

Building Big Systems with ZooKeeper

Course Outline:

1. ZooKeeper fundamentals

- Distribute coordination system
- Design goals and results
- Common coordination tasks

2. ZooKeeper Java and C API

- Goals and capabilities
- Differences, pros and cons
- Labs

3. ZooKeeper environment

- Track and react to ZooKeeper changes
- Handling failures (network, apps)
- Concurrency issues

4. Curator and Exhibitor

- Goals and design
- Installation and configuration
- Advantages and current trends

5. Curator recipes and use cases

- Elections
- Locks
- Barriers
- Counters
- Caches
- Nodes
- Queues
- Centralized initialization

6. ZooKeeper internals

- Internals
- Administration