DEPLOYING A DEVELOPMENT CLUSTER

In order to develop on ceph, a Ceph utility, *vstart.sh*, allows you to deploy fake local cluster for development purpose.

USAGE

It allows to deploy a fake local cluster on your machine for development purpose. It starts mon, osd and/or mds, or all of them if not specified.

To start your development cluster, type the following:

```
vstart.sh [OPTIONS]... [mon] [osd] [mds]
```

In order to stop the cluster, you can type:

```
./stop.sh
```

OPTIONS

-i `ip_address`
Bind to the specified *ip_address* instead of guessing and resolve from hostname.

-k
Keep old configuration files instead of overwritting theses.

-l, **--localhost**
Use localhost instead of hostanme.

-m `ip[:port]`
Specifies monitor *ip* address and *port*.

-n, **--new**
Create a new cluster.

-o `config`
Add *config* to all sections in the ceph configuration.

-r
Start radosgw (ceph needs to be compiled with –radosgw), create an apache2 configuration file, and start apache2 with it (needs apache2 with mod_fastcgi) on port starting from 8000.

--nodaemon
Use ceph-run as wrapper for mon/osd/mds.

--smallmds
Configure mds with small limit cache size.

-x
Enable Cephx (on by default).

-X
Disable Cephx.

-d, **--debug**
Launch in debug mode

--valgrind`[_{osd,mds,mon}] 'valgrind_toolname [args...]'`
Launch the osd/mds/mon/all the ceph binaries using valgrind with the specified tool and arguments.

ENVIRONMENT VARIABLES

{OSD,MDS,MON,RGW}

Theses environment variables will contains the number of instances of the desired ceph process you want to start.

Example:

```
OSD=3 MON=3 RGW=1 vstart.sh
```