

# Distributed Systems – Fault Tolerance

Lab 1

2021/2022

## Naive replication

Attempt to provide fault tolerant operation by having multiple servers for the `lin-kv` service.

### Steps

1. Run multiple instances of the same server and recognize the need to propagate updates.
2. Implement and test a simple strategy to keep servers synchronized.
3. Retest with increasing request rate (`--rate`) and network latency (`--latency`).
4. Retest with network partitions (`--nemesis partition`).
5. Discuss problems found and speculate about solutions.

**Learning Outcomes** Recognize and discuss the challenges of fault tolerant replication.