Subject: *SOLVED* GFS support in OpenVZ VPS
Posted by mallah_rajesh on Sun, 11 Mar 2007 14:05:03 GMT
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Hi ,

Is there *any* way to get GFS working with OpenVZ kernel.

the stable 2.6.9 kernel seems to have clustering support
and support for GFS filesystem and some locking facilities.

But when we attempt to compile Redhat Cluster Suite CVS
version for RHEL4 kernel it does not compile.

There is already a thread about it.

But is there any solution to share a filesystem
across multiple VPS.

what is the scope of the GFS support in the stable openvz
2.6.9 kernel , what use is it of ?

Regds
mallah.

Subject: Re: GFS support in OpenVZ VPS
Posted by Vasily Tarasov on Tue, 13 Mar 2007 08:11:28 GMT
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Hello,

Quote:But is there any solution to share a filesystem
across multiple VPS.

If you want to have a common directory for VEs, you can use bind mounts after VEs start:
mount --bind /mnt /vz/root/<veid>/mnt /mnt directory on HN can be any available filesystem, for
example, it can be NFS, mounted from external server.

As concerns GFS. In 2.6.9 OpenVZ kernels series GFS is available as a module. You can create
a VE on GFS, but you can't use vzquota for such VEs. In 2.6.18-test kernels GFS support is not
available. In new stable 2.6.18-rhel5 OpenVZ kernels (it will be available soon after RHEL5
release) GFS will be also supported.

Vasily.

Subject: Re: GFS support in OpenVZ VPS
Posted by mallah_rajesh on Fri, 16 Mar 2007 23:17:08 GMT

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mount --bind

does not work. i have done exactly as you
say. where do you think is the problem ?

```
[root@IPDDFG0595ATL2 root]# mount --bind /opt/website_data /mnt/disk2/private/1002/opt/x
[root@IPDDFG0595ATL2 root]# ls  /mnt/disk2/private/1002/opt/x

catalog_data     catalog_xsl.tar    datafiles images tlrating webmail_data
catalog_xsl      catalog_xsl.tar.gz fm        logos tlrfidata websites
catalog_xsl.bak  credit_reports     fonts     out   vmonitor

[root@IPDDFG0595ATL2 root]# vzctl exec 1002 ls /opt/x

[root@IPDDFG0595ATL2 root]# mount
/dev/sda2 on / type ext3 (rw,usrquota,grpquota)
none on /proc type proc (rw)
none on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
none on /dev/shm type tmpfs (rw)
/dev/sdb1 on /mnt/disk2 type xfs (rw)
/opt/website_data on /mnt/disk2/private/1002/opt/x type none (rw,bind)
```

Subject: Re: GFS support in OpenVZ VPS
Posted by curx on Sat, 17 Mar 2007 08:33:36 GMT

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use "root" directory not "private" :

[root@IPDDFG0595ATL2 root]# mount --bind /opt/website_data /mnt/disk2/private/1002/opt/x

to

[root@IPDDFG0595ATL2 root]# mount --bind /opt/website_data /mnt/disk2/root/1002/opt/x

Note: VE minimal state must be mount.

Subject: Re: GFS support in OpenVZ VPS
Posted by mallah_rajesh on Sat, 17 Mar 2007 09:40:43 GMT
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Thats wondeful, thanks a ton. It worked and part of my
problem is solved.

The main problem is however to get GFS/GFS2 working either on
the HN or in VE.

I have installed the recently released OpenVZ kernel
based on RHEL5 kernel.
http://openvz.org/download/kernel/rhel5/
the install was successful and there is GFS
support in the OpenVZ kernel.

I am however facing problem in getting the Redhat cluster
suite compiled . note that cluster source below is from
CVS. from URL
http://sources.redhat.com/cluster/

cvs -d :pserver:cvs@sources.redhat.com:/cvs/cluster checkout cluster

the problem below is encountered.

Can anyone please tell which cluster source can get compiled
with the recently released rhel5 based kernel with gfs
support ?

regds
mallah.

[root@IPDDFG0595ATL2 cluster]# ./configure --kernel_src=/usr/src/linux-2.6.18
configure gnbd-kernel

Configuring Makefiles for your system...
Completed Makefile configuration

configure ccs

Configuring Makefiles for your system...
Completed Makefile configuration

---

configure cman

Configuring Makefiles for your system...
Completed Makefile configuration

configure group

Configuring Makefiles for your system...
Completed Makefile configuration

configure dlm

Configuring Makefiles for your system...
Completed Makefile configuration

configure fence

Configuring Makefiles for your system...
Completed Makefile configuration

configure gfs-kernel

Configuring Makefiles for your system...
Completed Makefile configuration

configure gfs

Configuring Makefiles for your system...
Completed Makefile configuration

configure gfs2

Configuring Makefiles for your system...
Completed Makefile configuration

configure gnbd

Configuring Makefiles for your system...
Completed Makefile configuration

configure rgmanager

Configuring Makefiles for your system...
Completed Makefile configuration

[root@IPDDFG0595ATL2 cluster]# make
make -C gnbd-kernel all
make[1]: Entering directory `/opt/sources/gfs/cluster/gnbd-kernel'

```
make -C src all
make[2]: Entering directory `/opt/sources/gfs/cluster/gnbd-kernel/src'
make -C /usr/src/linux-2.6.18 M=/opt/sources/gfs/cluster/gnbd-kernel/src modules
USING_KBUILD=yes
make[3]: Entering directory `/usr/src/linux-2.6.18'
  CC [M]  /opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.o
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c: In function `do_gnbd_request':
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:578: structure has no member named `cmd_type'
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c: In function `gnbd_init':
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:888: structure has no member named `cmd_type'
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:888: `REQ_TYPE_SPECIAL' undeclared (first use
in this function)
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:888: (Each undeclared identifier is reported only
once
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:888: for each function it appears in.)
/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.c:893: structure has no member named `cmd_type'
make[4]: *** [/opt/sources/gfs/cluster/gnbd-kernel/src/gnbd.o] Error 1
make[3]: *** [_module_/opt/sources/gfs/cluster/gnbd-kernel/src] Error 2
make[3]: Leaving directory `/usr/src/linux-2.6.18'
make[2]: *** [all] Error 2
make[2]: Leaving directory `/opt/sources/gfs/cluster/gnbd-kernel/src'
make[1]: *** [all] Error 2
make[1]: Leaving directory `/opt/sources/gfs/cluster/gnbd-kernel'
make: *** [all] Error 2
[root@IPDDFG0595ATL2 cluster]#
```

Subject: Re: GFS support in OpenVZ VPS
Posted by Andrey Mirkin on Sat, 17 Mar 2007 14:12:57 GMT
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Why do you need to compile Redhat cluster suite from sources?
Isn't it would be easier to install rpm packages from RHEL5 distribution?
BTW, can you compile cluster suite with RHEL5 (non-ovz) kernel?
If not, then I thisnk it would be better to ask Redhat about broken compilation

Subject: Re: GFS support in OpenVZ VPS
Posted by mallah_rajesh on Sat, 17 Mar 2007 17:57:19 GMT
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Quote:
Why do you need to compile Redhat cluster suite from sources?
Isn't it would be easier to install rpm packages from RHEL5 distribution?
BTW, can you compile cluster suite with RHEL5 (non-ovz) kernel?
If not, then I thisnk it would be better to ask Redhat about broken compilation

I am running RHEL3 on HN , i am apprehensive about the
dependencies of RH cluster suite.

Lemme try to see if the culster sources compile with RHEL5
(non ovz) kernel.

BTW how is the GFS support in RHEL5 based ovz kernel
intended to be used if userland tools do not compile?

regds
mallah.

Subject: Re: GFS support in OpenVZ VPS
Posted by Andrey Mirkin on Mon, 19 Mar 2007 11:05:52 GMT
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Quote:I am running RHEL3 on HN , i am apprehensive about the
dependencies of RH cluster suite.
Try to install src rpms and build suite using rpmbuild utility. I think it is easiest way to resolve
dependencies.

Quote:BTW how is the GFS support in RHEL5 based ovz kernel
intended to be used if userland tools do not compile?
Well, I don't see any difficulties. All gfs2 and dlm kernel modules are present in RHEL5 based ovz
kernel. So, you just need to install userspace tools to use GFSv2.
I didn't try to build cluster userspace utilities from sources. I just installed cluster packages from
RHEL5 distro and it works.

Subject: *SOLVED* Re: GFS support in OpenVZ VPS
Posted by mallah_rajesh on Tue, 20 Mar 2007 00:49:29 GMT
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Quote:
I just installed cluster packages from RHEL5 distro and it works.

thanks for the confirmation , i shall check that.