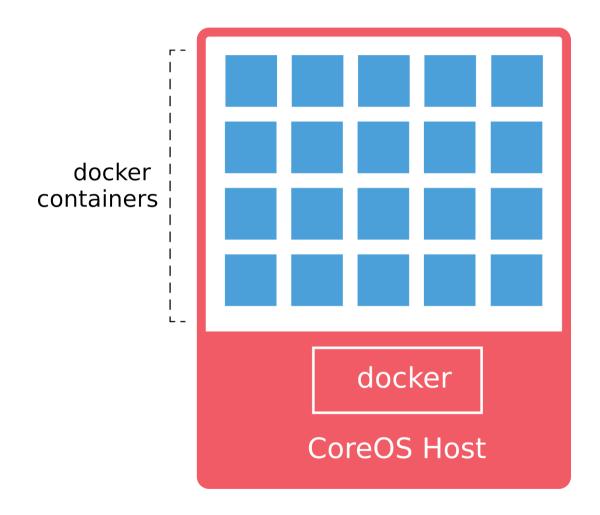
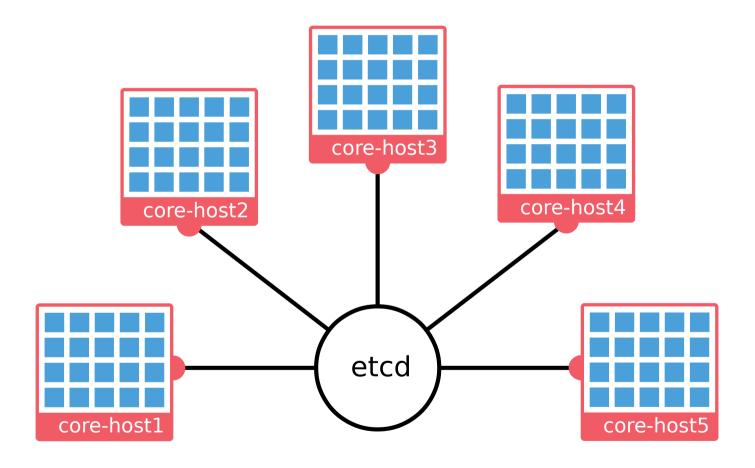
etcd and Raft

Christine Koppelt
3. December 2014

CoreOS

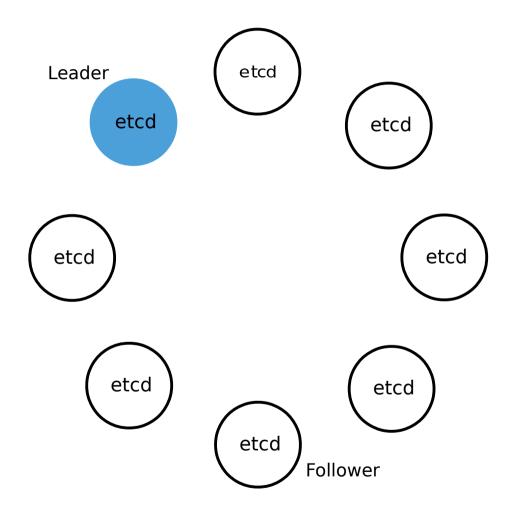


etcd



Source: https://coreos.com/

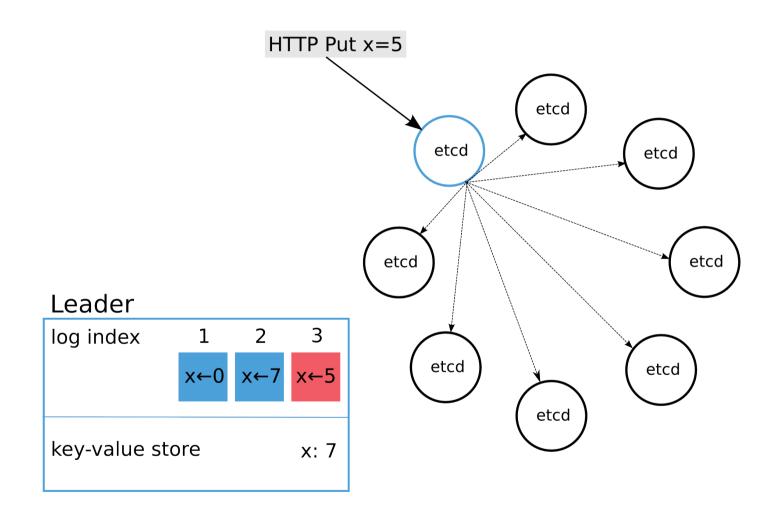
etcd Cluster



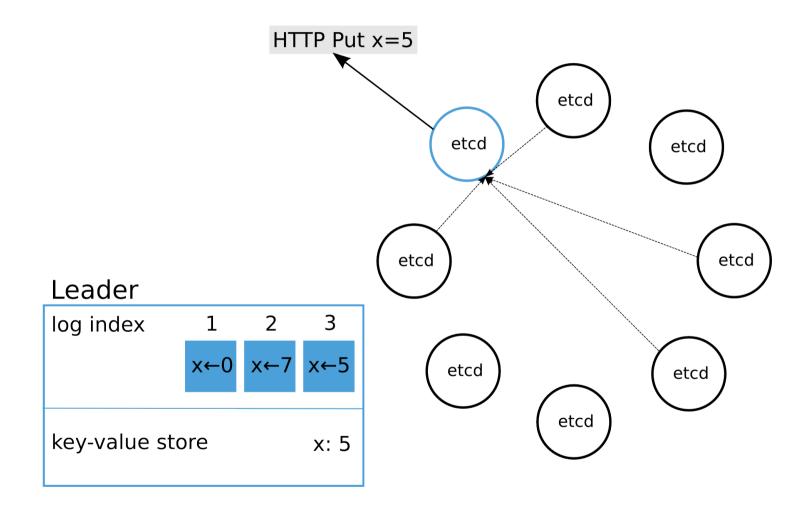
Client Interaction

```
curl -L http://127.0.0.1:4001/v2/keys/x -XPUT -d value="7"
    "action": "set",
    "node": {
        "createdIndex": 2,
        "key": "/x",
        "modifiedIndex": 2,
        "value": "7"
    },
    "prevNode": {
        "createdIndex": 1,
        "key": "/x",
        "value": "0",
        "modifiedIndex": 1
```

Writing an entry—Part 1



Writing an entry—Part 2

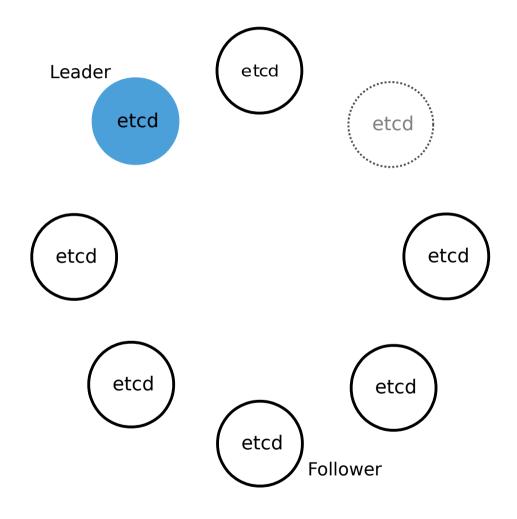


Log compaction & Snapshots

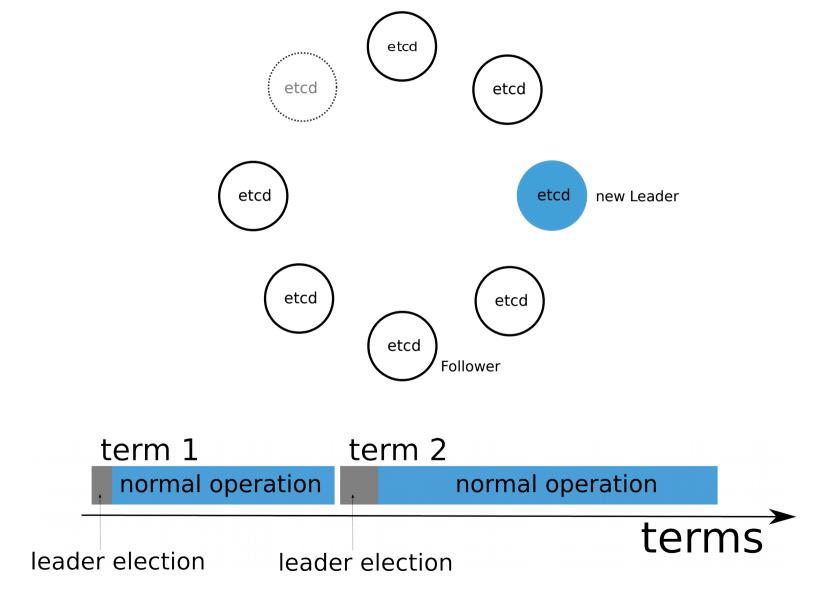
log index 1 2 3 4 5 6 7 8 before x**←**5 y**←**4 last included index: 6 after x ← 3 v ← 2

Snapshot

Follower Crash



Leader Crash & Leader election



Questions?