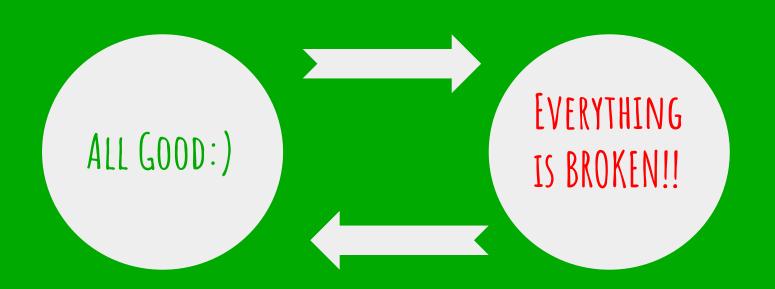
SIMPLE NETWORK MONITORING

VICTOR ZAKHARYEV WORKDAY

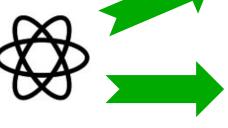
- TIME SERIES
- EVENTS
- STATE (((!!!



(NOT REALLY) SIMPLE NETWORK MANAGEMENT (...RIGHT) PROTOCOL



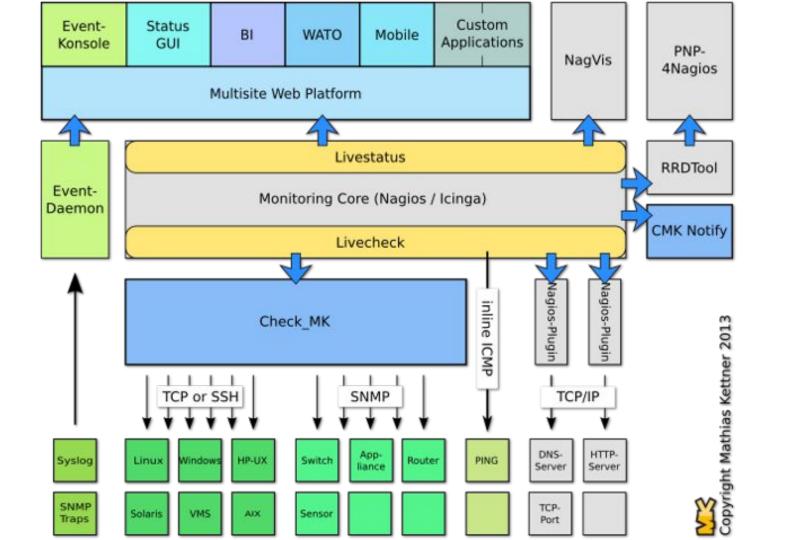




Shinken







HEWLETT-PACKARDTP-LINK
AEROHIVE NETWORKING DELLADVA OPTICAL NETWORKINGARBOR DELLANNA UPILLAL NEIWUKALINGANG LINECAT COAT TES COEXTREME NETWORK

KEMPBLUE COAT TES CHECK PLUGINSARRIS

CBLPAN DACOMOR CHECK PLUGINSARRIS

GENUAGENERIC CHECKPOINTNETGEAR

BINTECCHECKPOINTNETGEAR

OKEY, CHECK THAT I NEED IS STILL NOT THERE, HOW CAN I ADD IT?

Specific MIB Information Name isisISAdjState OID 1.3.6.1.2.1.138.1.6.1.1.2 Syntax INTEGER down(1) initializing(2) up(3) failed(4) read-only Access Status current The state of the adjacency. Description Reference {ISIS.aoi adjacencyState (78)} ISIS-MIB 🖃 MIB MIB Hierarchy 🕎 iso → org → dod → internet → mgmt → mib-2 → isisMIB → isisObjects → isisISAdj → isisISAdjTable isisISAdjEntry isisISAdjIndex isisISAdjState isisISAdj3WayState isisISAdjNeighSNPAAddress isisISAdjNeighSysType isisISAdjNeighSysID isisISAdjNbrExtendedCircID isisISAdjUsage isisISAdjHoldTimer

SOME INITIAL CODE TO GET STARTED

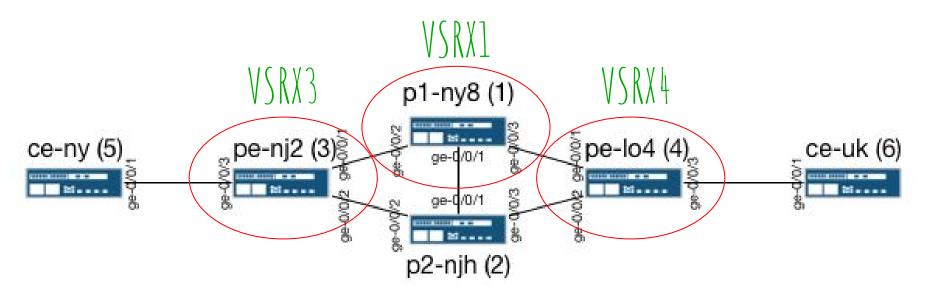
```
def inventory_mynics(info):
  # Debug: lets see how the data we get looks like
  print info
  return []
def check_mynics(item, params, info):
  return (3, "UNKNOWN - not yet implemented")
check_info["mynics"] = {
    "check_function" : check_mynics,
    "inventory_function" : inventory_mynics,
    "service description" : "NIC %s",
                           : ( ".1.3.6.1.2.1.2.2.1", [ "2", "3", "8" ] )
    "snmp info"
```

SLOWLY FILL SOME DETAILS

```
def inventory_mynics(info):
  for nic, type, state in info:
      if type == "6" and state == "1":
     yield, nic, None
def check_mynics(item, _no_params, info):
  for nic, type, state in info:
     if nic == item:
    if state == "1":
       return 0, "OK - link is up" # All Good :)
    else:
       return 2, "CRITICAL - link is " + state #Everything is BROKEN!!11
check_info["mynics"] = {
    "check_function" : check_mynics,
    "inventory function" : inventory_mynics,
    "service description" : "NIC %s",
    "snmp info"
                           : ( ".1.3.6.1.2.1.2.2.1", [ "2", "3", "8" ] )
```

DEMO TIME...

SP LAB LAYOUT



LINKS AND ADDITIONAL INFO

CHECK_MK MAIN WEB-SITE:

HTTP://MATHIAS-KETTNER.COM/CHECK_MK.HTML

CHECK_MK SNMP PLUGIN TUTORIAL:

HTTP://MATHIAS-KETTNER.COM/CHECKMK_DEVEL_SNMPBASED.HTML

LAB'S MONITORING BOX:

HTTPS://GITHUB.COM/VAZIC/CHECKMK-VAGRANT

• LAB'S NETWORK DEVICES:

HTTPS://GITHUB.COM/VAZIC/INEX_MEETING