MONGODB ATLAS BACKUP PLAN

SECTION-02

TEAM-05

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BACK UP WITH ATLAS

- While deploying in production, one should have backup plan without losing data.

MongoDB Atlas provides two methods for backups:

- Continuous Backups : Within 24 hours, Atlas continuous backups allows one to r estore from stored snapshots or selected point. You can also perform query oper ations.
- Cloud Provider Snapshots : Using the native snapshot functionality, it provides lo calized backup storage.

MONGODB CLOUD MANAGER

- It is a hosted backup, monitoring, and automation service and supports ba cking up and restoring MongoDB deployments from a GUI.
- It creates your snapshot data at set of intervals.

OPS MANAGER

- MongoDB subscribers can install and run the same core software that po wers MongoDB Cloud Manager on their own infrastructure.

BACKUP WORKFLOW

- Backup performs an initial sync of deployment's data as if it were creating a new, "invisible" member of a replica set.
- Backup executes the initial sync and the tailing of the oplog (stores an ordered history of logical writes to a MongoDB database) using standard MongoDB queries. The cluster being backed up is unaware of the additional copy of the backup data.
- Backup uses a MongoDB instance version equal to or greater than the version of the replica set it backs up.

TO CREATE AN INSTANCE OF DATABASE CONNECTION

```
const backup = new MongoBackup({
    user: 'userWithMightyAccess',
    password: '<VERY SECRET PASSWORD>',
    replicaSet: 'Cluster0-shard-0',
    nodes: [
        'cluster0-shard-00-00-cbei2.mongodb.net:27017',
        'cluster0-shard-00-01-cbei2.mongodb.net:27017',
        'cluster0-shard-00-02-cbei2.mongodb.net:27017'
    ]
})
```

- Cluster dumping

  backup.dump()

- Restore data to your cluster

  backup.restore()

HOW BACKUP WORKS

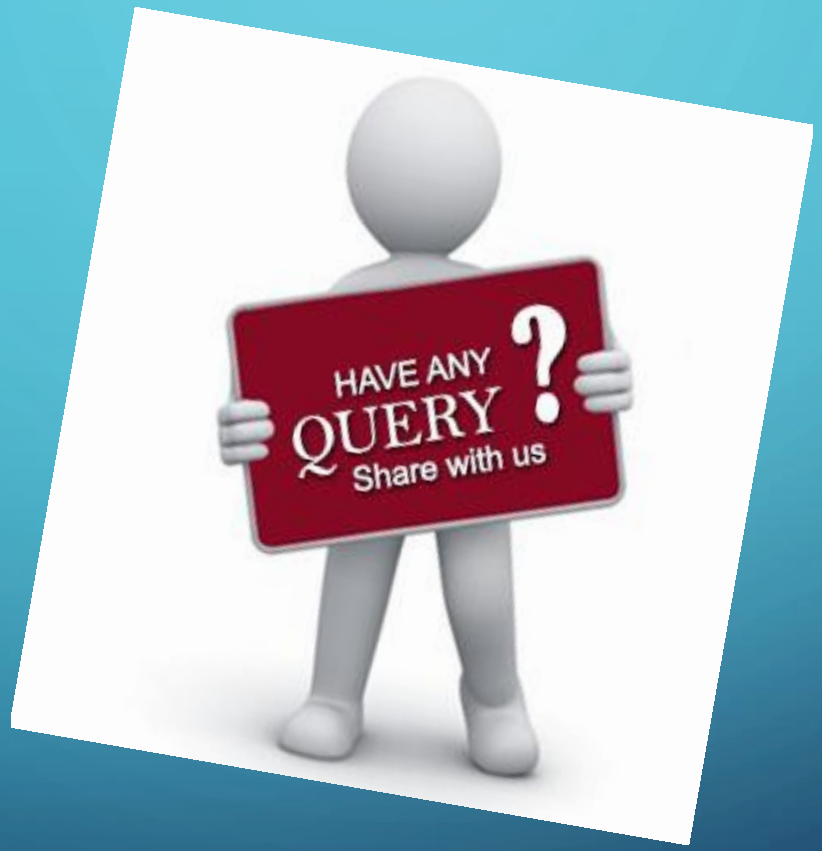
- When you activate Backup for a MongoDB deployment, Backup takes snapshots of data from the MongoDB processes you have specified.

RESTORE DATA

- Backup can restore data from a complete scheduled snapshot or from a selected point between snapshots.
- For sharded clusters you can restore from checkpoints between snapshots.
- For replica sets, you can restore from selected points in time.

IMPROVEMENTS

- Add support for dumping/restoring specific database (just need to add a pair of command line arguments)
- Extract connection specs from existing Mongo/ose connection.
- Add support for non-Unix OS (aka Windows)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