LAB Exercise Ubuntu SNMP

Pre requested software

- Ubuntu 18.04
- Virtual Box – Server (192.168.10.38)
- Virtual Box – Client (192.168.10.37)
- Putty for SSH
  Note: enable putty and ssh and continue your lab exercise.

Server Configuration

Step 01   Update the repository - Ubuntu

`# sudo apt-get update`

Step 02   Installation of SNMP

`# sudo apt-get install snmpd`

`#sudo apt-get install snmp`

Step 03   Configuration of SNMP.

     Part 01   Edit the file

`# sudo nano /etc/snmp/snmpd.conf`

     Part 02   Add the port

*we need to change the **agentAddress** directive. Currently, it is set to only allow connections originating from the local computer. We need to comment out the current line, and uncomment the line underneath, which allows all connections*

 # Listen for connections from the local system only
 # agentAddress udp:127.0.0.1:161
 # Listen for connections on all interfaces (both IPv4 *and* IPv6)
agentAddress udp:161,udp6:[::1]:161

Part 03   Access Control

Replace the following line: (*snmp community is LKNOG2019)*

rocommunity public default   -V systemonly

replace to:

`rocommunity LKNOG2019 default    -V all`

Part 04   System Information

You can add the physical location of your server and a contact email.

`sysLocation       LKNOGColombo`

`sysContact       lknog3@lknog.lk`

note: save and exit. (ctrl+o and ctrl+x)

Step 05   Verify the configurations

`# sudo nano /etc/snmp/snmpd.conf`

Listen for connections on all interfaces (both IPv4 *and* IPv6)

`agentAddress udp:161,udp6:[::1]:161`

```
# ACCESS CONTROL
#
view    all   included    .1.3.6.1.2.1.1
view    all   included    .1.3.6.1.2.1.25.1

#rocommunity public  localhost
                    # Default access to basic system info
rocommunity LKNOG2019 default    -V all
                    # rocommunity6 is for IPv6
rocommunity6 LKNOG2019   default    -V all

sysLocation      LKNOGColombo

sysContact       lknog3@lknog.lk


# ACTIVE MONITORING
#
                    # send SNMPv1 traps
trapsink      localhost LKNOG2019
                    #   send SNMPv2c traps
trap2sink     localhost LKNOG2019
```

note: save and exit. (ctrl+o and ctrl+x)

Step 06   restart the SNMP service

```
#sudo service snmpd restart
```

Or

```
# systemctl restart snmpd.service
```

Step 07   Test SNMP

```
# snmpwalk –v 1 –c LKNOG2019 127.0.0.1:161
```

Or

```
# snmpwalk –v 1 –c LKNOG2019 192.168.10.38:161
```