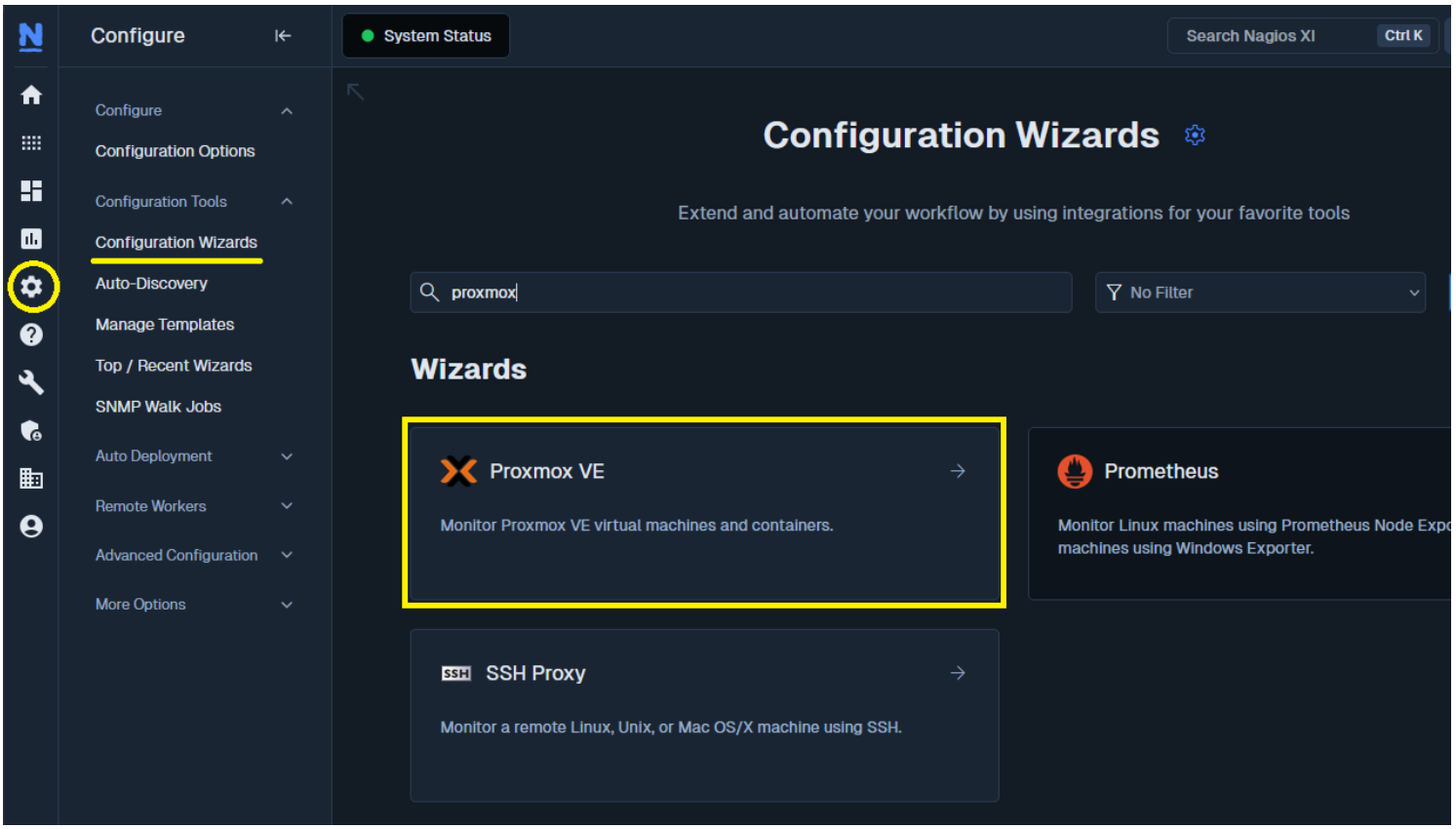
How To Monitor Proxmox VE With Nagios XI 2026

Purpose

This document describes how to use the Proxmox VE configuration wizard in Nagios XI **2026R1.3+** to monitor server/cluster and virtual machine/container metrics such as CPU, Memory, and Storage Usage, Backup Status, Cluster Health, Log Errors, and Task Errors.

Finding the Wizard

To begin, navigate to **Configure > Configuration Wizards**, search for `proxmox`, and click the **Proxmox VE** wizard:



Installing Prerequisites

Before you can proceed, you'll need to install the necessary Python libraries. To do so, run the following command from the terminal of your Nagios XI server as `root`:

CentOS | Oracle | RHEL | Debian 11 | Ubuntu 22

```
pip3 install proxmoxer
```

Debian 12 | Ubuntu 24

```
pip3 install proxmoxer --break-system-packages
```

RHEL 8 RPM & Offline

If you installed XI on RHEL 8 via RMP or using the offline method, first ensure that Python 3.9 is installed, and create a symlink between python3 and python 3.9. Then run the following commands:

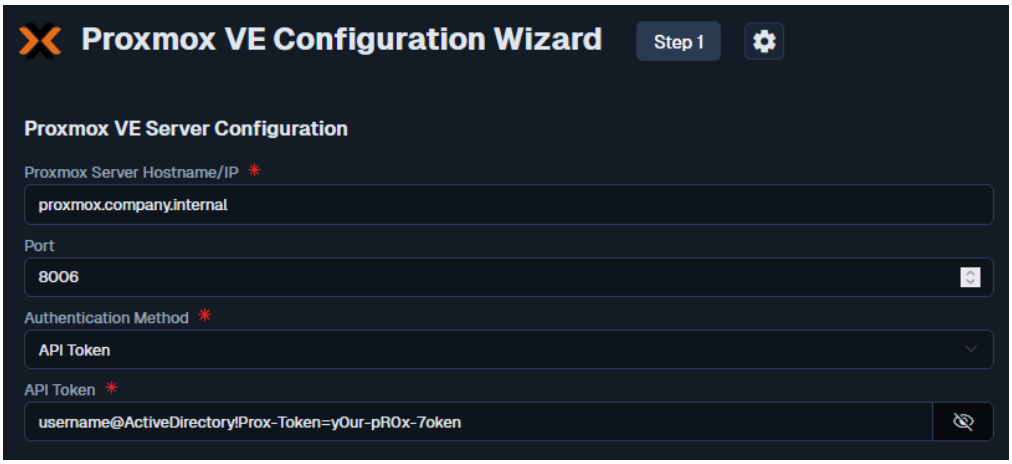
```
python3.9 -m pip install urllib3
python3.9 -m pip install requests
python3.9 -m pip install --upgrade proxmoxer
```

Once the prerequisites are installed, you will be able to proceed to **Step 1** of the wizard.

Using the Wizard

Wizard Step 1

In **Step 1**, enter the connection and authentication details for your Proxmox server.



In the **ProxMox Server Hostname/IP** field, enter the hostname or IP address used to connect to your Proxmox server.

In the **Port** field, enter the port used to connect to the Proxmox server, if it is different than the default `8006`.

There are two options available for **Authentication Method**:

- **API Token**: the format for the data you'll enter in the **API Token** field is:

  ```
  user@realm!tokenid=secret
  ```

  Example:

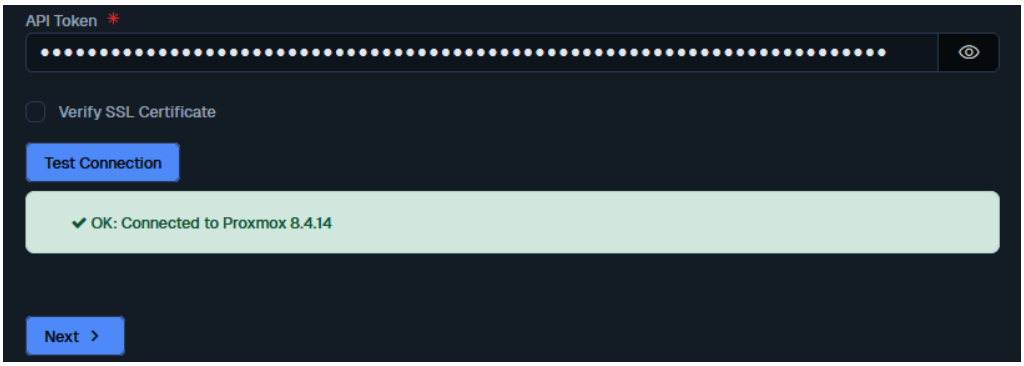
  ```
  johnsmith@ActiveDirectory!Monitoring-Token=5oMe-L0nG-7oken
  ```

  *Note that the **Privilege Separation** checkbox in your Token settings in Proxmox can effect what metrics your key can access.*

- **Username/Password**: simply enter your Proxmox login details.

You can also choose whether or not to **Verify SSL Certificate** using the checkbox.

Once you've entered your server configuration details, click the **Test Connection** button. If all is well, you'll see a success confirmation:

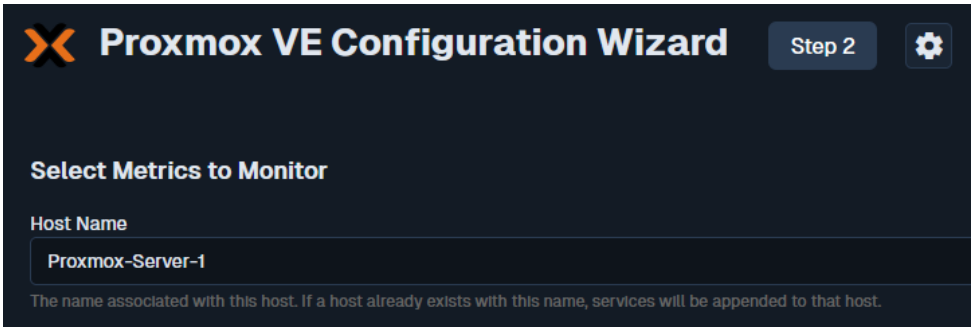


Click **Next** to proceed to Step 2.

Wizard Step 2

In **Step 2**, you will define the Server and VM metrics and thresholds for your checks, and choose which VMs to monitor.

First, define a **Host Name** for the Proxmox Server. This is the friendly name it will be identified as in the XI user interface. If you're re-running the wizard to add or modify checks, you can use an existing Host Name to employ the additive property of wizards.



In the **Proxmox Server/Cluster Metrics** section, choose which metrics to monitor on the Server:

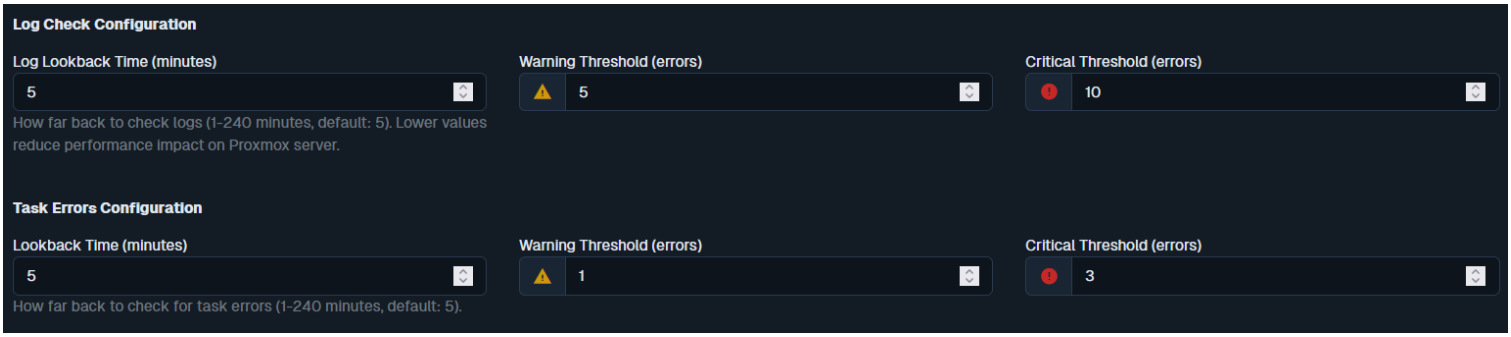
Proxmox Server/Cluster Metrics

These metrics are applied to the Proxmox server/cluster host

Select All | Select None

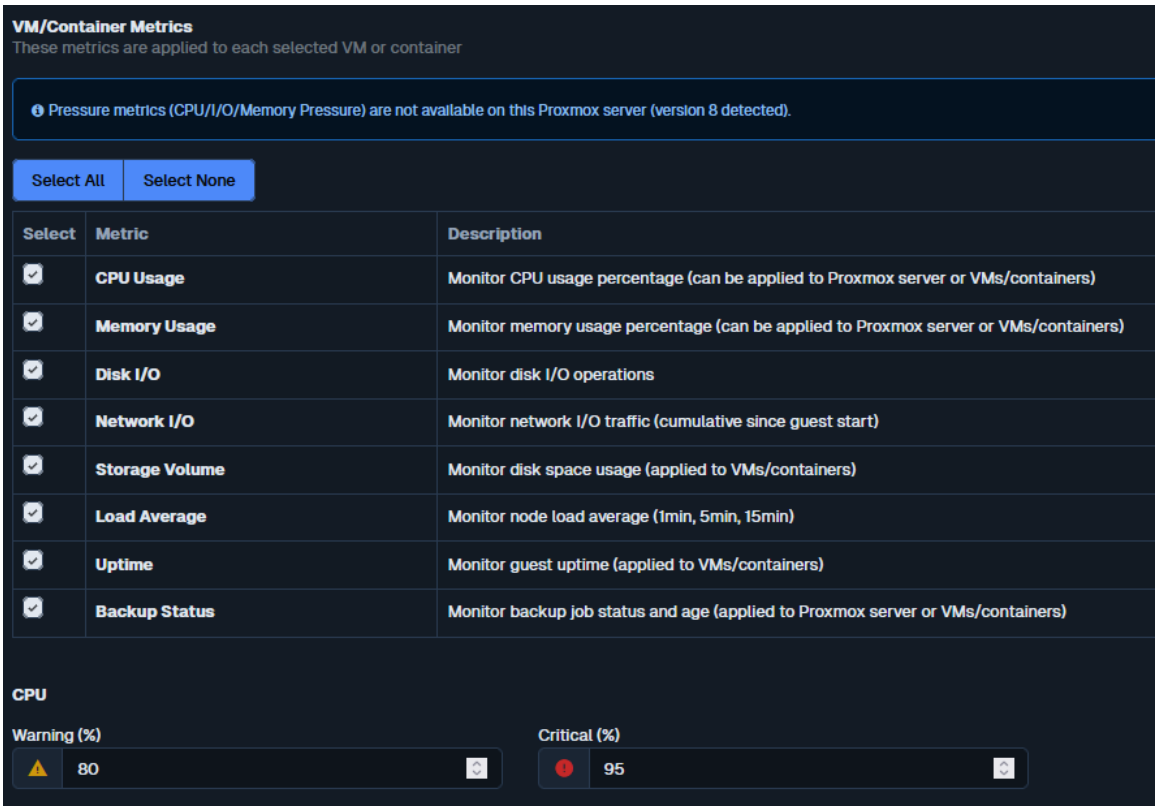
Select	Metric	Description
☑	**CPU Usage**	Monitor CPU usage percentage (can be applied to Proxmox server or VMs/containers)
☑	**Memory Usage**	Monitor memory usage percentage (can be applied to Proxmox server or VMs/containers)
☑	**Storage Usage**	Monitor storage pool usage (applied to Proxmox server)
☑	**Backup Status**	Monitor backup job status and age (applied to Proxmox server or VMs/containers)
☑	**Cluster Health**	Monitor cluster quorum and node status (applied to Proxmox server)
☑	**Log Errors**	Monitor Proxmox system logs for errors and warnings (applied to Proxmox server)
☑	**Task Errors**	Monitor Proxmox task errors (applied to Proxmox server)

Note that as you click the checkboxes, new sections will populate below this section where you'll define the Warning and Critical thresholds for the enabled service checks. Of particular note is the **Log Check Configuration** check, where the larger the Lookback Time chosen, the larger the impact on the performance of your ProxMox server.



In the **VM/Container Metrics** section, decide which checks to run on the individual VMs you'll choose to monitor later in Step 2.

As with the Server checks, new sections will populate below where alert threshold can be entered for the enabled service checks.



Finally in Step 2, use the **Select VMs and Containers to Monitor** section to choose which VMs and Containers you'd like to check:

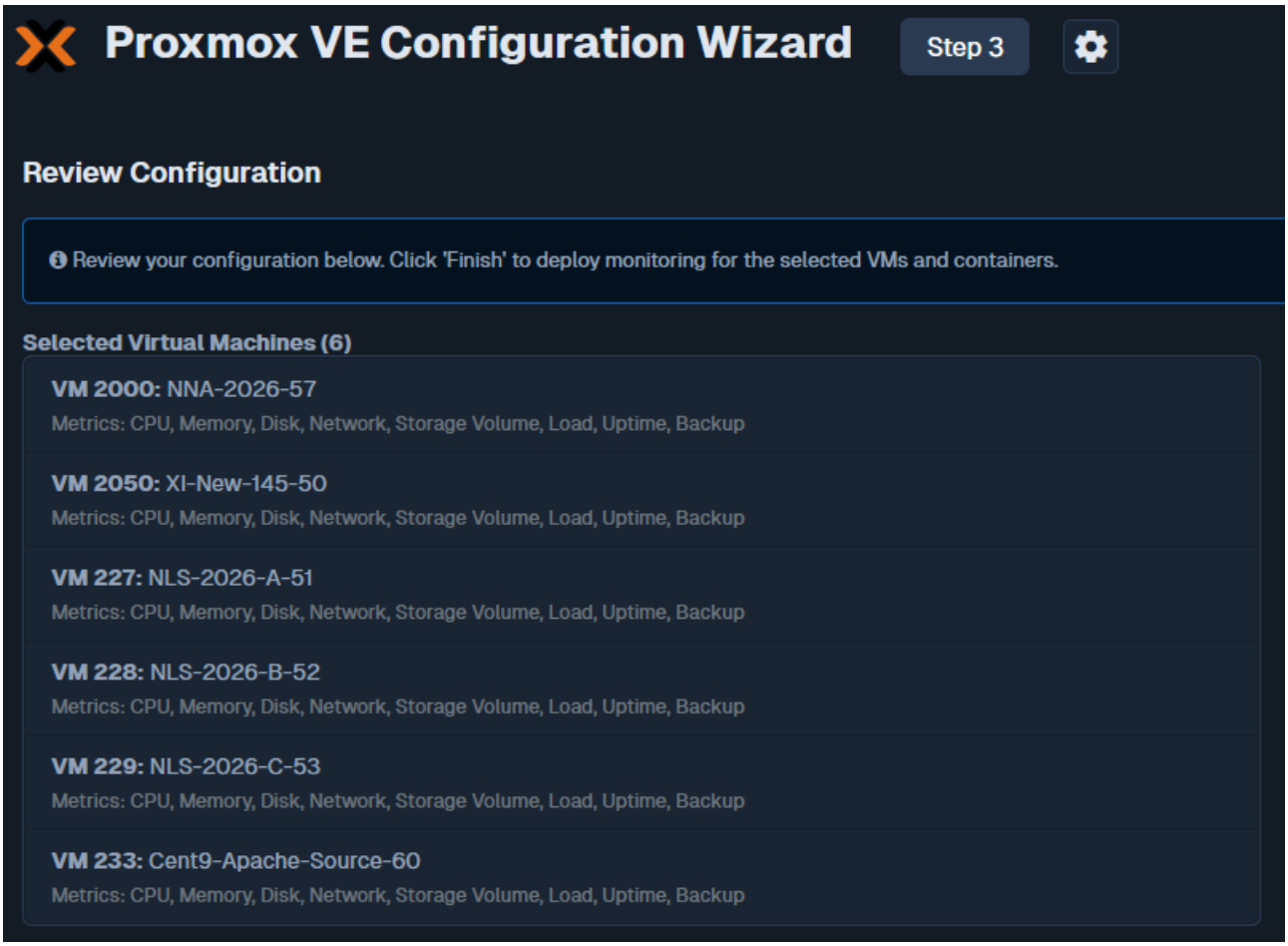
Note the following:

- Each VM will be monitored as an individual host object, rather than as a service on the Proxmox Server host.
- The **Name** field determines the Host Name, so can be left as the automatically populated Name from Proxmox, or changed to whatever will make the VM easiest for you to identify in the XI UI.
- The **IP/Hostname** field should auto-populate for VMs that use QEMU/KVM. If it does not, it must be entered. Without a valid IP/Hostname, the ping check to determine host alive will not work.

Once you've made your selections, click Next to proceed to **Step 3**.

Wizard Steps 3-5

At the top of **Step 3**, you'll see a **Review Configuration** section with a summary of your Step 2 selections:



If all looks well, you can proceed to define common monitoring settings as usual in **Steps 3-5**. If you need to make changes before proceeding, click the **Back** button.

You can learn more about the common wizard steps and settings here:

[Understanding and Using Configuration Wizards in Nagios XI]

Once you're finished, click the **Finish** button.

After the configuration applies, you'll be able to view the status of the new objects:

Server

Proxmox Server	CPU Usage	Ok	N/A	1/5	2026-03-10 12:02:55	OK: Node CPU usage is 0.00%
	Cluster Health	Critical	3m 9s	4/5	2026-03-10 12:05:50	CRITICAL: No cluster quorum (nodes online: 1/1)
	Log Errors	Ok	N/A	1/5	2026-03-10 12:02:55	OK: No errors in last 1m
	Memory Usage	Ok	N/A	1/5	2026-03-10 12:02:55	OK: Node memory usage is 42.24% (957.64GB / 2267.25GB)
	Storage Pool: FileVMs	Ok	N/A	1/5	2026-03-10 12:02:55	OK: Storage usage is 1.73% (2275.35GB / 131246.26GB)
	Task Errors	Ok	N/A	1/5	2026-03-10 12:02:55	OK: No task errors in last 1m

VM

Apache-Webserver	CPU Usage	Ok	1h 0m 7s	1/5	2026-03-10 12:05:32	OK: CPU usage is 0.00%
	Disk I/O	Critical	55m 24s	5/5	2026-03-10 12:05:23	CRITICAL: Disk I/O - Read: 610.75MB, Write: 67291.12MB, Total: 67901.87MB
	Memory Usage	Ok	58m 13s	1/5	2026-03-10 12:07:34	OK: Memory 46.3%
	Network I/O	Critical	53m 27s	5/5	2026-03-10 12:07:22	CRITICAL: Network I/O - In: 119247.76MB, Out: 13447.70MB, Total: 132695.46MB
	Storage Volume	Ok	56m 57s	1/5	2026-03-10 12:08:50	OK: Disk 0.0%
	Uptime	Ok	56m 16s	1/5	2026-03-10 12:09:35	OK: Guest uptime 96.8d (2322.6h)

Finishing Up

This completes the documentation on Monitoring Proxmox with Nagios XI. If you have additional questions or other support-related questions, please visit the Nagios Support Forum, Nagios Documentation Hub, or Nagios Library:

Visit Nagios Support Forum Visit Documentation Hub Visit Nagios Library