Purpose

This document describes how to use Nagios XI to actively monitor machines via the Nagios Cross Platform Agent (NCPA). NCPA is an advanced, cross-platform agent that can be installed on Windows / Linux / AIX / Mac OS X machines.
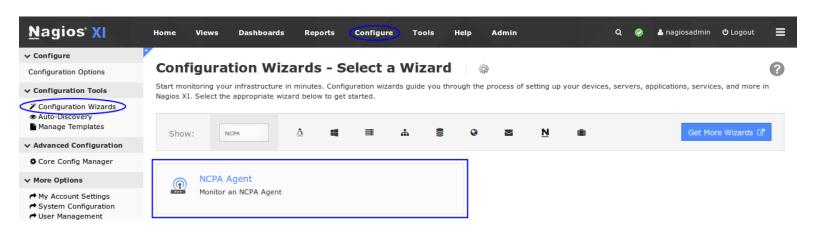
Target Audience

This document is intended for use by both Nagios administrators and users who wish to use NCPA.

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 Agent Wizard

To begin using the NCPA Agent wizard navigate via the top menu bar to **Configure** > **Run a configuring wizard** and select the **NCPA Agent** wizard. In the following screenshot you can see how the search field allows you to quickly find a wizard.

Step 1

Type the **address** of the host you want to monitor.

You can specify the port number if you have changed it from the default of `5693`.

Type the **Token** you are using on the NCPA agent.

Click **Next**.

When you click Next the Token will be validated, if it is not correct you will not be able to proceed to the next step of the wizard.

Step 2

On this step you will configure all of the options for monitoring. In the screenshot to the right you can see the options available.

To start off with make sure a valid **Host Name** has been entered.

Select the metrics that you'd like to monitor. You can adjust the warning and critical thresholds for each metric to suit your needs.

Configuration Wizard: NCPA Agent - Step 1

NCPA Agent

Specify the connection details of the NCPA agent.

Address: 10.25.14.3
The IP address or FQDNS name of the NCPA Agent.

Port: 5693
Defaults to port 5693.

Token: T0k3n
Authentication token used to connect to the NCPA Agent.

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Configuration Wizard: NCPA Agent - Step 2

NCPA Agent Information

Address: 10.25.14.3

Host Name: 10.25.14.3
The name you'd like to have associated with this NCPA Agent.

Port: 5693

Token: T0k3n

CPU Metrics

Specify the metrics you'd like to monitor on the NCPA Agent.

⊠ **CPU Usage**
Check the CPU usage of the system.
⚠ 20 % ❗ 40 %

Memory Metrics

⊠ **Main Memory Usage**
Monitor the main memory of the system. This metric is the percentage of main memory used.
⚠ 50 % ❗ 80 %

⊠ **Swap Usage**
Monitor the percentage of allocated swap used by the system.
⚠ 50 % ❗ 80 %

Disk Metrics

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

⊠ E:\   ⚠ 70 % ❗ 90 %

⊠ C:\   ⚠ 70 % ❗ 90 %

The screenshot to the right shows the metrics that could not be shown on the previous page.

You can adjust the warning and critical thresholds for each metric to suit your needs.

Click **Next** once you have selected all the required options.

Network Interface Metrics

Specify reasonable bandwidths for your network interfaces. Note that these measurements are in megabits.

Local Area Connection   ⚠ 10 Mb   ❗ 100 Mb

Services

Specify which services should be running or stopped. Depending on the selected state you will recieve an OK when the process is in the selected state and a CRITICAL if the process is not in the state selected.

Service Name   Expected Status

Spooler   ◉ Running ◯ Stopped

Add Another Service Check

Running Processes

Specify which processes should be running, and how many should be.

Process Name	Display Name	Warning #	Critical #
		60	100

Add Another Process Check

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Complete the wizard by choosing the required options in Step 3 – Step 5.

To finish up, click on **Finish** in the final step of the wizard. This will create the new host and services and begin monitoring.

Once the wizard applies the configuration, click the **View status details for <*NCPA HOST*>** link to see the new service that was created.

Host	Service		Status	Duration	Attempt	Last Check	Status Information
10.25.14.3	CPU Usage		Ok	35s	1/5	2016-12-02 17:02:05	OK: percent was 1%
	Disk Usage on C:/		Ok	35s	1/5	2016-12-02 17:02:05	OK: used_percent was 32%
	Disk Usage on E:/		Ok	35s	1/5	2016-12-02 17:02:05	OK: used_percent was 0%
	Inbound Bandwidth on Local Area Connection		Warning	13s	1/5	2016-12-02 17:02:05	WARNING: bytes_recv was 14Mb/sec
	Main Memory Usage		Ok	1m 43s	1/5	2016-12-02 17:02:05	OK: percent was 43%
	Outbound Bandwidth on Local Area Connection		Ok	13s	1/5	2016-12-02 17:02:05	OK: bytes_sent was 0Mb/sec
	Service Status: Spooler		Ok	1m 1s	1/5	2016-12-02 17:02:05	OK: Service Spooler is running
	Swap Usage		Ok	35s	1/5	2016-12-02 17:02:05	OK: percent was 25%

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 Forums:

https://support.nagios.com/forum

The Nagios Support Knowledgebase is also a great support resource:

https://support.nagios.com/kb