

Deploy VM_INFO Tag to XYMon via Jenkins - Monitor VM-Stats via py-vminfo.py

```
XYmon                                     nakivo.                               .com - vm_info

HISTORY

Tue Nov 22 15:21:02 EST 2016

Ubuntu 14 x64 - NAKIVO_vminfo status for host nakivo. .com

Virtual Machine Stats:

NOTE: Any VM statistics are averages of the last 15 minutes

Server Name           : Ubuntu 14 x64 - NAKIVO
Description           :
Guest                 : Ubuntu Linux (64-bit)
Snapshot Status      : No Snapshots
VM .vmx Path          : [datastore1] Ubuntu 14 x64 - NAKIVO/Ubuntu 14 x64 - NAKIVO.vmx
Virtual Disks         : Hard disk 1 | 25.0GB | Thin: True | [datastore1] Ubuntu 14 x64 - NAKIVO/Ubuntu 14 x64 - NAKIVO.vmdk
Virtual NIC(s)       : Network adapter 1 | VM Network | 00:0c:29:70:ff:a1
[VM] Limits           : CPU: None, Memory: None
[VM] Reservations     : CPU: None, Memory: None
[VM] Number of vCPUs  : 2
[VM] CPU Ready        : Average 0.1 %, Maximum 0.2 %
[VM] CPU (%)          : 0 %
[VM] Memory           : 4896 MB (4.0 GB)
[VM] Memory Shared    : 0 %, 0 MB
[VM] Memory Balloon   : 0 %, 0 MB
[VM] Memory Swapped   : 0 %, 0 MB
[VM] Memory Active    : 3 %, 122 MB
[VM] Datastore Average IO : Read: 0 IOPS, Write: 0 IOPS
[VM] Datastore Average Latency : Read: 0 ms, Write: 0 ms
[VM] Overall Network Usage : Transmitted 0.000 Mbps, Received 0.000 Mbps
[Host] Name           : vbackup.venture3systems.com
[Host] CPU Detail     : Processor Sockets: 1, Cores per Socket 6
[Host] CPU Type       : Intel(R) Core(TM) i7-5820K CPU @ 3.30GHz
[Host] CPU Usage      : Used: 1735 Mhz, Total: 19800 Mhz
[Host] Memory Usage   : Used: 27 GB, Total: 32 GB
```

Jenkins String Variables:

```
VM = This is the name of the VM that we are gathering VM_Info About. Must be copied from vSphere in Full.
SVR = This is the Hostname of the ESXi VM Server
UNAME = This is the Username that we will use to log into ESXi Server
PWD = This is the PWD for the USERNAME Above
vmip = This is the IP for the host from hosts.cfg which this script will append vm_info to that line and
delaypurple
vmshortname = This is the VM's shortname for DNS. AKA W/O domain.com
```

Notes:

I can't get Server-Side scripts to be called by clientlaunch so I use Cron, actually I use Jenkins Cron, but same idea.

Example :

```
* /60 * * * * root /usr/lib/xymon/client/bin/xymoncmd "/usr/lib/xymon/client/ext/${vmshortname}_vminfo.sh"
```

Also, this line Below limits the Purple Reading for 75 Minutes just to give it extra time. This isn't really a "check" so much as a nice way to see the Vm_info in XYMon. The only way this fails is if it gets NO stats. I could grep for something more specific, but I have more specific checks for that, this column is just a nice "overview"

Also provides good intel if you want to see VM_Info during peak hour.

```
sed -i "/^${vmip}/ s/$/ ${vmshortname}_vminfo delaypurple=vm_info:75/" /etc/xymon/hosts.cfg
```

The Meat and Potatoes!

```
cat << 'EOL' >"/usr/lib/xymon/client/ext/${vmshortname}_vminfo.sh"
#!/bin/bash
#This script was created by FreeSoftwareServers
```

```

#Check out my site https://www.freesoftwaresevers.com/wiki/xymon-aka-hobbit-aka-big-brother-3965320.html for
more cool XYMon Stuff!
#In hosts.cfg you need to add vm_vminfo
#Substitute "vm" for what you put in vm variable below aka IP/Hostname

#ESXi Variables
server=$SVR
username=$UNAME
password=$PWD
vm=$VMNAME

#Get CPU & RAM Status
python /opt/python-vmstats/py-vminfo.py -s "$server" -u "$username" -p "$password" -m "$vm" >> "/tmp
/${vmshortname}_vminfo"

###XYMon VM_INFO Section##
HOSTTAG="${vmshortname}_vminfo"
COLUMN=vm_info
cmd="(cat "/tmp/${vmshortname}_vminfo")"
$XYMONHOME/bin/xymongrep $HOSTTAG | while read L
do
    set $L# To get one line of output from xymongrep

    HOSTIP="$1"
    MACHINEDOTS="$2"
    MACHINE=`echo $2 | $SED -e's/\./,/g'`

    COLOR=green
    MSG="$HOSTTAG status for host $MACHINEDOTS"

if [ -z "$cmd" ]
then

COLOR=red
MSG="{MSG}

Couldn't Connect to ${server} to get VM_INFO

"${cmd}"
"
else
MSG="{MSG}

Virtual Machine Stats:

"${cmd}"
"
fi

$XYMON $XYMSRV "status $MACHINE.$COLUMN $COLOR `date`

${MSG}
"
done

rm "/tmp/${vmshortname}_vminfo"

exit 0
EOL

sudo chown xymon:xymon "/usr/lib/xymon/client/ext/${vmshortname}_vminfo.sh"
sudo chmod 500 "/usr/lib/xymon/client/ext/${vmshortname}_vminfo.sh"

sed -i "/^${vmip}/ s/$/ ${vmshortname}_vminfo delaypurple=vm_info:75/" /etc/xymon/hosts.cfg

/usr/lib/xymon/client/bin/xymoncmd "/usr/lib/xymon/client/ext/${vmshortname}_vminfo.sh"

```

