Leonardo Gallego 07/12/2025

SNMP and Syslog

1. Configure SNMP communities on R1. Use Flackbox1 as the Read-Only community string and Flackbox2 as the Read-Write community string

```
R1(config)#snmp community Flackbox1 ro
R1(config)#snmp community Flackbox2 rw
R1(config)#
```

2. Configure R1 to send events from all severity levels to the external Syslog server at 10.0.0.100

```
R1(config)# logging 10.0.0.100
R1(config)# logging trap debugging
```

3. Verify that the correct severity level has been set

```
Buffer logging: disabled, xml disabled,
        filtering disabled
  Logging Exception size (4096 bytes)
  Count and timestamp logging messages: disabled
  Persistent logging: disabled
No active filter modules.
ESM: 0 messages dropped
  Trap logging: level debugging, 14 message lines logged
       Logging to 10.0.0.100 (udp port 514, audit disabled,
            authentication disabled, encryption disabled, link up),
           12 message lines logged,
           0 message lines rate-limited,
           0 message lines dropped-by-MD,
           xml disabled, sequence number disabled
           filtering disabled
R1#
```

4. Enable and then disable the FastEthernet 0/1 interface on R1.

```
R1(config)#interface Fastethernet 0/1
R1(config-if)#no shutdown
R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
R1(config-if)#shutdown
R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to
administratively down
R1(config-if)#end
```

5. On the Syslog server at 10.0.0.100, click 'Services' then 'SYSLOG' and check that you can see events showing the interface going down and coming back up.

