

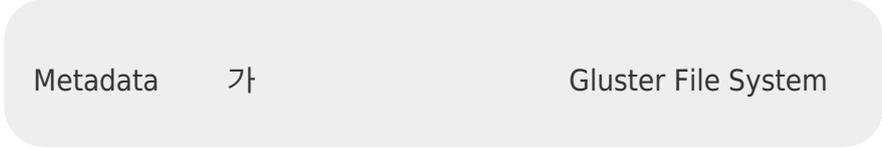
**GlusterFS**      가? ..... 3  
..... 3  
**HDFS** ..... 3  
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**Gluster File System(GlusterFS)** ..... 5



# GlusterFS

# 가?

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



Gluster File System  
Linear Scalability,

Distributed parallel fault-tolerant file systems  
가 .

, True

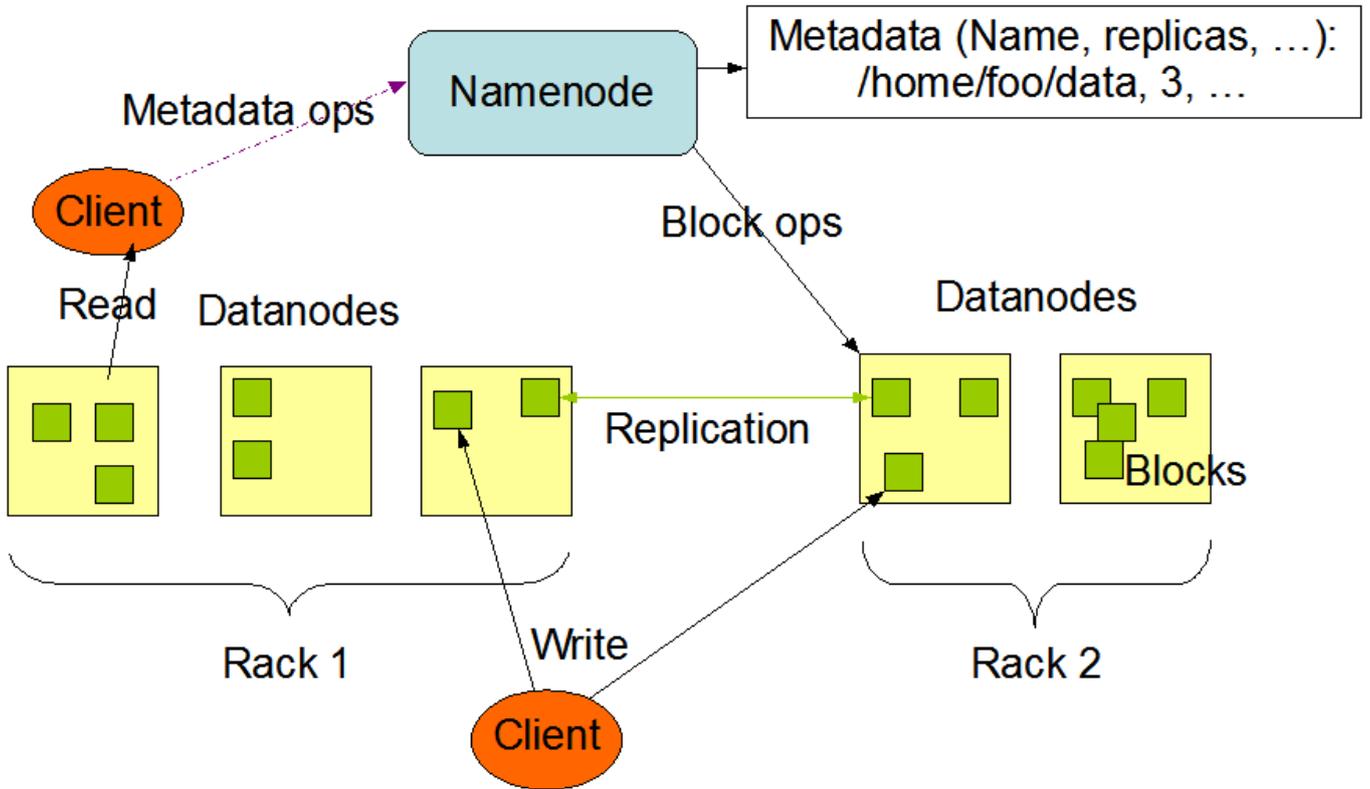
## HDFS

### 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 가 ?

Metadata . ..

가 . Cloud Linear Scalability ?

File Metadata .

가

Cloud 가 PB

가 ( 가 ) Metadata 가 가?

Metadata Metadata

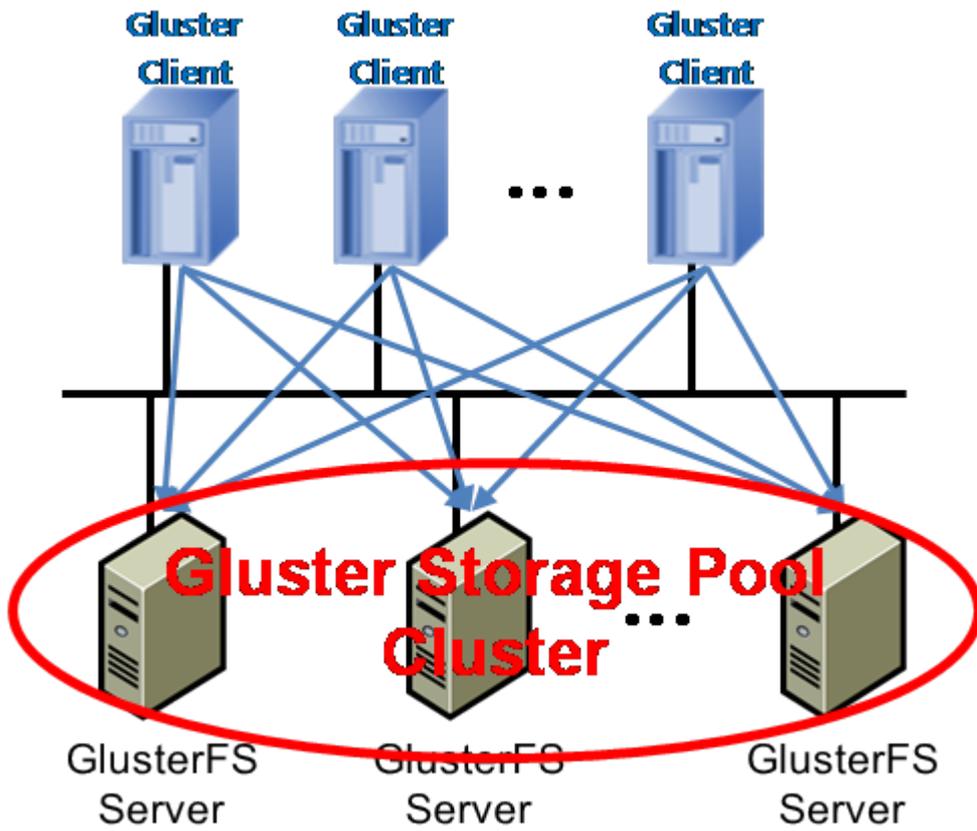
Metadata Metadata

Metadata ( Metadata

## Gluster File System(GlusterFS)

GlusterFS

Metadata Server가 Distributed parallel fault-tolerant file systems .



?

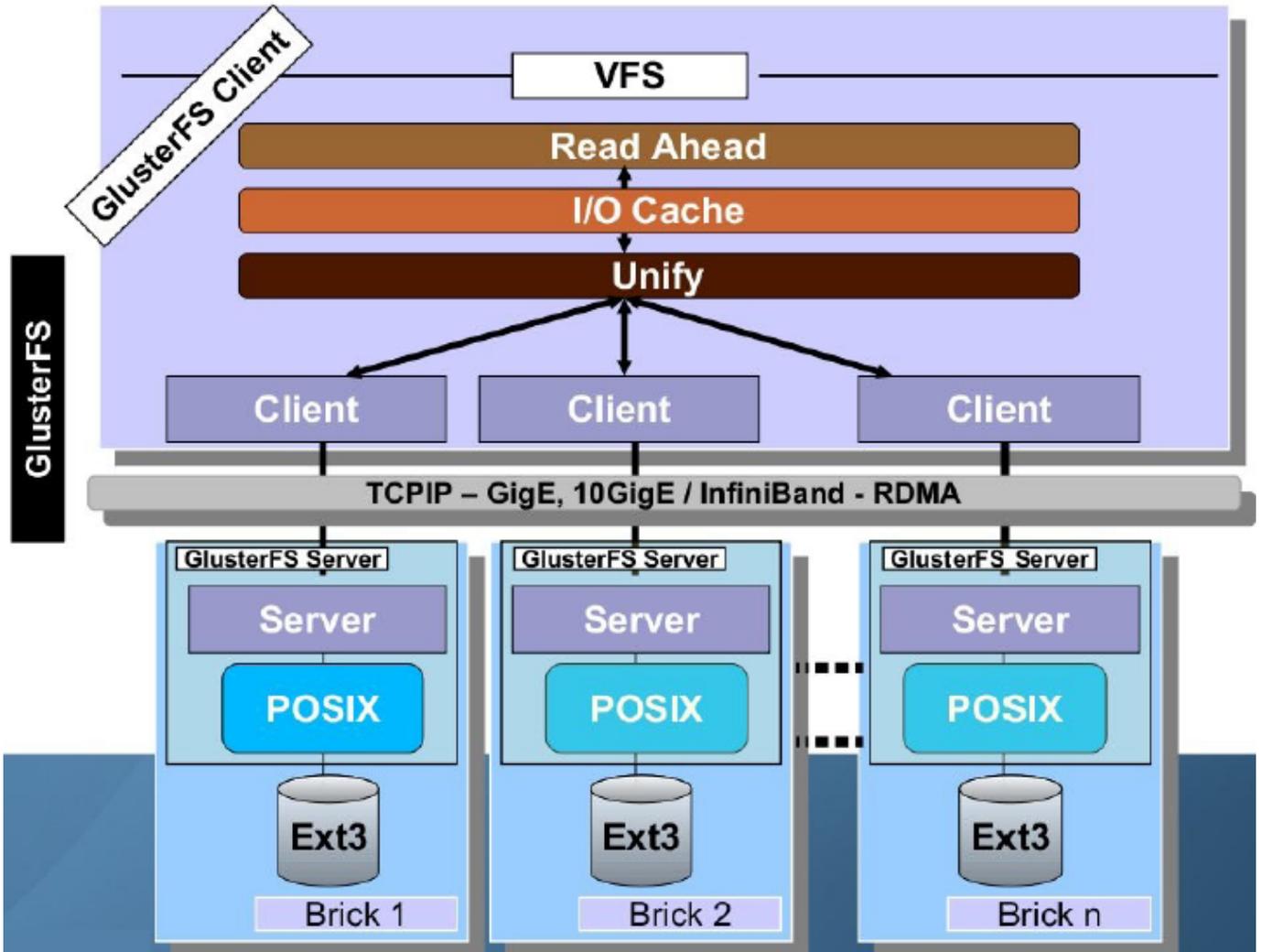
GlusterFS Metadata 가 . Metadata 가 .

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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