Purpose

This document describes how to monitor AIX machines with Nagios XI using SNMP. SNMP is an "agentless" method of monitoring network devices and servers and is often preferable to installing dedicated agents on target machines.

If you are monitoring AIX using SNMP with Nagios XI 2024, see Monitoring AIX using SNMP 2024.

Overview

This documentation will allow you to monitor AIX via SNMP using the Linux SNMP wizard. While AIX is not technically Linux, the monitoring configurations created using the Linux SNMP wizard work just the same.

Before you can monitor a AIX machine using SNMP, you'll need to configure it first. This documentation will explain how to configure AIX with SNMP v2c.

The steps in this documentation will use the community string of public as an example. After this an example will be provided that shows you how to change the community string.

It is assumed that you know how to edit operating system configuration files on your AIX server.

Obtain SNMP Configuration File

Nagios Enterprises have made available an SNMP configuration file that exposes only the required SNMP OID's to the Nagios XI server. Download this configuration file using this <u>link</u>:

Implement SNMP Configuration File

Once you've downloaded the configuration file, open it in a text editor. You will need to copy the contents of the file and paste it into the /etc/snmpdv3.conf file on the AIX server, replacing the original contents.

The next step is to restart the SNMP daemon on the AIX server. These commands require the name of the community string, public is being used in this example.

To stop the daemons, execute the following as root:

stopsrc -s aixmibd stopsrc -s hostmibd stopsrc -s snmpmibd stopsrc -s snmpd

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To start the daemons, execute the following:

```
startsrc -s aixmibd -a "-c public"
startsrc -s hostmibd -a "-c public"
startsrc -s snmpmibd -a "-c public"
startsrc -s snmpd
```

Change SNMP Community

It's advisable to change the SNMP community from the default of public, this example is going to change the community string to Str0ngC0mmunity. You will need to edit the /etc/snmpdv3.conf file on the AIX server and find the following lines:

```
VACM_GROUP group1 SNMPv1 public -
COMMUNITY public public noAuthNoPriv 0.0.0.0 0.0.0.0
VACM_GROUP director_group SNMPv2c public -
```

Change the lines with the new community string:

```
VACM_GROUP group1 SNMPv1 Str0ngC0mmunity -
COMMUNITY Str0ngC0mmunity Str0ngC0mmunity noAuthNoPriv 0.0.0.0
0.0.0.0
VACM_GROUP director_group SNMPv2c Str0ngC0mmunity -
```

You then need to stop the daemons:

stopsrc -s aixmibd stopsrc -s hostmibd stopsrc -s snmpmibd stopsrc -s snmpd

To start the daemons, execute the following commands using the new community string:

```
startsrc -s aixmibd -a "-c Str0ngC0mmunity"
startsrc -s hostmibd -a "-c Str0ngC0mmunity"
startsrc -s snmpmibd -a "-c Str0ngC0mmunity"
startsrc -s snmpd
```

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Testing SNMP Communication

Before you continue, you'll need to make sure that the Nagios XI server can communicate with the remote AIX server using SNMP.

To do this, establish a terminal session to your Nagios XI server and execute the following commands to run a test query. The example here is targeting the AIX server 10.25.13.38 and using the community string of StrongCommunity:

```
cd /usr/local/nagios/libexec
./check_snmp_storage.pl -H 10.25.13.37 -C Str0ngC0mmunity -m "^/$" -w 2 -c 4
```

This check should return disk usage information from the remote AIX server, something like:

```
/: 11%used(1550MB/13892MB) (>4%) : CRITICAL
```

Important: If the command doesn't return data, it likely means that SNMP is not configured properly, or that possibly a firewall issue exists. In that case, go through the steps in the previous section to ensure everything is configured properly.

Using The Linux SNMP Wizard

To begin using the Linux SNMP wizard navigate via the top menu bar to **Configure > Configuration Wizards**, and select the **Linux SNMP** wizard. In the following screenshot you can see how the search field allows you to quickly find a wizard.

<u>N</u> agios [,] XI	v Navigation Q ⊘ Q v Q v ≡
 Configuration Tools Configuration Wizards Auto-biscovery Manage Templates 	Configuration Wizards - Select a Wizard
 Top / Recent Wizards Auto Deployment Advanced Configuration 	Show: Search
 Core Config Manager More Options 	Linux SNMP Monitor a Linux workstation or server using SNMP. SNMP Monitor a Linux workstation or server using SNMP. Monitor a device, service, or application using SNMP.

On Step 1 you will be asked to supply the **address** of the server you will monitor via SNMP. You will also have to provide the appropriate **SNMP Settings**.

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Linux SNMP C	Configuration Wizard	() ()
		
Linux Machine Information		
* IP Address (i)		
10.25.13.37		
SNMP Settings	or the Linux mechine via SNIMP	
SNMP Settings Specify the settings used to monito * SNMP Version ① 2c	or the Linux machine via SNMP.	
Specify the settings used to monito		
Specify the settings used to monitor * SNMP Version ① 2c		
Specify the settings used to monito * SNMP Version ① 2c * SNMP Port ①		
Specify the settings used to monito * SNMP Version ① 2c * SNMP Port ① 161		

Click Next to progress to Step 2.

When you proceed to **Step 2**, the wizard will perform an SNMP query against the AIX server to get a list of the available disks and processes.

Select the server metrics you wish to monitor and adjust the thresholds as required.

🔬 Linux	SNM	P Cor	nfigu	ration Wizard	Step 2	٥	?
Linux Machine [IP Address	Details						
192.168.157.129							
Host Name 🛈							
192.168.157.129							
Legacy Performa	nce Data Ord	er (i)					
Server Metrics Specify which serv	ices you wo	uld like to	monitor f	for the Linux machine.			
🗹 Ping 🛈							
🖌 CDN 🕕	<u> </u>	%	90	%			
Physical	<u> </u>	%	90	%			
Memory Usage							
🗹 Swap Usage 🛈	<u> </u>	%	10	%			

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With the **Disk Usage** checks, double click a disk in the **Scanned Disk List** to add it to the **Drive** field. Adjust the thresholds as required.

	e SNMP wizard det ounts on 192.168.15	ected 7 disks and 7.129	
Drive	Warning	Critical	Scanned Disk List (double click to add)
	<u> </u>	% 🕛 95 %	
	80	% [] 95 %	/boot /dev/shm
	<u> </u>	% 🦲 95 %	/run /run/lock
	80	% [] 95 %	/run/snapd/ns /run/user/1001
	<u> </u>	% 🕕 95 %	

With the **Processes** checks, double click a process in the **Scanned Process** List to add it to the Linux Process field. Adjust the thresholds as required.

Processes

Specify any processes that should be monitored to ensure they're running. Note: Process names are case-sensitive. Click on Tips for more information about creating a process service

Linux Process	Display Name	Warning Count	Critical Count	Scanned Process List
			•	(sd-pam) agetty
			9	apache2 cpuhp/0
			0	cpuhp/1 cpuhp/2
			0	cpuhp/3
				Add Selected Select All

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Copyright © 2025 Nagios Enterprises, LLC. All rights reserved. Trademarks are the property of their respective owner. When you enter one number in each of the **Warning** and **Critical** fields, a WARNING alert will be generated when the amount of processes is below the number specified in the Warning field. A CRITICAL alert will be generated when the number of processes is equal to or below the number specified in the Critical field.

Tip: When you enter two numbers (delimited by a comma), you are specifying a range that is acceptable for the number of processes to be running. In the instance of the sshd in the example screenshot, a WARNING alert will be generated if there are (1 or less) **or** (3 or more) instances of sshd running. A CRITICAL alert will be generated if there is (1 or less) **or** (4 or more) instances running.

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**.

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 xxxxx** link to see the new host and services that were created.

Service Status for this Host Last updated: 2024-12-03 02:12:							
Service		Status	Duration	Attempt	Last Check	Status Information	
/ Disk Usage	*	Ok	8d 23h 27m 46s	1/5	2024-12-03 02:09:45	/: 34%used(16859MB/49077MB) (<80%) : OK	
CPU Usage	*	Ok	3d 3h 42m 34s	1/5	2024-12-03 02:08:33	8 CPU, average load 6.8% < 80% : OK	
Memory Usage	*	Ok	8d 23h 26m 0s	1/5	2024-12-03 02:08:59	Memory buffers: 4%used(303MB/7894MB) (<80%) : OK	
Ping	*	Ok	4d 22h 19m 42s	1/5	2024-12-03 02:09:29	OK - 192.168.157.129: rta 0.036ms lost 0%	
SSH		Critical	19h 41m 58s	5/5	2024-12-03 02:10:21	1 process named sshd (<= 1 : CRITICAL) (<= 2):OK	

More Information

Using Configuration Wizards

Finishing Up

This completes the documentation on monitoring AIX using SNMP with 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

Visit Nagios Knowledge Base

Visit Nagios Library

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