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1 daemons have recently crashed

ceph 운영중에 상태에 간혹 1 daemons have recently crashed 와 같은 메시지가 나오면서 HEALTH_WARN상태인 경우를 볼 수 있다.

```
[root@mgmt ~]# ceph -s
cluster:
  id:      7025ab16-5810-4382-9318-1bd4a704ef48
  health: HEALTH_WARN
          1 daemons have recently crashed

services:
  mon: 2 daemons, quorum mgmt,mon (age 3m)
  mgr: mgmt(active, since 47h)
  mds: 1 up:standby
  osd: 9 osds: 9 up (since 5m), 9 in (since 47h)

data:
  pools: 1 pools, 128 pgs
  objects: 4 objects, 35 B
  usage: 9.8 GiB used, 80 GiB / 90 GiB avail
  pgs: 128 active+clean
```

이런경우는 간혹 OSD disk에 문제가 생겼거나 교체를 수행하고 나서 발생하는데 상세한 내용은 아래 명령어로 확인이 가능하다.

```
[root@mgmt ~]# ceph crash ls
ID
NEW
2021-02-20_11:41:52.234574Z_fac113ad-5fa2-40fd-bb00-a0410e0472dc mon.mgmt *
```

```
[root@mgmt ~]# ceph crash info
2021-02-20_11:41:52.234574Z_fac113ad-5fa2-40fd-bb00-a0410e0472dc
{
  "os_version_id": "7",
  "assert_condition": "(*__errno_location ()) == 4",
  "utsname_release": "3.10.0-1127.10.1.el7.x86_64",
  "os_name": "CentOS Linux",
  "entity_name": "mon.mgmt",
  "assert_file": "/home/jenkins-build/build/workspace/ceph-build/ARCH/x86_64/AVAILABLE_ARCH/x86_64/AVAILABLE_DIST/centos7/DIST/centos7/MACHINE_SIZE/gigantic/release/14.2.16/rpm/el7/BUILD/ceph-14.2.16/src/common/fork_function.h",
  "timestamp": "2021-02-20 11:41:52.234574Z",
  "process_name": "ceph-mon",
```

```
"utsname_machine": "x86_64",
"assert_line": 34,
"utsname_sysname": "Linux",
"os_version": "7 (Core)",
"os_id": "centos",
"assert_thread_name": "ms_dispatch",
"utsname_version": "#1 SMP Wed Jun 3 14:28:03 UTC 2020",
"backtrace": [
  "((()+0xf630) [0x7fbbf4045630]",
  "(gsignal()+0x37) [0x7fbbf2e243d7]",
  "(abort()+0x148) [0x7fbbf2e25ac8]",
  "(ceph::__ceph_assert_fail(char const*, char const*, int, char
const*)+0x199) [0x7fbbf7292b76]",
  "((()+0x25cce) [0x7fbbf7292cef]",
  "(CrushTester::test_with_fork(int)+0x799) [0x7fbbf77fd839]",
  "(OSDMonitor::prepare_new_pool(std::string&, int, std::string
const&, unsigned int, unsigned int, unsigned int, unsigned long, unsigned
long, float, std::string const&, unsigned int, unsigned long,
OSDMonitor::FastReadType, std::ostream*)+0x460) [0x5568226a9aa0]",
  "(OSDMonitor::prepare_command_impl(boost::intrusive_ptr<MonOpRequest>,
std::map<std::string, boost::variant<std::string, bool, long, double,
std::vector<std::string, std::allocator<std::string> >, std::vector<long,
std::allocator<long> >, std::vector<double, std::allocator<double> > >,
std::less<void>, std::allocator<std::pair<std::string const,
boost::variant<std::string, bool, long, double, std::vector<std::string,
std::allocator<std::string> >, std::vector<long, std::allocator<long> >,
std::vector<double, std::allocator<double> > > > > const&)+0x1919b)
[0x5568226c998b]",
  "(OSDMonitor::prepare_command(boost::intrusive_ptr<MonOpRequest>)+0x10d)
[0x5568226d217d]",
  "(OSDMonitor::prepare_update(boost::intrusive_ptr<MonOpRequest>)+0x2a6)
[0x5568226d5b26]",
  "(PaxosService::dispatch(boost::intrusive_ptr<MonOpRequest>)+0x66d)
[0x55682266325d]",
  "(Monitor::handle_command(boost::intrusive_ptr<MonOpRequest>)+0x23ab)
[0x55682257c98b]",
  "(Monitor::dispatch_op(boost::intrusive_ptr<MonOpRequest>)+0x805)
[0x556822581ca5]",
  "(Monitor::_ms_dispatch(Message*)+0xca0) [0x5568225833f0]",
  "(Monitor::ms_dispatch(Message*)+0x26) [0x5568225b0736]",
  "(Dispatcher::ms_dispatch2(boost::intrusive_ptr<Message>
const&)+0x26) [0x5568225ad116]",
  "(DispatchQueue::entry()+0x1699) [0x7fbbf74b50e9]",
  "(DispatchQueue::DispatchThread::entry()+0xd) [0x7fbbf756277d]",
  "((()+0x7ea5) [0x7fbbf403dea5]",
  "(clone()+0x6d) [0x7fbbf2eec9fd]"
],
"utsname_hostname": "mgmt",
"assert_msg": "/home/jenkins-build/build/workspace/ceph-
build/ARCH/x86_64/AVAILABLE_ARCH/x86_64/AVAILABLE_DIST/centos7/DIST/centos7/
MACHINE_SIZE/gigantic/release/14.2.16/rpm/el7/BUILD/ceph-14.2.16/src/common/
```

```
fork_function.h: In function 'int fork_function(int, std::ostream&,
std::function<signed char()>)' thread 7fbbe7ff0700 time 2021-02-20
20:41:52.224795\n/home/jenkins-build/build/workspace/ceph-
build/ARCH/x86_64/AVAILABLE_ARCH/x86_64/AVAILABLE_DIST/centos7/DIST/centos7/
MACHINE_SIZE/gigantic/release/14.2.16/rpm/el7/BUILD/ceph-14.2.16/src/common/
fork_function.h: 34: FAILED ceph_assert((*__errno_location ()) == 4)\n",
    "crash_id": "2021-02-20_11:41:52.234574Z_fac113ad-5fa2-40fd-bb00-
a0410e0472dc",
    "assert_func": "int fork_function(int, std::ostream&,
std::function<signed char()>)",
    "ceph_version": "14.2.16"
}
```

Crash 명령어

Crash log에 대한 명령어는 아래와 같다.

crash list

```
# ceph crash ls-new
```

crash info

```
#ceph crash info <crash-id>
```

crash archive (acknowledged 확인)

```
#ceph crash archive <crash-id>
```

또는 전체 archive

```
#ceph crash archive-all
```

기능 비활성화

아예 archive 기능을 비활성화 하려면 아래 명령어를 사용한다.

```
#ceph config set mgr mgr/crash/warn_recent_interval 0
```

참조링크

- <https://access.redhat.com/solutions/5506031>
- <https://yumserv.tistory.com/328>

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