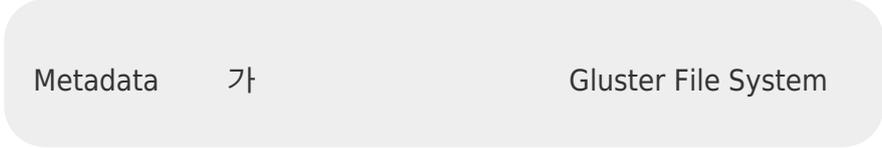


GlusterFS 가? 3
..... 3
HDFS 3
..... 5
Gluster File System(GlusterFS) 5

GlusterFS

가?

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



Gluster File System
Linear Scalability,

Distributed parallel fault-tolerant file systems
가 .

, True

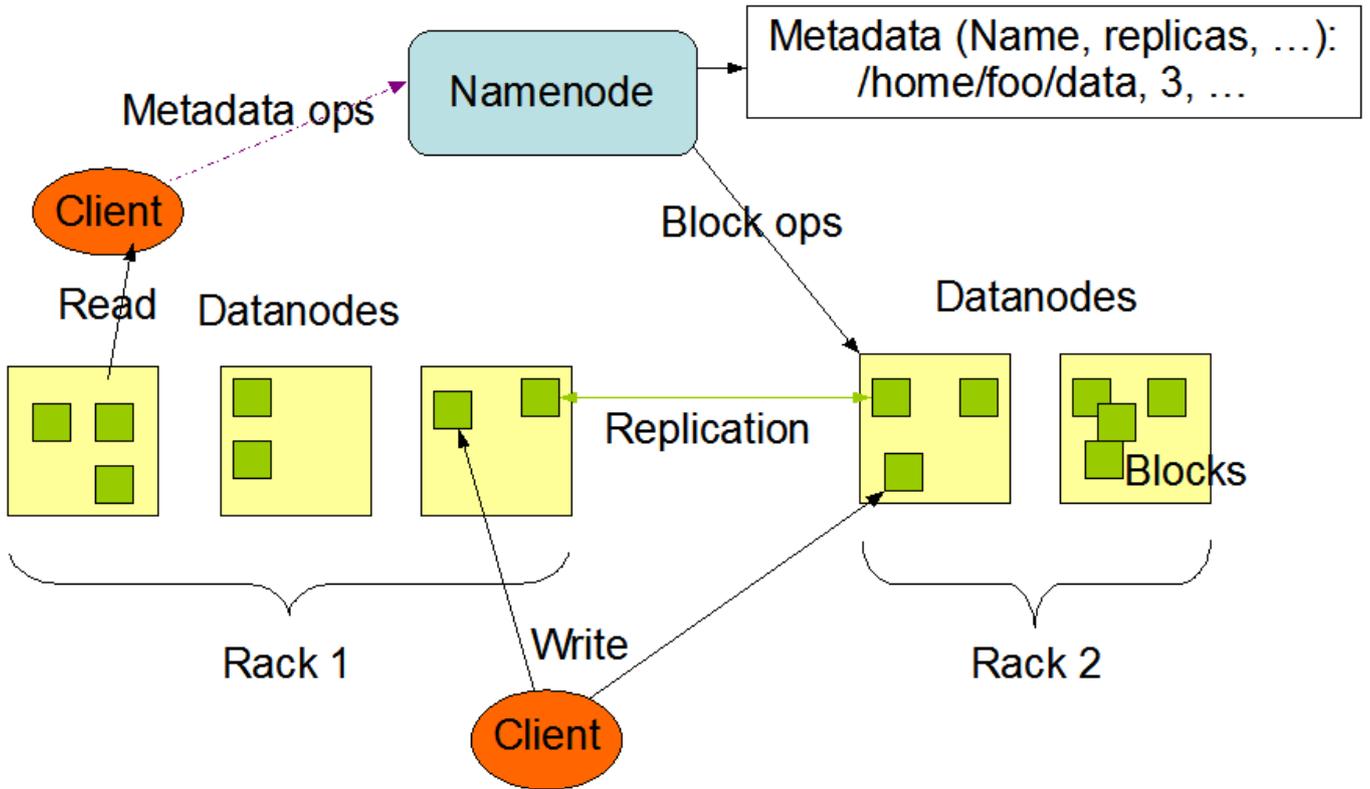
HDFS

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

Distributed parallel fault-tolerant file systems

가?

가 .

Metadata

Metadata

가

?

Cloud

Linear Scalability

?

가 .

File

Metadata

가

Cloud

가

PB

가

(

가

)

Metadata

가

가?

Metadata

Metadata

Metadata

Metadata

Metadata

.

(Metadata

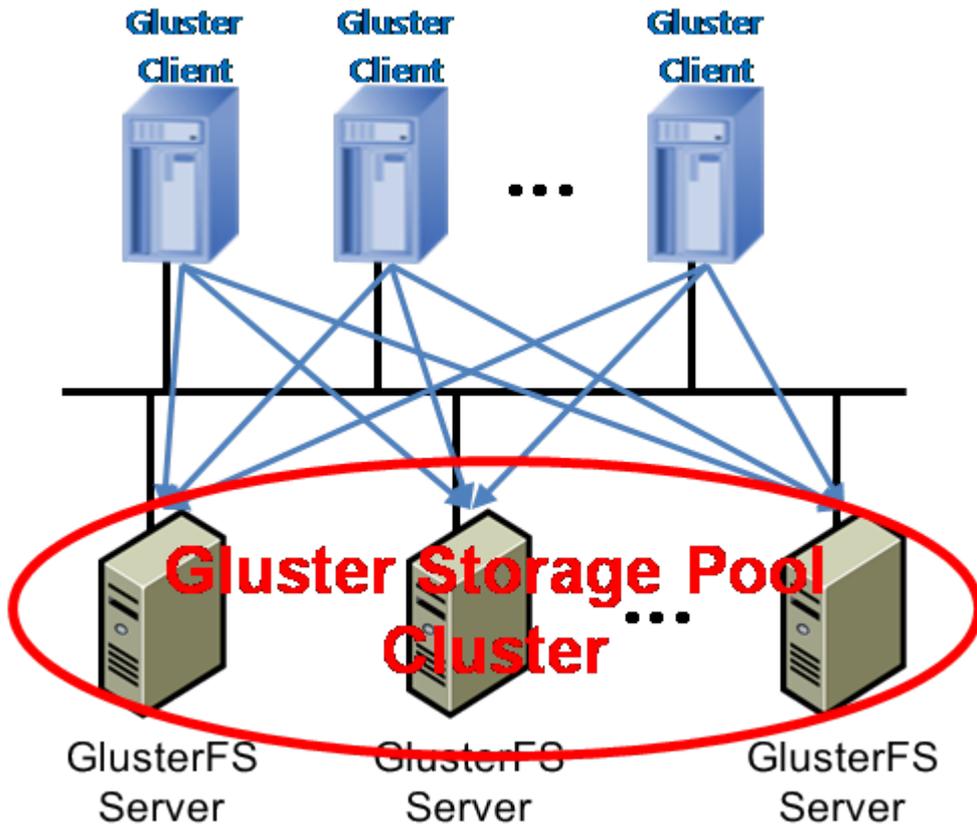
)

Gluster File System(GlusterFS)

GlusterFS

Metadata Server가

Distributed parallel fault-tolerant file systems



?

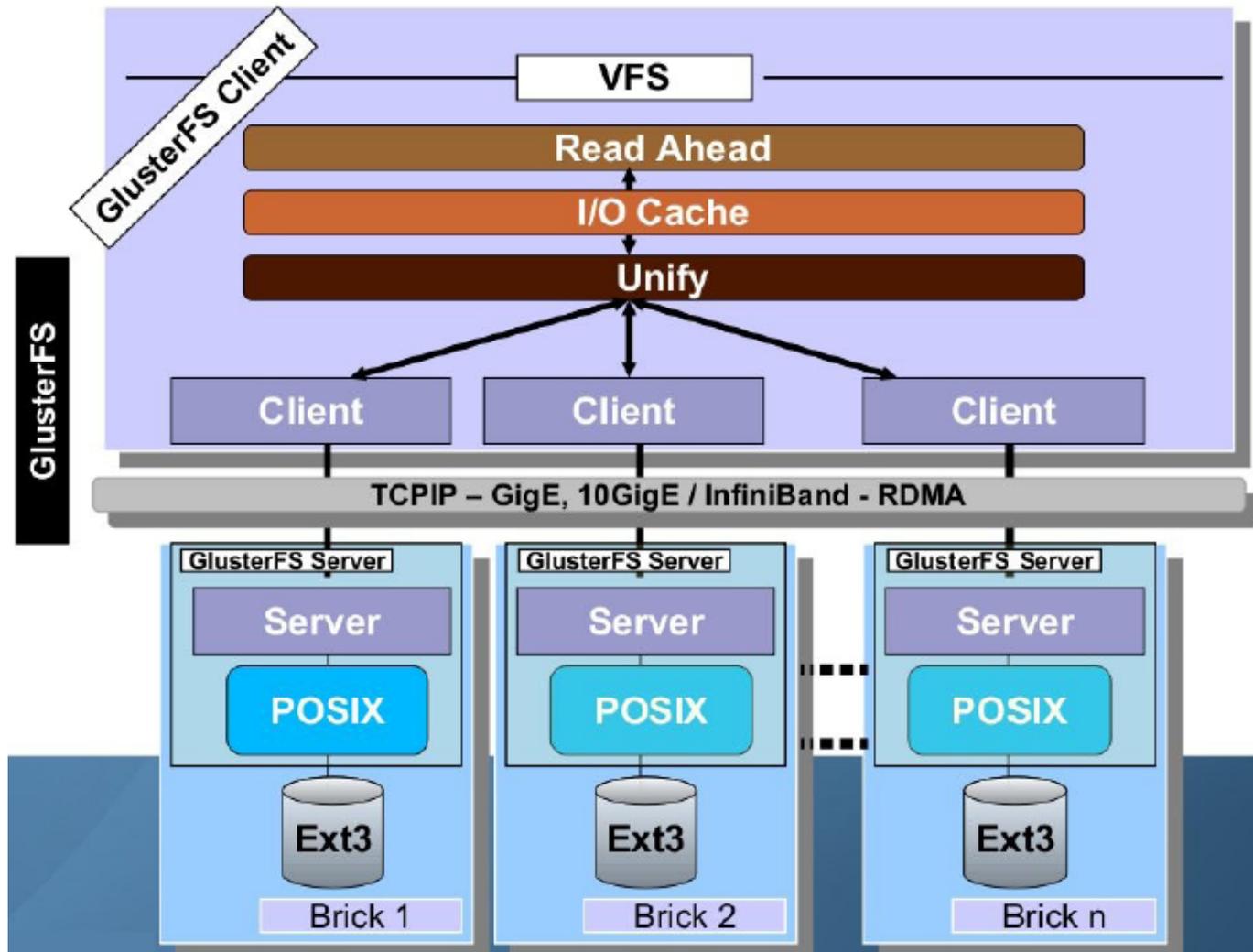
GlusterFS Metadata 가 . Metadata 가 .

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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