Central Logging

One thing that can make your life easier, in case something unexpected happens, is to have logs. I have decided to use my control on onde as a central logging server using

On logging server

```
# as root
mkdir /var/log/central
```

Rsyslog will use TCP/UDP port 514, but you need to enable it. Edit /etc/rsyslog.conf, and make sure these lines look like this (uncommented):

```
# provides TCP syslog reception
module(load="imtcp")
input(type="imtcp" port="514")
```

Next create config to tell rsyslog to put all logs in previously created folder, create /etc/rsyslog.d/central.conf

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

Create file /etc/logrotate.d/central

```
/var/log/central/*.log
{
    rotate d
    weekly
    missingok
    notifempty
compress
    delaycompress
    postrotate
    invoke-rc.d rsyslog rotate >/dev/null 2>&1 || true
}
```

- rotate How many rotated copies to keep before removing the oldest one.
 weekly Rotate log every 7 days.
 missingok If the log file is missing, go on to the next one without issuing an error message.
- notifempty Do not rotate the log if it is empty.
 compress Gzip the logs.
- delaycompress Postpone compression of the previous log file to the next rotation cycle.
- conjumpress Vicenation is the control of the contro

Some more info about options: https://linux.die.net/man/8/logrotate

systemctl restart rsyslog That's it for a server, no need to restart logrotate; that will be run via cron.

Now we set up nodes to send their logs to our server. Our server is called controlar, and all nodes have this entry in their /etc/hosts file. We have did this here: OS setting

```
192,168,0.101 control01 control01.local
```

All you need to do is make sure you put following line *.* @@control@1.local:514 (of course with your hostname or the IP of your logging server) at the start of /etc/rsyslog.conf.

Do not do this on control01 (your logging server), that one is already logging to local files no need to also send the logs to localhost and possibly get logging loop (Thanks Vincent for pointing this out.)

For me, including the comments, the top of that file looks like this:

```
# /etc/rsyslog.conf configuration file for rsyslog
# For more information install rsyslog-doc and see
# /wsr/share/doc/rsyslog-doc/html/configuration/index.html
# Default logging rules can be found in /etc/rsyslog.d/50-default.conf
*.* @@control01.local:514
#### MODULES ####
```

systemctl restart rsyslog

Next, check the folder on the logging server. New logs should start appearing there in a seconds.

ubuntu@control01:/var/log/centralS 1s control01.log control02.log control03.log cube01.log cube02.log cube03.log cube04.log cube05.log cube06.log cube06.l

Inav

Just a nifty little program to watch your logs in real time, with filters and so on.

sudo apt install lnav lnav /var/log/central/*.log

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Comments



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Name

Taz Elkikhia • 2 months ago • edited use this to validate the conf file if you're stuck

rsyslogd -N1 -f /etc/rsyslog.conf 1 ^ | v • Reply • Share)

Can't manage to see logs in central folder at control01... I created hosts file in all nodes and edited files as described here but central folder is empty. How could I debug this?

Thanks again

DfUSE DfU → vladoportos • 10 months ago it connects:

This is control01 /etc/rsyslog.conf

vladoportos Med → DruSE Dru + 10 months ago
Hmm only difference I can see from mine is that I have IP in the
rsyslog, conf on nodes. Look here: https://pastebin.com/ZqHfn4D just
for fun try to create empty file with the node name where it should be...
maybe there is some permissions issue or something.

\[
\bigcircline{\text{Note}} \cdot \text{Reply} \cdot \text{Share} \cdot \end{array}.
\]

DRUSE DRU → vladoportos • 10 months ago
Tried replacing name with ip with no success... how could i do that test?

∧ [∨ • Reply • Share)

Viadoportos Med ** DRUSE DRU **10 months ago

This is super strange, it should just work, its very old function of rsyslog baring network issue there should be nothing preventing it. Make sure you have rsyslog installed and running. Also check with journalct1 -u-rsyslog on both node and server if its complains about something.

^ | V * Reply * Share :

Nikolas Bousios (Rambou) • a year ago Saying that

and all nodes have this entry in their /etc/hosts file:

it's not true. At what step have we edited the /etc/hosts files of every node? Did anaible did this automatically somehow?

^ | \ • Reply • Share >

viadoportos Med → Nikolas Bousios ((Rambou) • a year ago
Sorry, I will add link to the point when it was done. In here: https://rpi4cluster.com/k3s...

↑ | ∨ • Reply • Share >

Vincent • a year ago
Just think it might worth adding for rsyslog newbs like that the line

. (@control81.1oca1:514
should not be added to the central host as shit will hit the fan and you'll fall in a logloop (I think)
Also, apparently the '-' in the template is deprecated and should replaced by 'stop'
and because we are extracting everything (*.*) the '8 -' or '8 stop' will generate a warning
as there is nothing else to process anyway, so you can remove it!

A | V = Nepty = Shares |