

## Ezmeral Data Fabric Name Container is stuck in RESYNC State

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### Issue

The name container of a system created volume such as mapr.var or mapr.tmp is stuck in RESYNC state:

```
"ContainerId":171713100,
  "Epoch":81,
  "mirrorCid":0,
  "Primary":"**.*.*.*.29:5660--81-VALID",
  "ActiveServers":{
    "IP":[
      "**.*.*.*.29:5660--81-VALID",
      "**.*.*.*.3:5660--81-VALID",
      "**.*.*.*.99:5660--80-RESYNC"
```

### Environment

OS version: RHEL v7.\* v8.\*  
Ezmeral Data Fabric v7.\*  
Ezmeral Data Fabric EEP v8.\*, 9.\*

### Cause

The root cause of this issue is not yet known. HPE Engineering is working to identify the root cause. We observe the "mrconfig info threads" output shows threads are stuck in ContainerResyncWA:

```
$ mrconfig info threads
-----
Time: 2024-09-03 12:50:44,5166 Instance 5660
-----
Thread:ContainerResyncWA Thread (On Source) WA:0x55f256f7c000 line:3213 srccid 171713100 replicacid 171713100 DestNode
stack:  fs/server/replication/containerresync.cc:3213
       fs/server/replication/containerresync.cc:4806

$ mrconfig info threads
-----
Time: 2024-09-03 12:51:43,5056 Instance 5660
-----
Thread:ContainerRestoreWA Thread (On Replica workarea:0x9adf9e000 line:567 additional_info:srccid 171713100 replicaci
stack:  fs/server/replication/resyncabort.cc:567
```

### Resolution

#### WORKAROUND

1. Reduce the replication factor to 1 and then increase it back to the default value
- a. Decrease volume replication factor to 1:
- ```
$ /opt/mapr/bin/maprccli volume modify -name <volume_name> -nsminreplication 1 -nsreplication 1 -minreplication
```
- b. Delete replica's container from the replica nodes:
- ```
$ /opt/mapr/server/mrconfig cntr delete <cid>
```
- c. Wait for the replication factor to be reduced to 1:
- ```
$ maprccli dump containerinfo -ids <cid> -json
```
- d. Restart the fileserver on the Primary replica node:
- ```
$ maprccli node services -name fileserver -nodes `hostname -f` -action restart
```
- e. Increase the replication factor back to the original value.
- ```
$ /opt/mapr/bin/maprccli volume modify -name <volume_name> -nsminreplication 2 -nsreplication 3 -minreplication
```
- f. Verify whether the container is replicating properly

If the above approach does not work, then unmount the volume and mount it to different path. Create a new volume and mount it on the original path. Copy data from the existing volume to the new volume.

