



LizardFS

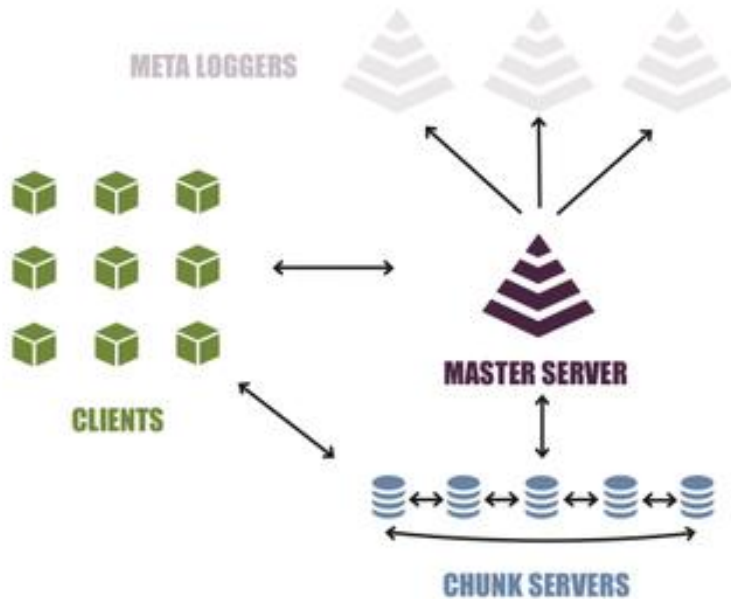
Day: 02

LizardFS

Standard hardware plus LizardFS equals a resilient, flexible, and configurable POSIX-compliant storage pool

LizardFS Components

Communication between modules



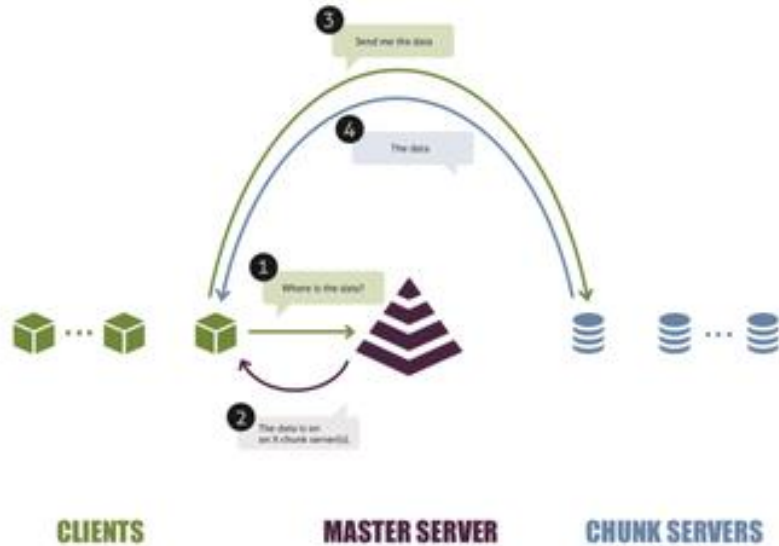
LizardFS Server

- Master
- Shadow Master
- Chunk Server

LizardFS Clients

LizardFS Read Process

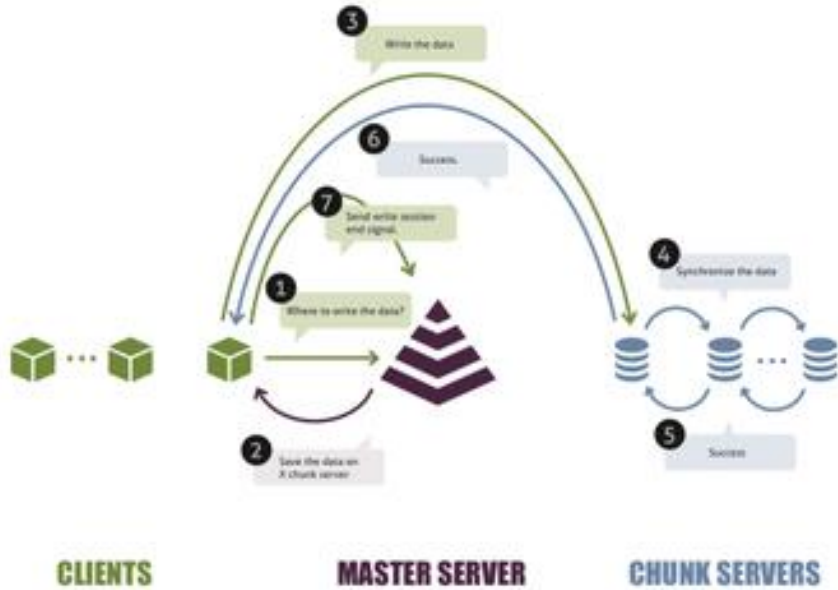
LizardFS Read process



A user or an application accesses a file in the storage pool, the LizardFS client contacts the current master, which has a list of the current chunk servers and the data hosted there

LizardFS Write Process

LizardFS Write process



mfsmaster.cfg

Master

```
PERSONALITY = master
WORKING_USER = mfs
WORKING_GROUP = mfs
SYSLOG_IDENT = mfsmaster
NICE_LEVEL = -19
EXPORTS_FILENAME = /etc/mfs/mfsexports.cfg
TOPOLOGY_FILENAME = /etc/mfs/mfstopology.cfg
CUSTOM_GOALS_FILENAME = /etc/mfs/mfsgoals.cfg
DATA_PATH = /var/lib/mfs
AUTO_RECOVERY = 1
ENDANGERED_CHUNKS_PRIORITY = 1
MASTER_HOST = mfsmaster
MASTER_PORT = 9419
```

mfsmaster.cfg

Shadow Master

```
PERSONALITY = shadow
WORKING_USER = mfs
WORKING_GROUP = mfs
SYSLOG_IDENT = mfsmaster
NICE_LEVEL = -19
EXPORTS_FILENAME = /etc/mfs/mfsexports.cfg
TOPOLOGY_FILENAME = /etc/mfs/mfstopology.cfg
CUSTOM_GOALS_FILENAME = /etc/mfs/mfsgoals.cfg
DATA_PATH = /var/lib/mfs
AUTO_RECOVERY = 1
ENDANGERED_CHUNKS_PRIORITY = 1
MASTER_HOST = mfsmaster
MASTER_PORT = 9419
```

mfschunkserver.cfg

Chunk Server

WORKING_USER = mfs

WORKING_GROUP = mfs

SYSLOG_IDENT = mfschunkserver

NICE_LEVEL = -19

DATA_PATH = /var/lib/mfs

MASTER_HOST = mfsmaster

MASTER_PORT = 9420

HDD_CONF_FILENAME = /etc/mfs/mfshdd.cfg



Any Questions ?

Thank you