

Our topic today : 1. Rsyslog (Remote system logs)  
2- Archive and compress Files

## 1. Rsyslog (remote system logs)

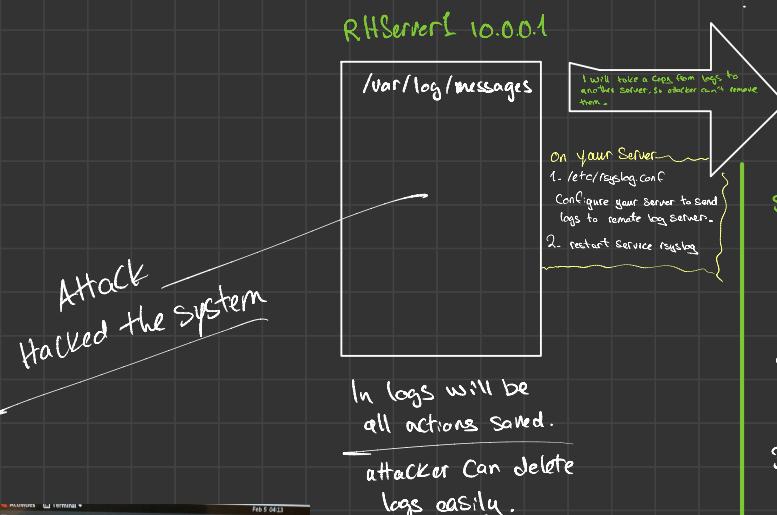
/var/log/messages

`tail -f /var/log/messages` → read

`journalctl` → read all events & logs

`journalctl -since yyyy-mm-dd` → read logs since certain date

`journalctl -b` → read logs since system boot



The diagram illustrates a network topology. On the left, a white triangle represents a client device. An arrow points from this client to a rectangular box labeled "RTRouter3". From the "RTRouter3" box, another arrow points to a second rectangular box labeled "Log Server". The "Log Server" box contains the following text:  
 Server  
 shared  
 log  
 file  
 a  
 central  
 place  
 where  
 all log entries  
 are stored

Service rsyslog enabled Started  
log Server configuration:

## 1. Firewall Configuration

## 2. Configure vsys log Service to receive logs

### 3. Restart Service `rsyslog`

```
[~] Log Server
1. Firewall Configuration
[root@BServer3 ~]# systemctl stop firewalld.service
[root@BServer3 ~]# systemctl start firewalld.service
[root@BServer3 ~]# firewall-cmd --add-port=514/tcp --permanent
success
[root@BServer3 ~]# firewall-cmd --add-port=514/udp --permanent
success
[root@BServer3 ~]# firewall-cmd --reload
success
[root@BServer3 ~]# firewall-cmd --list-ports
514/tcp 514/udp
[root@BServer3 ~]#
```

2. vim /etc/rsyslog.conf uncomment for the following lines

```
module(load="imudp") # needs to be done just once
input(type="imudp" port="514")

module(load="imtcp") # needs to be done just once
input(type="imtcp" port="514")
```

3. restart rsyslog service

```
[root@BServer3 ~]# systemctl restart rsyslog.service
```

→ `Systemctl stop firewall.service` → Stop fire wall (bullshit)

```
→ firewall-cmd --add-port=514/tcp --permanent → allow certain ports
```

→ firewall-cmd --add-port=514/udp --permanent → ↴ ↴ ↴ ↴

→ firewall-cmd --reload

→ firewall-cmd –list-port

Note : if you want to save logs of specific level do following:

1. go to /etc/rsyslog.conf
2. make a new rule → <sup>example</sup> \*.error /var/log/msg.errors
3. Save + restart service

## 2- Archive and compress Files

Archive → for Backup (copy of the file) tar

Compress → for Saving space (replace the file) gzip, bzip2

Archive + Compress → both like winrar

ZIP

Archive f1, f2, f3 Backup in Archivel.tar

Compress f1, f2, f3 (4GB) replace in files.gz (500MB)

```
> ls -l -R / > report1  
> cp report1 report2  
> cp report1 report3  
> ls -lh report*
```

gzip is standard  
in my distribute  
zcat } to read  
zmore } content  
of zip

```
#####
2- Archive and compress Files
Archive >>> Backup
Compress >>> Save space

-Archive tar c create v verbose x extract t list f file u update
tar cvf Archivel.tar files create
tar cvzf Archivel.tar files create archive then Compress with gzip
tar cvjf Archivel.tar files create archive then Compress with bzip2

tar tf Archivel.tar list
tar xvf Archivel.tar extract
tar rvf Archivel append file to archive

--compress { bzip2, gzip
file replace file.gz file.bz2
[root@RHServer ~]# ls -lh report1.gz report2.bz2 report3
-rw-r--r--. 1 root root 2.3M Feb 5 05:56 report1.gz
-rw-r--r--. 1 root root 1.5M Feb 5 05:57 report2.bz2
-rw-r--r--. 1 root root 31M Feb 5 05:57 report3
[root@RHServer ~]# }

gzip -v filename { Compress
gunzip -v filename.gz { Uncompress
zcat filename.gz } list
zmore filename.gz } list

bzip2 -v fileName
bunzip2 -v filename.bz2
bzip2 filename.bz2 } List inside the compressed order
bzmore filename.bz2 } List inside the compressed order

-Archive + Compress zip
zip -v Archivel.zip files create
unzip -l Archivel.zip list
unzip Archivel.zip extract
```

**Sudo** = Super User do

→ in group user file at /etc/group

in the file you will find a group wheel in redhat  
Sudoers in another distribution

⇒ So if I added someone in this group, he can run commands as root

You can also go to file /etc/sudoers and add

```
root@RHSserver1:~#
File Edit View Search Terminal Help
# commands via sudo.
#
# Defaults env_keep += "HOME"
Defaults secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##       user      MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)      ALL
sales1 ALL=(ALL)      ALL → I added this user, so he is like the root now

## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES [ STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS
# %sys:ALL=ALL

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)      ALL → a group has access like a root

## Same thing without a password
# %wheel      ALL=(ALL)      NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## cdrom as root
# %users  ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom

## Allows members of the users group to shutdown this system
```