Move to Check_MK

Experiences from various customers (small to large to fortune 500) who have moved from Solarwinds, BMC Patrol, Nagios to Check_MK

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Opex Software
www.opexsoftware.com
Who are we?

18+ years exp,
Monitoring, Infrastructure and Big Data domain
IT mgmt Product Development background
CTO & Founder, Opex Software

11+ years exp,
Product and infrastructure automation
Provides scalable and innovative solutions for DevOps
What we do @ OpexSoftware

Single metric: Speed with correctness

Mission: Automate Everything. Create Time
Experiences
Reasons of change to Check_MK

Simplification
Devops
Scaling
CMDB driven monitoring
Cost savings
OOB Integration with Enterprise solutions like PagerDuty, JIRA, SNS, IRC, etc
SOME KEY PROBLEMS & SOLUTIONS
Problem without CMDB driven monitoring or visa versa
Manual, slow mechanism of adding and removing a node in Monitoring with right checks

Human dependent and time consuming in a dynamic environment

Monitoring driven operations management
Automated Inventory Management for/from monitoring
GraphSky

Graphsky is a dashboard for Graphite

**NO graphite/carbon agent**

Read Check_MK rrd files for perf data

let’s see how
Clone the GraphSky repo

GGs-MacBook-Pro:work ggn$ git clone https://github.com/opexsw/graphsky.git
Cloning into 'graphsky'...
remote: Counting objects: 664, done.
remote: Total 664 (delta 0), reused 0 (delta 0), pack-reused 664
Receiving objects: 100% (664/664), 3.07 MiB | 512.00 KiB/s, done.
Resolving deltas: 100% (374/374), done.
Checking connectivity... done.
GGs-MacBook-Pro:work ggn$
Graphite local settings

```bash
## Data directories
# NOTE: If any directory is unreadable in DATA_DIRS it will break metric browsing
#WHISPER_DIR = '/var/lib/graphite/whisper'
RRD_DIR = '/omd/sites/opex/opex_data'
#DATA_DIRS = [WHISPER_DIR, RRD_DIR]  # Default: set from the above variables
LOG_DIR = '/var/log/graphite'
INDEX_FILE = '/var/lib/graphite/search_index'  # Search index file
```

Point to the right RRD local storage

```bash
# If using RRD files and rrdcached, set to the address or socket of the daemon
FLUSHRRDCACHED = 'unix:/omd/sites/opex/tmp/run/rrdcached.sock'
```

Set the RRD socket path

Simply restart the Graphite service
Does it work now?
Not Yet
# As long as you retain this notice you can do whatever you want with this stuff.
# If we meet some day, and you think this stuff is worth it, you can buy me a beer in return.

SRCDIR=/omd/sites/opex/var/pnp4nagios/perfdata
DSTDIR=/omd/sites/opex/opex_data
HOSTLIST="/omd/sites/opex/etc/check_mk/conf.d/opex/all_puppet_hosts.mk"
MKDIR="mkdir -p"

cd $DSTDIR ;
while read line
do
  line=$(echo $line | sed '/^$/d' | grep -vE "^\(\|\|\]\|\]"|l|)|")
  if [ -n "$line" ]; then
    dc=$(echo $line | tr ' ' ' ' | awk '{print $2}"
    env=$(echo $line | tr ' ' '' | awk '{print $3}"
    boxtype=$(echo $line | tr ' ' '' | awk '{print $4}"
    host=$(echo $line | tr ' ' '' | awk '{print $1}" | tr """ "xargs"
    if [ -d $DSTDIR/$(dc,) ]; then
      $MKDIR $DSTDIR/$(dc,)
    fi
    if [ -d $DSTDIR/$(dc,)/$(env,) ]; then
      $MKDIR $DSTDIR/$(dc,)/$(env,)
    fi
    if [ -d $DSTDIR/$(dc,)/$(env,)/$(boxtype,) ]; then
      $MKDIR $DSTDIR/$(dc,)/$(env,)/$(boxtype,)
    fi
    cd $DSTDIR/$(dc,)/$(env,)/$(boxtype,)
    ln -sf $SRCDIR/$(host,)
  done < $HOSTLIST

# setup ownership to web user, so it read the files from graphsky
chown -R opex:opex $DSTDIR
Comparison between Check_MK and Other Monitoring tools
Comparison: Few imp features

Virtualization focus
APM via logs (ELK)
Root causal
- Change Information
- Transactional info
IP Address Management
DevOps journey started...

TestNow to get high speed

In pre-prod testing, need the detail transaction (web-app-db-system) level monitoring ALONG with log analytics
**Contact Info**

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**Opex Software**: we measure single metric  
“Speed with correctness”

**Mission**: Automate Everything. Create Time

Opex CEO at HashiConf 2015, Portland, OR