

Purpose

This document describes how to send Nagios Core logs to Nagios Log Server. This documentation also applies to Nagios XI as it uses Nagios Core in the backend.

Target Audience

This document is intended for use by Nagios Administrators who wish to analyze their Nagios Core logs.

Overview

This documentation walks you through creating a Filter in Nagios Log Server that takes the Nagios Core log data and stores it into fields in the Elasticsearch database. Once the filter has been created, your Nagios XI or Nagios Core server will be configured to send logs to your Nagios Log Server instance. Using custom Nagios dashboards you will be available to analyze the received log data.

Download Filter

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A Filter is how the received log data is broken up into fields that are stored in the Elasticsearch database, it uses regular expressions to break apart the data and hence can be quite complicated. This documentation will not go into the specifics as to how a filter works, all that is required by you is to download a filter from the internet and copy/paste it into a new filter on your Nagios Log Server instance. Navigate to the following URL: <u>https://github.com/T-M-D/NLS-Collection/blob/master/Filters/Nagios_Core.txt</u>

You will need to copy everything from this line to the end of the file into your clipboard:

```
if [program] == 'nagios core' {
```

This will be pasted into the new filter that you will create in the next step.

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Page 1 / 7 Updated – February, 2025

Create Filter

Open the web interface for your Nagios Log Server instance as an administrator. Navigate to **Configure** > **Global (All Instances)** > **Global Config**.

<u>N</u> agios [.] LS	Home Dashboards Alerting Configure Help	Admin Search logs 🤗	🎍 nagiosadmin
Configure			
 Apply Configuration Config Snapshots Add Log Source 	GIODAI CONTIG Manage logstash config options that will be added to all instances. through the filters when creating global filters. View Logstash conf	Note that all applied global filters will happen before the local filters. Keep in min fig language documentation ${\cal S}$	id the flow of the log data
Global (All Instances)	Save 2 [®] Save & Apply		Show Outputs
Global Config	Inputs	+ Add Input - Filters	+ Add Filter -
 Per Instance (Advanced) 			ത്ര Custom
● ✓ nls-c6x- x86.box293.local	Active Syslog (Default)	+ 2 m Active Apache (Default)	+ 🖓 📾
Inls-r6x-x86.box293.local	Active Windows Event Log (Default)	+ ℓ2 ₪	
	Active Import Files - Raw (Default)	+ <a>2 <a>	
	Active Import Files - JSON (Default)	+ 42 📾	
	Save		

On the right side of the page click the + Add Filter button and select Custom.



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In the new filter that appears you will need to provide a title in the *Block Name* field.

In the text area field paste the filter that you previously copied into your clipboard.

Click the **Save** button to create the new filter.

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At this point you should click the **Verify** button to ensure the filter you just created is valid. Once the verify is successful you need to apply the configuration. In the left pane under **Configure** click **Apply Configuration**. Click the **Apply** button and then click **Yes**, **Apply Now** when prompted.

Configure Nagios XI Or Nagios Core Server

Now that the filter has been created you need to configure your Nagios XI or Nagios Core server to send the nagios.log file to your Nagios Log Server instance.

In the following steps you will need to replace xxx.xxx.xxx with the address of your Nagios Log Server instance that will be receiving the logs.

Establish a terminal session to your Nagios XI or Nagios Core server and execute the following commands:

cd /tmp curl -s -O http://xxx.xxx.xxx/nagioslogserver/scripts/setup-linux.sh sudo bash setup-linux.sh -s xxx.xxx.xxx -p 5544 -f "/usr/local/nagios/var/nagios.log" -t nagios_core

Once you've executed these commands, any new entries in the nagios.log file will be sent to your Nagios Log Server instance. It's worth pointing out this part of the command:

-t nagios_core

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This tells Nagios Log Server that the program these logs are coming from is nagios_core. This is how the filter determines if the log should be processed, this is because of the first line of the filter:

```
if [program] == 'nagios core' {
```

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Page 3 / 7 Updated – February, 2025

Review Logs

At this point you can see if the logs are being received by using a dashboard query. On your Nagios Log Server instance open the **Dashboards** page. In the query field type the following:

program:nagios_core

You should see a filtered list of logs from your Nagios XI or Nagios Core server.

<u>N</u> agios LS	Home	Dashboards	Alerting	Configure	Help	Admin		Searc	ch logs			anagiosi	admin	ტ Lo	gout
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program:nagios_core														۹	+
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80															
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ALL EVENTS											🛓 Export	as CSV 🚯	۰	÷	×
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The results will vary depending on how much log activity your Nagios XI or Nagios Core server generates.

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Uploading Dashboards

There are several dashboards available to help analyze the Nagios log data, they are designed to work with the fields generated by the filter you created. You will need to download them from the following location: https://github.com/T-M-D/NLS-Collection/tree/master/Dashboards

Once you've downloaded a dashboard you'll need to upload it. On the **Dashboards** page click **Load** > **Advanced** > **Browse**.

Nagios [®] LS Home Dashboards Alerting	Configure Help Admin	Search logs	⊘ 占 nagiosadmin 😃 Logout
☐ My Default Dashboard X	19 minutes a	ago to 4 minutes ago 🔹 🥱 👫 🔍 🛔	
		Type to filter	Load
QUERY +		Apache Dashboard	×
		Sempty Dashboard	0 +
program.nagios_core		My Default Dashboard	×
		Nagios Log Server Search	
		O Top Sources and Types	×
EVENTS OVER TIME View+ Zoom Out program:naglos_core (79) count per 10s (79 hits) 80	Import dashboard from file O Browse No file selected.	Advanced	0 ¢ + ×
40	Gist 🛿		
20	Gist number or URL		

Locate the Dashboard file you downloaded in the browse window, once you open it the dashboard page will refresh with the uploaded dashboard. Here is an example of the first row on the **Nagios - Services** dashboard.

CR +	× ¢	HARD VS SOFT • • + ×	SPARKLINES • • + ×	7 DAY TRENDS • • 17.82% (CRITICAL HARD)	4 ×	TOP SERVICES	0 Count	¢ + × Action
		 CRITICAL HARD (1527) CRITICAL SOFT (651) 		25.68% (CRITICAL SOFT)		Memory Usage	143	Q
AL		2000	CRITICAL SOFT			CPU Usage	128	Q
2 E		1500	1Mm			Swap Usage	115	Q
5						Ping	98	Q
o		1000				Service Status: MSDTC	73	Q
		500						
		0						

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When you click the **QUERY** and **FILTERING** buttons you can see how multiple queries are defined, this is how the dashboard panels provide different information.

QUERY >	
nagios_service_status: critical AND nagios_se nagios_service_status: warning AND nagios_se	nagios_service_status: unknown AND nagios_
nagios_service_status: warning AND nagios_! nagios_service_status: OK AND nagios_servic	nagios_service_status: critical AND nagios_se
nagios_service_status: unknown AND nagios_ nagios_flapping_state: stopped AND _exists_	nagios_flapping_state: started AND _exists_:
• nagios_severity_label: Error AND message: " Q +	
FILTERING >	
time must Image: Second seco	

In the screenshot above, the **must** filter for the field **program** where the query is **nagios_core** reduces the amount of log data that your queries at the top must process.

In the screenshots below, the left shows how a query can have a legend. The right shows how a panel can select specific queries, the legend defined on a query makes it easy to identify when selecting it.

QUERY +		General Panel Queries Trends Settings
nagios_service_status: critical AND n lucene About the lucene query	agios_se	Queries selected • Selected Queries
CRITICAL HARD Legend value	nagios_	CRITICAL HARD WARNING HARD WARNING SOFT OK HARD CRITICAL SOFT CRITICAL SOFT
••••••••••••••••••••••••••••••••••••••	sage: "	NO SERVICE
Deactivate Pin Close		Save Cancel

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Finishing Up

This completes the documentation on how to send Nagios Core Logs to Nagios Log Server.

If you have additional questions or other support related questions, please visit us at our Nagios Support Forums:

https://support.nagios.com/forum

The Nagios Support Knowledgebase is also a great support resource:

https://support.nagios.com/kb

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