

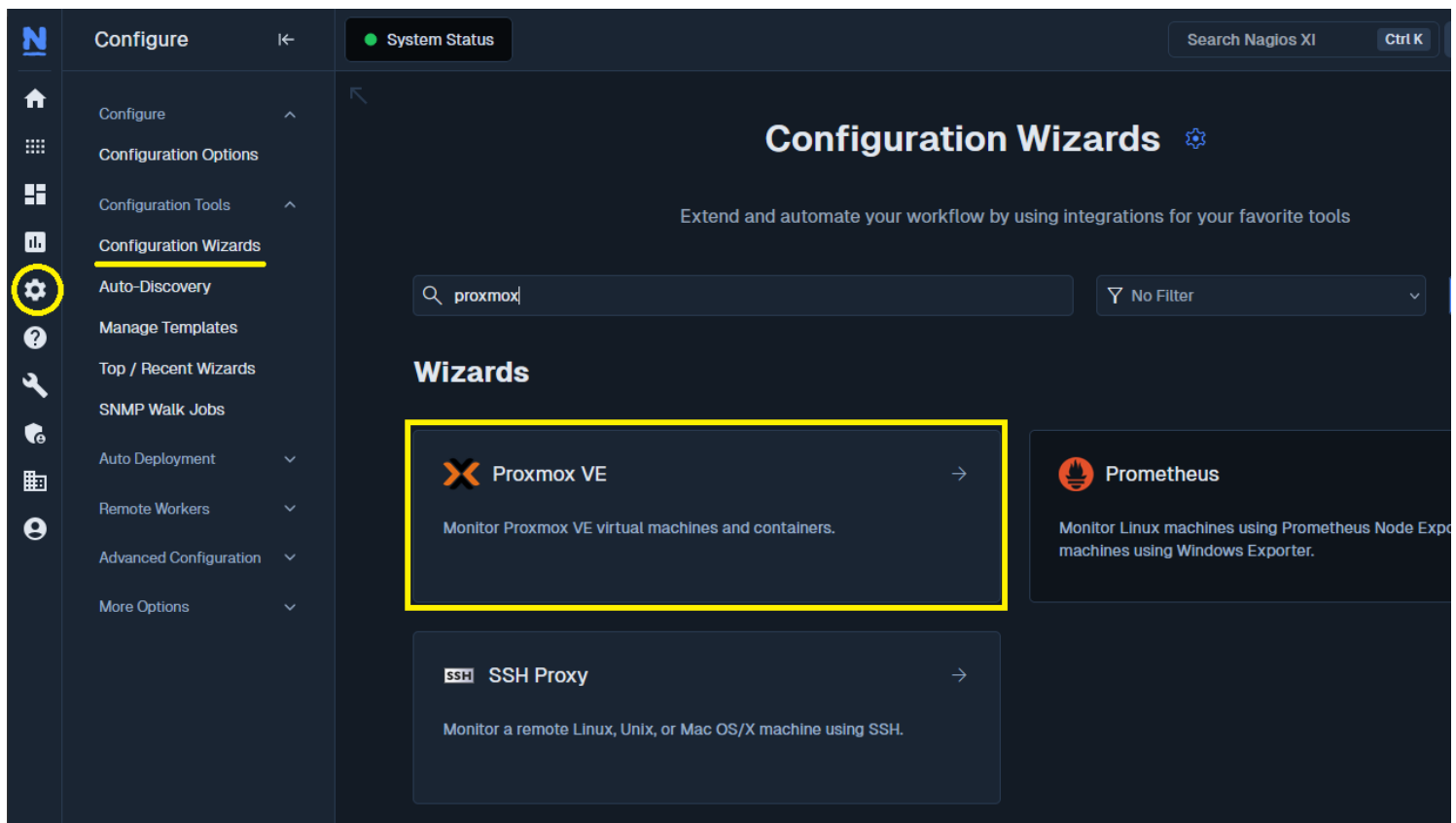
How To Monitor Proxmox VE With Nagios XI 2026

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:



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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:

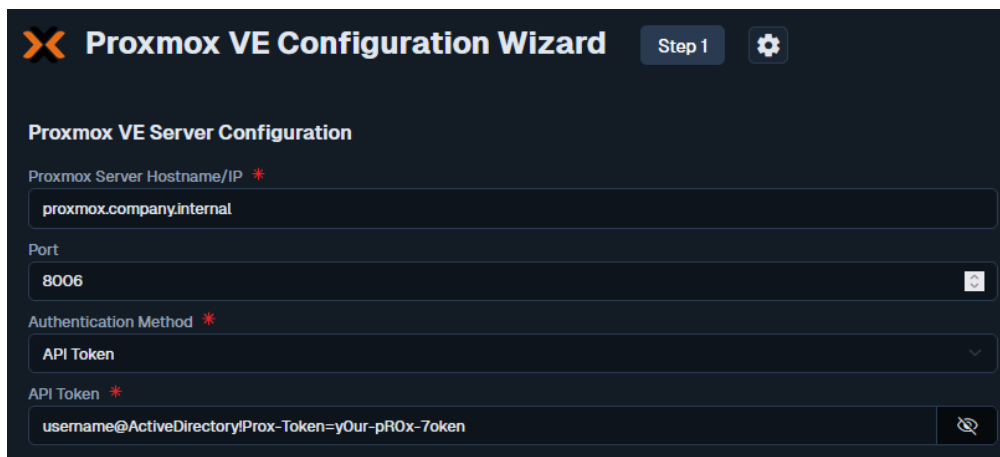
```
python3.9 -m pip install urllib3
python3.9 -m pip install requests
python3.9 -m pip install --upgrade proxmoxer
```

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.



Proxmox VE Configuration Wizard Step 1

Proxmox VE Server Configuration

Proxmox Server Hostname/IP *
proxmox.company.internal

Port
8006

Authentication Method *
API Token

API Token *
username@ActiveDirectory!Prox-Token=yOur-pR0x-Token

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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:

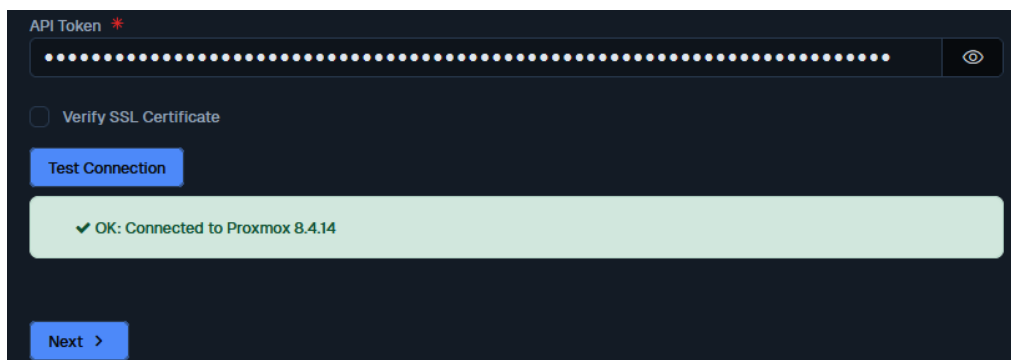
```
johnsmith@ActiveDirectory!Monitoring-Token=5oMe-L0nG-7oken
```

*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:



The screenshot shows a configuration form for Proxmox. At the top, there is a field labeled "API Token" with a red asterisk, containing a masked password. Below it is a checkbox labeled "Verify SSL Certificate" which is unchecked. A blue "Test Connection" button is visible. Below the button, a green success message reads "✓ OK: Connected to Proxmox 8.4.14". At the bottom left, there is a blue "Next >" button.

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

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Wizard Step 2

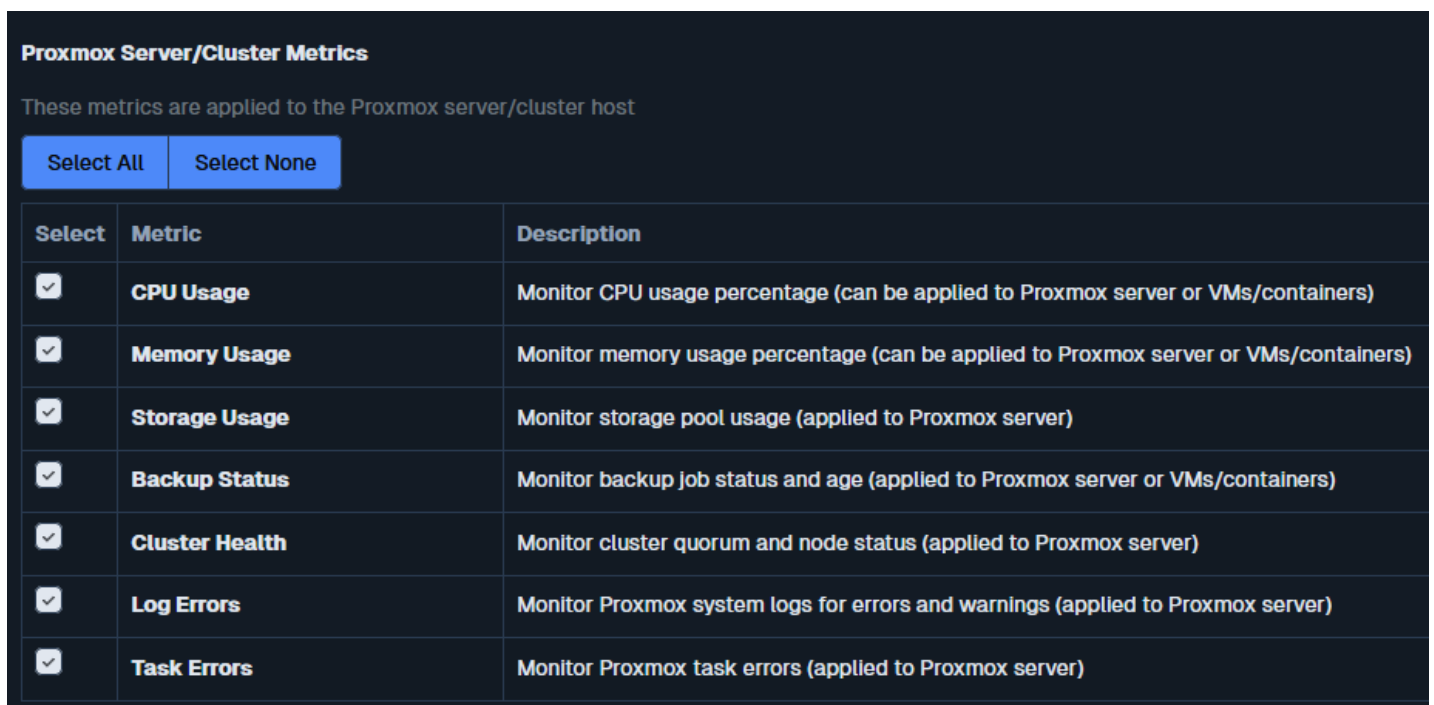
In **Step 2**, you will define the Server and VM metrics and thresholds for your checks, and choose which VMs to monitor.

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.



The screenshot shows the 'Proxmox VE Configuration Wizard' at 'Step 2'. The main heading is 'Select Metrics to Monitor'. Below this, there is a 'Host Name' field with the value 'Proxmox-Server-1'. A small note below the field states: 'The name associated with this host. If a host already exists with this name, services will be appended to that host.'

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



The screenshot shows the 'Proxmox Server/Cluster Metrics' configuration screen. It includes a sub-header 'Proxmox Server/Cluster Metrics' and a note: 'These metrics are applied to the Proxmox server/cluster host'. There are two buttons: 'Select All' and 'Select None'. Below is a table with columns 'Select', 'Metric', and 'Description'. All metrics are selected with checkboxes.

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

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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.

Log Check Configuration

Log Lookback Time (minutes): 5
Warning Threshold (errors): 5
Critical Threshold (errors): 10

How far back to check logs (1-240 minutes, default: 5). Lower values reduce performance impact on Proxmox server.

Task Errors Configuration

Lookback Time (minutes): 5
Warning Threshold (errors): 1
Critical Threshold (errors): 3

How far back to check for task errors (1-240 minutes, default: 5).

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.

VM/Container Metrics
These metrics are applied to each selected VM or container

Pressure metrics (CPU/I/O/Memory Pressure) are not available on this Proxmox server (version 8 detected).

Select All | Select None

Select	Metric	Description
<input checked="" type="checkbox"/>	CPU Usage	Monitor CPU usage percentage (can be applied to Proxmox server or VMs/containers)
<input checked="" type="checkbox"/>	Memory Usage	Monitor memory usage percentage (can be applied to Proxmox server or VMs/containers)
<input checked="" type="checkbox"/>	Disk I/O	Monitor disk I/O operations
<input checked="" type="checkbox"/>	Network I/O	Monitor network I/O traffic (cumulative since guest start)
<input checked="" type="checkbox"/>	Storage Volume	Monitor disk space usage (applied to VMs/containers)
<input checked="" type="checkbox"/>	Load Average	Monitor node load average (1min, 5min, 15min)
<input checked="" type="checkbox"/>	Uptime	Monitor guest uptime (applied to VMs/containers)
<input checked="" type="checkbox"/>	Backup Status	Monitor backup job status and age (applied to Proxmox server or VMs/containers)

CPU

Warning (%): 80
Critical (%): 95

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

Select VMs and Containers to Monitor

Virtual Machines

Select All Select None

Select	VM ID	Name	Status	IP / Hostname
<input type="checkbox"/>	103	Kubernetes-A-BK	STOPPED	unknown
<input type="checkbox"/>	148	Kubernetes-B-BK	STOPPED	unknown
<input type="checkbox"/>	173	Webserver-1-BK	STOPPED	unknown
<input type="checkbox"/>	190	Webserver-2-BK	STOPPED	unknown
<input checked="" type="checkbox"/>	2000	Network-Analyzer-2026-Prod	RUNNING	192.168.145.57

Note the following:

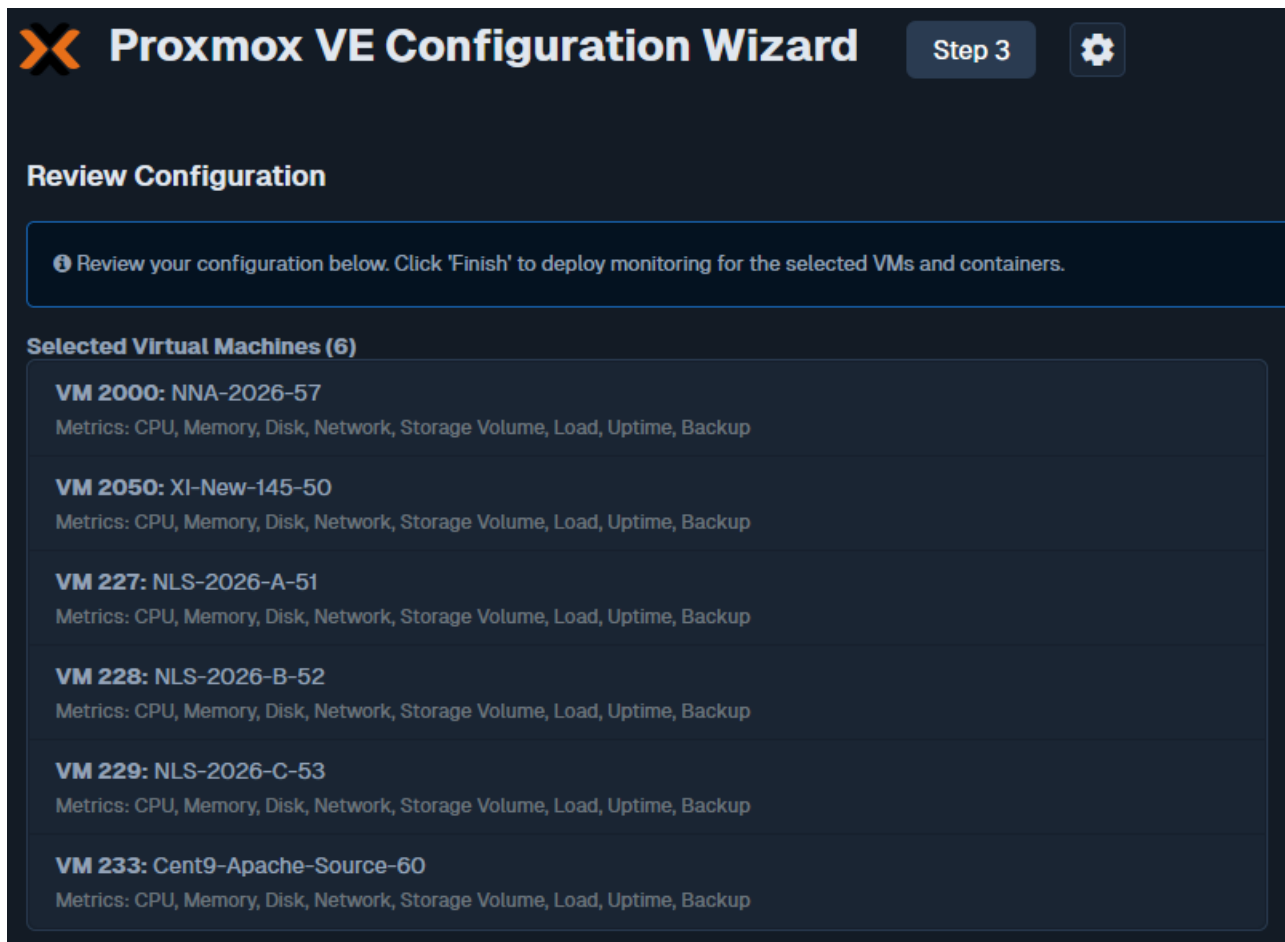
- Each VM will be monitored as an individual host object, rather than as a service on the Proxmox Server host.
- The **Name** field determines the Host Name, so can be left as the automatically populated Name from Proxmox, or changed to whatever will make the VM easiest for you to identify in the XI 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**.

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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:



Proxmox VE Configuration Wizard Step 3

Review Configuration

Review your configuration below. Click 'Finish' to deploy monitoring for the selected VMs and containers.

Selected Virtual Machines (6)

- VM 2000: NNA-2026-57**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup
- VM 2050: XI-New-145-50**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup
- VM 227: NLS-2026-A-51**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup
- VM 228: NLS-2026-B-52**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup
- VM 229: NLS-2026-C-53**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup
- VM 233: Cent9-Apache-Source-60**
Metrics: CPU, Memory, Disk, Network, Storage Volume, Load, Uptime, Backup

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](#)

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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)

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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](#)