

Paxos and Raft in Practice

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Consensus

“Agreement among a number of processes for a single data value. Some of the processes may fail [...]”

Some Use Cases

- Configuration Management
- Resource Discovery
- Distributed Locks
- Distributed Transactions

Paxos



neo4j
Graphs for everyone

Need for Consensus

Replication in HA cluster

Chubby

Distributed Lock Manager



Need for Consensus

Master election

Raft

etcd

Key value store for shared configuration and service discovery

Need for Consensus

Management of its highly-available replicated log

InfluxDB

Distributed time series database (Replacement for Graphite)

Need for Consensus

Data Replication

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