Purpose

This document describes how to manage your Nagios Log Server Instances.

Target Audience

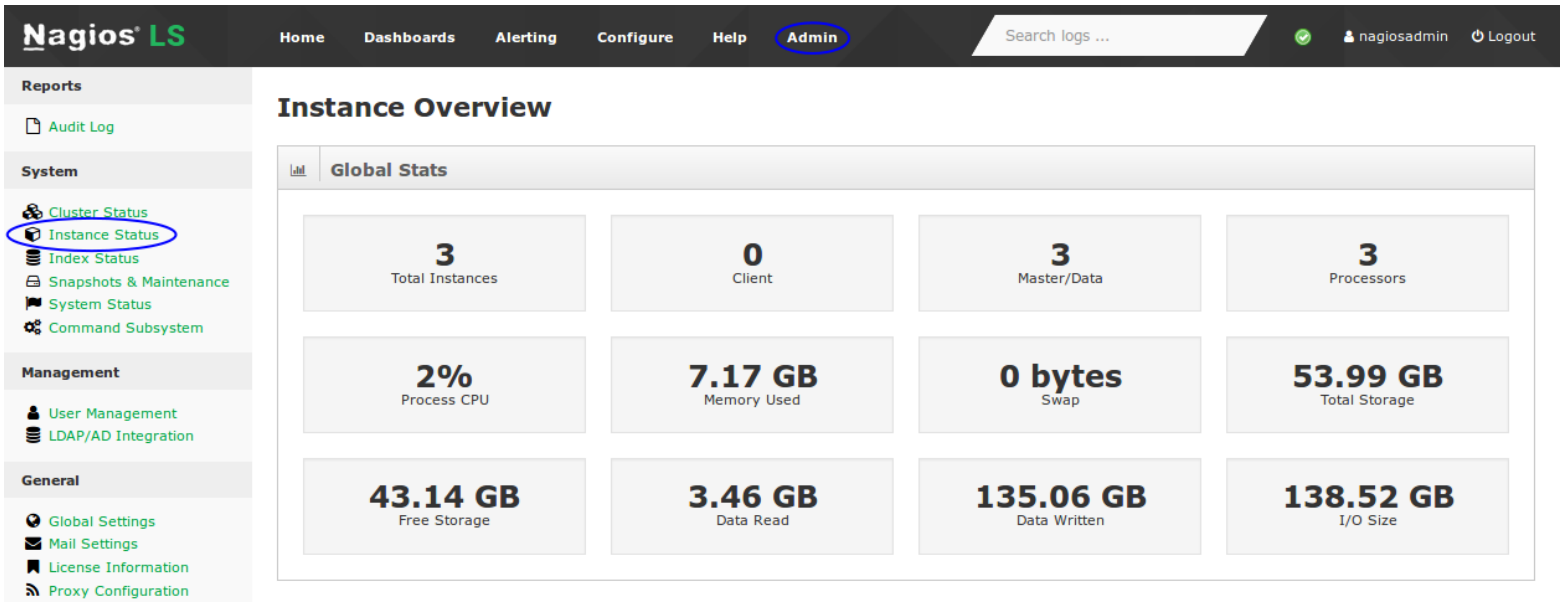
This document is intended for use by Nagios Log Server Administrators, it describes how to view statistics and manage Nagios Log Server Instances. It also provides information that can assist with troubleshooting.

Overview

Nagios Log Server is a clustered application, it consists of one or more instances of Nagios Log Server. An instance is an installation of Nagios Log Server, it participates in the cluster and acts as a location for the received log data to reside. The log data is spread across the instances using the Elasticsearch database, a special database used by Nagios Log Server. This documentation discusses the **Instances** in the cluster.

Navigate

To manage your Nagios Log Server Instances navigate to **Admin** > **System** > **Instance Status**.

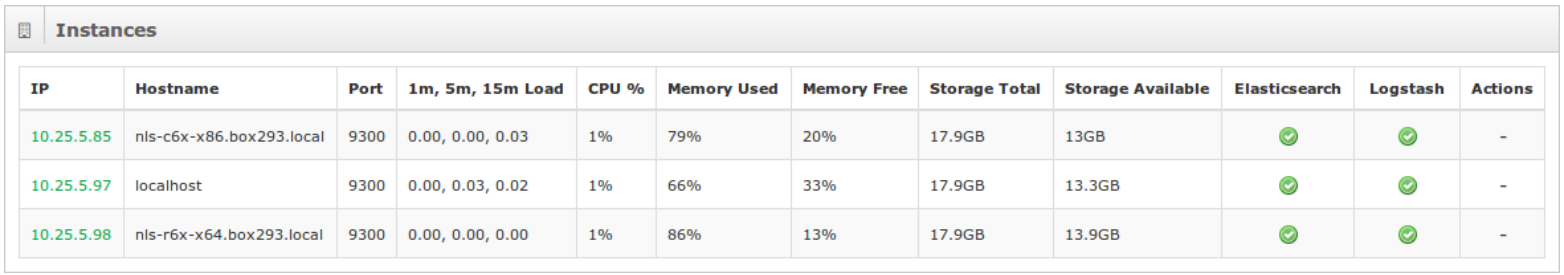


Global Stats

The **Global Stats** table provides an overall summary of the instances in the cluster. Administrators can use this information to get an overview of how the cluster is performing.

Instances

This table provides a summary of each instance in the cluster. Administrators can use this information to get an overview of how each instance is performing.



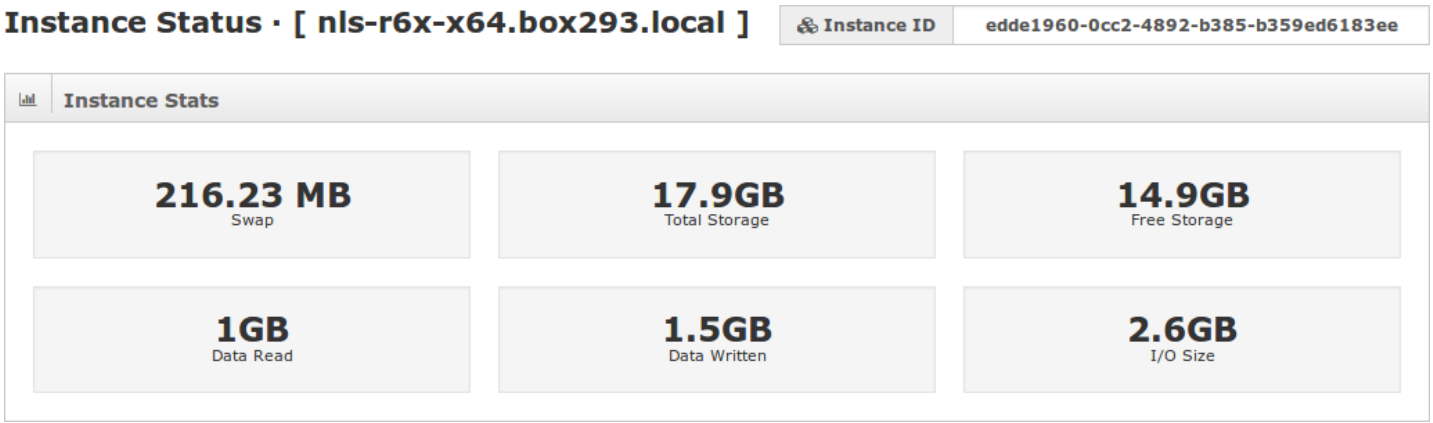
Instances

IP	Hostname	Port	1m, 5m, 15m Load	CPU %	Memory Used	Memory Free	Storage Total	Storage Available	Elasticsearch	Logstash	Actions
10.25.5.85	nls-c6x-x86.box293.local	9300	0.00, 0.00, 0.03	1%	79%	20%	17.9GB	13GB			-
10.25.5.97	localhost	9300	0.00, 0.03, 0.02	1%	66%	33%	17.9GB	13.3GB			-
10.25.5.98	nls-r6x-x64.box293.local	9300	0.00, 0.00, 0.00	1%	86%	13%	17.9GB	13.9GB			-

As you can see from the screenshot there are three instances in this cluster. In the IP column you can actually click the IP address to bring up more information about that specific instance (shown next).

Instance Stats

This table will describe the statistics associated with this Nagios Log Server instance. Administrators can use this information to know what the instance is capable of and what hardware they might need to introduce in a new instance.



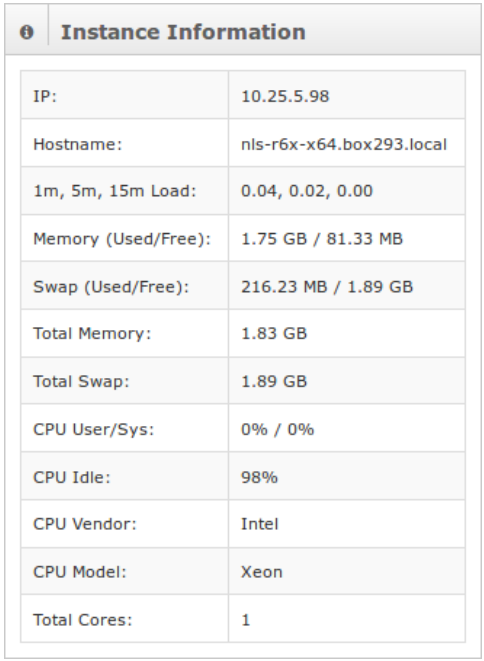
Instance ID

In the top right corner of the page is the Instance ID. Knowing the ID can be helpful when executing commands in a terminal session or when reviewing log files.

Instance Information

This table contains information about the underlying operating system parameters / capabilities.

- IP address and Hostname
- Load over time
- Memory and Swap statistics
- CPU Statistics
- CPU Physical properties



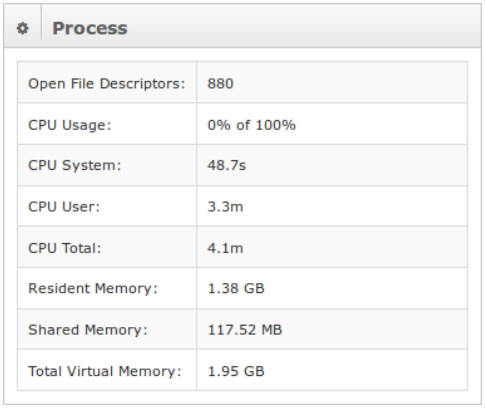
Instance Information

IP:	10.25.5.98
Hostname:	nls-r6x-x64.box293.local
1m, 5m, 15m Load:	0.04, 0.02, 0.00
Memory (Used/Free):	1.75 GB / 81.33 MB
Swap (Used/Free):	216.23 MB / 1.89 GB
Total Memory:	1.83 GB
Total Swap:	1.89 GB
CPU User/Sys:	0% / 0%
CPU Idle:	98%
CPU Vendor:	Intel
CPU Model:	Xeon
Total Cores:	1

Process

This table shows the statistics of the current process for this instance.

- Open File Descriptors
- CPU statistics
- Memory status



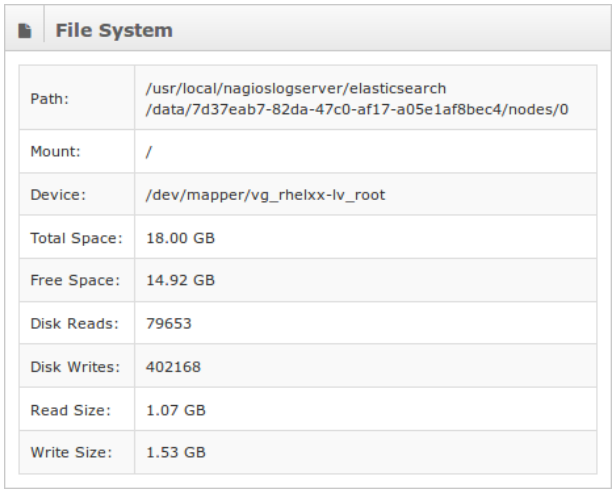
Process

Open File Descriptors:	880
CPU Usage:	0% of 100%
CPU System:	48.7s
CPU User:	3.3m
CPU Total:	4.1m
Resident Memory:	1.38 GB
Shared Memory:	117.52 MB
Total Virtual Memory:	1.95 GB

File System

This table provides information about the file system used by the instance.

- File Data Path
- Mount and Device Paths
- Total and Free Space
- Disk Writes, Reads and Size



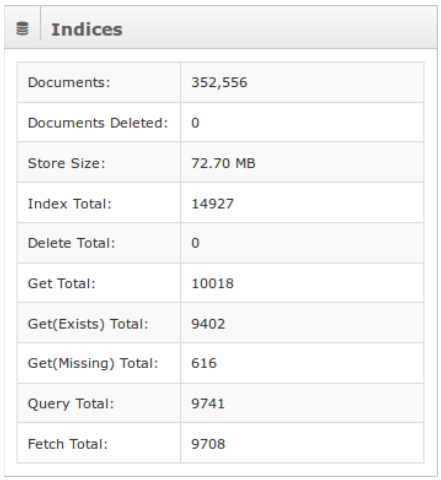
File System

Path:	/usr/local/nagioslogserver/elasticsearch /data/7d37eab7-82da-47c0-af17-a05e1af8bec4/nodes/0
Mount:	/
Device:	/dev/mapper/vg_rhelxx-lv_root
Total Space:	18.00 GB
Free Space:	14.92 GB
Disk Reads:	79653
Disk Writes:	402168
Read Size:	1.07 GB
Write Size:	1.53 GB

Indices

This table provides information about the indices handled by this instance.

- Number of Documents and any that have been deleted
- Store Size
- Totals of Indices, Deletions, Gets, Queries and Fetches



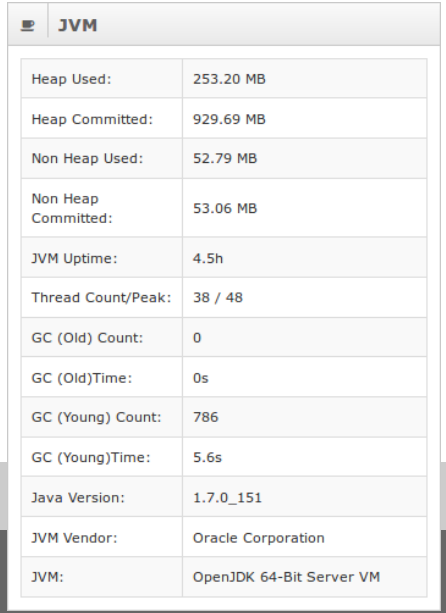
Indices

Documents:	352,556
Documents Deleted:	0
Store Size:	72.70 MB
Index Total:	14927
Delete Total:	0
Get Total:	10018
Get(Exists) Total:	9402
Get(Missing) Total:	616
Query Total:	9741
Fetch Total:	9708

Java Virtual Machine (JVM)

This table has statistics about the JVM that is running Elasticsearch.

- Heap and Non Heap usage
- Uptime, Thread status
- GC Times and Counts
- Java version and JVM information



JVM

Heap Used:	253.20 MB
Heap Committed:	929.69 MB
Non Heap Used:	52.79 MB
Non Heap Committed:	53.06 MB
JVM Uptime:	4.5h
Thread Count/Peak:	38 / 48
GC (Old) Count:	0
GC (Old)Time:	0s
GC (Young) Count:	786
GC (Young)Time:	5.6s
Java Version:	1.7.0_151
JVM Vendor:	Oracle Corporation
JVM:	OpenJDK 64-Bit Server VM

Thread Pools

A group of idle threads that stand ready until there is work to be done.

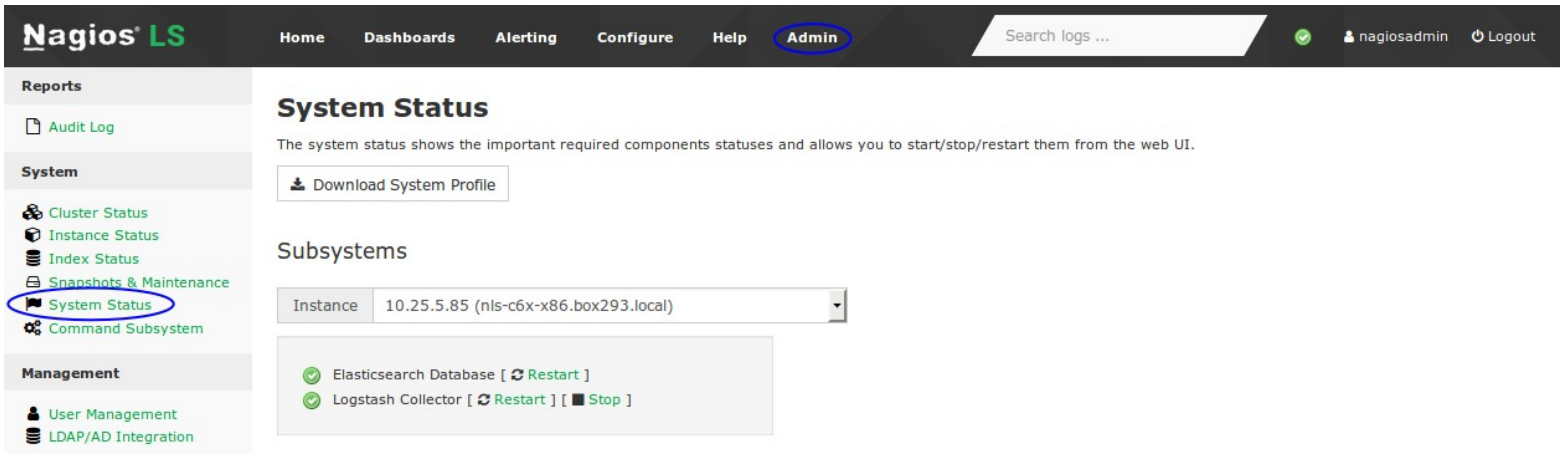
- Formatted by Queue / Peak / Active
- Each thread title indicates a section of the pool and the current threads that are being used
- Queued pools are waiting to be run
- Peak is the most threads the specific type of thread has ran at once
- Active is any threads that are currently running

Thread Pools

Index (Queue/Peak/Active):	0/1/0
Get (Queue/Peak/Active):	0/1/0
Search (Queue/Peak/Active):	0/2/0
Bulk (Queue/Peak/Active):	0/1/0
Refresh (Queue/Peak/Active):	0/1/0
Flush (Queue/Peak/Active):	0/1/0
Merge (Queue/Peak/Active):	0/1/0
Management (Queue/Peak/Active):	0/5/1

System Status

The **Admin** > **System** > **System Status** page allows you to control the Elasticsearch and Logstash services on each of your Nagios Log Server instances.



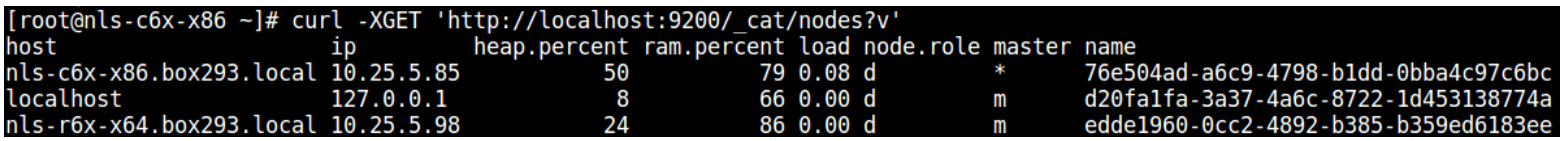
Under **Subsystems** use the **Instance** drop down list to change which instance you want to control. You can then use the Restart / Stop / Start commands to perform that action on the instance.

Advanced Management

If you require more detailed information about instances you will need to execute commands in a terminal session using a `curl` command. Establish a terminal session to one of you Nagios Log Server instances and execute the following command:

```
curl -XGET 'http://localhost:9200/_cat/nodes/?v'
```

This will produce output similar to the following screenshot:



You can see in the name column how it shows the instance ID that was described on page 2.

Finishing Up

There are more sections that make up the Admin menu. The Help menu provides documentation to assist you with mastering your Nagios Log Server and make you aware of all the features in 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