

How To Monitor Devices With Nagios XI 5 And NCPA

Purpose

This document explains how to monitor devices using Nagios Cross-Platform Agent (NCPA) in Nagios XI. It outlines the installation, configuration, and integration steps necessary to enable seamless monitoring of devices across various platforms. It is intended for system administrators, IT professionals, and technical users responsible for monitoring and maintaining IT systems and devices. A basic understanding of Nagios XI and general networking concepts is assumed.

If you are monitoring devices with Nagios XI 2024, and NCPA, see [How To Monitor Devices Using NCPA in Nagios XI 2024](#)

Installing NCPA

Before you can use the instructions outlined in this document, you must first install NCPA on the target Windows/Linux/AIX/Mac OS X machine you wish to monitor. Instructions for installing NCPA can be found in the [Installing NCPA](#) documentation.

Running The NCPA Configuration Wizard

1. To begin using the NCPA Configuration Wizard, navigate to **Configure > Configuration Wizards** and select the **NCPA** wizard. Using the **Nagios Products** filter or entering NCPA in the search field will help quickly find the wizard.

The screenshot shows the Nagios XI web interface. The top navigation bar includes 'Views', 'Dashboards', 'Reports', 'Configure' (highlighted with a red circle), 'Tools', 'Admin', and 'Enterprise'. On the left sidebar, under 'Configure', 'Configuration Tools' is expanded, and 'Configuration Wizards' is highlighted with a red circle. The main content area is titled 'Configuration Wizards - Select a Wizard'. It features a search bar and a 'Nagios Products' filter dropdown. Below the filter, several wizard cards are displayed: 'Auto-Discovery', 'BPI Wizard', 'Bulk Host Cloning and Import', 'Capacity Planning', and 'NCPA'. The 'NCPA' card is highlighted with a red rectangle. It includes an icon of a server and the text: 'NCPA Monitor a host (Windows, Linux, OS X, Solaris, or AIX) using NCPA.'

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2. In **Step 1**, enter the connection details for the device you want to monitor.
 - a. **Address:** Provide the IP address or the hostname of the target system running NCPA.
 - b. **Port:** Specify the port number if it differs from the default (5693).
 - c. **Token:** Input the authentication token used by NCPA.
 - d. **System:** Select the OS that NCPA is installed on.
 - e. Click **Next** to proceed.

NCPA Configuration Wizard Step 1

Setup NCPA
The agent should be installed before running this wizard

1. [Download the latest version of NCPA](#) for the system you would like to monitor
2. Follow the [installation instructions \(PDF version\)](#) and configure the token for the agent

Connect to NCPA

* Address ⓘ
192.168.58.140

* Port ⓘ
5693

☒ Do not verify SSL certificate

* Token ⓘ
.....

* System ⓘ
CentOS

Next >

Note: When you click **Next** the Token will be validated. If the token is wrong or the machine cannot be contacted, the wizard will return to **Step 1**, until the token can be successfully verified.

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3. In **Step 2**, configure the options you want to monitor:

- **Host Name:** Verify the hostname is correctly entered.
- Select the metrics you want to monitor, such as **CPU Usage**, **Memory Usage**, disk space, and network traffic.

Some metrics are automatically filled based on data collected by Nagios XI.

Set **Warning** and **Critical** thresholds for each selected metric to define acceptable performance limits.

NCPA Configuration Wizard Step 2

Host Information

Address: 192.168.58.140

Host Name: 192.168.58.140

Port: 5693

System:

System Metrics
Specify the metrics you'd like to monitor with the NCPA Agent.

☒ CPU Usage Warning: 20% Critical: 40% CPU: 21%

☒ User Count Warning: 2 Critical: 4 Users: 2

☒ ☐ Show average CPU usage instead of per cpu core

Memory Metrics
Default units for memory metric output: Gi

☒ Memory Usage Warning: 50% Critical: 80% Memory: 55.1%

☒ Swap Usage Warning: 5% Critical: 10% Swap: 14.5%

Disk Metrics
Specify the disks the the warning and critical percentages for disk capacity.

| Disk/Mount | Current Usage | Warning | Critical |
|---|---------------|---------|----------|
| <input checked="" type="checkbox"/> /boot | 47.6% | 70% | 90% |
| <input checked="" type="checkbox"/> /run/credentials/syst | 0% | 70% | 90% |
| <input checked="" type="checkbox"/> /run/credentials/syst | 0% | 70% | 90% |
| <input checked="" type="checkbox"/> /run/credentials/syst | 0% | 70% | 90% |
| <input checked="" type="checkbox"/> /run/credentials/syst | 0% | 70% | 90% |
| <input checked="" type="checkbox"/> / | 20.7% | 70% | 90% |
| <input checked="" type="checkbox"/> /sys/fs/cgroup | 0% | 70% | 90% |
| <input checked="" type="checkbox"/> /sys/fs/bpf | 0% | 70% | 90% |

Network Interface Metrics
Specify bandwidth limits for your network interfaces. Note that these measurements are per second, not a counter.

| Interface Name | Warning | Critical |
|--|---------|----------|
| <input checked="" type="checkbox"/> ens33 | 10 MB/s | 100 MB/s |
| <input checked="" type="checkbox"/> veth4b5122c9 | 10 MB/s | 100 MB/s |
| <input checked="" type="checkbox"/> veth4ceeff2d | 10 MB/s | 100 MB/s |
| <input checked="" type="checkbox"/> veth6f9a1885 | 10 MB/s | 100 MB/s |
| <input checked="" type="checkbox"/> veth86c2b6db | 10 MB/s | 100 MB/s |
| <input checked="" type="checkbox"/> veth97994d58 | 10 MB/s | 100 MB/s |

[Show all interfaces](#)

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The screenshot below is a continuation of **Step 2** metrics.

Services

Specify which services should be running or stopped. ⓘ

Make your Service Selections ⓘ

ModemManager (running)

NetworkManager (running)

NetworkManager-wait-online

accounts-daemon (running)

alsa-restore (stopped)

alsa-state (running)

atd (running)

auditd (running)

avahi-daemon (running)

| Service Description | Service Name | Expected Status |
|---------------------|--------------|-----------------|
|---------------------|--------------|-----------------|

Processes

Specify which processes should be running and how many of them there should be.

Make your Process Selections ⓘ

(sd-pam) (1)

Isolated Web Co (1)

ModemManager (1)

NetworkManager (1)

Privileged Cont (1)

Socket Process (1)

Utility Process (1)

VGAAuthService (1)

Web Content (3)

| Service Description | Process Name | Thresholds (Process count) ⓘ |
|---------------------|--------------|------------------------------|
|---------------------|--------------|------------------------------|

Plugins

If you have provided plugins on the client that you would like NCPA to run, specify them and the arguments to be passed here.

Make your Plugin Selections ⓘ

check_kubernetes.sh

| Service Description | Plugin Name | Plugin Arguments ⓘ |
|---------------------|---------------------|----------------------|
| check_kubernetes.sh | check_kubernetes.sh | <input type="text"/> |

< Back

Next >

Cancel

- Once the appropriate metrics have been configured, click **Next** to proceed.

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4. In **Step 3**, complete the NCPA wizard by clicking **Finish**.

Alternatively, you can adjust the defaults in Steps 3, 4, and 5. Click **Next** after making changes in each step, then click **Finish** on Step 5.

Upon completion, Nagios XI will create the new host and services and start monitoring the system automatically. Click the **View status details for <NCPA HOST>** link to see the details.

| Host | Service | Status | Duration | Attempt | Last Check | Status Information |
|----------------|---|----------|------------|---------|---------------------|--|
| 192.168.58.140 | CPU Usage | Ok | 37m 54s | 1/5 | 2024-11-29 22:22:46 | OK: Percent was 4.40 % |
| | Disk Usage on / | Ok | 2h 35m 27s | 1/5 | 2024-11-29 22:24:13 | OK: Used disk space was 20.70 % (Used: 7.27 GiB, Free: 27.79 GiB, Total: 35.05 GiB) |
| | Disk Usage on /boot | Ok | 2h 35m 11s | 1/5 | 2024-11-29 22:24:30 | OK: Used disk space was 47.60 % (Used: 0.47 GiB, Free: 0.52 GiB, Total: 0.99 GiB) |
| | Disk Usage on /run/credentials/systemd-sysctl.service | Ok | 2h 34m 55s | 1/5 | 2024-11-29 22:19:40 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Disk Usage on /run/credentials/systemd-sysusers.service | Ok | 2h 34m 40s | 1/5 | 2024-11-29 22:19:54 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Disk Usage on /run/credentials/systemd-tmpfiles-setup-dev.service | Ok | 2h 34m 24s | 1/5 | 2024-11-29 22:20:13 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Disk Usage on /run/credentials/systemd-tmpfiles-setup.service | Ok | 2h 34m 8s | 1/5 | 2024-11-29 22:20:26 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Disk Usage on /sys/fs/bpf | Ok | 2h 33m 55s | 1/5 | 2024-11-29 22:20:53 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Disk Usage on /sys/fs/cgroup | Ok | 2h 33m 46s | 1/5 | 2024-11-29 22:20:47 | OK: Used disk space was 0.00 % (Used: 0.00 GiB, Free: 0.00 GiB, Total: 0.00 GiB) |
| | Memory Usage | Warning | 2h 29m 29s | 5/5 | 2024-11-29 22:20:08 | WARNING: Memory usage was 55.50 % (Available: 1.58 GiB, Total: 3.54 GiB, Free: 0.34 GiB, Used: 1.69 GiB) |
| | Ping | Ok | 2h 33m 10s | 1/5 | 2024-11-29 22:21:20 | OK - 192.168.58.140: rta 0.463ms lost 0% |
| | Swap Usage | Critical | 2h 29m 1s | 5/5 | 2024-11-29 22:20:36 | CRITICAL: Swap usage was 14.50 % (Used: 0.57 GiB, Free: 3.36 GiB, Total: 3.93 GiB) |
| | Total Processes | Critical | 2h 28m 42s | 5/5 | 2024-11-29 22:20:58 | CRITICAL: Process count was 272 |
| | User Count | Ok | 2h 32m 19s | 1/5 | 2024-11-29 22:22:22 | OK: Count was 2 users |
| | check_kubernetes.sh | Critical | 2m 20s | 3/5 | 2024-11-29 22:24:19 | Usage /usr/local/nagios/plugins/check_kubernetes.sh [-m <MODE>] |

Finishing Up

This completes the documentation on how to use Nagios XI to actively monitor machines via the Nagios Cross-Platform Agent (NCPA). If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

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