Cloud Computing: UE20CS352

Assignment 4

-Adithya M, Section K
-PES1UG20CS621

la.jpg Screenshot of Zookeeper Server having started.

```
adithya@ubuntu:/opt/apache-zookeeper-3.8.0-bin$ sudo bin/zkServer.sh start
[sudo] password for adithya:
/usr/bin/java
ZooKeeper JMX enabled by default
Using config: /opt/apache-zookeeper-3.8.0-bin/bin/../conf/zoo.cfg
Starting zookeeper ... STARTED
adithya@ubuntu:/opt/apache-zookeeper-3.8.0-bin$
```

2a.jpg Screenshot of Listing of the created ZNodes

```
adithya@ubuntu: /opt/apache-zookeeper-3.8.0-bin 🔍 😑
2023-03-22 17:11:42,017 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1173] - SASL config status: Will not attempt
to authenticate using SASL (unknown error)
JLine support is enabled
2023-03-22 17:11:42,036 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1005] - Socket connection established, initia
ting session, client: /127.0.0.1:33866, server: localhost/127.0.0.1:2181
2023-03-22 17:11:42,049 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1444] - Session establishment complete on ser
ver localhost/127.0.0.1:2181, session id = 0x100000e8f050001, negotiated timeout
 = 30000
WATCHER::
WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] create -s /PES1UG20CS621_seq "a sequential nod
Created /PES1UG20CS621_seq0000000000
[zk: localhost:2181(CONNECTED) 1] create -e /PES1UG20CS621_eph "an ephemeral nod
Created /PES1UG20CS621 eph
[zk: localhost:2181(CONNECTED) 2] ls /
[PES1UG20CS621_eph, PES1UG20CS621_seq0000000000, zookeeper]
[zk: localhost:2181(CONNECTED) 3]
```

2b.jpg Screenshot of Listing of the deleted ephemeral node

```
adithya@ubuntu: /opt/apache-zookeeper-3.8.0-bin
2023-03-22 17:14:33,364 [myid:] - INFO [main:o.a.z.ClientCnxn@1732] - zookeeper
.request.timeout value is 0. feature enabled=false
Welcome to ZooKeeper!
2023-03-22 17:14:33,380 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1171] - Opening socket connection to server l
ocalhost/127.0.0.1:2181.
2023-03-22 17:14:33,382 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1173] - SASL config status: Will not attempt
to authenticate using SASL (unknown error)
JLine support is enabled
2023-03-22 17:14:33,397 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1005] - Socket connection established, initia
ting session, client: /127.0.0.1:33868, server: localhost/127.0.0.1:2181
2023-03-22 17:14:33,417 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1444] - Session establishment complete on ser
ver localhost/127.0.0.1:2181, session id = 0x1000000e8f050002, negotiated timeout
 = 30000
WATCHER::
WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] ls /
[PES1UG20CS621_seq0000000000, zookeeper]
[zk: localhost:2181(CONNECTED) 1]
```

2c.jpg Screenshot of Data and Metadata associated with the created sequential znode.

```
adithya@ubuntu: /opt/apache-zookeeper-3.8.0-bin
:2181):o.a.z.ClientCnxn$SendThread@1005] - Socket connection established, initia
ting session, client: /127.0.0.1:33872, server: localhost/127.0.0.1:2181
2023-03-22 17:16:51,437 [myid:localhost:2181] - INFO [main-SendThread(localhost
:2181):o.a.z.ClientCnxn$SendThread@1444] - Session establishment complete on ser
ver localhost/127.0.0.1:2181, session id = 0x1000000e8f0500004, negotiated timeout
= 30000
WATCHER::
WatchedEvent state:SyncConnected type:None path:null
a sequential node
cZxid = 0x4
ctime = Wed Mar 22 17:12:02 IST 2023
mZxid = 0x4
mtime = Wed Mar 22 17:12:02 IST 2023
pZxid = 0x4
cversion = 0
dataVersion = 0
aclVersion = 0
ephemeralOwner = 0x0
dataLength = 17
numChildren = 0
[zk: localhost:2181(CONNECTED) 1]
```

2d.jpg Screenshot of Listing of all the children nodes

```
[zk: localhost:2181(CONNECTED) 7] ls /PES1UG20CS621
[Adithya, M]
[zk: localhost:2181(CONNECTED) 8]
```

3a.jpg Screenshot of each of the clients listing all the znodes

3b.jpg Screenshot of the Watched Event and the Zookeeper Server logs.

