



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**.

The screenshot shows the Nagios Log Server Admin interface. The top navigation bar includes Home, Dashboards, Alerting, Configure, Help, and Admin (circled in red). A search bar for logs is also present. The left sidebar contains a menu with sections: Reports (Audit Log), System (Cluster Status, Instance Status (circled in red), Index Status, Snapshots & Maintenance, System Status, Command Subsystem), Management (User Management, LDAP/AD Integration), and General (Global Settings, Mail Settings, License Information, Proxy Configuration).

Instance Overview

Global Stats

| | | | |
|---------------------------------|-------------------------------|----------------------------------|----------------------------------|
| 3 Total Instances | 0 Client | 3 Master/Data | 3 Processors |
| 2% Process CPU | 7.17 GB Memory Used | 0 bytes Swap | 53.99 GB Total Storage |
| 43.14 GB Free Storage | 3.46 GB Data Read | 135.06 GB Data Written | 138.52 GB I/O Size |

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.

| 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 Status · [[nls-r6x-x64.box293.local](#)]

Instance ID

edde1960-0cc2-4892-b385-b359ed6183ee

| Instance Stats | | |
|--------------------------|--------------------------------|-------------------------------|
| 216.23 MB Swap | 17.9GB Total Storage | 14.9GB Free Storage |
| 1GB Data Read | 1.5GB Data Written | 2.6GB I/O Size |

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.

The screenshot shows the Nagios Log Server Admin interface. The top navigation bar includes 'Home', 'Dashboards', 'Alerting', 'Configure', 'Help', and 'Admin' (circled in blue). A search bar for logs is also present. The left sidebar shows a 'System' menu with 'System Status' circled in blue. The main content area is titled 'System Status' and contains a 'Download System Profile' button. Below this is the 'Subsystems' section, which features an 'Instance' dropdown menu currently set to '10.25.5.85 (nls-c6x-x86.box293.local)'. Underneath, there are two service status cards: 'Elasticsearch Database' and 'Logstash Collector', each with a green checkmark and buttons for 'Restart' and 'Stop'.

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 your 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:

```
[root@nls-c6x-x86 ~]# curl -XGET 'http://localhost:9200/_cat/nodes?v'
```

| host | ip | heap.percent | ram.percent | load | node.role | master | name |
|--------------------------|------------|--------------|-------------|------|-----------|--------|--------------------------------------|
| nls-c6x-x86.box293.local | 10.25.5.85 | 50 | 79 | 0.08 | d | * | 76e504ad-a6c9-4798-b1dd-0bba4c97c6bc |
| localhost | 127.0.0.1 | 8 | 66 | 0.00 | d | m | d20fa1fa-3a37-4a6c-8722-1d453138774a |
| nls-r6x-x64.box293.local | 10.25.5.98 | 24 | 86 | 0.00 | d | m | edde1960-0cc2-4892-b385-b359ed6183ee |

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>