

Using NMIS to monitor services

Who watches the watcher? It is important when using a monitoring/management system that you know it is operational, with some level of beneficial recursion, NMIS supports many techniques for managing servers and applications. You should ensure that something in your environment is watching NMIS.

Related Content

- [Managing Servers and Services with NMIS8](#)
- [NMIS - Solution Guide - Utilizing Service Monitoring To Check SSL Certificate Expiry](#)

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Introduction

NMIS can be used to monitor many services, including the services that it depends on itself. This can be useful in root cause analysis if NMIS has problems.

Common services to monitor for FirstWave NMIS servers are listed below. We also keep an up to date copy of the Services.nmis (the mapped file for NMIS services) file, which can be found in our GitHub: https://github.com/Opmantek/nmis9/blob/nmis9_dev/conf-default/Services.nmis.

The current services shipping with NMIS9 at this time are:

- NMIS9 Workers
- NMIS9 Scheduler
- MongoDB
- Opmantek Web Daemon
- "OMK Stack HTTP" or "OMK Stack HTTPS"
- SSL Expiry Check
- opEvents Daemon
- opConfig Daemon
- opCharts Daemon

Also, it is good to monitor:

- crond
- syslog
- ssh

opHA

When running multiple servers utilizing opHA, it is common practice to have the Main Primary monitor all the pollers and itself.

If available it is also recommend to have a primary "watch the watcher", i.e. monitor the Main Primary and the pollers as well.

Accessing the Services List

In the NMIS GUI navigate to the node you're interested in. At the top of the node, click "service list".

This will bring up a list of the services that particular node is monitoring.

localhost

Node	localhost	services	status	interfaces	active_intf	ports	storage	service list	cpu list	System Health	events	outage	Diagnostic	contact
Node degraded, SNMP Up, status=05,63														
Running services on node localhost (at 23-May-2022 20:16)														
Service	Parameters	Type	Status	PID	Total CPU Time	Allocated Mo								
{sd-pam}	{sd-pam}	application	running	20321	0.000 s	1856 KB								
{sd-pam}	{sd-pam}	application	running	27684	0.000 s	1856 KB								
agetty	/sbin/agetty --keep-baud 115200,38400,9600 tty80 vt220	application	running	624	0.000 s	132 KB								
agetty	/sbin/agetty --nodaemonity1 linux	application	running	623	0.130 s	124 KB								
apache2	/usr/sbin/apache2 -k start	application	running	24136	0.040 s	22120 KB								

Configuring NMIS to monitor a service

Step 1

When in the NMIS GUI click System, then System Configuration then NMIS Nodes (devices)



Step 2

Scroll down the list and find the node you wish to monitor services on. Click "edit" in the actions column.

Step 3

Scroll down in the widget that pops up until you reach the Services section and select the services you wish to begin monitoring. Note that you can select multiple services by holding Ctrl/Control (for PC/Linux) or Command (macOS).



Step 4

Click "Edit and Update Node". After the next polling cycle (usually about five minutes) you should see that the new services are being monitored.

Services Required for NMIS Modules

NMIS

NMIS requires the following services to run:

- snmpd
- mongod
- omkd
- nmis9d
- httpd/apache (or nginx)
- crond

opCharts

opCharts requires the same services as NMIS, with the addition of the below service:

- opchartsd

opEvents

opEvents requires the same services as NMIS, with the addition of the below service:

- opevents

opConfig

opConfig requires the same services as NMIS, with the addition of the below service:

- opconfigd

opFlow

opFlow requires the same services as NMIS, with the addition of the below service:

- opflowd