

connected but the really the device work?

- Even the interface is up, no traffic is coming.
- Even it's not the network issue, the network can detect and report.
- Will monitoring the unicast incoming packet or broadcast (up to you!)
- Catalyst 9300 and 16.12.2 was used.

How monitor the interface stat?

- 1= Text Searching from "show interface" Rejected $\pi\pi$ by the requester
- 2= SNMP by pysnmp
 Guestshell needs python3 and pysnmp (5 rpm and 5 whl)
 Can't handle well pysnmp sorry
- 3= SNMP by snmpwalk
 Guestshell needs 2 rpm for install
 Easy to handle

What to Monitor

ifName	ifInMulticastPkts
ifOperStatus	ifInBroadcastPkts
	ifOutMulticastPkts
	ifOutBroadcastPkts
	ifInOctets
	ifInUcastPkts
	ifOutOctets
ifInDiscards	ifOutUcastPkts

Pre-Requirement

1= run guestshell on catalyst

2 = install snmpwalk

yum install net-snmp-utils (if internet is connected) or copy and install by yum install -y *.rpm net-snmp-libs-5.7.2-48.el7_8.1.x86_64.rpm net-snmp-utils-5.7.2-48.el7_8.1.x86_64.rpm

iox

interface VirtualPortGroup0 ip address 192.168.1.1 255.255.255.0

app-hosting appid guestshell app-vnic gateway0 virtualportgroup 0 guest-interface 0 guest-ipaddress 192.168.1.2 netmask 255.255.255.0 app-default-gateway 192.168.1.1 guest-interface 0 name-server0 8.8.8.8

3 = copy 620-4.py, interface.ini and interface.db to bootflash

4 = Edit interface.ini

Pre-Requirement

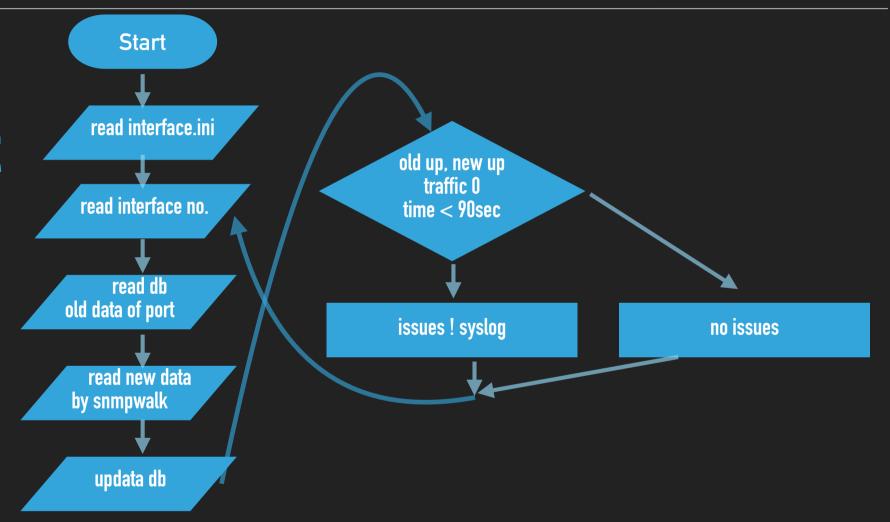
4 = Edit interface.ini
First line, IP address of C9K
Second line, SNMP RO community string
Third line, Interface Number by SNMPWALK separated by , (comma)

You can get the number @guestshell by snmpwalk -v 1 -c public 192.168.1.1 ifName

IF-MIB::ifName.9	=	STRING:	Gi1/0/1
IF-MIB::ifName.10	=	STRING:	Gi1/0/2
IF-MIB::ifName.11	=	STRING:	Gi1/0/3
IF-MIB::ifName.12	=	STRING:	Gi1/0/4
IF-MIB::ifName.13	=	STRING:	Gi1/0/5

192.168.1.1

Flow chart



Run

run event manager - guestshell has no "CRON"

event manager applet YAME-INTEFFACE-MONITOR
event timer watchdog time 60
action 1.0 cli command "enable"
action 2.0 cli command "send log 7 620-4.py executed"
action 3.0 cli command "guestshell run python /bootflash/620-4.py"
action 4.0 cli command "send log 7 620-4.py ended"

DEMO

