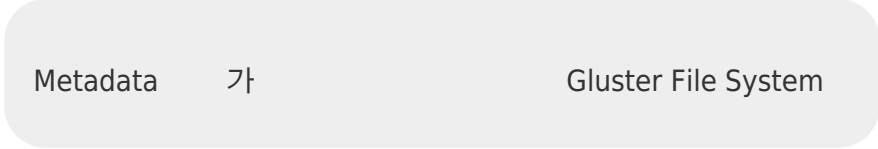


GlusterFS 가? 3
..... 3
HDFS 3
..... 5
Gluster File System(GlusterFS) 5

GlusterFS

가?

: <http://jmlab.tistory.com/18>



Gluster File System
Linear Scalability,

Distributed parallel fault-tolerant file systems
가 .

, True

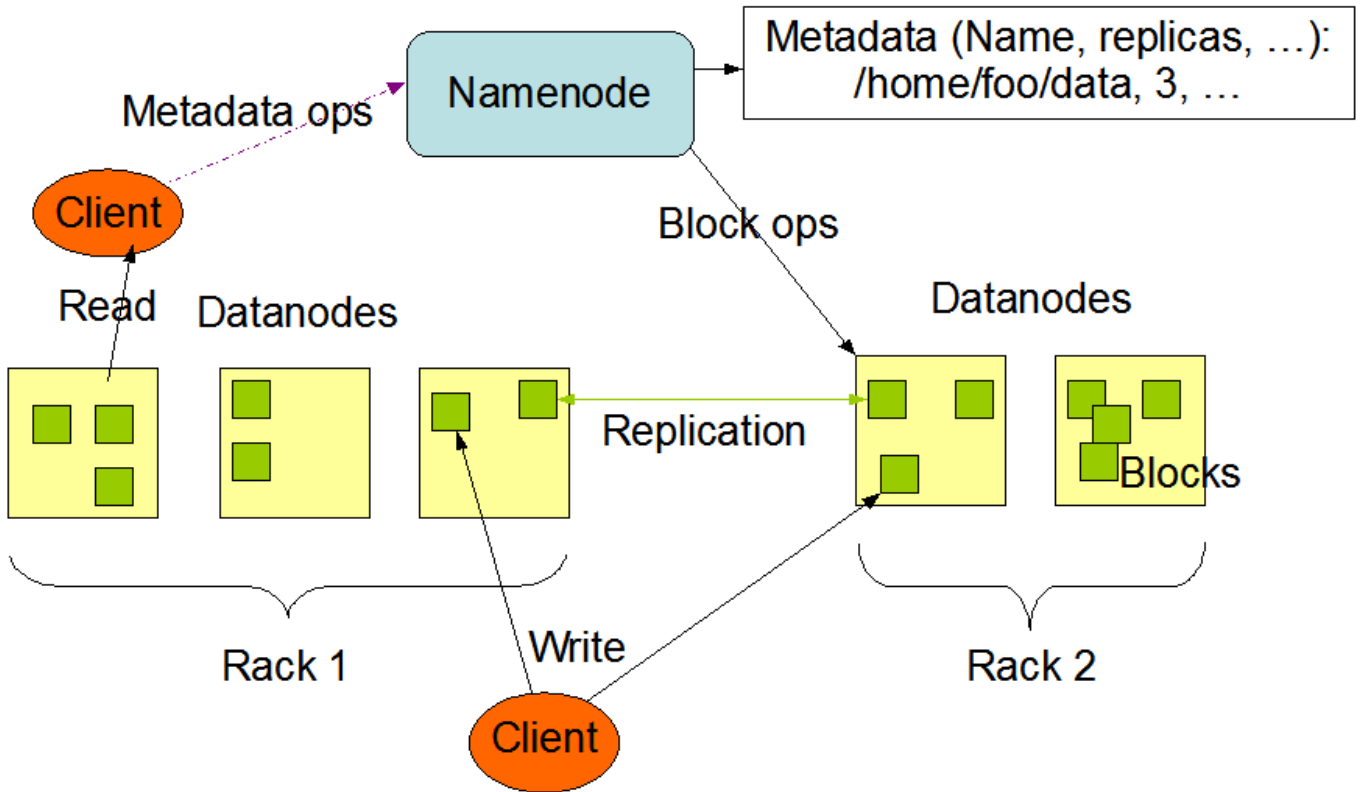
HDFS

Distributed parallel fault-tolerant file systems (HDFS)

Distributed parallel fault-tolerant file systems
System(HDFS) . HDFS MapReduce

Hadoop Distributed File
HDFS .

HDFS Architecture



Datanode
 Namenode
 Metadata
 Metadata
 Metadata Server
 Datanode
 Locking
 Datanode
 Metadata Server
 Namenode
 block
 (HDFS 64MB)
 Stripe
 Namenode
 block
 Block
 (HDFS 3) Datanode가
 Datanode
 가

Distributed parallel fault-tolerant file systems

가?

가 . Metadata 가 ?

Metadata . ..

가 . Cloud Linear Scalability ?

File Metadata .

가

Cloud 가 PB

가 (가) Metadata 가 가?

Metadata Metadata

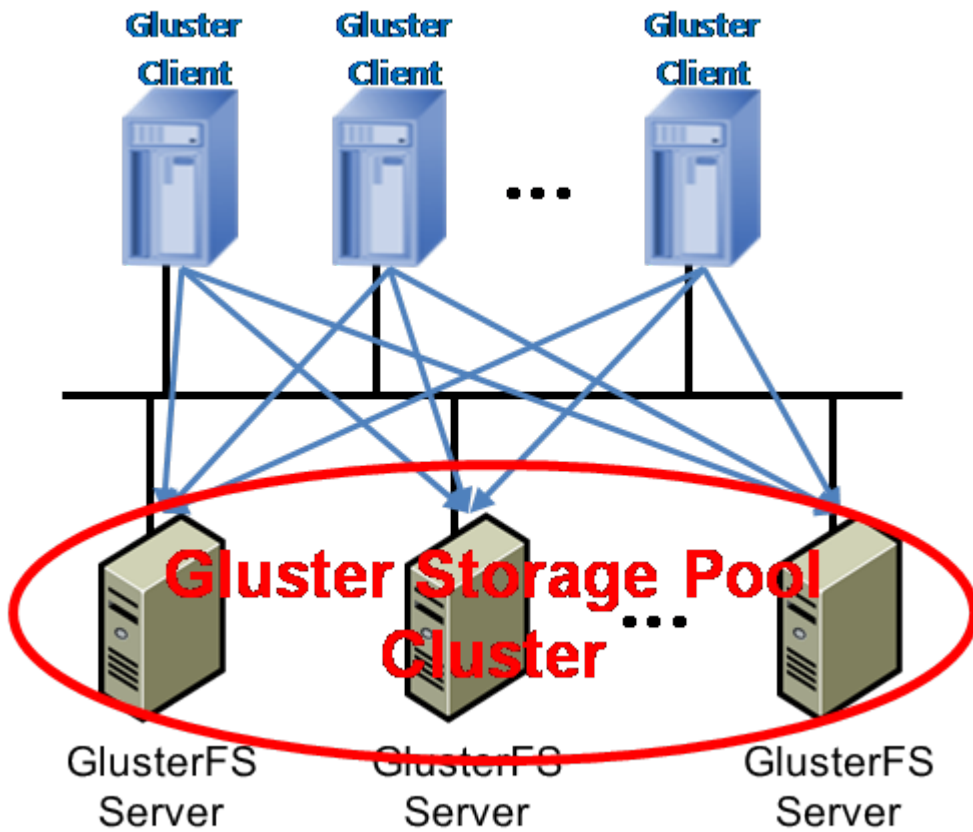
Metadata Metadata

Metadata . (Metadata)

Gluster File System(GlusterFS)

GlusterFS

Metadata Server가 Distributed parallel fault-tolerant file systems .



?

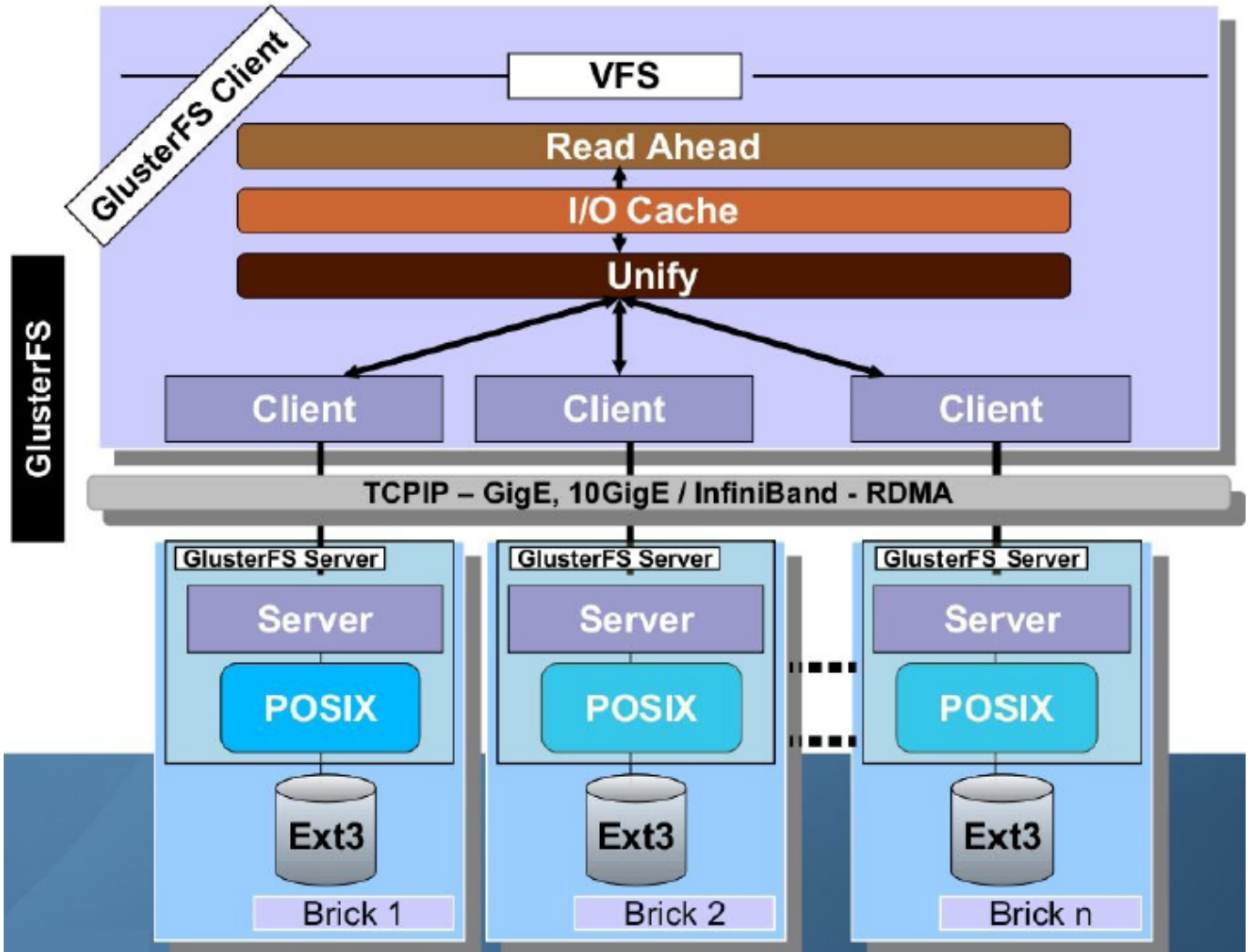
GlusterFS Metadata 가 . Metadata 가 .

Gluster Storage Pool

GlusterFS Cluster

Mount

?



GlusterFS 가 .(Ext3)

GlusterFS) GlusterFS (Gluster Brick

가 (Distribute) .

10 3 GlusterFS Brick

3 Brick Elastic Hash .

Brick Glusterfs 가 Volume Mount Glusterfs

가 .

Metadata GlusterFS

GlusterFS GlusterFS 가

가?

Gluster File System Distributed parallel fault-tolerant file systems meta-data

meta-data (Master Server) 가 SPF 가

?

GlusterFS Metadata 가

Gluster Datanode (Glusterfs) Pool Trusted Storage Pool

GlusterFS Metadata 가

- Trusted Storage Pool ID,) Glusterfs Cluster (IP, Hash
- Trusted Storage Pool (, ,)
- Glusterfs

가 Metadata

가 가 Metadata 가

GlusterFS Cluster Mount

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