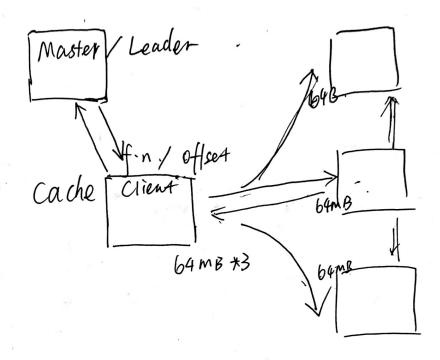
GFS (SOSP '03) MR OSDI '04. Goal Shared: M/R HTML Performance taut tolerance 1 failure / year \* machine) 300TB:1000 machines => 3 failure /day GFS Approach. . FS-like API. (POSIX) mount. "lib" < write / orppend · Single Master Metadata severs. e 64 MBB (15000) 2° spage size VS. 4 KB. > block size disk

· 3 - way Replication.

How GFS works



Performance

Why single master + 64 MB sufficient?

large files. Sequential read/write

Not good for

Small files. -> aggregate

random read/write git
compiler

Consistency.

concurrent failures.

Weak.

Implement

Ino concurrent

Ino failures

USE

