

Ceph :	Linux	3
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Ceph		3
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Ceph		7

Ceph : Linux

: <https://www.ibm.com/developerworks/library/l-ceph/>

"Ceph"

"Ceph" (Cephalopods) "Sammy" UCSC (Ceph). 가 가 . Ceph UCSC (University of California, Santa Cruz) Sage Weil Linux (2.6.34) Ceph Ceph 2010 3 가 가 .

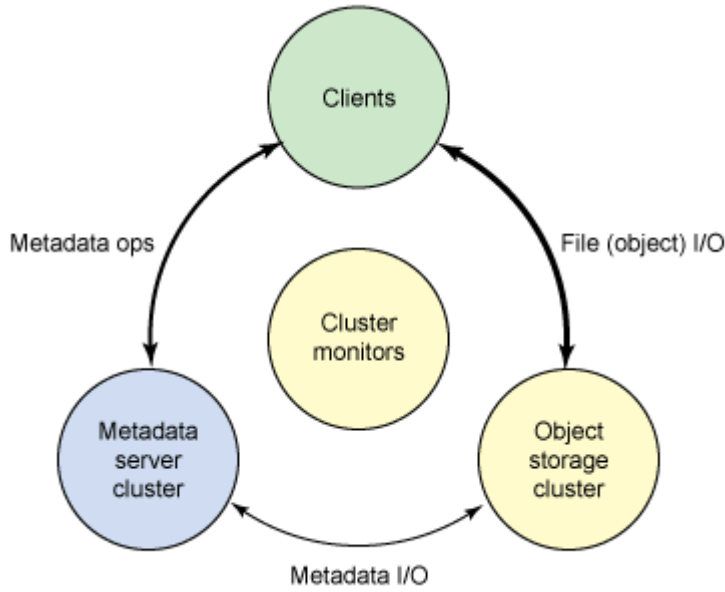
Ceph

Ceph 가 .

- 가 (IOPS[input/output operations per second])
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Ceph

Ceph 가 Ceph 가 Ceph (1) . , ,



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(“Metadata I/O”)

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POSIX

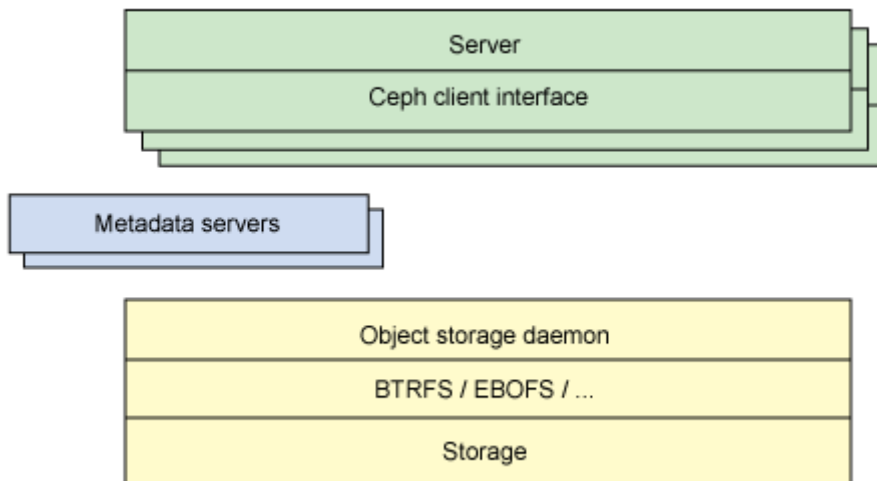
2

Ceph

tree-based Object File System]

RADOS(Reliable Autonomic Distributed Object Storage)

(Extent EBOFS[B-



Ceph

Ceph

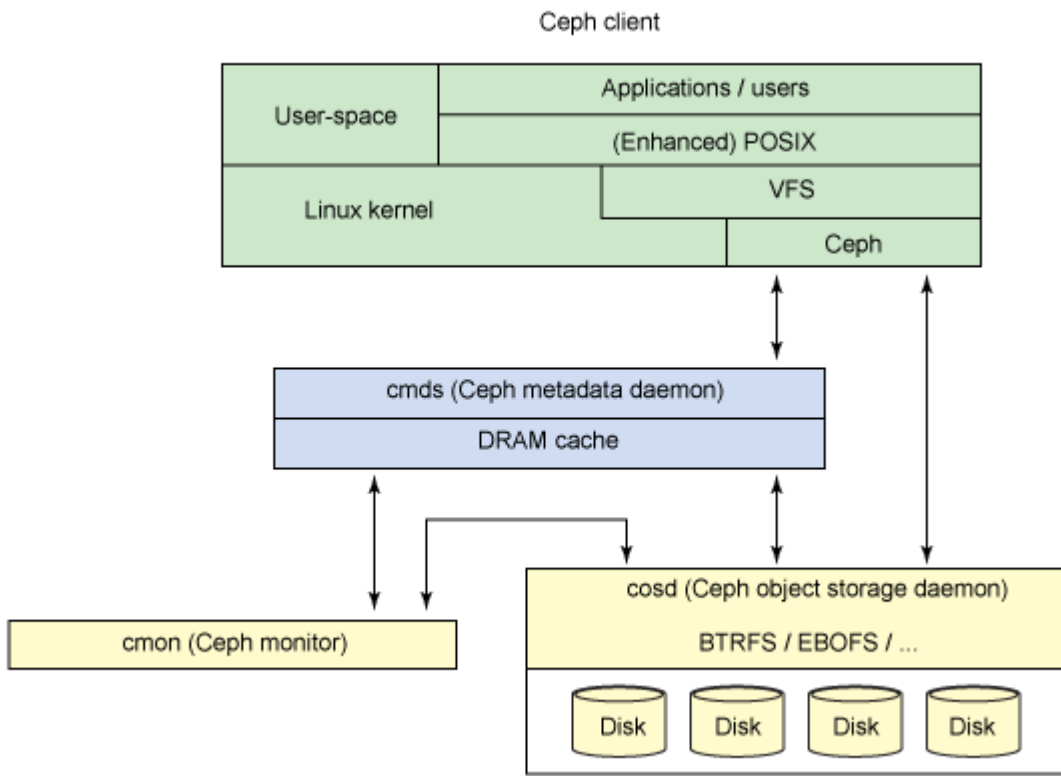
. Ceph

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Ceph

Linux VFS(Virtual File system Switch)

Ceph 가 (Ceph

Linux I/O Ceph (inode
 가 가 Ceph (Linux ID
) 가 가 Ceph (Linux ID
 (INO)가 , (ONO) ID
 OID . INO 가 ID(OID)가
 (PGID)

CRUSH(Controlled Replication Under Scalable Hashing)

. PGID

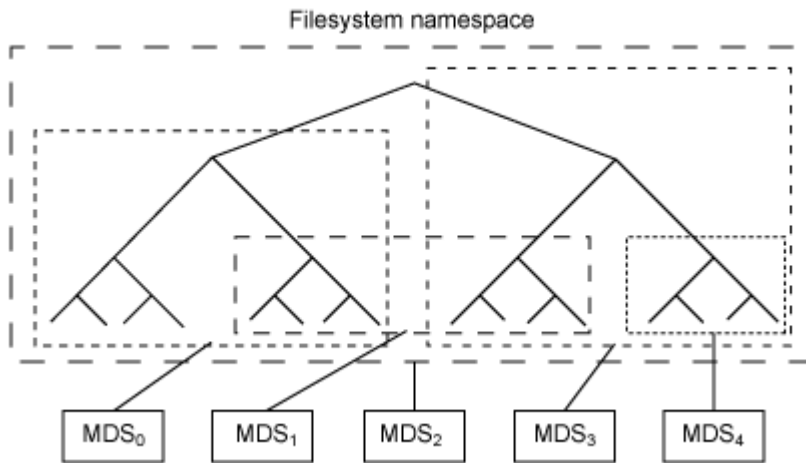
Ceph

(cmds)

4

Ceph

Ceph



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inode,
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Ceph

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가 Ceph

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Ceph EBOFS

