Zookeeper

Docker Zookeeper

- https://hub.docker.com/r/library/zookeeper/
- `docker run -d --restart always --name one-zookeeper -p 2181:2181 -v /etc/localtime:/etc/localtime zookeeper:latest`
  - `This image includes EXPOSE 2181 2888 3888 (the zookeeper client port, follower port, election port respectively)`
-
  - `/data`
  - `/datalog`
  - `/conf`
- docker compos`vim zookeeper.yml`
- https://hub.docker.com/r/library/zookeeper/

```
version: '3.1'

services:
  zoo1:
    image: zookeeper
    restart: always
    hostname: zoo1
    ports:
      - 2181:2181
    environment:
      ZOO_MY_ID: 1
      ZOO_SERVERS: server.1=0.0.0.0:2888:3888 server.2=zoo2:2888:3888
server.3=zoo3:2888:3888

  zoo2:
    image: zookeeper
    restart: always
    hostname: zoo2
    ports:
      - 2182:2181
    environment:
      ZOO_MY_ID: 2
```

```
ZOO_SERVERS: server.1=zoo1:2888:3888 server.2=0.0.0.0:2888:3888 server.3=zoo3:2888:3888


  zoo3:
    image: zookeeper
    restart: always
    hostname: zoo3
    ports:
      - 2183:2181
    environment:
      ZOO_MY_ID: 3
      ZOO_SERVERS: server.1=zoo1:2888:3888 server.2=zoo2:2888:3888 server.3=0.0.0.0:2888:3888
```

- `docker-compose -f zookeeper.yml -p zk_test up -d`
  - -p zk_test compose p `COMPOSE_PROJECT_NAME=zk_test docker-compose -f zookeeper.yml up -d`
  - Docker-Compose
- `docker-compose -f zookeeper.yml -p zk_test stop`

nc zookeeper

- CentOS 7.4
- https://nmap.org/download.html rpm
- 20 `wget https://nmap.org/dist/ncat-7.60-1.x86_64.rpm`
- `sudo rpm -i ncat-7.60-1.x86_64.rpm`
- ln `sudo ln -s /usr/bin/ncat /usr/bin/nc`
- `nc --version`

- `echo stat | nc 127.0.0.1 2181`

```
Zookeeper version: 3.4.11-37e277162d567b55a07d1755f0b31c32e93c01a0, built on 11/01/2017 18:06 GMT
Clients:
 /172.21.0.1:58872[0](queued=0,recved=1,sent=0)

Latency min/avg/max: 0/0/0
Received: 1
Sent: 0
Connections: 1
Outstanding: 0
Zxid: 0x100000000
Mode: follower
Node count: 4
```

- `echo stat | nc 127.0.0.1 2182`

```
Zookeeper version: 3.4.11-37e277162d567b55a07d1755f0b31c32e93c01a0, built on 11/01/2017 18:06 GMT
Clients:
 /172.21.0.1:36190[0](queued=0,recved=1,sent=0)

Latency min/avg/max: 0/0/0
Received: 1
Sent: 0
Connections: 1
Outstanding: 0
Zxid: 0x500000000
Mode: follower
Node count: 4
```

- `echo stat | nc 127.0.0.1 2183`

```
Zookeeper version: 3.4.11-37e277162d567b55a07d1755f0b31c32e93c01a0, built on 11/01/2017 18:06 GMT
Clients:
 /172.21.0.1:33344[0](queued=0,recved=1,sent=0)

Latency min/avg/max: 0/0/0
Received: 1
Sent: 0
Connections: 1
Outstanding: 0
Zxid: 0x500000000
Mode: leader
Node count: 4
```

-
  - `172.24.165.129` `47.91.22.116`
  - `172.24.165.130` `47.91.22.124`
  - `172.24.165.131` `47.74.6.138`
- hostname
  - `hostnamectl --static set-hostname youmeekhost1`
  - `hostnamectl --static set-hostname youmeekhost2`
  - `hostnamectl --static set-hostname youmeekhost3`
- h `vim /etc/hosts`

```
```

```
172.24.165.129 youmeekhost1
172.24.165.130 youmeekhost2
172.24.165.131 youmeekhost3
```

- 1

```
docker run -d \
-v /data/docker/zookeeper/data:/data \
-v /data/docker/zookeeper/log:/datalog \
-e ZOO_MY_ID=1 \
-e "ZOO_SERVERS=server.1=youmeekhost1:2888:3888 server.2=youmeekhost2:2888:3888
server.3=youmeekhost3:2888:3888" \
--name=zookeeper1 --net=host --restart=always zookeeper
```

- 2

```
docker run -d \
-v /data/docker/zookeeper/data:/data \
-v /data/docker/zookeeper/log:/datalog \
-e ZOO_MY_ID=2 \
-e "ZOO_SERVERS=server.1=youmeekhost1:2888:3888 server.2=youmeekhost2:2888:3888
server.3=youmeekhost3:2888:3888" \
--name=zookeeper2 --net=host --restart=always zookeeper
```

- 3

```
docker run -d \
-v /data/docker/zookeeper/data:/data \
-v /data/docker/zookeeper/log:/datalog \
-e ZOO_MY_ID=3 \
-e "ZOO_SERVERS=server.1=youmeekhost1:2888:3888 server.2=youmeekhost2:2888:3888
server.3=youmeekhost3:2888:3888" \
--name=zookeeper3 --net=host --restart=always zookeeper
```

- JDK

- https://zookeeper.apache.org/
- 201702 `3.4.9`ase
- http://www.apache.org/dyn/closer.cgi/zookeeper/
- `zookeeper-3.4.8.tar.gz`

-
  - `mkdir -p /usr/program/zookeeper/data`
  - `cd /opt/setups`
  - `tar zxvf zookeeper-3.4.8.tar.gz`
  - `mv /opt/setups/zookeeper-3.4.8 /usr/program/zookeeper`
  - `cd /usr/program/zookeeper/zookeeper-3.4.8/conf`
  - `mv zoo_sample.cfg zoo.cfg`
  - `vim zoo.cfg`
-
  - `dataDir=/tmp/zookeeper`
  - `dataDir=/usr/program/zookeeper/data`
- 2181
  - `iptables -A INPUT -p tcp -m tcp --dport 2181 -j ACCEPT`
  - `service iptables save`
  - `service iptables restart`
- zookeep`sh /usr/program/zookeeper/zookeeper-3.4.8/bin/zkServer.sh start`
- zookeep`sh /usr/program/zookeeper/zookeeper-3.4.8/bin/zkServer.sh stop`
- zookeepe`sh /usr/program/zookeeper/zookeeper-3.4.8/bin/zkServer.sh status`
  -
    - leader
    - follower

- 3 5
- CentOS 6
- 1 192.168.1.121
- 2 192.168.1.111
- 3 192.168.1.112

- `vim /usr/program/zookeeper/zookeeper-3.4.8/conf/zoo.cfg`
-

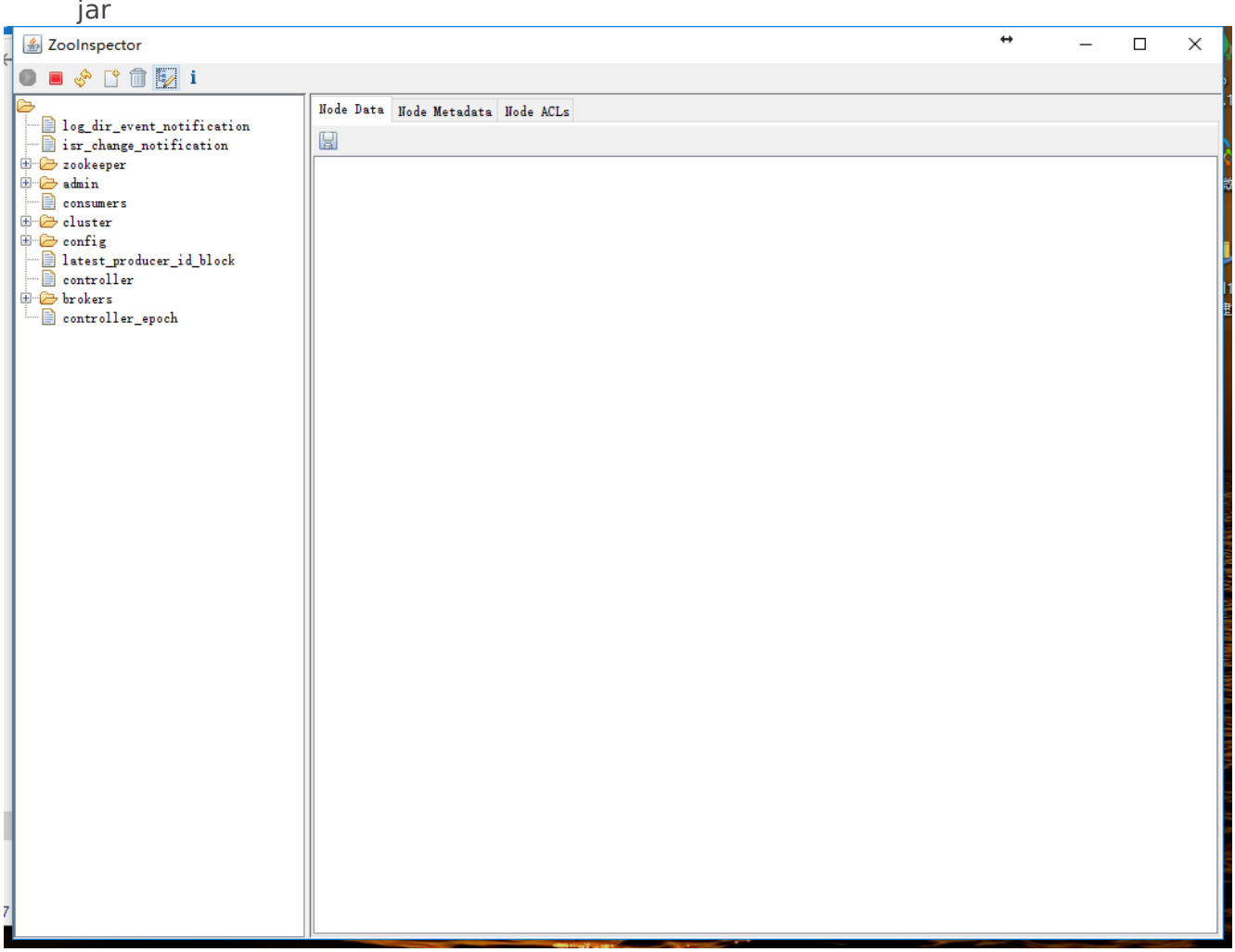
```
server.1=192.168.1.121:2888:3888
server.2=192.168.1.111:2888:3888
server.3=192.168.1.112:2888:3888
```

- `vim /usr/program/zookeeper/data/myid` `1`
- `vim /usr/program/zookeeper/data/myid` `2`
- `vim /usr/program/zookeeper/data/myid` `3`
- `sh /usr/program/zookeeper/zookeeper-3.4.8/bin/zkServer.sh start`
- `sh /usr/program/zookeeper/zookeeper-3.4.8/bin/zkServer.sh status`

```
Using config: /usr/program/zookeeper/zookeeper-3.4.8/bin/../conf/zoo.cfg
Mode: follower    Mode: leader
```

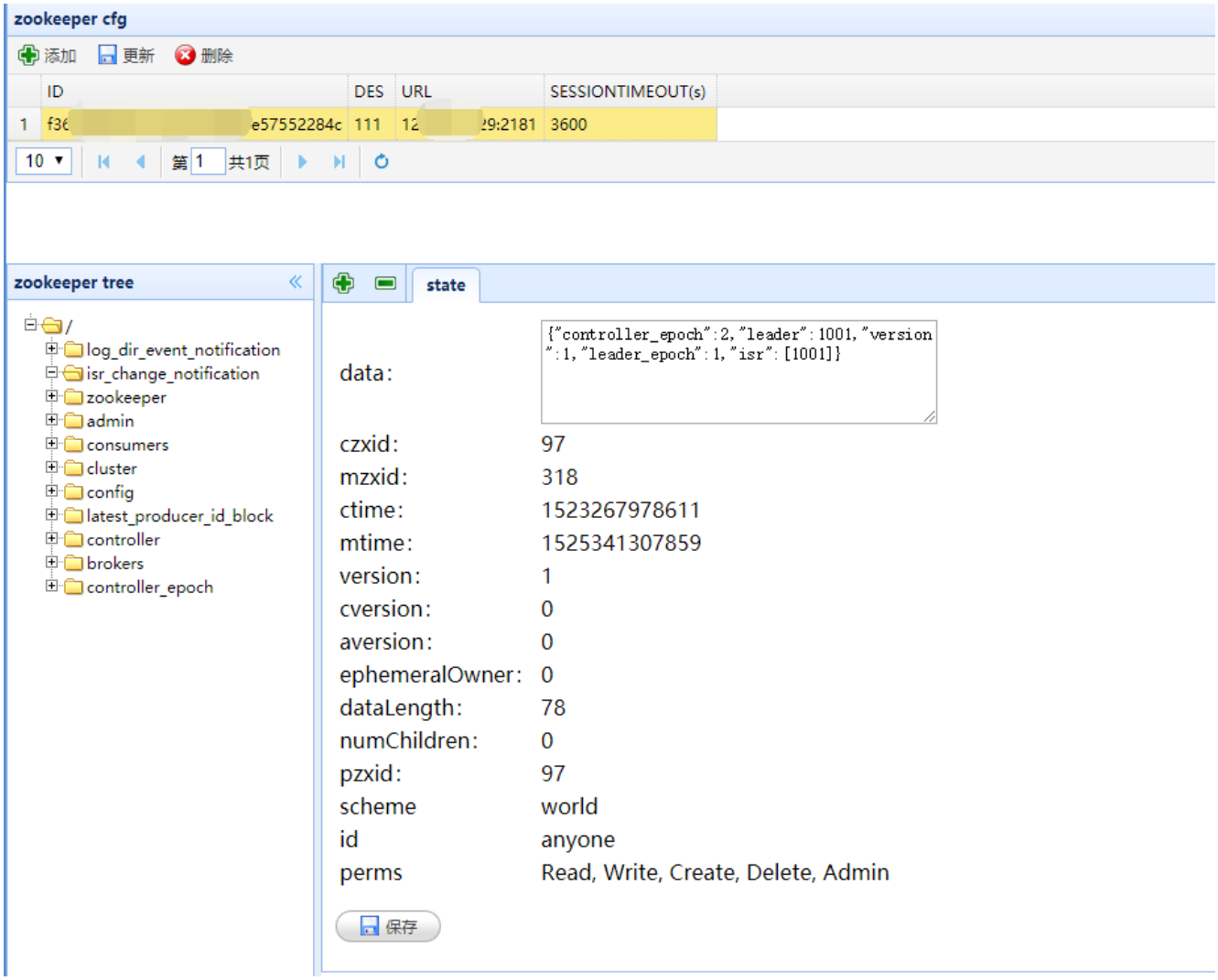
Zookeeper

ZooInspector

- https://issues.apache.org/jira/secure/attachment/12436620/ZooInspector.zip
- jar
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zooweb

- https://github.com/zhuhongyu345/zooweb
- Spring Boot Web `java -jar zooweb-1.0.jar` web http://127.0.0.1:9345

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- https://liwei.io/2017/07/19/zookeeper-cluster-in-docker/

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