

Linux - Setting up a Logging Server

Summary

This is to setup a logging server to capture logs from any servers on your network.

Prerequisites

Install of a RedHat or Rocky Linux minimal install

Configuration

You will need to edit the file "/etc/rsyslog.conf"

Editing the file

```
vi /etc/rsyslog.conf
```

You will need to change to the following to allow port 514 to be open

```
# Provides UDP syslog reception
# for parameters see http://www.rsyslog.com/doc/imudp.html
module(load="imudp") # needs to be done just once
input(type="imudp" port="514")

# Provides TCP syslog reception
# for parameters see http://www.rsyslog.com/doc/imtcp.html
module(load="imtcp") # needs to be done just once
input(type="imtcp" port="514")
```

Then simply restart the rsyslog daemon

```
systemctl restart rsyslog
```

Multi Host Logging to one server

```
vi /etc/rsyslog
```

Add the following

Before this entry "#### RULES ####"

```
$template RemoteLogs, "/var/log/%HOSTNAME%/PROGRAMNAME%.log"  
. ?RemoteLogs
```

This will enable for all host/servers to log to their own folders

The entry should look like this

```
# Provides TCP syslog reception  
# for parameters see http://www.rsyslog.com/doc/imtcp.html  
module(load="imtcp") # needs to be done just once  
input(type="imtcp" port="514")  
  
#custom  
$template RemoteLogs, "/var/log/%HOSTNAME%/PROGRAMNAME%.log"  
*,* ?RemoteLogs  
& ~  
  
#### RULES ####
```

The directive `$template` tells `rsyslog` daemon to gather and write all of the received remote messages to separate logs under `/var/log`, based on the hostname (client machine name) and remote client facility (program/application) that generated the messages as defined by the settings present in the template `RemoteLogs`. The second line `"*,* ?RemoteLogs"` means record messages from all facilities at all severity levels using the `RemoteLogs` template configuration. The third line makes the append happen.

Setup Log Rotate

Create a log file configuration file

```
vi /etc/logrotate.d/sfl
```

then add the following, and change the ending folder name(s)

```
/var/log/sfl*
/var/log/SFL*
/var/log/vcenter*
/var/log/MFB*
/var/log/mfb*
{
  rotate 2
  maxsize 200k
  daily
}
```

Run to make sure the config is good

```
logrotate -d /etc/logrotate.d/sfl
```

Setup Host Servers

This is what to setup on the servers you wish to log to one server

You must login to the server and then edit the following file

```
vi /etc/rsyslog.conf
```

Once opened you have to add at the end of the file the following to log everything

```
*,* @192.168.253.86:514 # use @ for UDP Protocol
*,* @@192.168.253.86:514 # use @@ for TCP Protocol
```

You can also setup specific logging by doing the following

```
auth.* @192.168.253.86:514 # only for authentication based records
```

Results

This is what your folder will look like with the host name of the server or device

```
drwx----- 2 root root    42 Aug 29 22:30 RT-AC5300-RANGE-25D1EC7-C
drwx----- 2 root root    82 Aug 29 22:32 SFL-LIN-000
drwx----- 2 root root    87 Aug 29 22:32 sfl-web-004
```

This is a look within a folder of a server

```
[/var/log]# cd SFL-LIN-000/
```

```
root@SFL-LIN-000.ONLING.COM : Linux : Thu Aug 29 22:35:01 :
```

```
[/var/log/SFL-LIN-000]# ls -lrt
```

```
total 16
```

```
-rw----- 1 root root 850 Aug 29 22:30 rsyslogd.log
```

```
-rw----- 1 root root  56 Aug 29 22:32 sssd_kcm.log
```

```
-rw----- 1 root root 948 Aug 29 22:32 systemd.log
```

```
-rw----- 1 root root 251 Aug 29 22:32 CROND.log
```

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