

Lab 8: Syslog Server

Objective: To help students to learn

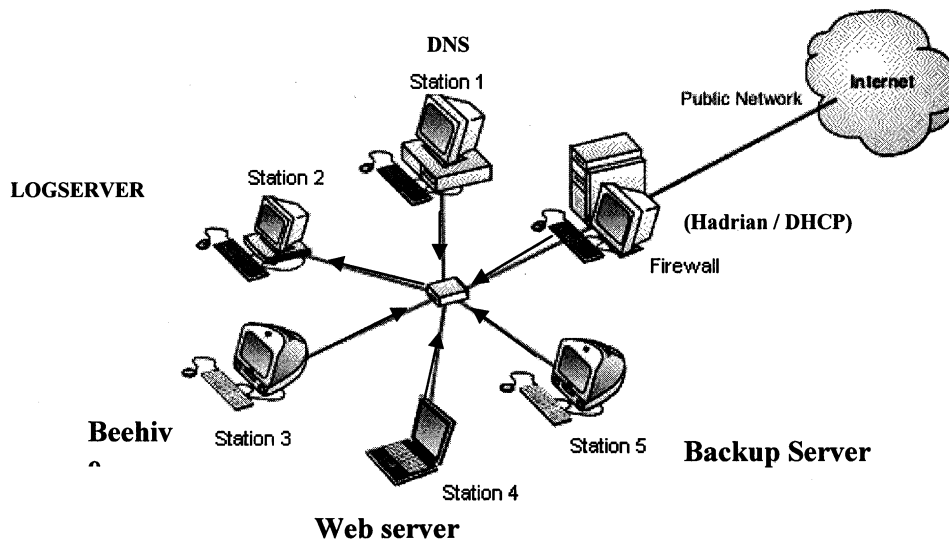
- Understand how syslog server works.

Scenario:

- **Domain:** coyote365.net
- **Systems administrator:** Daniel McKay (dmckay)
- **Servers:**

Server Name:	IP Address:	Function:
hadrian	192.168.1.1	Gateway
ns	192.168.1.2	DNS1
ns2	192.168.1.3	DNS2
www, web	192.168.1.4	Web server
beehive	192.168.1.5	NFS
chango	192.168.1.6	Backup
acme / logsver	192.168.1.7	log Server
lin-0 ~ lin-99	192.168.1.100 ~ 192.168.1.199	Linux Workstations
win-0 ~ lin-54	192.168.1.200 ~ 192.168.1.254	Windows Workstations

LOGSERVER will receive all log messages from other servers:



[1] Setup syslog Server:

Stop syslog service:

```
[root@logsver ~root]# service syslog stop
```

Edit /etc/sysconfig/syslog

```
[root@logsver ~root]# vi /etc/sysconfig/syslog
```

Replace the line

SYSLOGD_OPTIONS="-m 0"

with

SYSLOGD_OPTIONS="-rm 0"

Re-start the syslog service:

[root@logsver ~root]# service syslog restart

Check the log:

[root@logsver ~root]# tail /var/log/messages

You will find:

syslogd 1.4.1: restart (remote reception).

Add a Firewall Rule for accepting remote syslog reception:

[root@logsver ~root]# iptables -L

**[root@logsver ~root]# iptables -I RH-Firewall-1-INPUT -p udp -i eth0 -s 192.168.1.0/24 **
-d 192.168.1.7 --dport 514 -j ACCEPT

[root@logsver ~root]# iptables-save > /etc/sysconfig/iptables

[root@logsver ~root]# service iptables restart

[root@logsver ~root]# iptables -L

NOTE:

192.168.1.0/24 are clients (loghosts)

192.168.1.7 is server (logserver)

Configure the syslog Clients:

[root@loghost ~root]# vi /etc/syslog.conf

Add following line:

***.* @192.168.1.7**

Re-start the syslog service:

[root@loghost ~root]# service syslog restart

Add a Firewall Rule for accepting remote syslog reception:

[root@loghost ~root]# iptables -L

[root@loghost ~root]# iptables -I OUTPUT -p udp -s 192.168.1.0/24 -d 192.168.1.7 --dport 514 -j
ACCEPT

[root@loghost ~root]# iptables-save > /etc/sysconfig/iptables

[root@loghost ~root]# service iptables restart

[root@loghost ~root]# iptables -L

Check the log from syslog Server:

[root@logsver ~root]# tail -f /var/log/messages (CTRL + C to escape)

[root@loghost ~root]# ssh 192.168.1.2 (try to fail in deferent terminal)

[root@logsver ~root]# tail -f /var/log/secure (CTRL + C to escape)

[root@loghost ~root]# ssh 192.168.1.4 (try to fail in deferent terminal)

[root@logsver ~root]# tail -f /var/log/alert (CTRL + C to escape)

[root@loghost ~root]# nmap 192.168.1.0 (try in deferent terminal)

Set crontab to send you a notification via email.

Lab 8 Report:

- [1] Why do we need log server?
- [2] What port is needed to open on syslog server?
- [3] Why do you replace “-m 0” to “-rm 0” as following?

Replace the line
SYSLOGD_OPTIONS="-m 0"
with
SYSLOGD_OPTIONS="-rm 0"

- [4] Why following firewall rule is important on syslog server?

```
iptables -I RH-Firewall-1-INPUT -p udp -i eth0 -s 192.168.1.0/24 -d 192.168.1.3 --dport 514 -j ACCEPT
```

- [5] Explain above firewall rule?
- [6] How to save current firewall rule sets?
- [7] How to make your syslog server become web-based so that you can check syslog from anywhere with secure manner?
- [8] What did you learn from this lab?