## HTTP REQUEST ERRORS

Examining the access and error logs for the web server itself is probably the first step in identifying what is going on. If there is a 500 error, that usually indicates a problem communicating with the radosgw daemon. Ensure the daemon is running, its socket path is configured, and that the web server is looking for it in the proper location.

## CRASHED RADOSGW PROCESS

If the radosgw process dies, you will normally see a 500 error from the web server (apache, nginx, etc.). In that situation, simply restarting radosgw will restore service.

To diagnose the cause of the crash, check the log in /var/log/ceph and/or the core file (if one was generated).

## **BLOCKED RADOSGW REQUESTS**

If some (or all) radosgw requests appear to be blocked, you can get some insight into the internal state of the radosgw daemon via its admin socket. By default, there will be a socket configured to reside in /var/run/ceph, and the daemon can be queried with:

```
ceph --admin-daemon /var/run/ceph/client.rgw help

help list available commands
objecter_requests show in-progress osd requests
perfcounters_dump dump perfcounters value
perfcounters_schema dump perfcounters schema
version get protocol version
```

Of particular interest:

```
ceph --admin-daemon /var/run/ceph/client.rgw objecter_requests
```

will dump information about current in-progress requests with the RADOS cluster. This allows one to identify if any requests are blocked by a non-responsive ceph-osd. For example, one might see:

```
{ "ops": [
      { "tid": 1858,
        "pg": "2.d2041a48",
        "osd": 1,
        "last sent": "2012-03-08 14:56:37.949872",
        "attempts": 1,
        "object id": "fatty 25647 object1857",
        "object_locator": "@2",
        "snapid": "head"
        "snap context": "0=[]",
        "mtime": "2012-03-08 14:56:37.949813",
        "osd ops": [
              "write 0~4096"]},
      { "tid": 1873,
        "pg": "2.695e9f8e",
        "osd": 1,
        "last sent": "2012-03-08 14:56:37.970615",
        "attempts": 1,
        "object id": "fatty 25647 object1872",
        "object locator": "@2",
        "snapid": "head",
        "snap_context": "0=[]",
        "mtime": "2012-03-08 14:56:37.970555",
        "osd ops": [
```

```
"write 0~4096"]}],

"linger_ops": [],

"pool_ops": [],

"pool_stat_ops": [],

"statfs_ops": []}
```

In this dump, two requests are in progress. The last\_sent field is the time the RADOS request was sent. If this is a while ago, it suggests that the OSD is not responding. For example, for request 1858, you could check the OSD status with:

```
ceph pg map 2.d2041a48
osdmap e9 pg 2.d2041a48 (2.0) -> up [1,0] acting [1,0]
```

This tells us to look at osd.1, the primary copy for this PG:

The flag\_point field indicates that the OSD is currently waiting for replicas to respond, in this case osd.0.