration
8 alerting:
9   alertmanagers:
10     - static_configs:
11       - targets:
12         # - alertmanager:9093
13
14 # Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
15 rule_files:
16   # - "first_rules.yml"
17   # - "second_rules.yml"
18
19 # A scrape configuration containing exactly one endpoint to scrape:
20 # Here it's Prometheus itself.
21 scrape_configs:
22   # The job name is added as a label 'job=<job_name>' to any timeseries scraped from this config.
23   - job_name: "prometheus"
24
25     # metrics_path defaults to '/metrics'
26     # scheme defaults to 'http'.
27
28     static_configs:
29       - targets: ["localhost:9090"]
30
```

Now, visit the Prometheus Targets page at <http://192.168.3.149:9090/targets> from your favorite web browser, and you should see that the win10 target is in the UP state. It means that Prometheus can scrape stats from the Windows computer using Windows Exporter.



Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	7.379s ago	2.946ms	

I was missing the Windows job, so I proceeded with restarting Prometheus.




Name	Status	6% CPU	91% Memory	2% Disk	0% Network
Google Chrome (48)		0%	2,046.0 MB	0 MB/s	0 Mbps
Java(TM) Platform SE binary		0%	333.7 MB	0 MB/s	0 Mbps
Visual Studio Code (9)		0%	185.8 MB	0.1 MB/s	0 Mbps
Antimalware Service Executable		0.5%	117.5 MB	0.1 MB/s	0 Mbps
Desktop Window Manager		0%	106.5 MB	0 MB/s	0 Mbps
Windows Explorer (2)		0%	85.0 MB	0.1 MB/s	0 Mbps
VmmemWSL		0%	78.3 MB	0 MB/s	0 Mbps
Task Manager		4.1%	67.8 MB	0.1 MB/s	0 Mbps
Microsoft Word (2)		0%	64.4 MB	0 MB/s	0 Mbps
prometheus.exe		0%	32.2 MB	0 MB/s	0 Mbps
IAStorDataSvc (32 bit)		0%	25.0 MB	0 MB/s	0 Mbps
Service Host: Diagnostic Policy...		0%	24.8 MB	0 MB/s	0 Mbps
Secure System		0%	23.3 MB	0 MB/s	0 Mbps
Microsoft Windows Search Ind...		0%	22.8 MB	0 MB/s	0 Mbps

```
29 | - targets: ["localhost:9090"]
30 |
31 | - job_name: 'win10'
32 |   static_configs:
33 |     - targets: ['192.168.50.74:9182']
34 |
```

```
Administrator: Command Prompt - prometheus.exe
C:\Users\Filip\Downloads>cd C:\Users\Filip\Downloads\prometheus-2.43.0.windows-amd64\prometheus-2.43.0.windows-amd64

C:\Users\Filip\Downloads\prometheus-2.43.0.windows-amd64>prometheus.exe
ts=2023-05-04T10:53:08.4702 caller=main.go:520 level=info msg="No time or size retention was set so using the default time retention" duration=15d
ts=2023-05-04T10:53:08.4702 caller=main.go:564 level=info msg="Starting Prometheus Server" mode=server version="(version=2.43.0, branch=HEAD, revision=edfc3bcd025dd6fe296c167a14a216cable552ee)"
ts=2023-05-04T10:53:08.4702 caller=main.go:569 level=info build_context="(go=go1.19.7, platform=windows/amd64, user=root@4a87cb13ee9, date=20230321-13:01:30, tags=builtnassets)"
ts=2023-05-04T10:53:08.4712 caller=main.go:570 level=info host_details=(windows)
ts=2023-05-04T10:53:08.4712 caller=main.go:571 level=info fd_limits=N/A
ts=2023-05-04T10:53:08.4722 caller=main.go:572 level=info va_limits=N/A
ts=2023-05-04T10:53:08.4812 caller=web.go:561 level=info component=web msg="Start listening for connections" address=0.0.0.0:9090
ts=2023-05-04T10:53:08.4832 caller=main.go:1005 level=info msg="Starting TSDB ..."
ts=2023-05-04T10:53:08.4842 caller=ts_config.go:232 level=info component=web msg="Listening on" address=[::]:9090
ts=2023-05-04T10:53:08.4842 caller=ts_config.go:235 level=info component=web msg="TLS is disabled." http2=false address=[::]:9090
ts=2023-05-04T10:53:08.4842 caller=dir_locker.go:77 level=warn component=tsdb msg="A lockfile from a previous execution already existed. It was replaced" file=C:\Users\Filip\Downloads\prometheus-2.43.0.windows-amd64\prometheus-2.43.0.windows-amd64\data.lock
ts=2023-05-04T10:53:08.4892 caller=tsdb.go:587 level=info component=tsdb msg="Replaying on-disk memory mappable chunks if any"
ts=2023-05-04T10:53:08.4892 caller=tsdb.go:664 level=info component=tsdb msg="On-disk memory mappable chunks replay completed" duration=0s
ts=2023-05-04T10:53:08.4892 caller=tsdb.go:664 level=info component=tsdb msg="Replaying WAL, this may take a while"
ts=2023-05-04T10:53:08.4972 caller=tsdb.go:735 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegment=1
ts=2023-05-04T10:53:08.4972 caller=tsdb.go:735 level=info component=tsdb msg="WAL segment loaded" segment=1 maxSegment=1
ts=2023-05-04T10:53:08.4972 caller=tsdb.go:772 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_duration=53.3µs wal_replay_duration=7.2167ms wbl_replay_duration=0s total_replay_duration=8.038ms
ts=2023-05-04T10:53:08.4992 caller=main.go:1029 level=info fs_type=unknown
ts=2023-05-04T10:53:08.4992 caller=main.go:1029 level=info msg="TSDB started"
ts=2023-05-04T10:53:08.5002 caller=main.go:1209 level=info msg="Loading configuration file" filename=prometheus.yml
ts=2023-05-04T10:53:08.5112 caller=main.go:1246 level=info msg="Completed loading of configuration file" filename=prometheus.yml totalDuration=11.4949ms db_storage=0s remote_storage=0s web_handler=0s query_engine=0s scrape=11.4271ms scrape_sd=0s notify=0s notify_sd=0s rules=0s tracing=0s
ts=2023-05-04T10:53:08.5112 caller=main.go:990 level=info msg="Server is ready to receive web requests."
ts=2023-05-04T10:53:08.5112 caller=manager.go:974 level=info component="rule manager" msg="Starting rule manager..."
```

 Prometheus Alerts Graph Status Help

Targets

All scrape pools

All Unhealthy Collapse All

Filter by endpoint or labels

Unknown

Unhealthy

Healthy

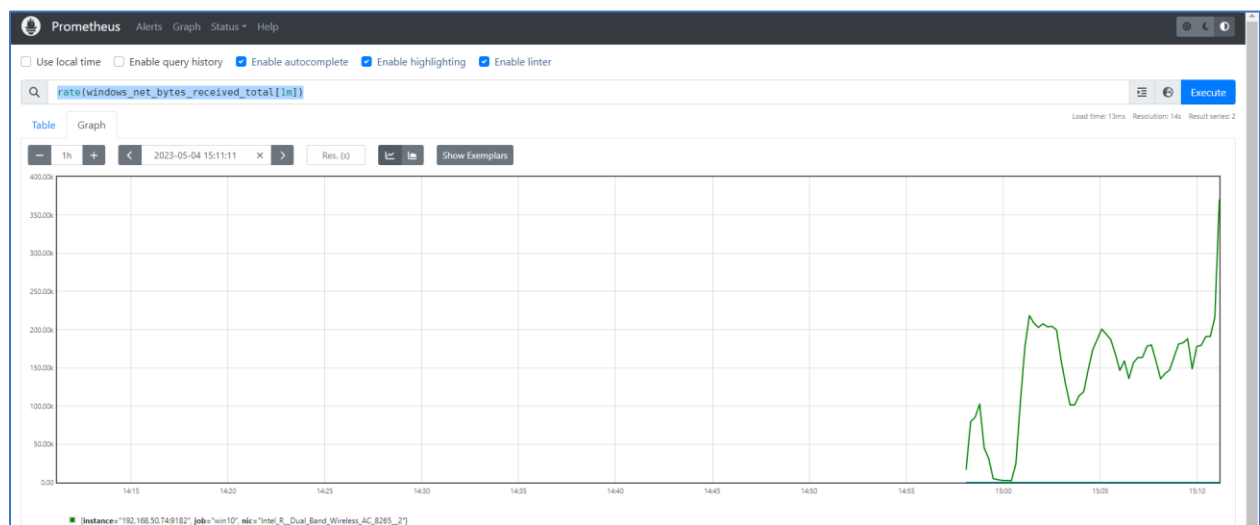
prometheus (1/1 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	14.440s ago	4.788ms	

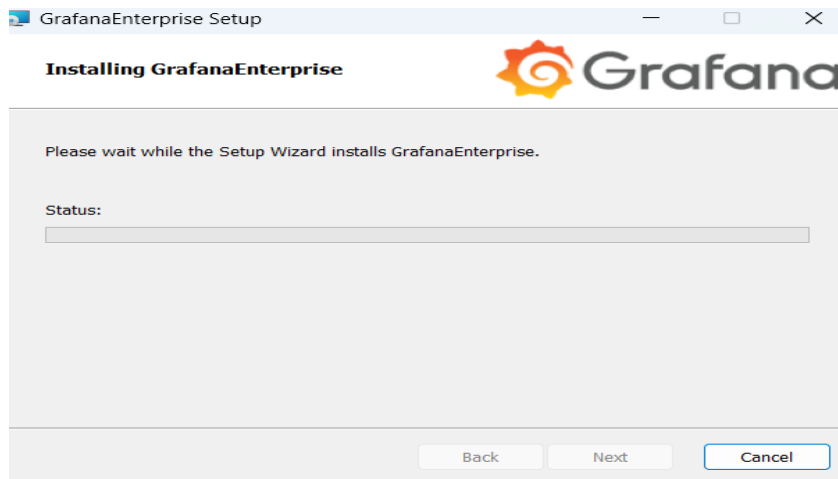
win10 (1/1 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://192.168.50.74:9182/metrics	UP	instance="192.168.50.74:9182" job="win10"	3.490s ago	744.915ms	

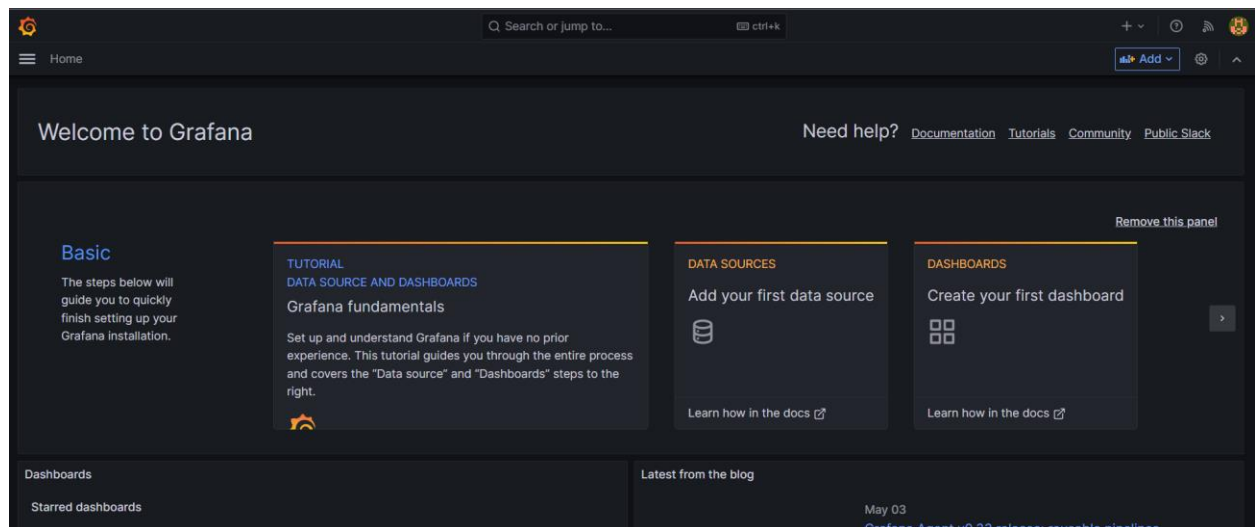
To monitor the download speed of your Windows computer, run the expression `rate(windows_net_bytes_received_total[1m])`.



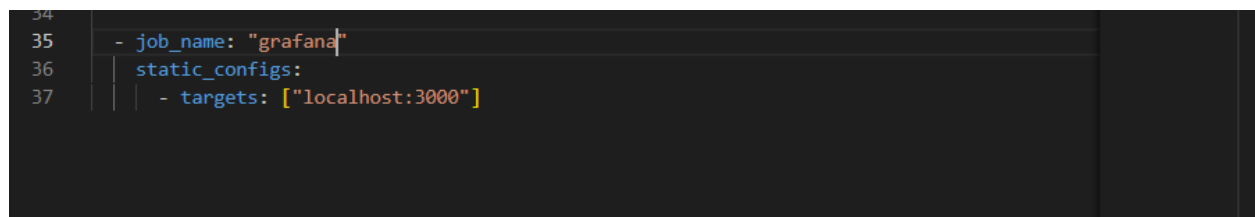
Installing Grafana, just for fun 😊



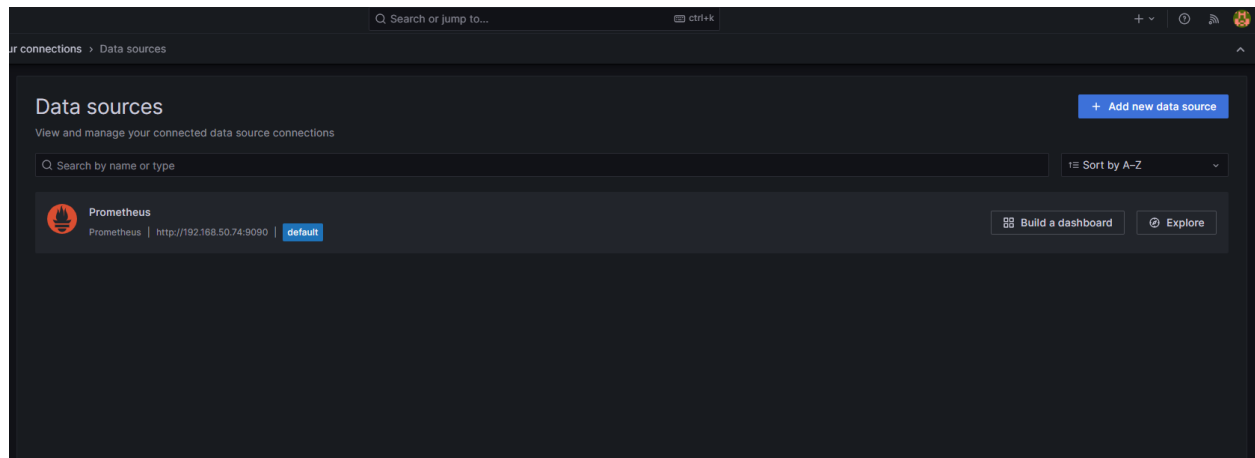
Grafana is Installed



Changes to the yaml file:



Setting the Connection to Prometheus



Grafana: <http://localhost:3000/?orgId=1>

Prometheus: <http://192.168.50.74:9090/targets?search=>

Windows Exproter: <http://192.168.50.74:9182/>

The screenshot shows the Prometheus 'Targets' page. It has a header with 'Prometheus', 'Alerts', 'Graph', 'Status', and 'Help'. Below the header, there's a 'Targets' section with a search bar and filters for 'All scrape pools', 'All', 'Unhealthy', and 'Collapse All'. A table lists the targets, grouped by scrape pool: 'grafana (1/1 up)', 'prometheus (1/1 up)', and 'win10 (1/1 up)'. Each group has a 'show less' button. The table columns are 'Endpoint', 'State', 'Labels', 'Last Scrape', 'Scrape Duration', and 'Error'.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
grafana (1/1 up) show less					
http://localhost:3000/metrics	UP	instance="localhost:3000" job="grafana"	8.465s ago	7.547ms	
prometheus (1/1 up) show less					
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	10.502s ago	19.644ms	
win10 (1/1 up) show less					
http://192.168.50.74:9182/metrics	UP	instance="192.168.50.74:9182" job="win10"	14.564s ago	807.639ms	

Setting up a Grafana Dashboard

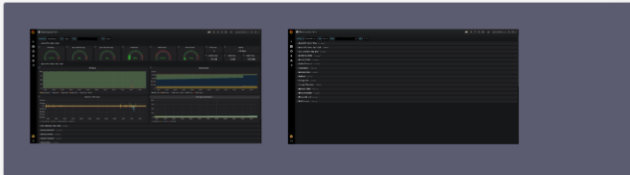
Addit a Node Exporter dashboard

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[← All dashboards](#)

Node Exporter Full

[Overview](#) [Revisions](#) [Reviews](#)



Get this dashboard

Data source:
Grafana 9.4.3 Prometheus 1.0.0

Dependencies:
Gauge Stat Time series

Import the dashboard template:

[Copy ID to clipboard](#)

or

[Download JSON](#)

Importing the Dashboard ID

Import dashboard

Import dashboard from file or Grafana.com

Importing dashboard from Grafana.com

Published by	rfmoz
Updated on	2023-03-30 15:35:21

Options

Name

Node Exporter Full

Folder

General

Unique identifier (UID)

The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.

rYddIPWk [Change uid](#)

The previous one did not work for my windows machine. Set up another dashboard.

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Windows Node Exporter for prometheus-windows-exporter.install

General stats dashboard with node selector, uses metrics from prometheus-windows-exporter.install

[Overview](#)
[Revisions](#)
[Reviews](#)

Get this dashboard

Data source:
[Grafana 4.2.0](#)
[Prometheus 1.0.0](#)

Dependencies:
[Graph \(old\)](#)

Import the dashboard template:

Copy ID to clipboard

or

Download JSON

[Docs: Importing dashboards](#)

ID: 14400

The dashboard is set:

