

Architecture

- [Technical Overview of the Database](#)
- [Cluster Coordination](#)

FoundationDB Internals

- [Storage Queue](#)
- [Storage Server Shard Boundary Change](#)

Extending FoundationDB

- <https://github.com/apple/foundationdb/wiki/Building>
- <https://github.com/apple/foundationdb/wiki/Testing-a-FoundationDB-application>

Administration

- [Understanding FoundationDB Log Files](#)
- <https://github.com/apple/foundationdb/wiki/Maintenance-mode>
- <https://github.com/apple/foundationdb/wiki/Upgrading-FoundationDB>

Cluster Troubleshooting

- <https://github.com/apple/foundationdb/wiki/Troubleshooting-Failure-to-Launch-Processes>
- <https://github.com/apple/foundationdb/wiki/Migrating-to-New-Machines>

General Ops Knowledge

- <https://github.com/apple/foundationdb/wiki/FoundationDB-Trace-Metrics-Definitions>
- <https://github.com/apple/foundationdb/wiki/Cluster-reaction-to-failures>
- <https://github.com/apple/foundationdb/wiki/Handling-of-Storage-Server-Drive-Failures>

Configuration

- <https://github.com/apple/foundationdb/wiki/Running-FoundationDB-in-the-Cloud>
- <https://github.com/apple/foundationdb/wiki/Guidelines-for-Choosing-Coordinators>
- <https://github.com/apple/foundationdb/wiki/Storage-servers-per-disk>

Benchmarking

Features

Datacenter Failover

- <https://github.com/apple/foundationdb/wiki/Multi-Region-Replication>
Command Line Interface

TLS

Performance

Status

Backup, Restore, and DR

Using FoundationDB Clients

- <https://github.com/apple/foundationdb/wiki/Transaction-size-limit> # Go API
- [Implement an Atomic Counter using Go Bindings](#)

Python API

- <https://github.com/apple/foundationdb/wiki/TransactionRead-in-official-Python-bindings> # Java API

C API

- [# Design Recipes](https://github.com/apple/foundationdb/wiki/Does-%60fdb_future_set_callback%60-guarantee-exactly-once-execution%3F)

Data Modeling

- <https://github.com/apple/foundationdb/wiki/Best-practice-of-storing-structured-data,-for-example-JSON-objects>

Developer Guide

- <https://github.com/apple/foundationdb/wiki/Memory-Considerations>
- <https://github.com/apple/foundationdb/wiki/Client-memory-considerations>
- [https://github.com/apple/foundationdb/wiki/Debug-Out-Of-Memory-\(OOM\)-Errors-in-Simulation](https://github.com/apple/foundationdb/wiki/Debug-Out-Of-Memory-(OOM)-Errors-in-Simulation)
- <https://github.com/apple/foundationdb/wiki/Difference-between-snapshot-reads-and-regular-reads>
- <https://github.com/apple/foundationdb/wiki/Locking-a-Key-Range>
- [https://github.com/apple/foundationdb/wiki/Difference-between-Tuple.range\(\)-and-Range.startsWith\(\)](https://github.com/apple/foundationdb/wiki/Difference-between-Tuple.range()-and-Range.startsWith())
- <https://github.com/apple/foundationdb/wiki/Multi-Gets-and-Sets>
- [Debug tips](#)

Layer Concept

- <https://github.com/apple/foundationdb/wiki/Best-way-to-add-an-index-on-already-existing-data>