# Cloud Computing UE19CS352

# 6th Semester, Academic Year 2021-22

Assignment #: 4 - ZooKeeper

Date: 4/4/2022

Name:

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SRN:

PES1UG19CS519

Section:

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#### 1.jpg:

```
sumukhbhat2701@pop-os:apache-zookeeper-3.8.0-bin$ bin/zkServer.sh start
/usr/bin/java
ZooKeeper JMX enabled by default
Using config: /opt/apache-zookeeper-3.8.0-bin/bin/../conf/zoo.cfg
Starting zookeeper ... STARTED
```

## 2a.jpg:

```
[zk: localhost:2181(CONNECTED) 2] ls /
[pes1ug19cs519_eph, pes1ug19cs519_seq0000000002, zookeeper]
[zk: localhost:2181(CONNECTED) 3]
```

## 2b.jpg:

```
[zk: localhost:2181(CONNECTED) 0] ls /
[pes1ug19cs519_seq0000000002, zookeeper]
[zk: localhost:2181(CONNECTED) 1]
```

#### 2c.png:

```
[zk: localhost:2181(CONNECTED) 6] get -s /pes1ug19cs519_seq00000000002
/data
cZxid = 0x16
ctime = Mon Apr 04 14:30:42 IST 2022
mZxid = 0x1b
mtime = Mon Apr 04 14:35:57 IST 2022
pZxid = 0x16
cversion = 0
dataVersion = 1
aclVersion = 0
ephemeralOwner = 0x0
dataLength = 5
numChildren = 0
[zk: localhost:2181(CONNECTED) 7]
```

#### 2d.png:

```
[zk: localhost:2181(CONNECTED) 24] ls /pes1ug19cs519_seq0000000002
[bhat, sumukh]
[zk: localhost:2181(CONNECTED) 25]
```

#### 3a.png

#### Client 1:

```
[zk: localhost:2181(CONNECTED) 8] ls /pes1ug19cs519
[candidate0000000003, candidate000000004, candidate000000005]
[zk: localhost:2181(CONNECTED) 9]
```

#### Client 2:

```
[zk: localhost:2181(CONNECTED) 9] ls /pes1ug19cs519
[candidate0000000003, candidate000000004, candidate000000005]
[zk: localhost:2181(CONNECTED) 10]
```

#### Client 3:

```
[zk: localhost:2181(CONNECTED) 1] ls /pes1ug19cs519
[candidate0000000003, candidate000000004, candidate000000005]
[zk: localhost:2181(CONNECTED) 2]
```

#### 3b.png:

#### Server:

```
org.apache.zookeeper.server.ServerCnxn$EndOfStreamException: Unable to read additional data from client, it probably closed the socket: address = /[0:0:0:0:0:0:0:0:0:0:0:0:1]:58862, session = 0x100006
6dC540003
at org.apache.zookeeper.server.NIOServerCnxn.dato(NIOServerCnxn.java:373)
at org.apache.zookeeper.server.NIOServerCnxn.doto(NIOServerCnxn.java:333)
at org.apache.zookeeper.server.NIOServerCnxnFactory$IOWorkRequest.doWork(NIOServerCnxnFactory.java:508)
at org.apache.zookeeper.server.WorkerService$ScheduledWorkRequest.run(WorkerService.java:153)
at java.base/java.util.concurrent.ThreadPoolExecutor.runWorkerChreadPoolExecutor.java:1366)
at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base/java.lang.Thread.run(Thread.java:833)
```

#### Client 2: (where the node was "quit")

#### Client 3: (the node upon which watch was kept by client 2)

```
[zk: localhost:2181(CONNECTED) 4]
[zk: localhost:2181(CONNECTED) 4]
WATCHER::
WatchedEvent state:SyncConnected type:NodeDeleted path:/pes1ug19cs
```