Cloud Computing Assignment 4

Name: Vishwa Mehul Mehta

SRN: PES2UG20CS389

Sec: F

Date: 21-03-2023

1a.

2a.

2b.


```
er-3.8.0-bin
2023-03-21 14:22:40,724 [myid:] - INFO  [main:o.a.z.Environment@98] - Client environment:os.memory.free=190MB
2023-03-21 14:22:40,724 [myid:] - INFO  [main:o.a.z.Environment@98] - Client environment:os.memory.max=256MB
2023-03-21 14:22:40,724 [myid:] - INFO  [main:o.a.z.Environment@98] - Client environment:os.memory.total=200MB
2023-03-21 14:22:40,726 [myid:] - INFO  [main:o.a.z.ZooKeeper@637] - Initiating client connection, connectString=loca
lhost:2181 sessionTimeout=30000 watcher=org.apache.zookeeper.ZooKeeperMain$MyWatcher@5f3a4b84
2023-03-21 14:22:40,734 [myid:] - INFO  [main:o.a.z.c.X509Util@77] - Setting -D jdk.tls.rejectClientInitiatedRenegoti
ation=true to disable client-initiated TLS renegotiation
2023-03-21 14:22:40,746 [myid:] - INFO  [main:o.a.z.ClientCnxnSocket@239] - jute.maxbuffer value is 1048575 Bytes
2023-03-21 14:22:40,756 [myid:] - INFO  [main:o.a.z.ClientCnxn@1732] - zookeeper.request.timeout value is 0. feature
enabled=false
Welcome to ZooKeeper!
2023-03-21 14:22:40,763 [myid:localhost:2181] - INFO  [main-SendThread(localhost:2181):o.a.z.ClientCnxn$SendThread@11
71] - Opening socket connection to server localhost/127.0.0.1:2181.
2023-03-21 14:22:40,763 [myid:localhost:2181] - INFO  [main-SendThread(localhost:2181):o.a.z.ClientCnxn$SendThread@11
73] - SASL config status: Will not attempt to authenticate using SASL (unknown error)
2023-03-21 14:22:40,773 [myid:localhost:2181] - INFO  [main-SendThread(localhost:2181):o.a.z.ClientCnxn$SendThread@10
05] - Socket connection established, initiating session, client: /127.0.0.1:35988, server: localhost/127.0.0.1:2181
2023-03-21 14:22:40,784 [myid:localhost:2181] - INFO  [main-SendThread(localhost:2181):o.a.z.ClientCnxn$SendThread@14
44] - Session establishment complete on server localhost/127.0.0.1:2181, session id = 0x10000872f8f0002, negotiated t
imeout = 30000
JLine support is enabled

WATCHER::

WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] ls /
[pes2ug20cs389_seq0000000001, zookeeper]
[zk: localhost:2181(CONNECTED) 1]
```

2c.


```
Node does not exist: /path
[zk: localhost:2181(CONNECTED) 2] get -s /pes2ug20cs389_seq0000000001
a sequential node
cZxid = 0x7
ctime = Tue Mar 21 14:19:17 IST 2023
mZxid = 0x7
mtime = Tue Mar 21 14:19:17 IST 2023
pZxid = 0x7
cversion = 0
dataVersion = 0
aclVersion = 0
ephemeralOwner = 0x0
dataLength = 17
numChildren = 0
[zk: localhost:2181(CONNECTED) 3] set /pes2ug20cs389_seq0000000001 /updated
[zk: localhost:2181(CONNECTED) 4] get -s /pes2ug20cs389_seq0000000001
/updated
cZxid = 0x7
ctime = Tue Mar 21 14:19:17 IST 2023
mZxid = 0xf
mtime = Tue Mar 21 14:25:27 IST 2023
pZxid = 0x7
cversion = 0
dataVersion = 1
aclVersion = 0
ephemeralOwner = 0x0
dataLength = 8
numChildren = 0
[zk: localhost:2181(CONNECTED) 5]
```

2d.


```
[zk: localhost:2181(CONNECTED) 8] ls /pes2ug20cs389
[mehta, vishwa]
[zk: localhost:2181(CONNECTED) 9]
```

3a.

3b.

3c.

2023-03-21 14:36:12,881 [myid:] - INFO [main:o.e.j.s.Server@415] - Started @784ms
2023-03-21 14:36:12,881 [myid:] - INFO [main:o.a.z.s.a.JettyAdminServer@196] - Started AdminServer on address 0.0.0.0, port 8080 and command URL /commands
2023-03-21 14:36:12,885 [myid:] - INFO [main:o.a.z.s.ServerCnxnFactory@169] - Using org.apache.zookeeper.server.NIOServerCnxnFactory as server connection factory
2023-03-21 14:36:12,886 [myid:] - WARN [main:o.a.z.s.ServerCnxnFactory@309] - maxCnxns is not configured, using default value 0.
2023-03-21 14:36:12,891 [myid:] - INFO [main:o.a.z.s.NIOServerCnxnFactory@652] - Configuring NIO connection handler with 10s sessionless connection timeout, 2 selector thread(s), 16 work
er threads, and 64 kB direct buffers.
2023-03-21 14:36:12,892 [myid:] - INFO [main:o.a.z.s.NIOServerCnxnFactory@660] - binding to port 0.0.0.0/0.0.0.0:2181
2023-03-21 14:36:12,905 [myid:] - INFO [main:o.a.z.s.w.WatchManagerFactory@42] - Using org.apache.zookeeper.server.watch.WatchManager as watch manager
2023-03-21 14:36:12,905 [myid:] - INFO [main:o.a.z.s.w.WatchManagerFactory@42] - Using org.apache.zookeeper.server.watch.WatchManager as watch manager
2023-03-21 14:36:12,905 [myid:] - INFO [main:o.a.z.s.ZKDatabase@132] - zookeeper.snapshotSizeFactor = 0.33
2023-03-21 14:36:12,905 [myid:] - INFO [main:o.a.z.s.ZKDatabase@152] - zookeeper.commitLogCount=500
2023-03-21 14:36:12,911 [myid:] - INFO [main:o.a.z.s.p.SnapStream@61] - zookeeper.snapshot.compression.method = CHECKED
2023-03-21 14:36:12,912 [myid:] - INFO [main:o.a.z.s.p.FileSnap@85] - Reading snapshot /opt/apache-zookeeper-3.8.0-bin/data/version-2/snapshot.2
2023-03-21 14:36:12,914 [myid:] - INFO [main:o.a.z.s.DataTree@1705] - The digest in the snapshot has digest version of 2, with zxid as 0x2, and digest value as 1371985504
2023-03-21 14:36:12,931 [myid:] - INFO [main:o.a.z.a.ZKAuditProvider@42] - ZooKeeper audit is disabled.
2023-03-21 14:36:12,932 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@372] - 17 txns loaded in 11 ms
2023-03-21 14:36:12,932 [myid:] - INFO [main:o.a.z.s.ZKDatabase@289] - Snapshot loaded in 27 ms, highest zxid is 0x13, digest is 13866397031
2023-03-21 14:36:12,933 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@479] - Snapshotting: 0x13 to /opt/apache-zookeeper-3.8.0-bin/data/version-2/snapshot.13
2023-03-21 14:36:12,934 [myid:] - INFO [main:o.a.z.s.ZooKeeperServer@547] - Snapshot taken in 1 ms
2023-03-21 14:36:12,944 [myid:] - INFO [ProcessThread(sid:0 cport:2181)::o.a.z.s.PrepRequestProcessor@138] - PrepRequestProcessor (sid:0) started, reconfigEnabled=false
2023-03-21 14:36:12,944 [myid:] - INFO [main:o.a.z.s.RequestThrottler@75] - zookeeper.request_throttler.shutdownTimeout = 10000 ms
2023-03-21 14:36:12,963 [myid:] - INFO [main:o.a.z.s.ContainerManager@84] - Using checkIntervalMs=60000 maxPerMinute=10000 maxNeverUsedIntervalMs=0
2023-03-21 14:38:27,291 [myid:] - INFO [SyncThread:0:o.a.z.s.p.FileTxnLog@285] - Creating new log file: log.14

2023-03-21 15:00:15,022 [myid:localhost:2181] - INFO [main-SendT
hread(localhost:2181):o.a.z.ClientCnxn$SendThread@1173] - SASL co
nfig status: Will not attempt to authenticate using SASL (unknown
 error)
2023-03-21 15:00:15,035 [myid:localhost:2181] - INFO [main-SendT
hread(localhost:2181):o.a.z.ClientCnxn$SendThread@1005] - Socket
connection established, initiating session, client: /127.0.0.1:35
998, server: localhost/127.0.0.1:2181
JLine support is enabled
2023-03-21 15:00:15,045 [myid:localhost:2181] - INFO [main-SendT
hread(localhost:2181):o.a.z.ClientCnxn$SendThread@1444] - Session
 establishment complete on server localhost/127.0.0.1:2181, sessi
on id = 0x100009c972a0004, negotiated timeout = 30000

WATCHER::

WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] create -s -e /pes2ug20cs389/can
didate
Created /pes2ug20cs389/candidate0000000003
[zk: localhost:2181(CONNECTED) 1]

org.apache.zookeeper.ClientCnxn$EndOfStreamException: Unable
to read additional data from server sessionid 0x100009c972a00
02, likely server has closed socket
        at org.apache.zookeeper.ClientCnxnSocketNIO.doIO(Clie
ntCnxnSocketNIO.java:77)
        at org.apache.zookeeper.ClientCnxnSocketNIO.doTranspo
rt(ClientCnxnSocketNIO.java:350)
        at org.apache.zookeeper.ClientCnxn$SendThread.run(Cli
entCnxn.java:1282)
WATCHER::

WatchedEvent state:Closed type:None path:null
2023-03-21 14:56:44,573 [myid:] - INFO [main-EventThread:o.a
.z.ClientCnxn$EventThread@568] - EventThread shut down for se
ssion: 0x100009c972a0002
2023-03-21 14:56:44,573 [myid:] - INFO [main:o.a.z.ZooKeeper
@1232] - Session: 0x100009c972a0002 closed
2023-03-21 14:56:44,575 [myid:] - ERROR [main:o.a.z.u.Service
Utils@42] - Exiting JVM with code 0
vishwa@Acer-Vishwa:/opt/apache-zookeeper-3.8.0-bin$

numChildren = 0
[zk: localhost:2181(CONNECTED) 2] get -s -w /pes2ug20cs389/
candidate0000000001
null
cZxid = 0x20
ctime = Tue Mar 21 14:48:35 IST 2023
mZxid = 0x20
mtime = Tue Mar 21 14:48:35 IST 2023
pZxid = 0x20
cversion = 0
dataVersion = 0
aclVersion = 0
ephemeralOwner = 0x100009c972a0002
dataLength = 0
numChildren = 0
[zk: localhost:2181(CONNECTED) 3]
WATCHER::

WatchedEvent state:SyncConnected type:NodeDeleted path:/pes
2ug20cs389/candidate0000000001

[0] 0:bash*   "Acer-Vishwa" 15:01 21-Mar-23