Hi,

Thank you for your great job on ovirt and vdsm. Now I devote myself to compile vdsm on centos 6.3 host and attach it to a ovirt engine. But when I attach the host which contains a compiled vdsm to a ovirt engine , the status of the host is always ‘Non Responsive’(step 11 below). I reference the links below:

http://www.ovirt.org/Vdsm\_Developers

http://www.ovirt.org/Installing\_VDSM\_from\_rpm

The steps( 1-9 ) are executed on centos6.3 host, and the steps(10--11) are executed on ovirt engine. So I would be very grateful if you can give me some clues that if I've missed anything or I done something wrong.

## 1 Deployment platform

 Centos6.3

 Linux bogon 2.6.32-431.20.3.el6.x86\_64 #1 SMP Thu Jun 19 21:14:45 UTC 2014 x86\_64 x86\_64 x86\_64 GNU/Linux

 Ip ： 10.1.8.252

CPU supports hardware virtualization extensions:

# cat /proc/cpuinfo | egrep 'svm|vmx'| grep nx

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx rdtscp lm constant\_tsc arch\_perfmon pebs bts rep\_good xtopology nonstop\_tsc aperfmperf pni pclmulqdq dtes64 monitor ds\_cpl vmx est tm2 ssse3 cx16 xtpr pdcm pcid sse4\_1 sse4\_2 popcnt tsc\_deadline\_timer xsave lahf\_lm arat epb xsaveopt pln pts dts tpr\_shadow vnmi flexpriority ept vpid

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx rdtscp lm constant\_tsc arch\_perfmon pebs bts rep\_good xtopology nonstop\_tsc aperfmperf pni pclmulqdq dtes64 monitor ds\_cpl vmx est tm2 ssse3 cx16 xtpr pdcm pcid sse4\_1 sse4\_2 popcnt tsc\_deadline\_timer xsave lahf\_lm arat epb xsaveopt pln pts dts tpr\_shadow vnmi flexpriority ept vpid

##  2 Apply all updates

## # yum -y update

##  3 Installing required packages

RHEL 6 users must add EPEL yum repository for installing python-ordereddict and pyton-pthreading. The rpm bellow will install the epel yum repo and required gpg keys.

# yum install http://download.fedoraproject.org/pub/epel/6/i386/epel-release-6-8.noarch.rpm

RHEL 6 users must install a newer pep8 version than the one shipped in EPEL6. Older pep8 versions have a bug that's tickled by vdsm. You can use `pip`, or

yum install http://danken.fedorapeople.org/python-pep8-1.4.5-2.el6.noarch.rpm

oVirt repo:

yum install http://resources.ovirt.org/releases/ovirt-release.noarch.rpm

RHEL 6 users must add the glusterfs repository, providing newer glusterfs not available on RHEL 6. Optionally install 'wget' if not present

rpm -q wget 2> /dev/null || yum install wget

wget -O /etc/yum.repos.d/glusterfs-epel.repo [**http://download.gluster.org/pub/gluster/glusterfs/LATEST/EPEL.repo/glusterfs-epel.repo**](http://download.gluster.org/pub/gluster/glusterfs/LATEST/EPEL.repo/glusterfs-epel.repo)

Fedora and RHEL 6 users must verify the following packages are installed before attempting to build:

 yum install make autoconf automake pyflakes logrotate gcc python-pep8 libvirt-python python-devel \

 python-nose rpm-build sanlock-python genisoimage python-ordereddict python-pthreading libselinux-python\

 python-ethtool m2crypto python-dmidecode python-netaddr python-inotify python-argparse git \

python-cpopen bridge-utils libguestfs-tools-c pyparted openssl libnl libtool gettext-devel python-ioprocess libvirt libvirt-client libvirt-lock-sanlock

## 4 Getting the source

cd /root

git clone [**http://gerrit.ovirt.org/p/vdsm.git**](http://gerrit.ovirt.org/p/vdsm.git)

cd vdsm

## 5 Building a Vdsm RPM

./autogen.sh –system

./configure --prefix=/usr --sysconfdir=/etc --localstatedir=/var --libdir=/usr/lib --enable-hooks

make rpm NOSE\_EXCLUDE=.\*

## 6 Basic installation and start

When building from source, you should enable the ovirt-beta repository, to satisfy dependencies that are not available yet in the release repository.

# cd ~/rpmbuild/RPMS

# yum install --skip-broken --enablerepo=ovirt-master-snapshot-static x86\_64/\* noarch/vdsm-xml\* noarch/vdsm-cli\* noarch/vdsm-python-zombiereaper\* noarch/vdsm-\*jsonrpc\*

Before starting vdsmd service for the first time vdsm requires some configuration procedures for external services that being used by vdsmd. To ease this process vdsm provides a utility (vdsm-tool). To perform full reconfiguration of external services perform:

# vdsm-tool configure --force

(for more information read "vdsm-tool --help")

## 7 Finally start the vdsmd service

# service vdsmd start

## 8 Yum install -y bridge-utils

Configuring the bridge Interface as below

Disable the network manager service by executing as root:

systemctl stop NetworkManager.service

systemctl disable NetworkManager.service

service network start

chkconfig network on

Add the following content into a new file named: **/etc/sysconfig/network-scripts/ifcfg-ovirtmgmt**:

DEVICE=ovirtmgmt

TYPE=Bridge

ONBOOT=yes

DELAY=0

BOOTPROTO=static

IPADDR=10.1.8.252

NETMASK=255.255.255.0

GATEWAY=10.1.8.254

Add the following line into the configuration file of your out going interface (usually em1/eth0) the file is located at: **/etc/sysconfig/network-scripts/ifcfg-em1** (assuming the device is em1)

BRIDGE=ovirtmgmt

and remove the IPADDR, NETMASK and BOOTPROTO keys, since the interface should not have an IP address of its own. Full Example

DEVICE=em1

ONBOOT=yes

BRIDGE=ovirtmgmt

Restart the network service by executing:

service network restart

**Note that if any other bridge (from ovirtmgmt) is present at the time of host installation, the bridge creation operation is skipped and you have to change the bridge settings to correspond to above shown configuration manually.**

**9 Configuring VDSM**

Add the following content into the file: **/etc/vdsm/vdsm.conf** (you may need to create that file):

[vars]

ssl = false

Restart the vdsmd service by executing:

service vdsmd restart

If Vdsm was started earlier with ssl=true, it would refuse to start and you may need to use the undocumented verb

service vdsmd reconfigure

service vdsmd start

which edits **/etc/libvirt/qemu.conf** and changes **spice\_tls=1** to **spice\_tls=0**.

## 10 Connect to overt-engine

**ref:  [OVirt\_-\_connecting\_development\_vdsm\_to\_ovirt\_engine](http://www.ovirt.org/OVirt_-_connecting_development_vdsm_to_ovirt_engine%22%20%5Co%20%22OVirt%20-%20connecting%20development%20vdsm%20to%20ovirt%20engine).**

**su - postgres -c "psql engine -c \"UPDATE vdc\_options set option\_value = 'true' where option\_name = 'InstallVds'\""**

**service overt-engine restart**

## 11 Attach the host to the engine

 I login the engine Administration Portal , and attach the centos host to a cluster. But it failed.