Net-SNMP installation and configuration guide

net-snmp target version is 5.7 or 5.8

Installation

ubuntu

> $ sudo apt install snmpd snmp libsnmp-dev snmp-mibs-downloader

fedora

> $ sudo dnf install net-snmp net-snmp-utils net-snmp-devel

arch

> $ sudo pacman -S net-snmp

mac

> $ brew install net-snmp

Agent Configuration

stop the agent

linux:

> $ sudo systemctl stop snmpd

creating a work dir - that is known by default to the snmpd

```
$ mkdir ~/.snmp
```

```
$ cd ~/.snmp
```

lets create and snmpd.conf file with the help of the snmpconf (read the instrutions that it gives to you)

```
$ snmpconf
```

- none
- snmpd.conf
- Access Control Setup
- a SNMPv1/SNMPv2c read-write access community name
- gr2020
- localhost
- (press enter)
- finished
- finished
- quit

where do the config files reside?

```
$ net-snmp-config --snmpconfpath
```

e.g.: /etc/snmp/

backup the default configuration file

```
$ sudo mv /etc/snmp/snmpd.conf /etc/snmp/snmpd.conf.bak
```

copy the file to the snmpconfpath directory

```
$ sudo cp snmpd.conf /etc/snmp/
```

start the agent

linux:

> $ sudo systemctl start snmpd

mac: (not tested)

> $ sudo sudo launchctl load -w /System/Library/LaunchDaemons/org.net-snmp.snmpd.plist

begin the agent at system startup (optional)

linux:

> $ sudo systemctl enable snmpd

mac: (not tested - don't know if it is needed)

edit the file /etc/hostconfig

in the file, locate the line

> APPLETALK_HOSTNAME

and add the following entry before APPLETALK_HOSTNAME

> SNMPSERVER:=-YES-

Test it

checks the version

> $ snmpwalk -V

checks if the agent is working

> $ snmpwalk -v 2c localhost -c gr2020 .1.3.6.1.2.1.1

```
$ snmpwalk -v 2c localhost -c gr2020 system
```

see all your MIBs

```
$ snmpwalk -v 2c localhost -c gr2020 .1 | less
```

That command is too verbose for me - Manager Configuration

lets create and snmp.conf file with the help of the snmpconf (read the instrutions that it gives to you)

```
$ snmpconf
```

- none
- snmp.conf
- Default Authentication Options
- The default snmp version number to use
- 2c
- The default snmpv1 and snmpv2c community name to use when needed
- gr2020
- finished
- finished
- quit

copy the file to the snmpconfpath directory

e.g.: /etc/snmp/

```
$ sudo cp snmp.conf /etc/snmp/
```

Test it

```
$ snmpwalk localhost system
```

Set your laptop location in "time and space"

set system.sysLocation.0

> $ snmpset localhost system.sysLocation.0 s "planet earth?"

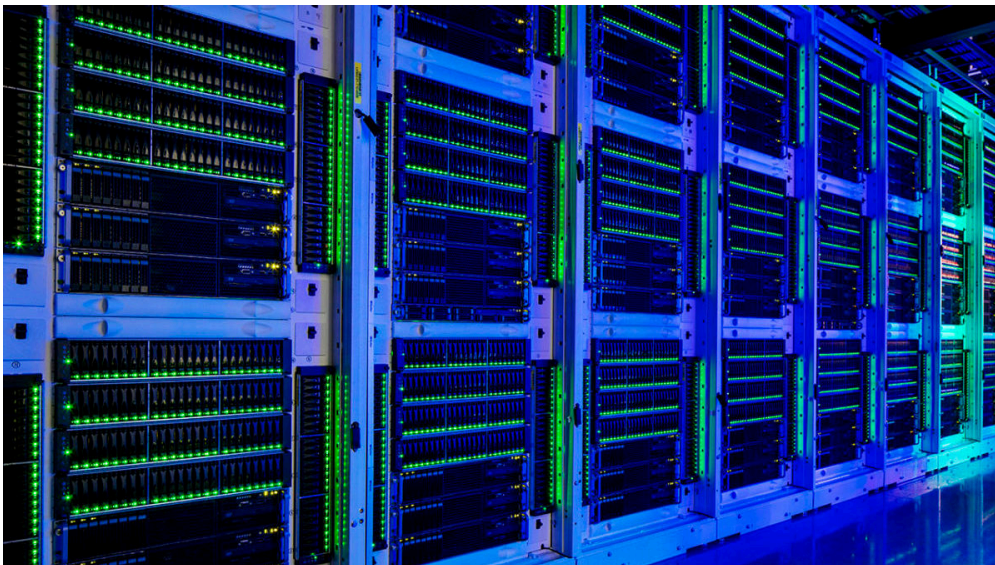### get system.sysLocation.0

> $ snmpget localhost system.sysLocation.0

What is expected of you by the end of this course

you should be able to develop an snmp agent for something like this

Not really!!!

but for something like this, it's possible...