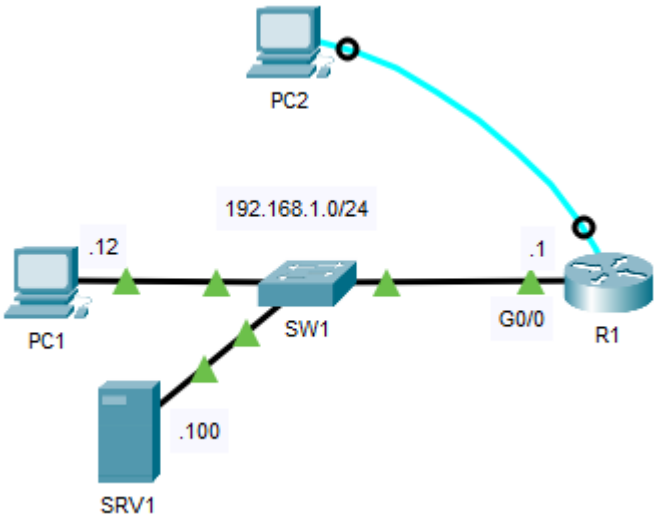
ACTIVITY 40: SYSLOG



1. Connect to R1's console port using PC2:
-Shut down the G0/0 interface. -After you receive a syslog message, re-enable the interface.

```
R1(config)#interface g0/0
R1(config-if)#shutdown

R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to down

R1(config-if)#no shutdown

R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

-What is the severity level of the syslog messages?
The severity level is 5 which is Notice.

-Enable date and timestamps with milliseconds for logging messages

```
R1(config)#service timestamps log datetime msec
R1(config)#
R1(config)#interface g0/0
R1(config-if)#shutdown

R1(config-if)#
*Feb 28, 18:05:06.055: %LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to
administratively down
*Feb 28, 18:05:06.055: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/0, changed state to down
R1(config-if)#no shutdown

R1(config-if)#
*Feb 28, 18:05:11.055: %LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
*Feb 28, 18:05:11.055: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet0/0, changed state to up
```

2. Configure an enable secret of 'ccna'.
-Then configure the VTY lines to allow Telnet and require a password of 'ccent' to connect.

```
R1(config)#enable secret ccna
R1(config)#line vty 0 15
R1(config-line)#transport input telnet
R1(config-line)#password ccent
```

3. Telnet from PC1 to R1's G0/0 interface, then perform a 'no shutdown' on the unused G0/1 interface. -Why does no syslog message appear?

```
C:\>telnet
Cisco Packet Tracer PC Telnet

Usage: telnet target [port]

C:\>telnet 192.168.1.1
Trying 192.168.1.1 ...Open


User Access Verification

Password:
R1>en
Password:
```

```
R1(config)#interface g0/1
R1(config-if)#no shutdown

R1(config-if)#
```

No message is appeared because we did not configure looging messages to appear on VTY lines.

-Configure R1 so that logging/debug messages are displayed on the VTY lines

```
R1#terminal monitor
```

```
R1(config)#interface g0/1
R1(config-if)#shutdown

R1(config-if)#
*Feb 28, 18:10:56.1010: %LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to
administratively down
R1(config-if)#no shutdown

R1(config-if)#
*Feb 28, 18:10:59.1010: %LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to
up
```

4. Configure synchronous logging on the console and VTY lines

```
R1(config)#line console 0
R1(config-line)#logging synchronous
R1(config-line)#line vty 0 15
R1(config-line)#logging synchronous
```

5. Enable logging to the buffer, and configure the buffer size to 8192 bytes.

```
R1(config)#logging buffered 8192
R1(config)#do show logging
```

```
ESM: 0 messages dropped
    Trap logging: level informational, 15 message lines logged
Log Buffer (8192 bytes):
R1(config)#
```

6. Enable logging to the syslog server SRV1.

```
R1(config)#logging 192.168.1.100
```

```
R1(config)#interface g0/1
R1(config-if)#shutdown
R1(config-if)#no shutdown

R1(config-if)#
*Feb 28, 18:15:25.1515: %LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to
up
```