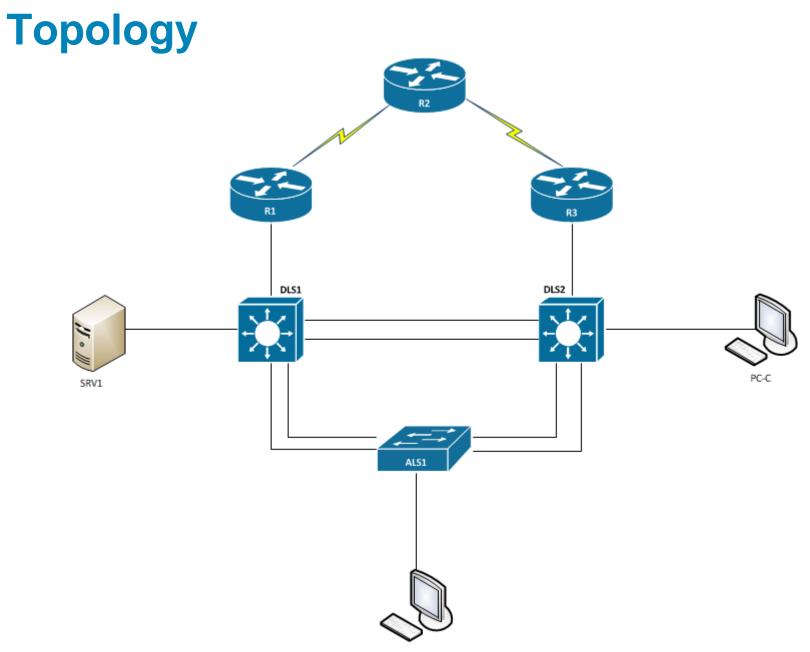
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LAB: SRV-1 services





Tasks

Configure necessary services on SRV1

- 1. tftp-server
- 2. Syslog
- 3. NetFlow collector

A few useful commands

Check which services are listening on which port

nestat -tlnp

Show firewall rules

iptables -L --line-numbers

 Insert firewall rule on specific position in a chain to allow communication on a port

iptables -I INPUT 4 -p udp --dport 514 -j ACCEPT

- INPUT chain
- 4 position of the rule in the chain
- -p protocol type
- -j
 policy

A few useful commands

Save iptables rules

service iptables save

Check which services are running in which runlevel

service name start | stop | restart | status

Start, stop, restart a service with init skript

chkconfig --list

Print appended data as the file grows

tail -f /var/log/messages

Task 1

- Check if tftp-server is installed and running
 - # service xinetd status | start | stop
- Check the settings in /etc/xinet.d/tftp
 - server_args = -s -c /var/lib/tftpboot
 - -c flag allows tftpd to create a file, otherwise, the file must be created first on the tftp server and after that uploaded by a client
- Check if port is allowed on firewall
- Check if tftp-server is operated correctly

ALS1# copy running-config tftp://10.1.50.1/ALS1-DDMMYY-cfg.txt



Check if syslog is installed and running

service rsyslog status | start | stop

- Check the settings in /etc/rsyslogd.conf
 - Cisco devices use local7 facility by default
 - Create directory /var/log/tshoot/
 - local7.* "/var/log/tshoot/%fromhost%.log"
 - Reload config
- Check, if syslog is listening on port 514

netstat -ulnp

Check if port is allowed on firewal



Check if nfdump is installed

which nfdump

Create user accounts to run the daemon:

useradd -r -s /sbin/nologin -d /var/cache/nfdump netflow

mkdir -p /var/cache/nfdump

chown netflow:netflow /var/cache/nfdump

Capture NetFlow data on port 9996:

nfcapd -D -l /var/cache/nfdump -w -S 2 -z -u netflow -g
netflow -p 9996



Capture NetFlow data on port 9996:

nfcapd -D -l /var/cache/nfdump -w -S 1 -z -u netflow -g
netflow -p 9996

- -1 base directory to store netflow data
- -w rotate the files (5 min by default)
- S S SY/Sm/Sd directory sub hierarchy
- Check, if the port is allowed on the firewall
- Print the NetFlow data using nfdump

nfdump -R /var/cache/nfdump/2014/02/01/

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