

Tales of a Custom Data Source

Jesse White

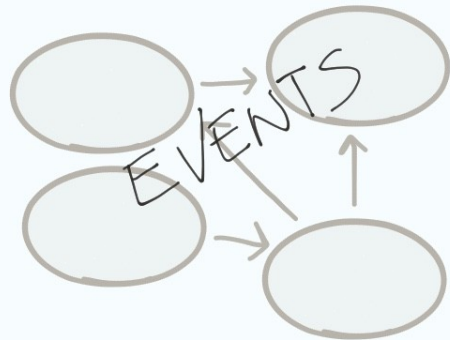
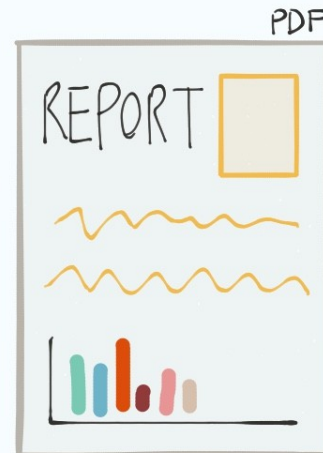
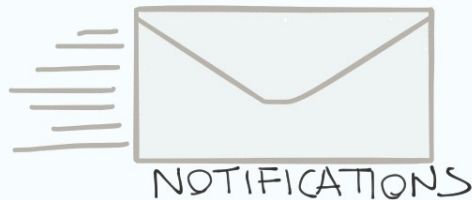
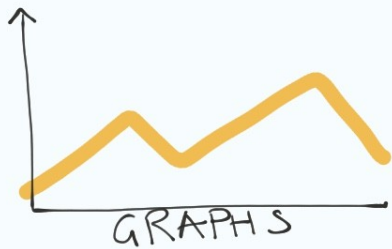
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@jesse_white_

Who?

- Developer
- Open-source enthusiast





SYSLOG

GRAFANA

OPENNMS



SNMP

JDBC

JMX

COLLECTORS

HTTP

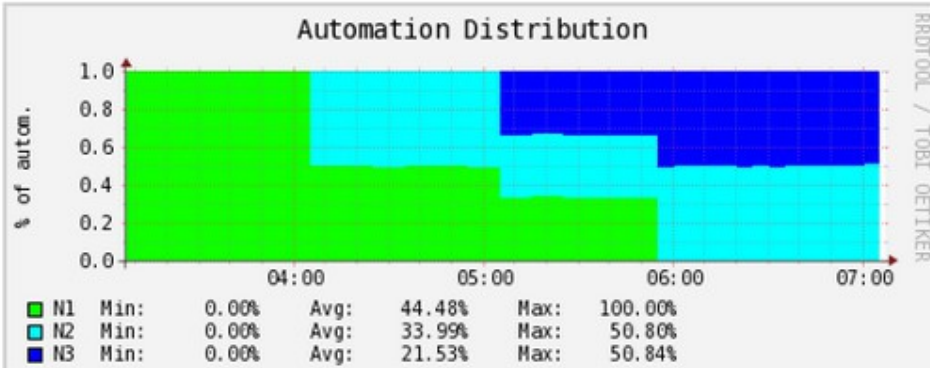
XML

WMI

Full modee

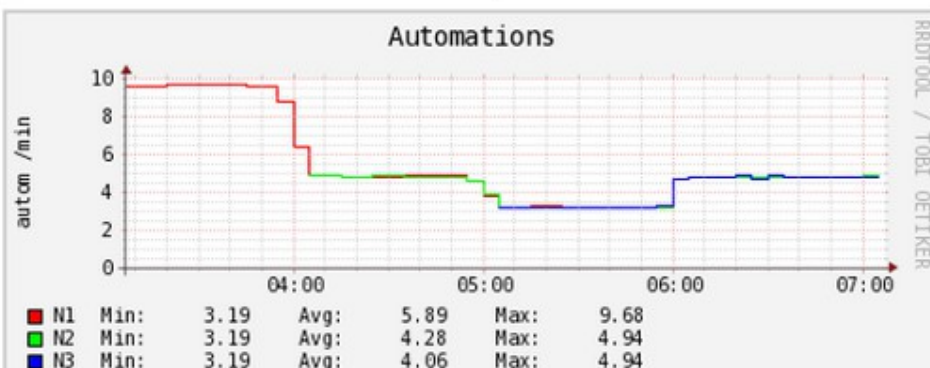
Automation Distribution
From: Fri Aug 02 03:06:30 CEST 2013
To: Fri Aug 02 07:06:30 CEST 2013

Node: Cluster.Reporting
Resource: opennms-jvm (*) [Detail](#)



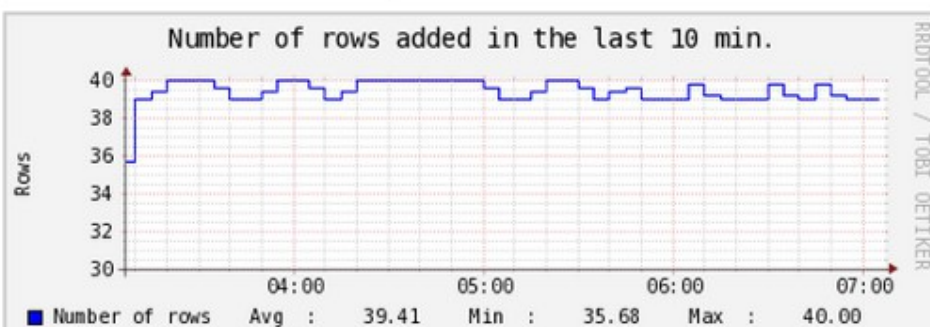
Automations (Per Node)
From: Fri Aug 02 03:06:30 CEST 2013
To: Fri Aug 02 07:06:30 CEST 2013

Node: Cluster.Reporting
Resource: opennms-jvm (*) [Detail](#)



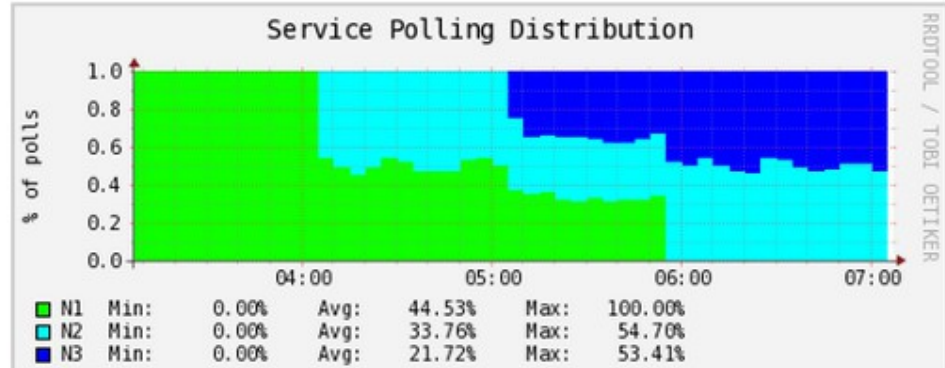
Rows Added
From: Fri Aug 02 03:06:31 CEST 2013
To: Fri Aug 02 07:06:31 CEST 2013

Node: gnms-n0
SNMP Node Data: Node-level Performance Data [Detail](#)



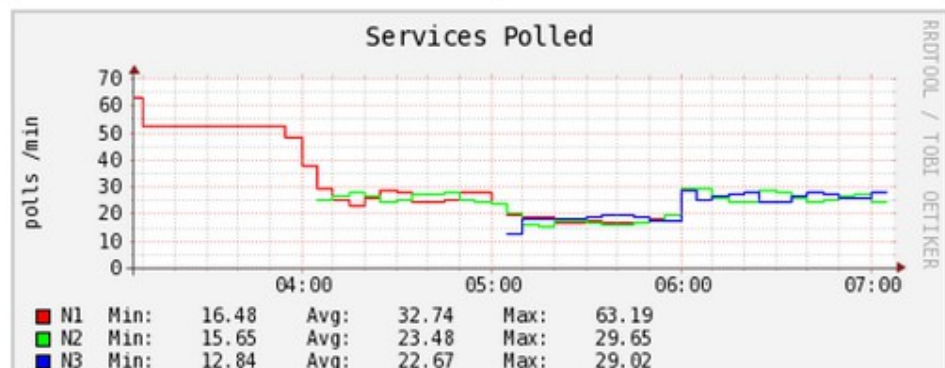
Service Polling Distribution
From: Fri Aug 02 03:06:30 CEST 2013
To: Fri Aug 02 07:06:30 CEST 2013

Node: Cluster.Reporting
Resource: opennms-jvm (*) [Detail](#)



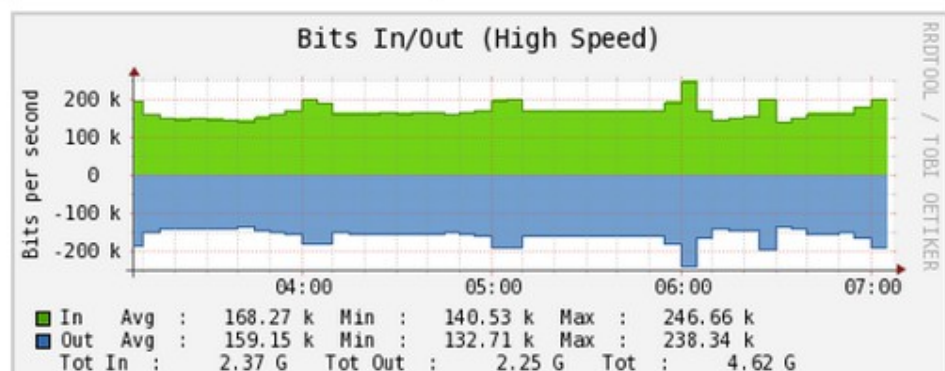
Services Polled (Per Node)
From: Fri Aug 02 03:06:30 CEST 2013
To: Fri Aug 02 07:06:30 CEST 2013

Node: Cluster.Reporting
Resource: opennms-jvm (*) [Detail](#)



Network I/O
From: Fri Aug 02 03:06:31 CEST 2013
To: Fri Aug 02 07:06:31 CEST 2013

Node: gnms-n0
SNMP Interface Data: eth1 (172.16.23.1) [Detail](#)



File Edit View Search Terminal Help

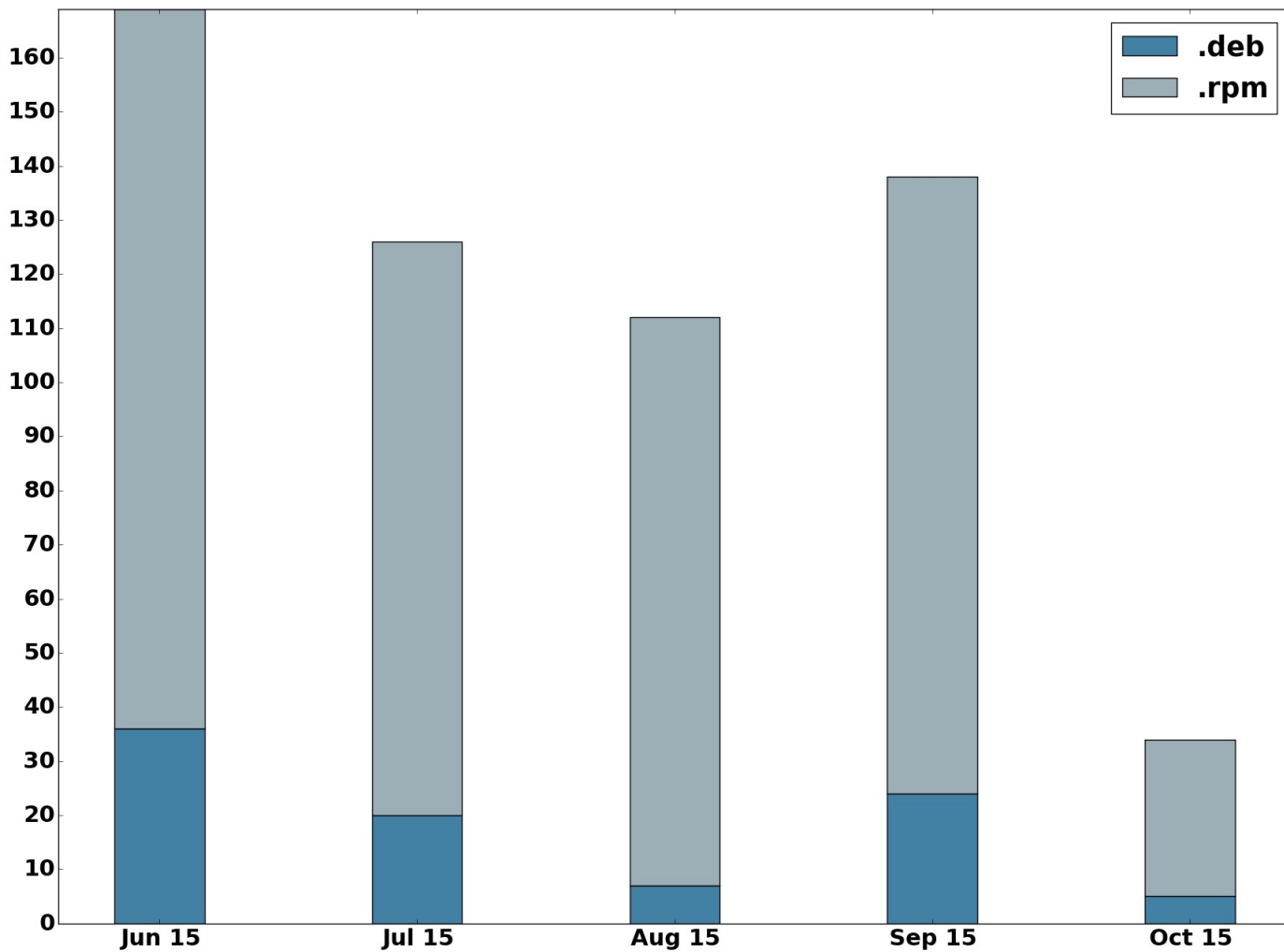
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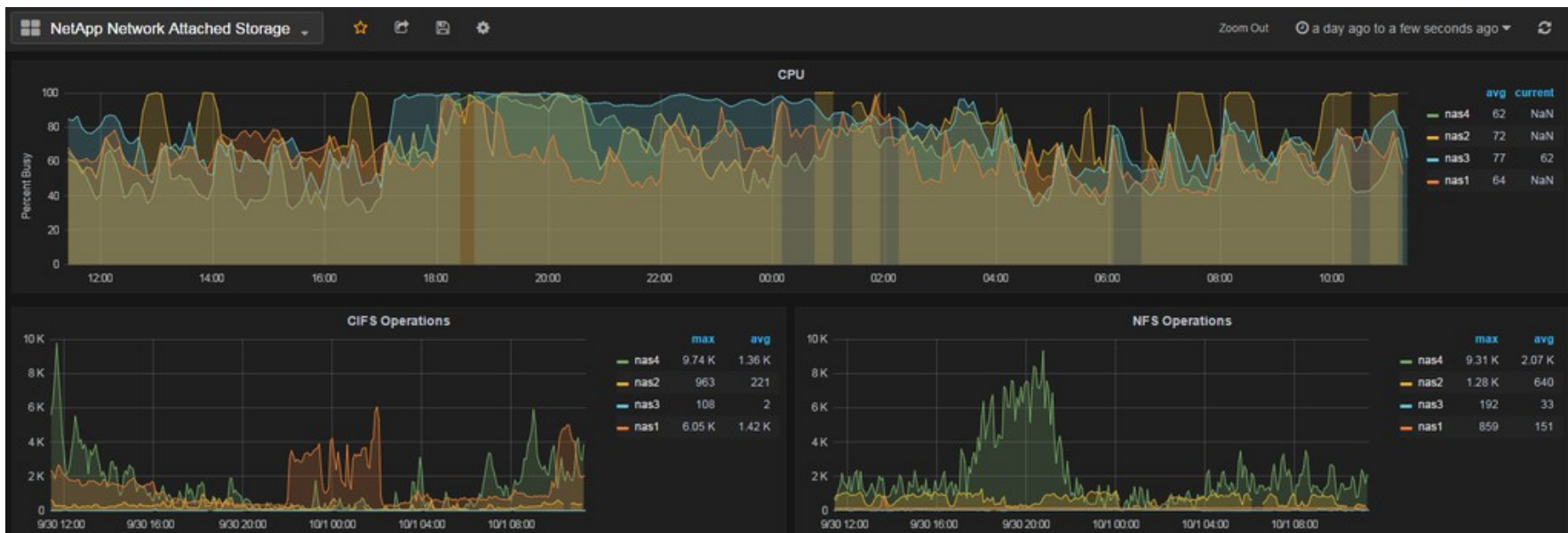
report.mib2.HCbits.name=Bits In/Out (High Speed)
report.mib2.HCbits.suppress=mib2.bits
report.mib2.HCbits.columns=ifHCInOctets,ifHCOutOctets
report.mib2.HCbits.type=interfaceSnmplib
report.mib2.HCbits.command=--title="Bits In/Out (High Speed)" \
--vertical-label="Bits per second" \
DEF:octIn={rrd1}:ifHCInOctets:AVERAGE \
DEF:minOctIn={rrd1}:ifHCInOctets:MIN \
DEF:maxOctIn={rrd1}:ifHCInOctets:MAX \
DEF:octOut={rrd2}:ifHCOutOctets:AVERAGE \
DEF:minOctOut={rrd2}:ifHCOutOctets:MIN \
DEF:maxOctOut={rrd2}:ifHCOutOctets:MAX \
CDEF:rawbitsIn=octIn,8,* \
CDEF:minRawbitsIn=minOctIn,8,* \
CDEF:maxRawbitsIn=maxOctIn,8,* \
CDEF:rawbitsOut=octOut,8,* \
CDEF:minRawbitsOut=minOctOut,8,* \
CDEF:maxRawbitsOut=maxOctOut,8,* \
CDEF:rawbitsOutNeg=0,rawbitsOut,- \
CDEF:rawtotBits=octIn,octOut,+,8,* \
CDEF:bitsIn=rawbitsIn,UN,0,rawbitsIn,IF \
CDEF:bitsOut=rawbitsOut,UN,0,rawbitsOut,IF \
CDEF:totBits=rawtotBits,UN,0,rawtotBits,IF \
CDEF:outSum=bitsOut,{diffTime},* \
CDEF:inSum=bitsIn,{diffTime},* \
CDEF:totSum=totBits,{diffTime},* \
AREA:rawbitsIn#73d216 \
LINE1:rawbitsIn#4e9a06:"In " \
GPRINT:rawbitsIn:AVERAGE:"Avg \\\: %8.2lf %s" \
GPRINT:rawbitsIn:MIN:"Min \\\: %8.2lf %s" \

```

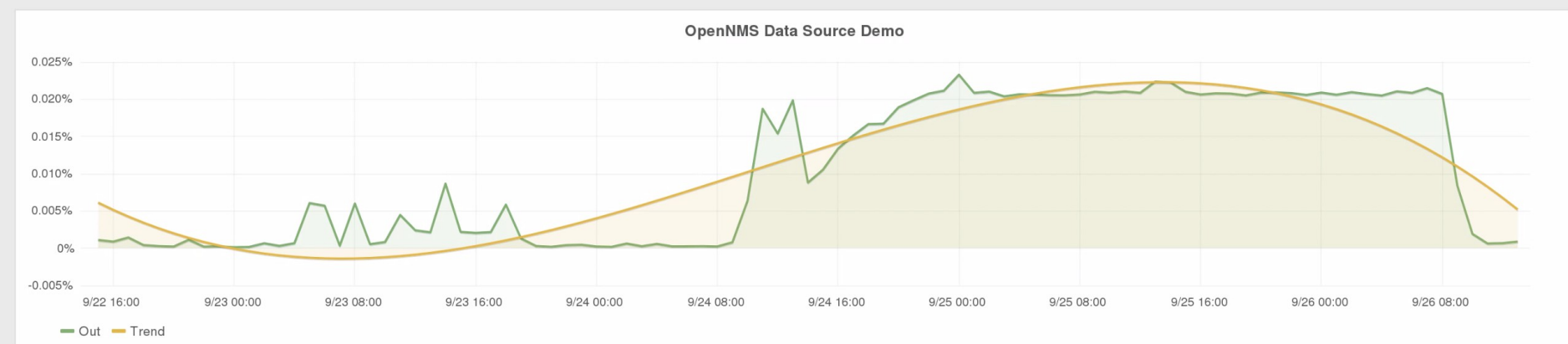
{ REST }











Graph General **Metrics** Axes & Grid Display Styles Time range Back to dashboard

| | |
|-------------|------------------------------------|
| Type | Attribute |
| Node | TOG:1444498539164 |
| Resource | interfaceSnm[ge_0_0_0-a8d0e5a0a48C |
| Attribute | ifHCOutOctets |
| Aggregation | Average |

Label A out

NEXT STEPS

- Metric queries (templates)
- Annotations
- Increased awareness
- Integration



<http://www.opennms.org/wiki/Grafana>

