



삼성 오픈소스 컨퍼런스
SAMSUNG OPEN SOURCE CONFERENCE

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Ceph Storage Ubuntu에서 돌려보기

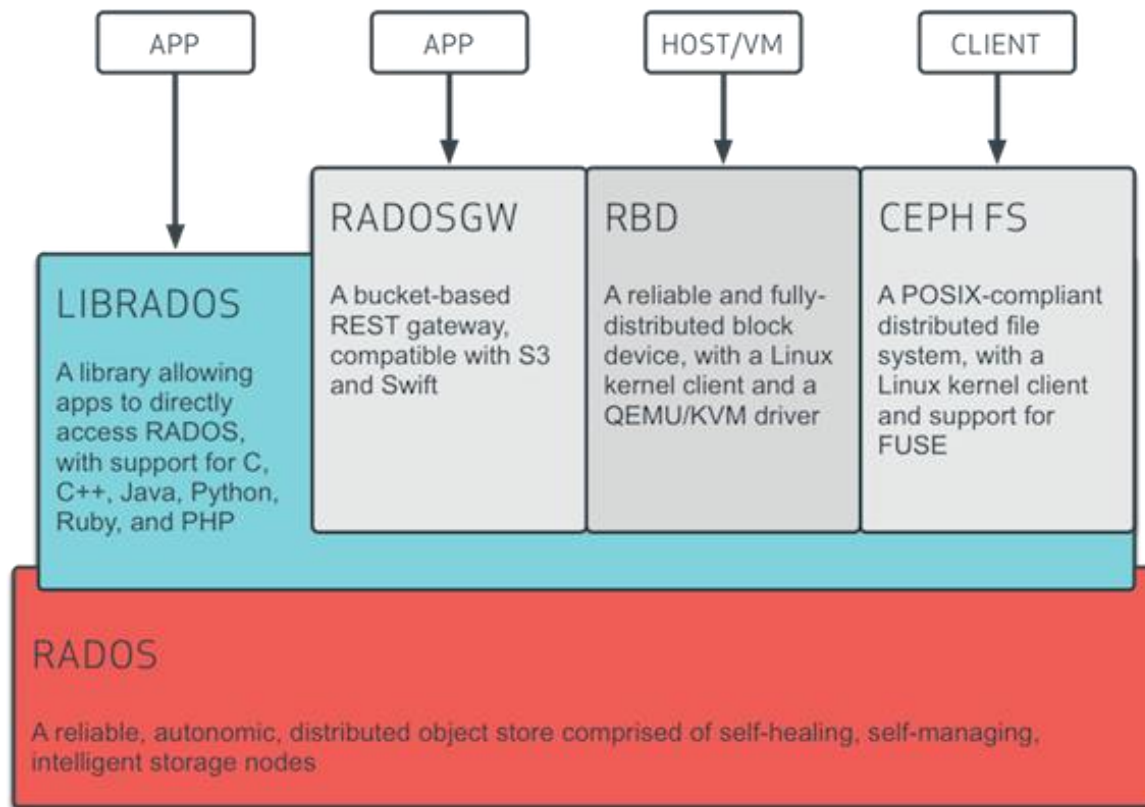
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소속 RockPlace
이름 박 재권

날짜 2015/10/28

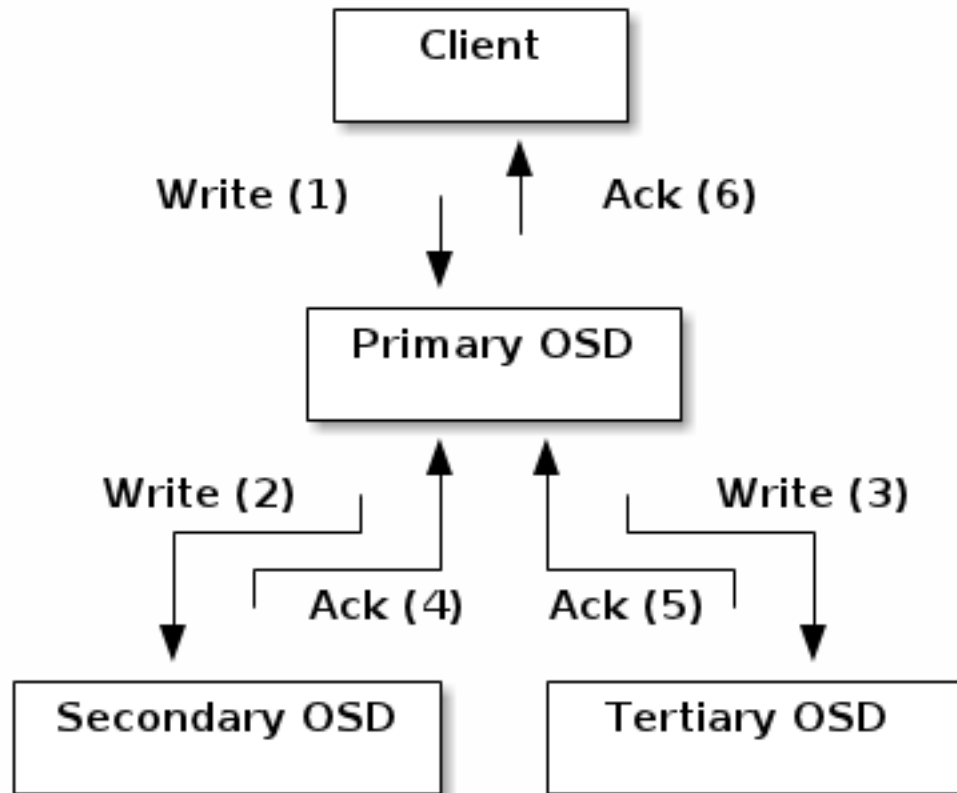
History of Ceph

- 2007년경 Sage weil 의 박사 학위 논문에서 출발한 프로젝트
- 2011년 Inktank 설립
- 2014년 Redhat 에 인수

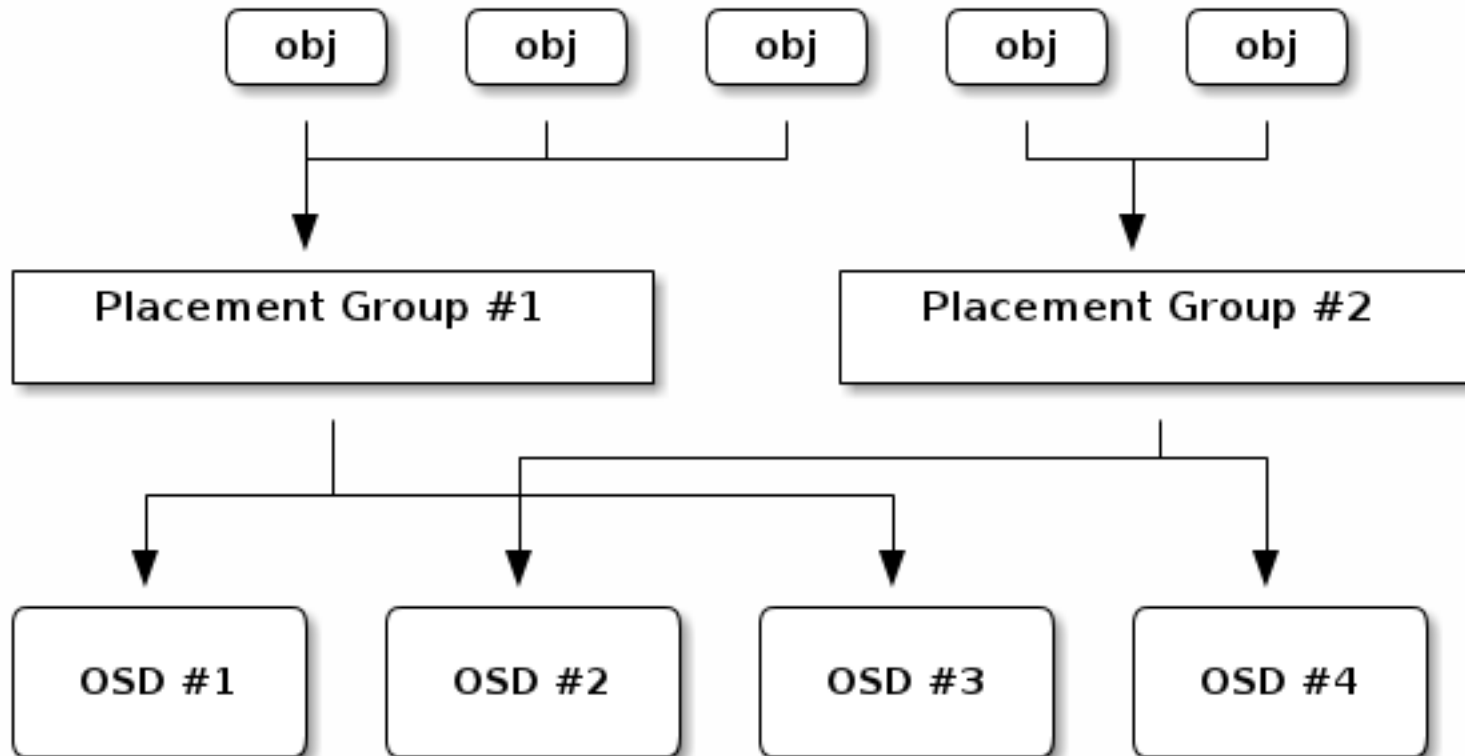
Ceph 용도



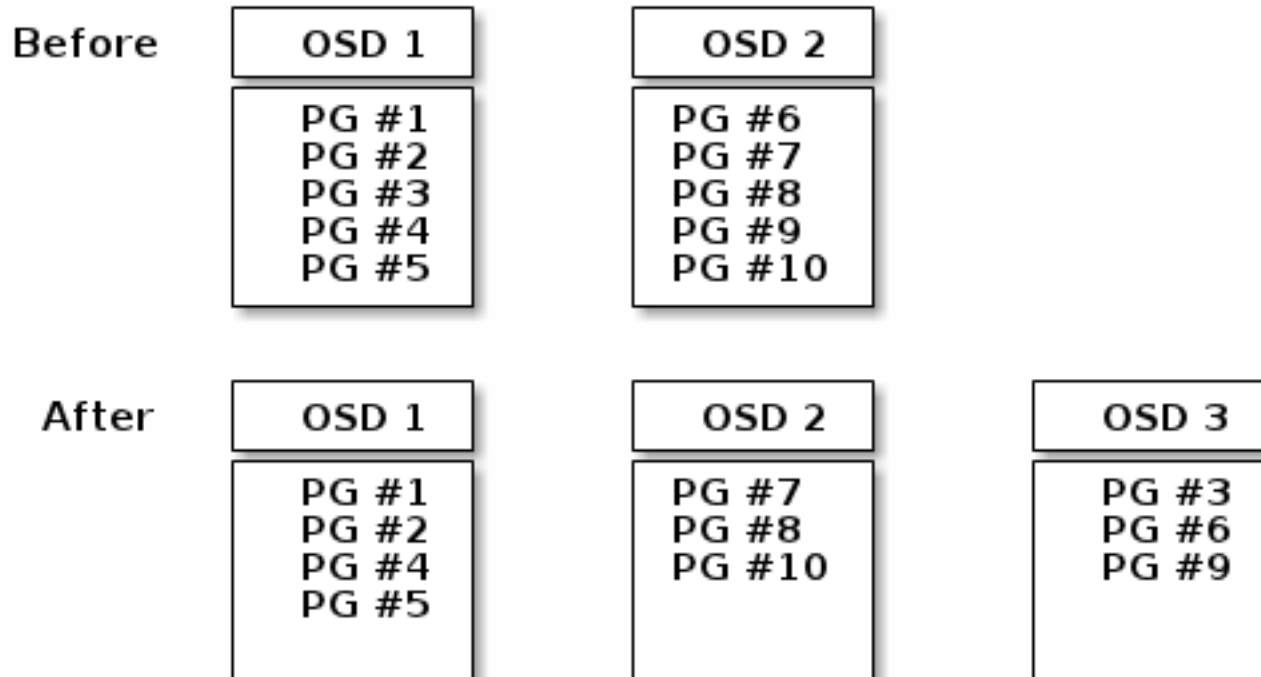
Ceph replication data flow



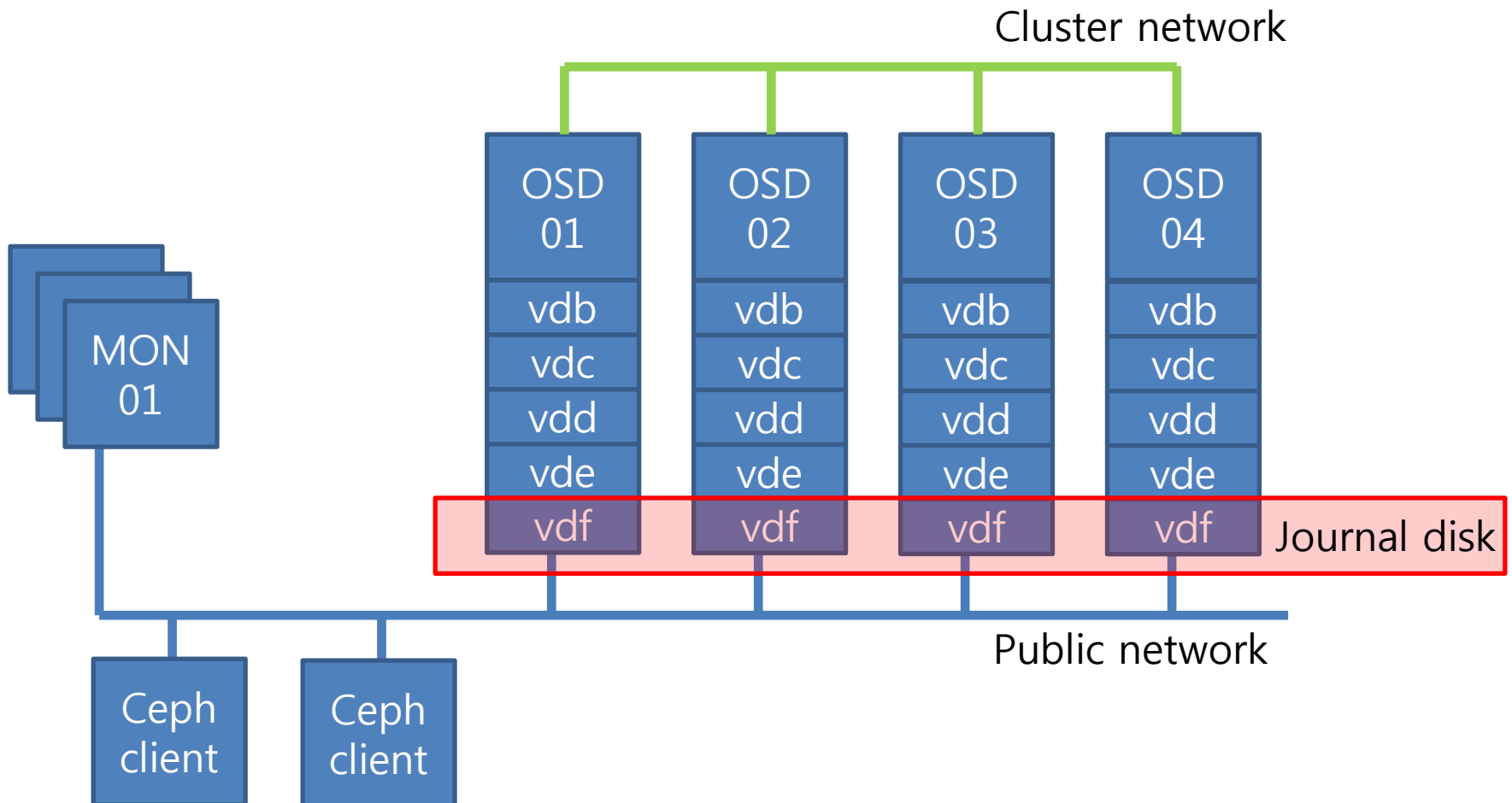
Ceph object and placement group



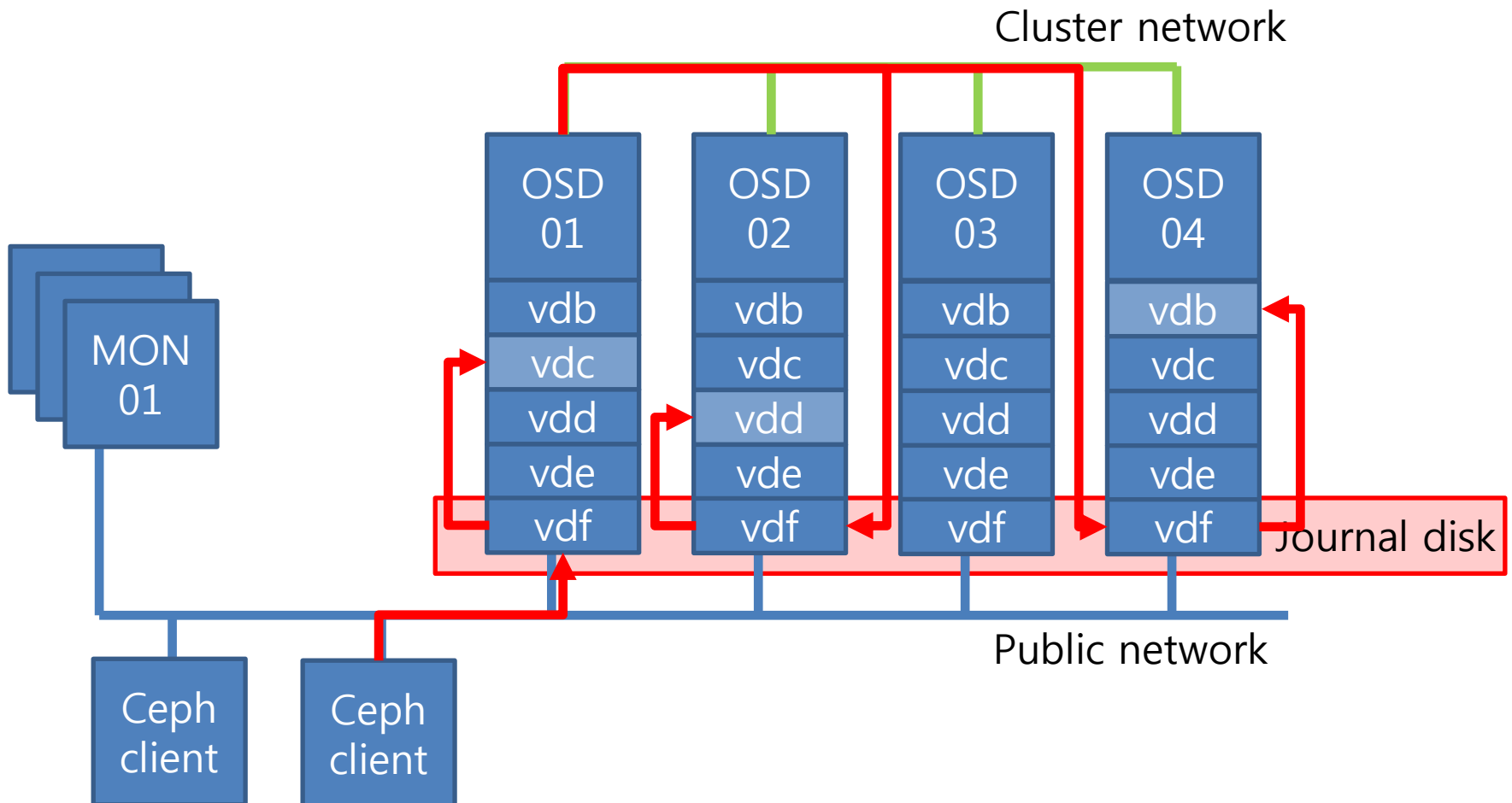
Ceph rebalancing 구성



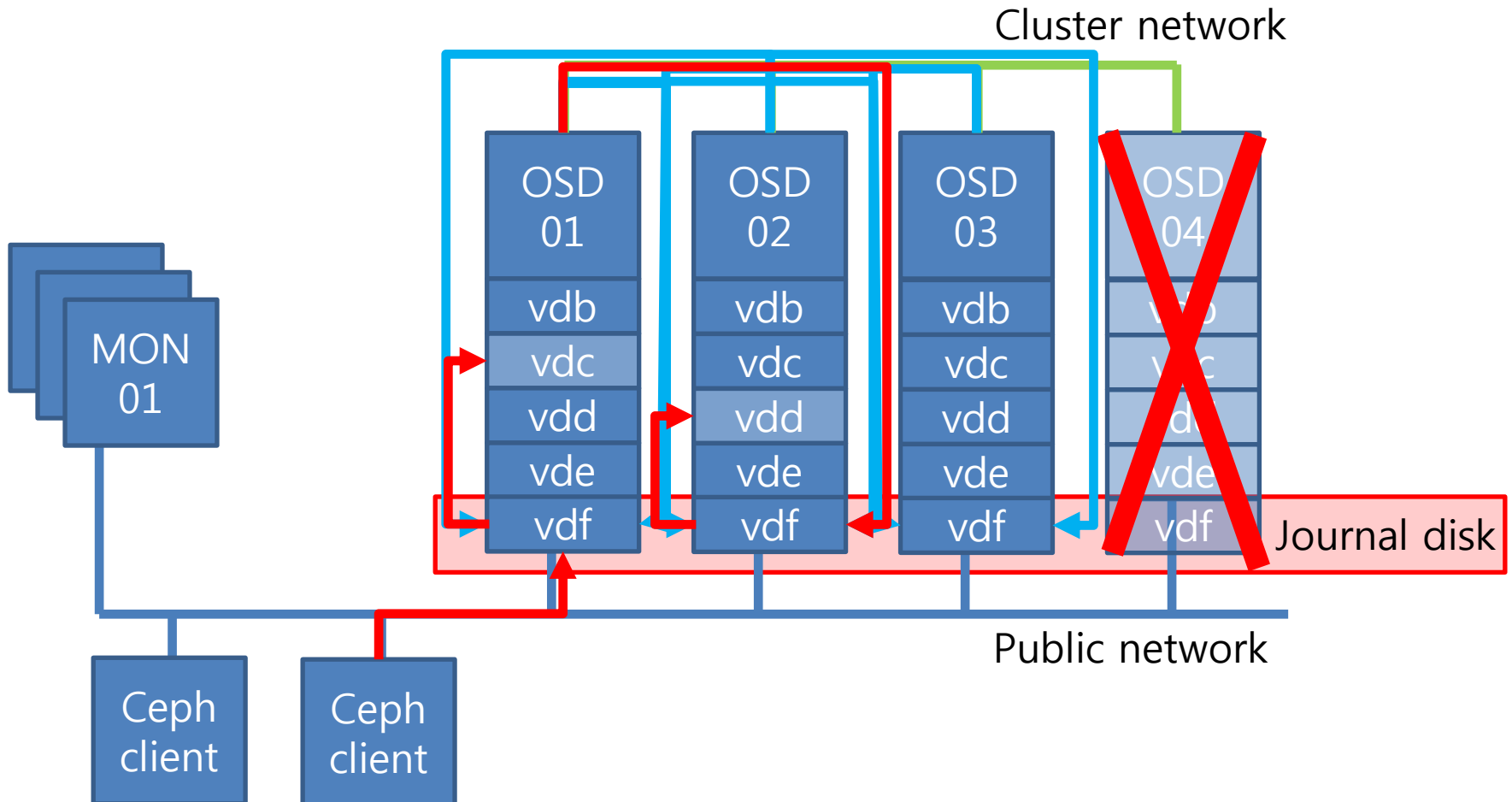
Ceph 구성



Ceph Replication Data Flow



Ceph Rebalancing Data Flow



Pre requiemment

- Ceph deploy가 사용할 일반 계정 (sudo 권한이 있어야함)
- Ceph 을 설치할 node 들에 대하여 ssh 접속 권한
- Ceph package를 받아오기 위한 인터넷 연결 - 혹은 repository 사전 구성

Ceph node 설치

- # ceph-deploy install mon01 mon02 mon03 osd01 osd02 osd03 osd04
- # ceph-deploy new mon01 mon02 mon03
- # ceph-deploy mon create mon01 mon02 mon03
- # ceph-deploy gatherkeys mon01
- # ceph-deploy osd prepare osd01:vdb1:vdf1
- # ceph-deploy osd activate osd01:vdb1:vdf1

Ceph client 설치

- # ceph-deploy install ceph-client
- # ceph-deploy admin ceph-client
- # rbd create volume --size 4096
- # modprobe rbd
- # rbd map volume --pool rbd
- # mkfs.ext4 /dev/rbd/rbd/volume
- # mount /dev/rbd/rbd/volume /mnt

Demo 영상

QnA