

How To Monitor Linux using NRPE in Nagios XI 2024

Purpose

This document describes how to monitor Linux hosts with Nagios XI by using the Nagios Remote Plugin Executor (NRPE) and the Linux Server configuration wizard.

Target Audience

This document is intended for Nagios XI administrators who want to monitor Linux distributions using the custom Nagios XI NRPE agent, it is tailored specifically for the Linux Server configuration wizard.

Overview

Nagios Enterprises provides a custom distribution of the NRPE agent and Nagios Plugins for Linux, this greatly simplifies the steps involved to start monitoring your Linux machines. The agent is configured ready to be used with the Nagios XI Legacy Linux Server configuration wizard, all you need to do is run the wizard and select which options you want to monitor.

If the Legacy Linux Server configuration wizard does not meet your needs and you would like to customize your monitoring configurations with NRPE and Nagios XI there is a separate NRPE configuration wizard. Please refer to the following documentation:

[Monitoring Hosts Using NRPE and NRPE Monitoring Wizard](#)

You should also refer to that documentation if you require a more detailed understanding how NRPE works.

Requirements

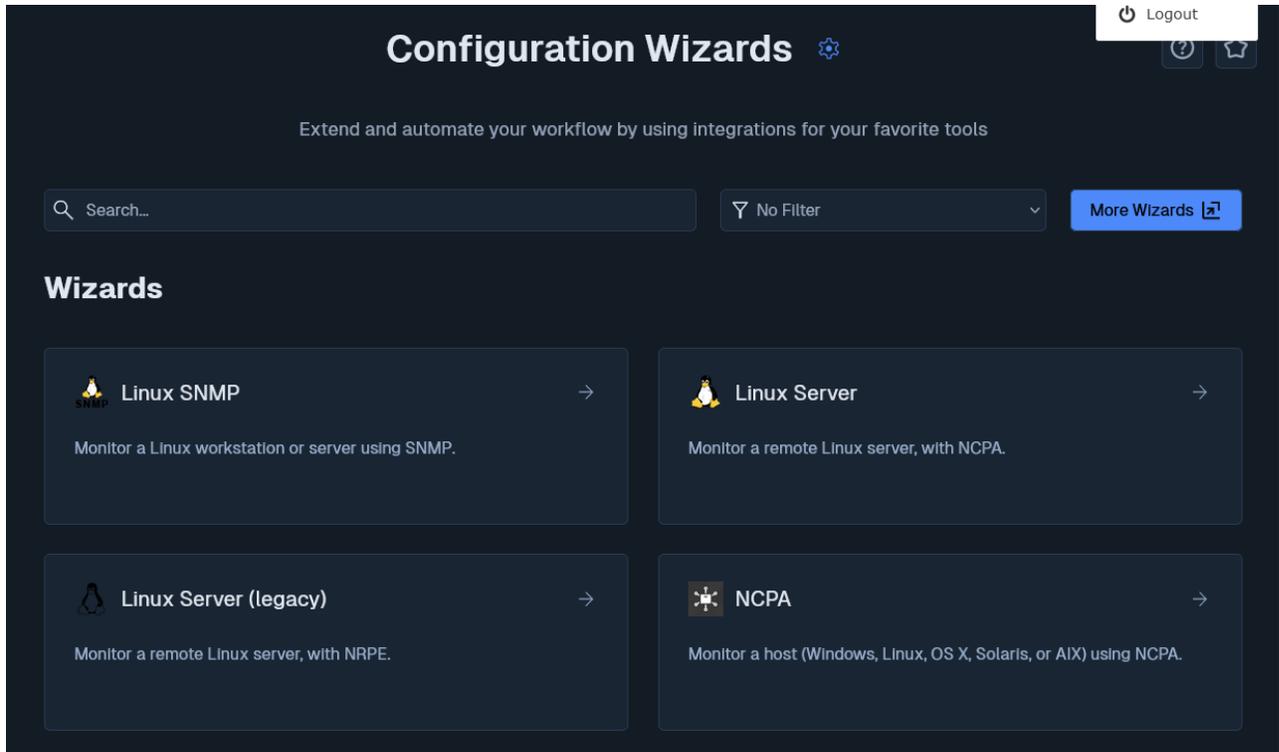
The Linux NRPE Agent needs to be installed on each Linux machine you want to monitor in Nagios XI. Please refer to the following documentation to install the agent:

[Installing The Linux NRPE Agent](#)

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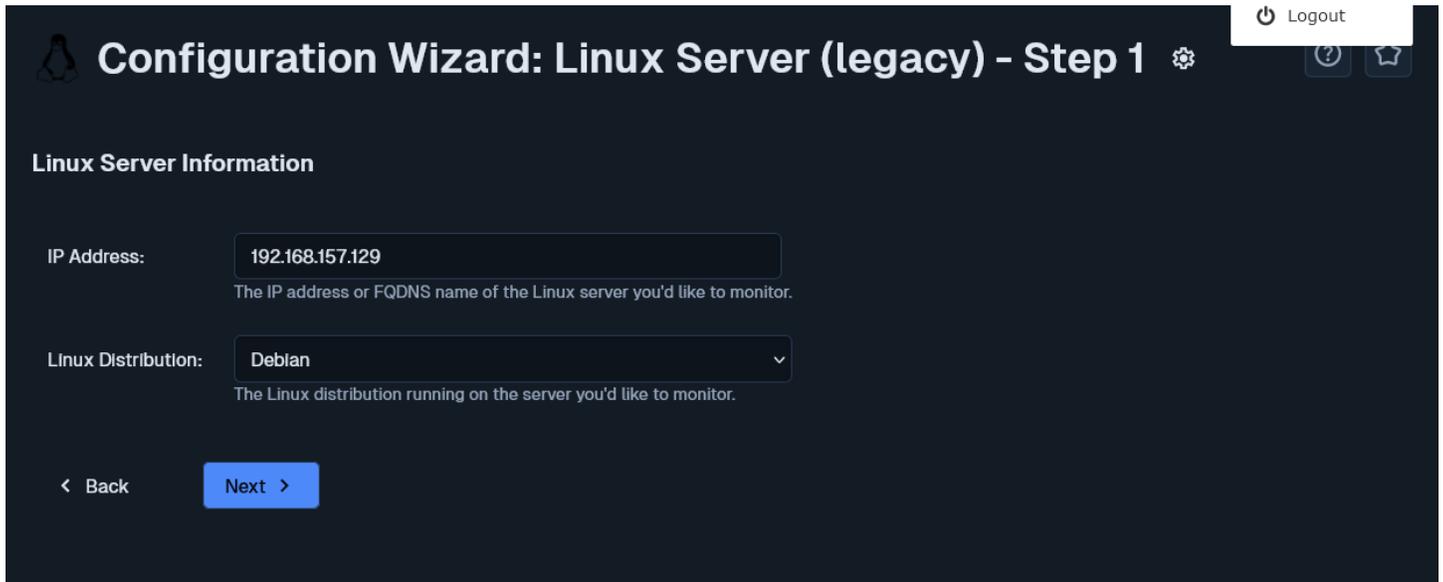
Using The Linux Server (Legacy) Wizard

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



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2. On **Step 1** you will be asked to supply the address of the machine running the NRPE agent.
3. You will also have to select the Linux Distribution, and in this case, it is Debian.



The screenshot shows the 'Configuration Wizard: Linux Server (legacy) - Step 1' interface. At the top right, there is a 'Logout' button. Below the title, there are navigation icons for back, forward, and search. The main section is titled 'Linux Server Information' and contains two input fields. The first field is 'IP Address:' with the value '192.168.157.129' and a subtext 'The IP address or FQDNS name of the Linux server you'd like to monitor.' The second field is 'Linux Distribution:' with a dropdown menu showing 'Debian' and a subtext 'The Linux distribution running on the server you'd like to monitor.' At the bottom left, there is a '< Back' link and a blue 'Next >' button.

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4. Click **Next** to progress to **Step 2**.

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Configuration Wizard: Linux Server (legacy) - Step 2

Linux Server Details

IP Address:

Operating System:  Debian

Host Name:
The name you'd like to have associated with this Linux server.

Linux Agent

You will need to install an agent on the Linux server in order to monitor its metrics.

Agent Download: [Download Agent](#)

Agent Install Instructions: [Agent Installation Instructions](#)

SSL Encryption:
Determines whether or not data between the Nagios XI server and Linux agent is encrypted.
Note: Legacy NRPE installations may require that SSL support be disabled.

Server Metrics

Specify which services you'd like to monitor for the Linux server.

Ping

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5. On **Step 2** you will configure all of the options for monitoring.
6. To start off with make sure a valid Host Name has been entered.
The Linux Agent section can be ignored because you have already installed it.
7. Select the server metrics you wish to monitor and adjust the thresholds as required.
8. The **Disk Usage** checks allow you to add the disks you wish to monitor, adjust the thresholds as required.
9. With the **Services** checks, select any of the predefined services in the list or add your own.

The screenshot displays the Nagios XI configuration interface for monitoring services and processes. It is divided into two main sections: 'Services' and 'Processes'.

Services Section:

- Header: **Services**
- Instruction: Specify any services normally started by the Init process that should be monitored to ensure they're in a running state.
- Table:

Init.d Service	Display Name
<input checked="" type="checkbox"/> ssh	SSH Server
<input checked="" type="checkbox"/> cron	Cron Scheduling Daemon
<input type="checkbox"/> rsyslog	System Logging Daemon
<input type="checkbox"/> apache2	Apache Web Server
<input type="checkbox"/> mysql	MySQL Server
<input type="checkbox"/> sendmail	Sendmail Mail Transfer Agent
<input type="checkbox"/> dovecot	Dovecot Mail Server

Processes Section:

- Header: **Processes**
- Instruction: Specify any process names that should be monitored to ensure they're running.
- Table:

Linux Process	Display Name
<input type="checkbox"/> sendmail	Sendmail

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10. With the **Processes** checks, select any of the predefined services in the list or add your own.

Processes

Specify any process names that should be monitored to ensure they're running.

Linux Process	Display Name
<input type="checkbox"/> sendmail	Sendmail
<input type="checkbox"/>	

[Add Row](#) | [Delete Row](#)

[< Back](#) [Next >](#)

11. Once you've finished selecting all the items you wish to monitor click **Next** and then complete the wizard by choosing the required options in **Step 3 - Step 5**.

12. To finish up, click on **Finish** in the final step of the wizard. This will create the new hosts and services and begin monitoring. Once the wizard applies the configuration, click the **View status details for <your host>** link to see the new host and services that were created.

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Here is an example of the services that were created when using the Linux Server wizard:

Host ↓	Service ↓	Status ↓	Duration ↓	Attempt ↓	Last Check ↓	Status Information ↓
jdm-ubuntu24	/ Disk Usage	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:40:29
	APT Updates	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:41:07
	Available Memory	Critical	1d 9h 35m 12s	5/5	2024-11-24 20:34:56	CRITICAL - Plugin timed out while executing system call
	CPU Stats	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:41:44
	Cron Scheduling Daemon	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:42:22
	Load	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:42:59
	Memory Error	Critical	18h 4m 41s	5/5	2024-11-24 20:35:06	CRITICAL - Plugin timed out while executing system call
	Memory Usage	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:43:37
	Open Files	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:44:14
	Ping	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:44:52
	SSH Server	Pending	N/A	1/5	N/A	Service check is pending... Check is scheduled for 2024-11-24 20:40:35

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More Information:

[Using Configuration Wizards](#)

Finishing Up

This completes the documentation on how to monitor Linux in Nagios XI using NRPE. 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](#)