

How to Monitor Prometheus with Nagios XI 2024

Purpose

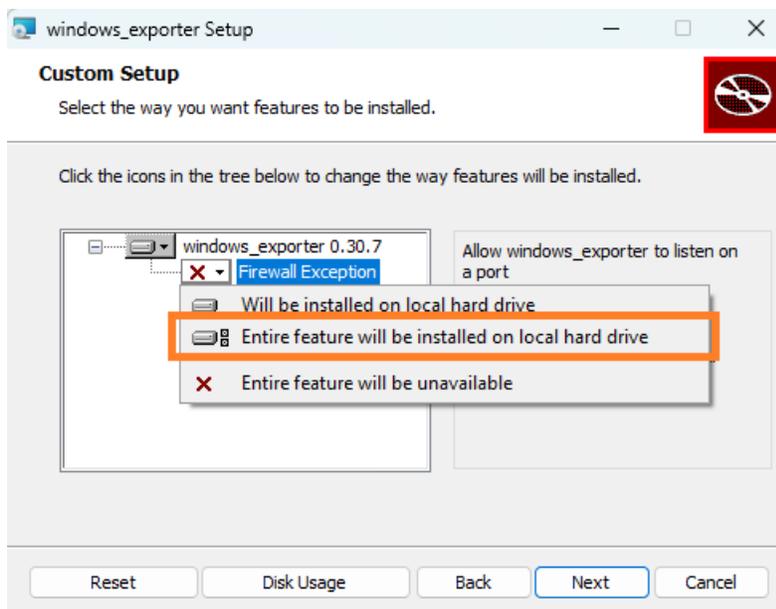
This document describes how to monitor Windows and Linux systems running Prometheus Data Exporters with Nagios XI. The Prometheus Wizard was introduced in Nagios XI 2024R1.4.4.

Installing the Prometheus Data Exporters

In order to monitor Prometheus data in Nagios XI, you will need to install either a Windows or Linux data exporter on the target host.

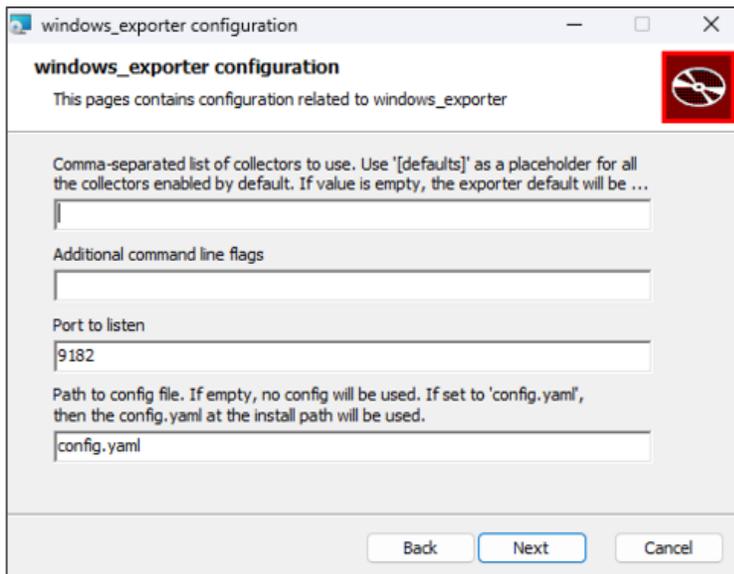
Installing the Windows Exporter from Prometheus Community GitHub onto a Windows Host

1. Download the latest version from GitHub.
 - Go to https://github.com/prometheus-community/windows_exporter/releases
 - Look for the latest release and download the `amd64.msi` file
2. Run the installer.
3. In the initial **Custom Setup** section, choose *Entire feature will be installed on local hard drive* under **Firewall Exception**. This will add an inbound permission for the Exporter listening port.



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4. Click all the options that say **Next** or **Proceed** in the installer. You do not need to change or add any other information for the Nagios XI Prometheus Wizard to work, you can simply keep the defaults.



5. After installation, you can confirm it is up and running by going to the URL:

http://<HOST_IP>:9182/metrics

The page will look like this:

```
# HELP go_build_info Build information about the main Go module.
# TYPE go_build_info gauge
go_build_info{checksum="a3a3b3c3d3e3f3g3h3i3j3k3l3m3n3o3p3q3r3s3t3u3v3w3x3y3z3",path="github.com/prometheus-community/windows_exporter",version="(dev)"} 1
# HELP go_gc_duration_seconds A summary of the wall-time pause (stop-the-world) duration in 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"} 0.0005749
go_gc_duration_seconds{quantile="1"} 0.0129589
go_gc_duration_seconds_sum 0.0140023
go_gc_duration_seconds_count 1461
# HELP go_gc_gogc_percent Heap size target percentage configured by the user, otherwise 100. This value is set by the GOGC environment variable, and the runtime/debug.SetGCPercent function. Sourced from /gc/gogc:percent.
# TYPE go_gc_gogc_percent gauge
go_gc_gogc_percent 100
# HELP go_gc_gomemlimit_bytes Go runtime memory limit configured by the user, otherwise math.MaxInt64. This value is set by the GOMEMLIMIT environment variable, and the runtime/debug.SetMemoryLimit function. Sourced from /gc/gomemlimit:bytes
# TYPE go_gc_gomemlimit_bytes gauge
go_gc_gomemlimit_bytes 1e+08
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 19
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.21.4"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated in heap and currently in use. Equals to /memory/classes/heap/objects:bytes.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 4.193336e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated in heap until now, even if released already. Equals to /gc/heap/allocs:bytes.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 3.08664312e+09
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table. Equals to /memory/classes/profiling/buckets:bytes.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.544207e+06
# HELP go_memstats_frees_total Total number of heap objects frees. Equals to /gc/heap/frees:objects + /gc/heap/tiny/allocs:objects.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 4.931606e+07
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata. Equals to /memory/classes/metadata/other:bytes.
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 1.0566e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and currently in use, same as go_memstats_alloc_bytes. Equals to /memory/classes/heap/objects:bytes.
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 4.193336e+06
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used. Equals to /memory/classes/heap/released:bytes + /memory/classes/heap/free:bytes.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 1.013350e+07
# HELP go_memstats_heap_inuse_bytes Number of heap bytes that are in use. Equals to /memory/classes/heap/objects:bytes + /memory/classes/heap/unused:bytes
# TYPE go_memstats_heap_inuse_bytes gauge
go_memstats_heap_inuse_bytes 6.627328e+06
# HELP go_memstats_heap_objects Number of currently allocated objects. Equals to /gc/heap/objects:objects.
```

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With the above steps completed, your Windows system is now properly configured for monitoring, and you're ready to move on to [Using the Prometheus Wizard](#).

Installing the Linux Exporter

1. Download the latest version from the command line

- Go to https://prometheus.io/download/#node_exporter
- Right click the Linux download link and select **Copy Link** to get exactly what you need to enter in the below `wget` command.
- On your Linux host, open the terminal
- Run the following command, replacing the URL with the one you fetched (note this is a single command) :

```
wget https://github.com/prometheus/node_exporter/releases/download/v<VERSION>/node_exporter-  
<VERSION>.<OS>-<ARCH>.tar.gz
```

2. Run Node Explorer

- Run the following commands:

```
tar xvfz node_exporter-*. *-amd64.tar.gz
```

```
cd node_exporter-*. *-amd64
```

```
./node_exporter
```

With these above steps completed, your Linux host is ready for monitoring and you're ready to move on to using the Prometheus Configuration Wizard.

Using the Prometheus Configuration Wizard

As long as you are running Nagios XI 2024R1.4.4+, you will automatically have the Prometheus wizard. If you are running an older version of Nagios XI, you will need to upgrade to access the wizard.

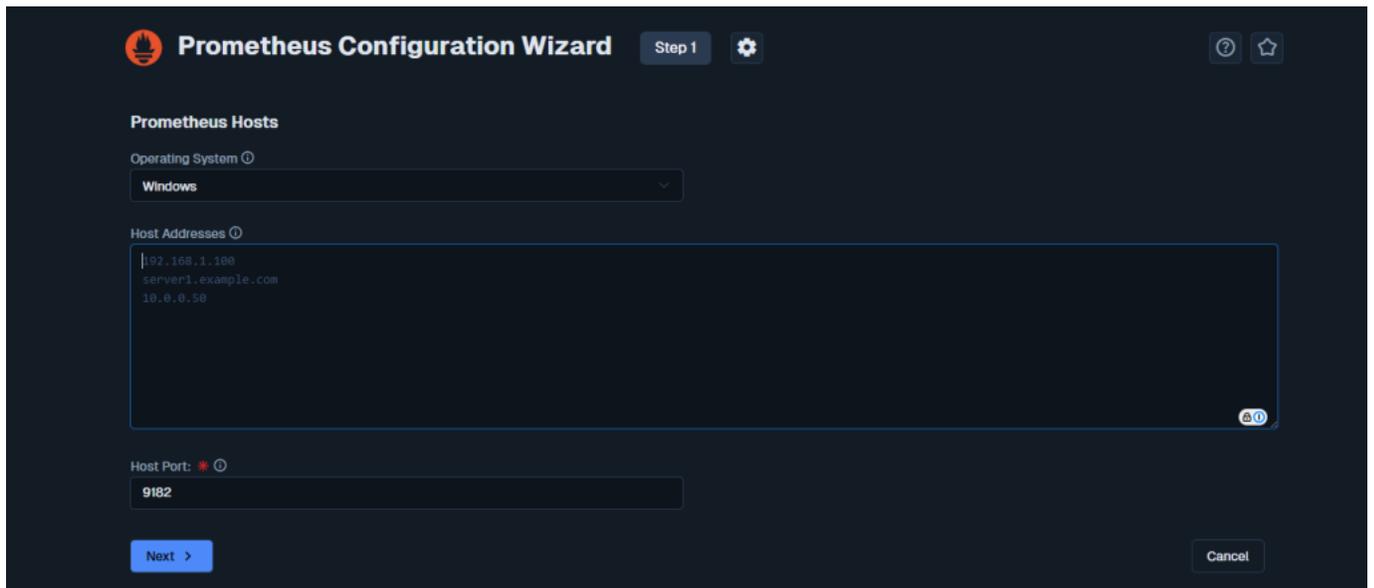
1. Go to **Configure > Configuration Wizards**.

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2. Find and select **Prometheus**.



3. Enter the **Host IP Address(es)** you wish to monitor.
4. Select the **Operating System** (Windows or Linux)
5. The wizard will automatically select the default **Host Port** for both Windows and Linux. Unless you chose a custom port when you installed the Exporter, this does not need to be changed.

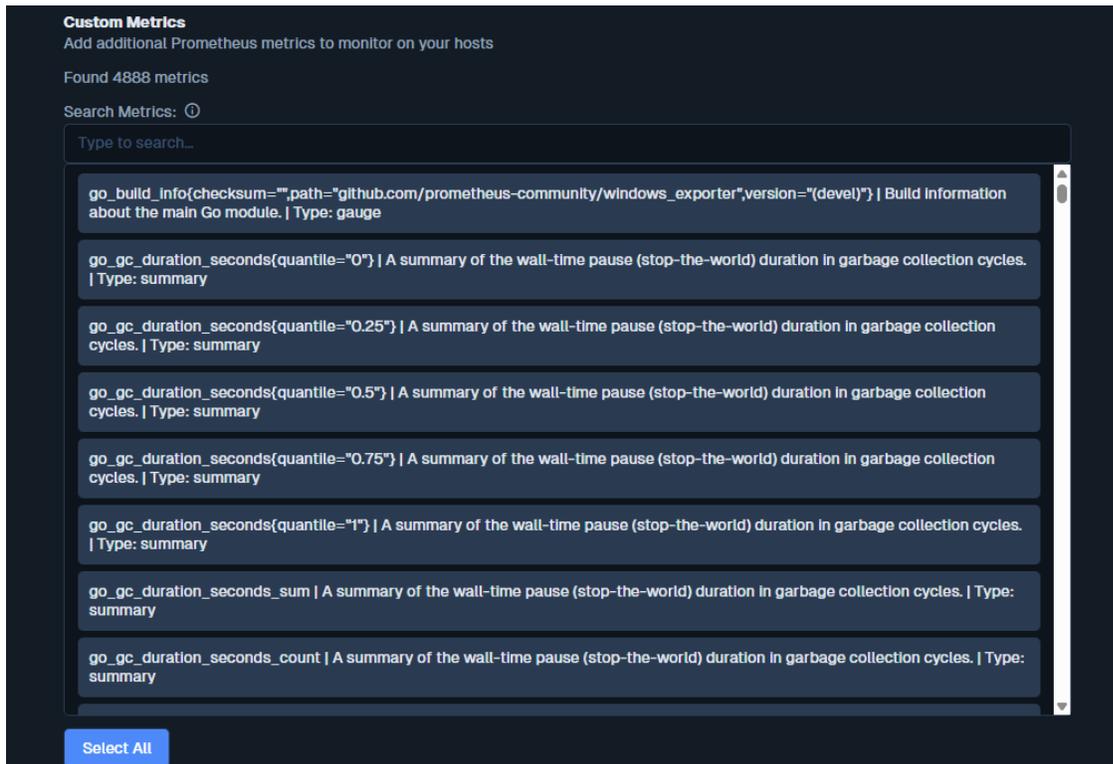


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- By default, the wizard will be set up to perform services for the CPU usage, memory usage and the disk usage.



- You can add more services that the exporter grabs by scrolling a little lower, should you wish to also monitor any of these services simply click them or hit select all, then add thresholds below the Custom Metrics list.



- After selecting the services you wish to monitor, finalize the settings in **Steps 3-5**.

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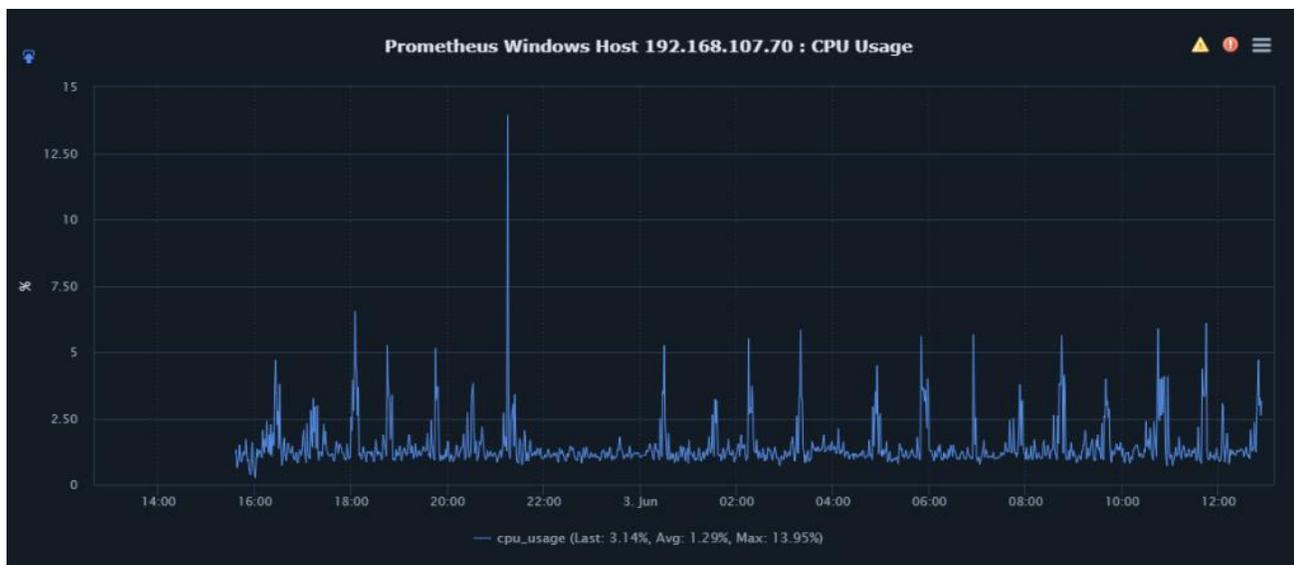
Verify Monitoring

Navigate to the **Host Status Detail** page for your new Host, and click the **Services** tab. You'll be able to see all the newly monitored services.

The screenshot shows the 'Host Status Detail' page for 'Prometheus Windows Host 192.168.107.70'. The 'Services' tab is active, displaying a table of service statuses. The table has columns for Service, Status, Duration, Attempt, Last Check, and Status Information. All services are in an 'Ok' state.

Service	Status	Duration	Attempt	Last Check	Status Information
CPU Usage	Ok	N/A	1/5	2025-06-04 11:45:23	OK - CPU usage is 11.42%
Disk Usage	Ok	N/A	1/5	2025-06-04 11:45:35	OK - Disk usage is 43.17%
Memory Usage	Ok	N/A	1/5	2025-06-04 11:45:46	OK - Memory usage is 67.98%
go_gc_duration_seconds_quantile_0_	Ok	N/A	1/5	2025-06-04 11:45:57	OK - go_gc_duration_seconds(quantile="0") is 0 seconds
go_goroutines	Ok	1m 6s	1/5	2025-06-04 11:46:20	OK - go_goroutines is 19
go_info_version__got.23.4__	Ok	N/A	1/5	2025-06-04 11:46:14	OK - go_info(version="go1.23.4") is 1

You can also review performance data in the Performance Graphs tab, and in other areas like **Home > Graph Explorer**.



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For more information on using monitoring wizards, visit the [Configuration Wizards documentation](#).

Finishing Up

This completes the documentation on Monitoring Prometheus with Nagios XI. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)