

1. Added 30 GB Disk on VM and mounted as **/var/crash\_logs** mount point under **LVM** Control to avoid / FS full.

```
[root@emshalgaqhydb01 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/rootvg-rootvol
                23G  6.1G  16G  28% /
/dev/sda1        248M   43M  193M  19% /boot
tmpfs           7.5G   0  7.5G   0% /dev/shm
/dev/mapper/vg_emshalgaqhydb01_01-product
                99G  27G  68G  29% /opt/oracle/product
/dev/mapper/vg_backup_00-backup
                148G  49G  92G  35% /emhypq01/backup
/dev/mapper/vg_emshalgaqhydb01_02-lv_var_crash
                30G  172M  28G   1% /var/crash_logs
nascldbv1.storage.cloud.ge.com:/vol/cldalsvr_empcalgaqtcdb01_oemem
                100G  6.4M  100G   1% /oemem
[root@emshalgaqhydb01 ~]
```

2. Ensure the kernel paramétriser on **grub.conf** :

```
[root@emshalgaqhydb01 ~]# cat /boot/grub/grub.conf
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
#    all kernel and initrd paths are relative to /boot/, eg.
#    root (hd0,0)
#    kernel /vmlinuz-version ro root=/dev/rootvg/rootvol
#    initrd /initrd-version.img
#boot=/dev/sda
default=0
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title Oracle Linux Server (2.6.18-406.0.0.1.el5)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-406.0.0.1.el5 ro root=/dev/rootvg/rootvol nomodeset elevator=deadline
    crashkernel=128M@32M
    initrd /initrd-2.6.18-406.0.0.1.el5.img
```

```
title Oracle Linux Server (2.6.18-274.18.1.el5)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-274.18.1.el5 ro root=/dev/rootvg/rootvol nomodeset elevator=deadline
crashkernel=128M@64M
    initrd /initrd-2.6.18-274.18.1.el5.img
[root@emshalgaqhydb01 ~]#
```

3. Update the *kdump.conf* file as below :

```
[root@emshalgaqhydb01 ~]# cat /etc/kdump.conf
#path /var/crash_logs
ext4 UUID=c4367803-5f53-416c-8b09-5cb3cd9d5652
core_collector makedumpfile -c -d 17
default reboot
[root@emshalgaqhydb01 ~]#
```

In the above scenario I used the newly created mount point */var/crash\_logs* with *blkid* as *ext4 UUID=c4367803-5f53-416c-8b09-5cb3cd9d5652* or you can use with *path* too..

**Example :**

```
[root@emshalgaqhydb01 ~]# cat /etc/kdump.conf
path /var/crash_logs
core_collector makedumpfile -c -d 17
default reboot
[root@emshalgaqhydb01 ~]#
```

Configuring the Core Collector under *kdump.conf* file as below :

```
core_collector makedumpfile -c -d 17
```

4. Stop the service :

```
[root@emshalgaqhydb01 ~]# chkconfig kdump off
```

5. Start the service:

```
[root@emshalgaqhydb01 ~]# chkconfig kdump on
```

6. Restart the service to detect the Changes:

```
[root@emshalgaqhydb01 ~]# service kdump restart
```

Stopping kdump: [ OK ]

Detected change(s) the following file(s):

*/etc/kdump.conf*

Rebuilding /boot/initrd-2.6.18-406.0.0.0.1.el5kdump.img

WARNING: No module scsi-wait-scan found for kernel 2.6.18-406.0.0.0.1.el5, continuing anyway

WARNING: No module scsi-wait-scan found for kernel 2.6.18-406.0.0.0.1.el5, continuing anyway

Starting kdump: [ OK ]

*7. To verify the service on run levels:*

```
[root@emshalgaqhydb01 ~]# chkconfig --list | grep kdump
kdump      0:off 1:off 2:on 3:on 4:on 5:on 6:off
```

*8. Reboot the system:*

```
[root@emshalgaqhydb01 ~]# init 6
```

*9. To test the configuration, reboot the system with kdump enabled, and make sure that the service is running:*

```
[root@emshalgaqhydb01 ~]# service kdump status
```

**Kdump is operational**

```
[root@emshalgaqhydb01 ~]#
```

*10. To force the Linux kernel to crash :*

```
echo 1 > /proc/sys/kernel/sysrq
```

```
echo c > /proc/sysrq-trigger
```

*Test Evidence :*

```
[root@emshalgaqhydb01 crash]# uname -a
```

```
Linux emshalgaqhydb01 2.6.18-406.0.0.0.1.el5 #1 SMP Tue Jun 2 10:30:11 PDT 2015 x86_64 x86_64
GNU/Linux
```

```
[root@emshalgaqhydb01 crash]# ls -lrt
```

```
total 4
```

```
drwxr-xr-x 2 root root 4096 Oct 30 11:40 127.0.0.1-2015-10-30-11:37:35
```

```
[root@emshalgaqhydb01 crash]# pwd
```

```
/var/crash_logs/var/crash
```

```
[root@emshalgaqhydb01 crash]#
```