

FREEBSD IMPLEMENTATION DETAILS

DISK LAYOUT

Current implementation works on ZFS pools

- created in `/var/lib/ceph`
- One ZFS pool per OSD, like:

```
gpart create -s GPT ada1
gpart add -t freebsd-zfs -l osd1 ada1
zpool create -o mountpoint=/var/lib/ceph/osd/osd.1 osd
```

- Maybe add some cache and log (ZIL)? Assuming that ada2 is an SSD:

```
gpart create -s GPT ada2
gpart add -t freebsd-zfs -l osd1-log -s 1G ada2
zpool add osd1 log gpt/osd1-log
gpart add -t freebsd-zfs -l osd1-cache -s 10G ada2
zpool add osd1 log gpt/osd1-cache
```

- Note: *UFS2 does not allow large xattrs*

CONFIGURATION

As per FreeBSD default parts of extra software go into `/usr/local/`. Which means that for `/etc/ceph.conf` the default location is `/usr/local/etc/ceph/ceph.conf`. Smartest thing to do is to create a softlink from `/etc/ceph` to `/usr/local/etc/ceph`:

```
ln -s /usr/local/etc/ceph /etc/ceph
```

A sample file is provided in `/usr/local/share/doc/ceph/sample.ceph.conf`

MON CREATION

Monitors are created by following the manual creation steps on:

```
http://docs.ceph.com/docs/master/install/manual-deployment/
```

OSD CREATION

OSDs can be create with `ceph-disk`:

```
ceph-disk prepare /var/lib/ceph/osd/osd1
ceph-disk activate /var/lib/ceph/osd/osd1
```

And things should automagically work out.