

# How To Monitor Devices Using NCPA In Nagios XI 2024

## Purpose

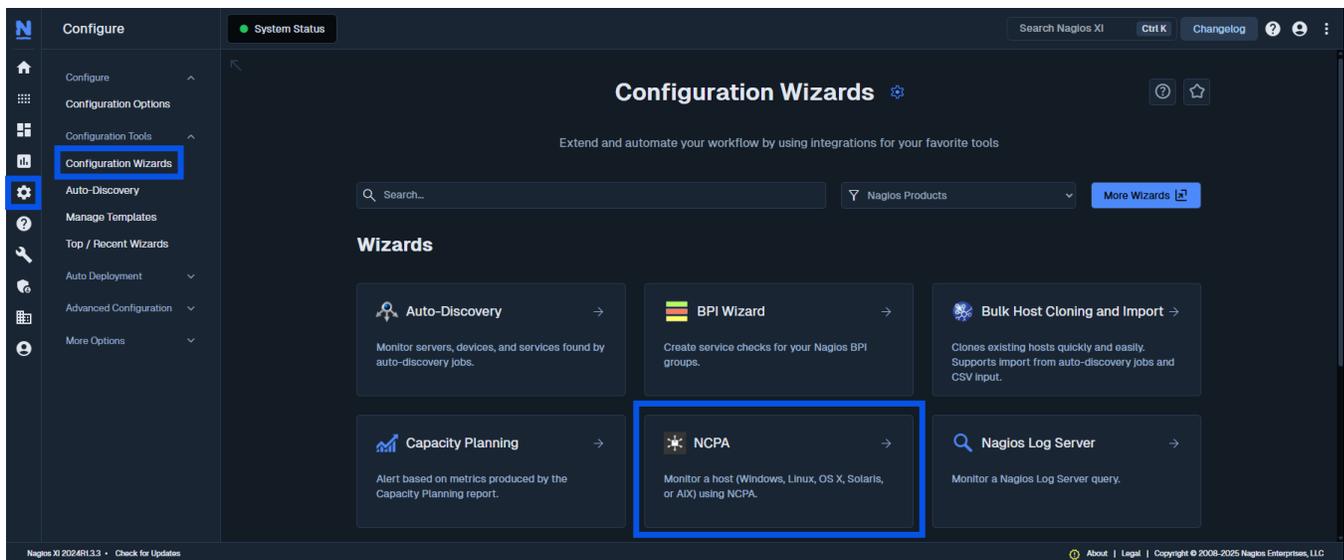
This document explains how to monitor devices using Nagios Cross-Platform Agent (NCPA) in Nagios XI. It outlines the installation, configuration, and integration steps necessary to enable seamless monitoring of devices across various platforms. It is intended for system administrators, IT professionals,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

## 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.

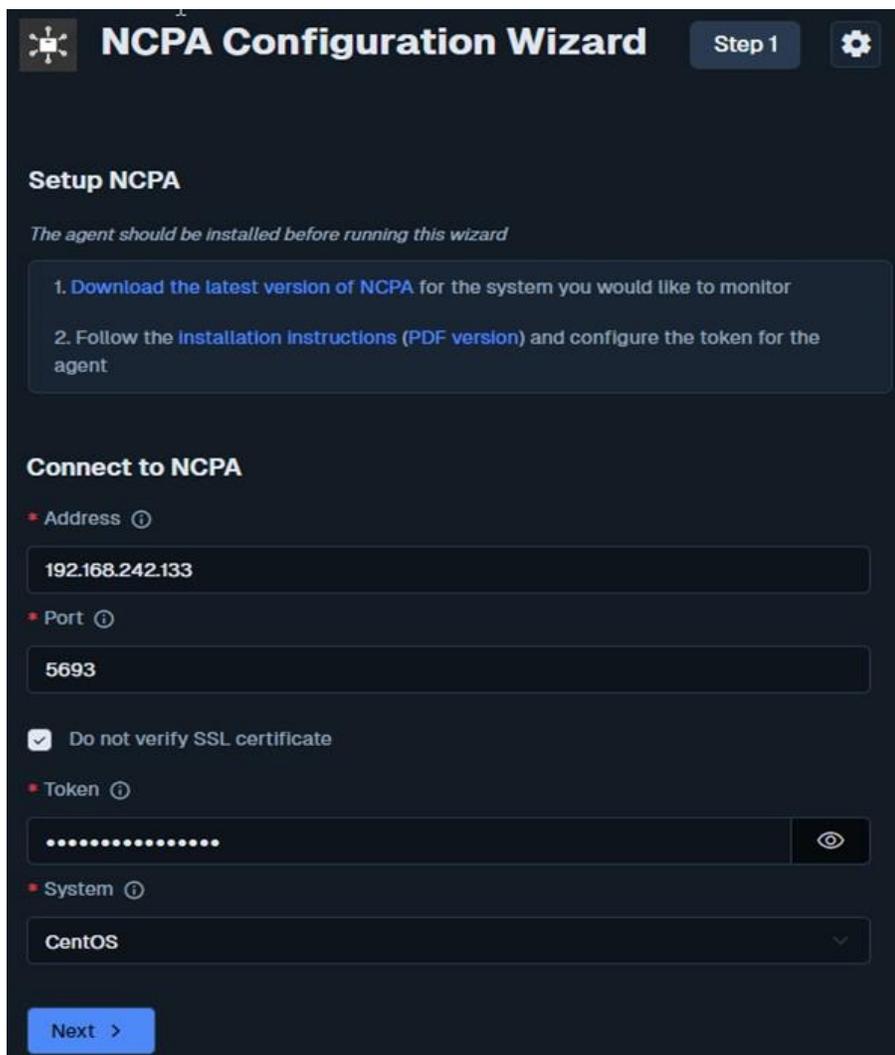
## Running The NCPA Configuration Wizard

1. To begin using the NCPA Configuration Wizard, navigate to **Configure > Configuration Wizards** and select the **NCPA** wizard.



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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.



The screenshot shows the 'NCPA Configuration Wizard' interface, specifically 'Step 1'. The title bar includes a gear icon, the text 'NCPA Configuration Wizard', 'Step 1', and another gear icon. Below the title, the section is titled 'Setup NCPA' with a sub-note: 'The agent should be installed before running this wizard'. A list of instructions follows: 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. The next section is 'Connect to NCPA', which contains several input fields: 'Address' (192.168.242.133), 'Port' (5693), a checked checkbox for 'Do not verify SSL certificate', 'Token' (masked with dots and a toggle icon), and 'System' (CentOS). A 'Next >' button is at the bottom.

**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.

- Click **Next** to proceed

The screenshot shows the 'NCPA Configuration Wizard' at 'Step 2'. The interface is dark-themed and contains several sections for configuration:

- Host Information:** Fields for Address (192.168.242.133), Host Name (localhost.localdomain), Port (5693), and System (represented by a colorful icon).
- System Metrics:** A section to 'Specify the metrics you'd like to monitor with the NCPA Agent.' It includes checkboxes for 'CPU Usage' and 'User Count'. For CPU Usage, warning and critical thresholds are set to 20% and 40% respectively, with a current value of 14.3%. A checkbox is checked for 'Show average CPU usage instead of per cpu core'. For User Count, thresholds are 2 and 4, with a current value of 0.
- Network Interface Metrics:** A section to 'Specify bandwidth limits for your network interfaces.' It shows a table with columns for Interface Name and Thresholds. The 'ens33' interface is selected with a warning threshold of 10 MB/s and a critical threshold of 100 MB/s. A link 'Show all interfaces' is present.
- Services:** A section to 'Specify which services should be running or stopped.' It features a table with columns for Service Description, Service Name, and Expected Status. A list of services is shown on the left, including ModemManager, NetworkManager, and NetworkManager-wait-online.
- Processes:** A section to 'Specify which processes should be running and how many of them there should be.' It features a table with columns for Process Description, Process Name, and Thresholds (Process count). A list of processes is shown on the left, including (sd-pam), ModemManager, NetworkManager, and VCAuthService.
- Plugins:** A section to 'If you have provided plugins on the client that you would like NCPA to run, specify them and the arguments to be passed here.' It features a table with columns for Plugin Description, Plugin Name, and Plugin Arguments.

At the bottom of the wizard, there are '< Back' and 'Next >' buttons.

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

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.

**NCPA Configuration Wizard** Step 3

**Monitoring Settings**  
Define basic parameters that determine how the host and service(s) should be monitored.

Under normal circumstances: Monitor the host and service(s) every  minutes

When a potential problem is first detected: Re-check the host and service(s) every  minutes up to  times before sending a notification

< Back Next > Finish with Defaults Cancel

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.

Showing 1-13 of 13 total records

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| Host                  | Service             | Status | Duration | Attempt | Last Check          | Status Information   |
|-----------------------|---------------------|--------|----------|---------|---------------------|--|
| localhost.localdomain | CPU Usage           | OK     | 13s      | 1/5     | 2024-03-24 20:29:15 | OK: Percent was 4.00 %   |
|                       | Disk Usage on /     | OK     | N/A      | 1/5     | 2024-03-24 20:28:40 | OK: Used disk space was 45.88 % (Used: 7.79 GiB, Free: 9.28 GiB, Total: 16.99 GiB) |
|                       | Disk Usage on /boot | OK     | N/A      | 1/5     | 2024-03-24 20:29:05 | OK: Used disk space was 45.88 % (Used: 0.45 GiB, Free: 0.54 GiB, Total: 0.99 GiB)  |

## Finishing Up

This completes the documentation on how to monitor devices using NCPA in 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](#)

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