

# Performing a Bulk Set

# Bulk insert - cbdocloader Tool

✓ to load a group of JSON documents in a given directory, or in a single .zip file

Linux	/opt/couchbase/bin/tools/
Windows	C:\Program Files\Couchbase\Server\bin\tools\
Mac OS X	/Applications/Couchbase Server.app/Contents/Resources/couchbase-core/bin/tools/

```
./cbdocloader -n localhost:8091 -u Administrator -p password -b mybucket ../samples/gamesim.zip
```

# Backup and Restore

# To facilitate backup and restore

- Using **cbbackupmgr** Tool
  - All backups can be performed on a live running cluster.
- Using **cbbackup** and **cbrestore** Tools

- A backup repository

```
[root@tos bin]# pwd
/opt/couchbase/bin
[root@tos bin]# ./cbbackupmgr config --archive /data/backup --repo cluster
Backup repository `cluster` created successfully in archive `/data/backup`
[root@tos bin]#
```

```
[root@tos bin]# ./cbbackupmgr list --archive /data/backup
Size      Items      Name
0B        -          /
0B        -          + cluster
```

- Backing up a Cluster

```
[root@tos bin]# ./cbbackupmgr backup --archive /data/backup --repo cluster --host couchbase://127.0.0.1 --username Administrator --password admin123

Backing up to 2016-08-21T20_20_51.098674815+05_30
Copied all data in 8.06s (Avg. 403.32KB/Sec)                7303 items / 3.15MB
beer-sample      [=====] 100.00%
default          [=====] 100.00%

Backup successfully completed
[root@tos bin]#
```

- the state of backup archive

```
[root@tos bin]# ./cbbackupmgr list --archive /data/backup
Size      Items      Name
106.10MB  -          /
106.10MB  -          + cluster
106.10MB  -          + 2016-08-21T20_20_51.098674815+05_30
56.00MB   -          + beer-sample
296B      0          bucket-config.json
56.00MB   7303       + data
56.00MB   7303       shard_0.fdb
2B        0          full-text.json
129B      0          gsi.json
784B      1          views.json
50.10MB   -          + default
294B      0          bucket-config.json
50.10MB   0          + data
50.10MB   0          shard_0.fdb
2B        0          full-text.json
129B      0          gsi.json
2B        0          views.json
[root@tos bin]#
```

- Restoring a Backup

```
[root@tos bin]# ./cbbackupmgr restore --archive /data/backup --repo cluster --host http://127.0.0.1:8091 --username Administrator --password admin123 --start 2016-08-21T20_20_51.098674815+05_30 --end 2016-08-21T20_20_51.098674815+05_30 --force-updates

(1/1) Restoring backup 2016-08-21T20_20_51.098674815+05_30
Copied all data in 4.02s (Avg. 783.43KB/Sec)                                7303 items / 3.06MB
beer-sample                        [=====] 100.00%
default                          [=====] 100.00%

Restore completed successfully
[root@tos bin]#
```

- **cbbbackup** tool provides backup for a running cluster
  - Entire cluster – across all bucket
  - Single node – across all buckets
  - Single node – single bucket
  - Supports remote or local access
- Incremental backups
  - Differential or cumulative
  - Only backs up data that has changed since the last backup
  - Minimize resource and time consumption during backups
  - Enables more frequent backups
- Restore cluster to point in time of a differential or cumulative backup



# Command - Backup

```
cbbbackup [options] [source] [backup_dir]
```

## Backup all nodes and all buckets

```
shell> cbbbackup http://HOST:8091 /backups/backup-20120501 \  
-u Administrator -p password
```

## Backup all nodes, single bucket

```
shell> cbbbackup http://HOST:8091 /backups/backup-20120501 \  
-u Administrator -p password \  
-b default
```

# Command – Backup (File Copies)

For example, using `cbbbackup`:

```
shell> cbbbackup \  
couchstore-files:///opt/couchbase/var/lib/couchbase/data/default \  
/mnt/backup-20120501
```

The same backup operation using `cp`:

```
shell> cp -R /opt/couchbase/var/lib/couchbase/data/default \  
/mnt/copy-20120501
```

# Restoring using cbrestore tool

to restore a single bucket of data to a cluster:

```
shell> cbrestore \  
  /backups/backup-2012-05-10 \  
  http://Administrator:password@HOST:8091 \  
  --bucket-source=XXX
```

To restore the bucket data to a different bucket on the cluster:

```
shell> cbrestore \  
  /backups/backup-2012-05-10 \  
  http://Administrator:password@HOST:8091 \  
  --bucket-source=XXX \  
  --bucket-destination=YYY
```

## Troubleshooting — Responses to Specific Errors

Severity	Issue	Suggested Action(s)
Critical	Couchbase Server does not start up.	Check that the service is running.
		Check error logs.
		Try restarting the service.
Critical	A server is not responding.	Check that the service is running.

Severity	Issue	Suggested Action(s)
		Check error logs.
		Try restarting the service.
Critical	A server is down.	Try restarting the server.
		Use the command-line interface to check connectivity.
Informational	Bucket authentication failure.	Check the properties of the bucket that you are attempting to connect to.

## Log File Locations

Platform	Location
Linux	<code>/opt/couchbase/var/lib/couchbase/logs</code>
Windows	<code>C:\Program Files\Couchbase\Server\log<sup>a</sup></code>
Mac OS X	<code>~/Library/Logs</code>

# Logs and Logging

File	Log Contents
<code>couchdb</code>	Errors relating to the couchdb subsystem that supports views, indexes and related REST API issues
<code>debug</code>	Debug level error messages related to the core server management subsystem, excluding information included in the <code>couchdb</code> , <code>xdcr</code> and <code>stats</code> logs.
<code>info</code>	Information level error messages related to the core server management subsystem, excluding information included in the <code>couchdb</code> , <code>xdcr</code> and <code>stats</code> logs.
<code>error</code>	Error level messages for all subsystems excluding <code>xdcr</code> .
<code>xdcr_error</code>	XDCR error messages.
<code>xdcr</code>	XDCR information messages.
<code>mapreduce_errors</code>	JavaScript and other view-processing errors are reported in this file.
<code>views</code>	Errors relating to the integration between the view system and the core server subsystem.

# Lab : Backup and Restore