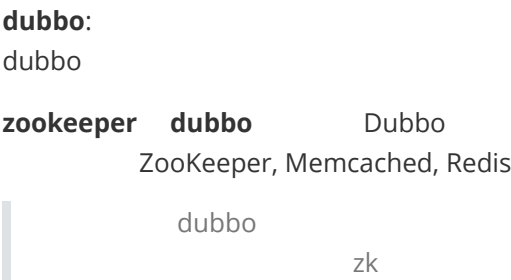


1.ZooKeeper



2.ZooKeeper dubbo



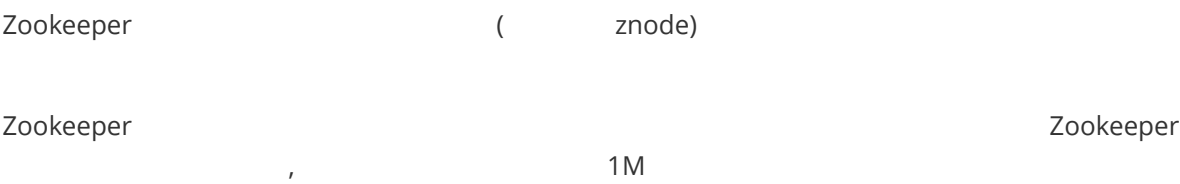
3.Zookeeper java ?

- zk zkclient
- Apache Curator

4.ZooKeeper

-
-

5. ZooKeeper



6. ZAB



7.Znode

- **PERSISTENT-持久节点** Zookeeper
- **EPHEMERAL-临时节点**
zookeeper
- **PERSISTENT_SEQUENTIAL-持久顺序节点**
- **EPHEMERAL_SEQUENTIAL-临时顺序节点**

8.Zookeeper

Zookeeper 不少于3个服务器 Zookeeper
Follower 2 Zookeeper
Leader Zookeeper Leader
ZK ZK

- 3 cluster 1 (leader 2 >1.5)
- 2 cluster 1 (leader 1 <=1)

9.Zookeeper ?

Zookeeper

- **单机部署**
- **集群部署**
- **伪集群部署** Zookeeper

10.Zookeeper

Zookeeper 发布/订阅模式 Zookeeper watcher事件通知机

制

- /
-
-
- /
-
- Master
-
-

11. Zookeeper Watcher

Zookeeper
Watcher
Watcher

Znode

Watcher

- watcher
- watcher
- watcher

12. Watcher

1 watcher实现 2 getData() / getChildren() / exist() API Watcher
3 request Watcher watchRegistration 4 Packet
request 5 Watcher ZKWatcherManager 6

13. Watcher

1 服务端接收watcher并存储 Watcher
ServerCnxn ServerCnxn Watcher
process Watcher WatcherManager WatchTable
watch2Paths

2 watcher触发

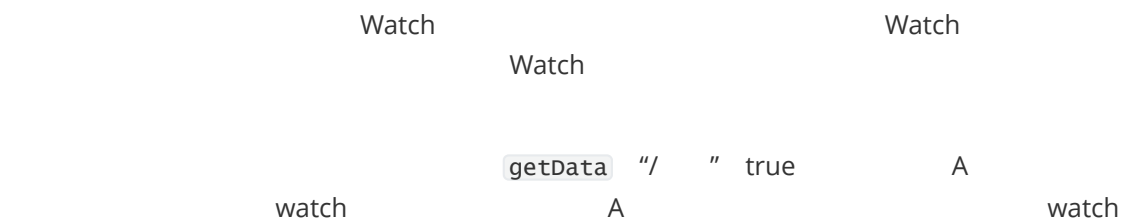
- setData() NodeDataChanged
- WatchedEvent
- SyncConnected NodeDataChanged
- WatchedEvent
- Watcher
- WatchTable Watcher
- Watcher WatchTable Watch2Paths Watcher
- Watcher

3 调用process方法来触发watcher process ServerCnxn TCP
Watcher

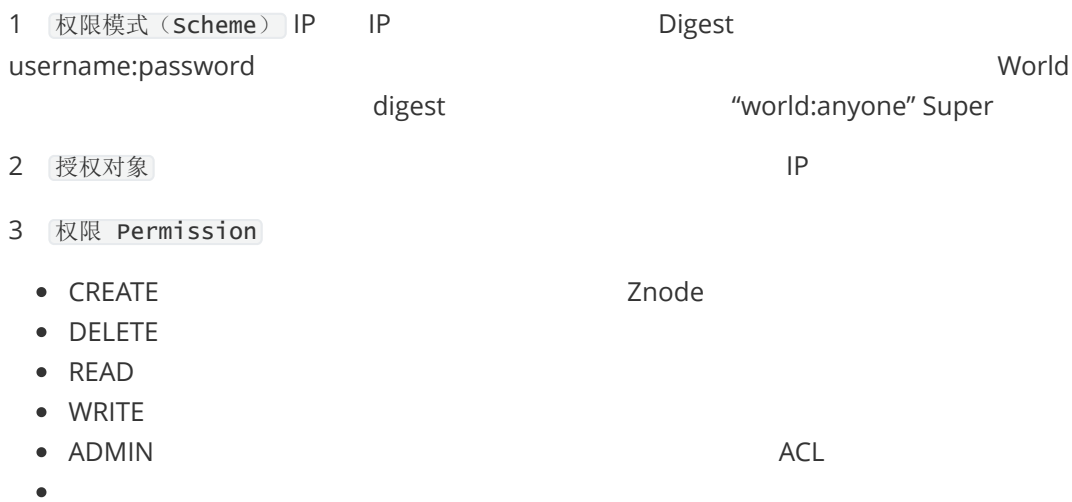
14. Watcher

1 SendThread EventThread Watcher 2
Watcher Watcher

15. Zookeeper watch ?



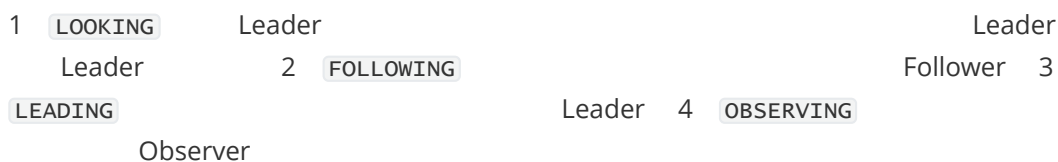
16. ACL



17.



18.Zookeeper Server



19.

- 全部重启 Zookeeper

- 逐个重启

3.5

20. Chroot

3.2.0
Chroot

Chroot Zookeeper