#### **Background**

Ports below 1024 are privileged on Linux and only allow the root user to listen on them. This document provides two solutions to this situation.

- Run Logstash as root
- 2. Use setcap

### **Editing Files**

In many steps of this documentation you will be required to edit files. This documentation will use the vi text editor. When using the vi editor:

- To make changes press i on the keyboard first to enter insert mode
- Press Esc to exit insert mode
- When you have finished, save the changes in vi by typing :wg and press Enter

#### Method 1: Run Logstash as root

This method configures logstash to run as the root user. Edit the logstash config file by executing the following command:

#### RHEL | CentOS | Oracle Linux

vi /etc/sysconfig/logstash

#### Debian | Ubuntu

vi /etc/default/logstash



or

sudo vi /etc/default/logstash

Find the line:

LS\_USER=nagios

Change the line to:

LS\_USER=root

Save the file and close vi.

Now proceed to the Restart Logstash Service section of this document.

#### Method 2: Use setcap

This option will preserve logstash running as the nagios user however this method may be less secure in some environments as it will allow any Java process to listen on privileged ports

The logstash init configuration file requires three lines to be added to the end of it, open the file with the following command:

#### RHEL | CentOS | Oracle Linux

vi /etc/sysconfig/logstash

#### Debian | Ubuntu

vi /etc/default/logstash

or



sudo /etc/default/logstash

Add the following three lines to the end of the file:

echo \$(dirname \$(find /usr/lib -name libjli.so)) | awk '{print \$1}'> /etc/ld.so.conf.d/java.conf eval "\$(which Idconfig)"

setcap 'cap\_net\_bind\_service=+ep' \$(readlink -f \$(which java))

Save the file and close vi.

Now proceed to the Restart Logstash Service section of this document.

#### **Restart Logstash Service**

The logstash service needs to be restarted for these changes to apply:

RHEL | CentOS | Oracle Linux | Debian | Ubuntu

systemctl restart logstash.service

or

sudo systemctl restart logstash.service

Please proceed to the Add Inputs section of this document.

### **Add Inputs**

After implementing the chosen method you can add inputs to the configuration for ports below 1024. The following documentation explains how to create an input in Nagios Log Server:

Configuring Nagios Log Server Inputs



Note: Any ports lower than 1024 will not be listed in the "Logstash is currently collecting" banner on the Admin Overview page because the process listing the ports is not privileged and thus can not see any ports lower than 1024.