1 Couchbase CheatSheet   TOOLS

- PDF Link: cheatsheet-couchbase-A4.pdf, Category: tools

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-couchbase-A4`

- Related posts: Elasticsearch CheatSheet, #denny-cheatsheets

File me Issues or star this repo.

1.1 Couchbase Summary

Name	Command
Check couchbase version	`grep version /opt/couchbase/etc/runtime.ini`, `cat /opt/couchbase/VERSION.txt`
Get version	cat /opt/couchbase/VERSION.txt
Check couchbase status	`/etc/init.d/couchbase-server status`
couchbase web console	`http://localhost:8091` Administrator/password
cbdump-config	`/opt/couchbase/bin/cbdump-config`
pre configuration	`/opt/couchbase/var/lib/couchbase/config/config.dat`
log files	`/opt/couchbase/var/lib/couchbase/logs`
Flush cb bucket by api	flush-cb-bucket.sh

1.2 Couchbase CLI

Name	Command
couchbase-cli	`/opt/couchbase/bin/couchbase-cli`
backup couchbase	`/opt/couchbase/bin/cbbackup http://localhost:8091 /backup-42`
List buckets	`/opt/couchbase/bin/couchbase-cli bucket-list -c localhost`
Check bucket RAM usage	`cbstats -b $bucket_name 127.0.0.1:11210 memory`
Create bucket	See sample-couchbase-cli.sh
Load sample data	See sample-couchbase-cli.sh
Reset couchbase passwd	See sample-couchbase-cli.sh
Initialize couchbase cluster	See sample-couchbase-cli.sh

1.3 Couchbase REST API

Name	Command
List buckets	`curl -u $username:$passwd http://$es_ip:8091/pools/default/buckets`
Get couchbase nodes	`curl -u $username:$passwd $couchbase_ip:8091/pools/default`
Remove couchbase node	`curl -u $username:$passwd -d otpNode=ns_1@172.17.1.71 http://172.17.1.71:8091/controll`

1.4 couchbase-cli Online Usage

```
> couchbase-cli help
couchbase-cli - command-line cluster administration tool

usage: couchbase-cli COMMAND CLUSTER [OPTIONS]

COMMAND:
  server-list        list all servers in a cluster
  server-info        show details on one server
  server-add         add one or more servers to the cluster
  server-readd       readd a server that was failed over
  group-manage       manage server groups
  rebalance          start a cluster rebalancing
  rebalance-stop     stop current cluster rebalancing
  rebalance-status   show status of current cluster rebalancing
  failover           failover one or more servers
  cluster-init       set the username,password and port of the cluster
  cluster-edit       modify cluster settings
```

```
  node-init            set node specific parameters
  bucket-list          list all buckets in a cluster
  bucket-create        add a new bucket to the cluster
  bucket-edit          modify an existing bucket
  bucket-delete        delete an existing bucket
  bucket-flush         flush all data from disk for a given bucket
  bucket-compact       compact database and index data
  setting-compaction   set auto compaction settings
  setting-notification set notification settings
  setting-alert        set email alert settings
  setting-autofailover set auto failover settings
  setting-xdcr         set xdcr related settings
  ssl-manage           manage cluster certificate
  user-manage          manage read only user
  xdcr-setup           set up XDCR connection
  xdcr-replicate       xdcr operations
  help                 show longer usage/help and examples

CLUSTER:
  --cluster=HOST[:PORT] or -c HOST[:PORT]

OPTIONS:
  -u USERNAME, --user=USERNAME      admin username of the cluster
  -p PASSWORD, --password=PASSWORD  admin password of the cluster
  -o KIND, --output=KIND            KIND is json or standard
  -d, --debug

server-add OPTIONS:
  --server-add=HOST[:PORT]          server to be added
  --server-add-username=USERNAME    admin username for the
                                    server to be added
  --server-add-password=PASSWORD    admin password for the
                                    server to be added
  --group-name=GROUPNAME            group that server belongs

server-readd OPTIONS:
  --server-add=HOST[:PORT]          server to be added
  --server-add-username=USERNAME    admin username for the
                                    server to be added
  --server-add-password=PASSWORD    admin password for the
                                    server to be added
  --group-name=GROUPNAME            group that server belongs

rebalance OPTIONS:
  --server-add*                     see server-add OPTIONS
  --server-remove=HOST[:PORT]       the server to be removed

group-manage OPTIONS:
  --group-name=GROUPNAME               group name
  --create                             create a new group
  --delete                             delete an empty group
  --list                               show group/server relationship map
  --rename=NEWGROUPNAME                rename group to new name
  --add-servers=HOST[:PORT];HOST[:PORT]  add a list of servers to group
  --move-servers=HOST[:PORT];HOST[:PORT] move a list of servers from group
  --from-group=GROUPNAME               group name that to move servers from
  --to-group=GROUPNAME                 group name tat to move servers to

failover OPTIONS:
```

```
  --server-failover=HOST[:PORT]      server to failover

cluster-* OPTIONS:
  --cluster-username=USER            new admin username
  --cluster-password=PASSWORD        new admin password
  --cluster-port=PORT                new cluster REST/http port
  --cluster-ramsize=RAMSIZEMB        per node ram quota in MB

node-init OPTIONS:
  --node-init-data-path=PATH         per node path to store data
  --node-init-index-path=PATH        per node path to store index

bucket-* OPTIONS:
  --bucket=BUCKETNAME                bucket to act on
  --bucket-type=TYPE                 memcached or couchbase
  --bucket-port=PORT                 supports ASCII protocol and is auth-less
  --bucket-password=PASSWORD         standard port, exclusive with bucket-port
  --bucket-ramsize=RAMSIZEMB         ram quota in MB
  --bucket-replica=COUNT             replication count
  --enable-flush=[0|1]               enable/disable flush
  --enable-index-replica=[0|1]       enable/disable index replicas
  --wait                             wait for bucket create to be complete before returning
  --force                            force to execute command without asking for confirmation
  --data-only                        compact datbase data only
  --view-only                        compact view data only

setting-compaction OPTIONS:
  --compaction-db-percentage=PERCENTAGE    at which point database compaction is triggered
  --compaction-db-size=SIZE[MB]            at which point database compaction is triggered
  --compaction-view-percentage=PERCENTAGE  at which point view compaction is triggered
  --compaction-view-size=SIZE[MB]          at which point view compaction is triggered
  --compaction-period-from=HH:MM           allow compaction time period from
  --compaction-period-to=HH:MM             allow compaction time period to
  --enable-compaction-abort=[0|1]          allow compaction abort when time expires
  --enable-compaction-parallel=[0|1]       allow parallel compaction for database and view
  --metadata-purge-interval=DAYS           how frequently a node will purge metadata on deleted items

setting-notification OPTIONS:
  --enable-notification=[0|1]        allow notification

setting-alert OPTIONS:
  --enable-email-alert=[0|1]            allow email alert
  --email-recipients=RECIPIENT          email recipents, separate addresses with , or ;
  --email-sender=SENDER                 sender email address
  --email-user=USER                     email server username
  --email-password=PWD                  email server password
  --email-host=HOST                     email server host
  --email-port=PORT                     email server port
  --enable-email-encrypt=[0|1]          email encrypt
  --alert-auto-failover-node            node was auto failover
  --alert-auto-failover-max-reached     maximum number of auto failover nodes was reached
  --alert-auto-failover-node-down       node wasn't auto failover as other nodes are down at the same tim
  --alert-auto-failover-cluster-small   node wasn't auto fail over as cluster was too small
  --alert-ip-changed                    node ip address has changed unexpectedly
  --alert-disk-space                    disk space used for persistent storgage has reached at least 90%
  --alert-meta-overhead                 metadata overhead is more than 50%
  --alert-meta-oom                      bucket memory on a node is entirely used for metadata
  --alert-write-failed                  writing data to disk for a specific bucket has failed
```

```
setting-autofailover OPTIONS:
  --enable-auto-failover=[0|1]            allow auto failover
  --auto-failover-timeout=TIMEOUT (>=30)    specify timeout that expires to trigger auto failover

setting-xdcr OPTIONS:
  --max-concurrent-reps=[32]             maximum concurrent replications per bucket, 8 to 256.
  --checkpoint-interval=[1800]           intervals between checkpoints, 60 to 14400 seconds.
  --worker-batch-size=[500]              doc batch size, 500 to 10000.
  --doc-batch-size=[2048]KB              document batching size, 10 to 100000 KB
  --failure-restart-interval=[30]        interval for restarting failed xdcr, 1 to 300 seconds
  --optimistic-replication-threshold=[256] document body size threshold (bytes) to trigger optimistic replica

xdcr-setup OPTIONS:
  --create                               create a new xdcr configuration
  --edit                                 modify existed xdcr configuration
  --delete                               delete existed xdcr configuration
  --xdcr-cluster-name=CLUSTERNAME        cluster name
  --xdcr-hostname=HOSTNAME               remote host name to connect to
  --xdcr-username=USERNAME               remote cluster admin username
  --xdcr-password=PASSWORD               remote cluster admin password
  --xdcr-demand-encryption=[0|1]         allow data encrypted using ssl
  --xdcr-certificate=CERTIFICATE         pem-encoded certificate. Need be present if xdcr-demand-encryption i

xdcr-replicate OPTIONS:
  --create                               create and start a new replication
  --delete                               stop and cancel a replication
  --list                                 list all xdcr replications
  --xdcr-from-bucket=BUCKET              local bucket name to replicate from
  --xdcr-clucter-name=CLUSTERNAME        remote cluster to replicate to
  --xdcr-to-bucket=BUCKETNAME            remote bucket to replicate to

user-manage OPTIONS:
  --set                                  create/modify a read only user
  --list                                 list any read only user
  --delete                               delete read only user
  --ro-username=USERNAME                 readonly user name
  --ro-password=PASSWORD                 readonly user password

ssl-manage OPTIONS:
  --retrieve-cert=CERTIFICATE            retrieve cluster certificate AND save to a pem file
  --regenerate-cert=CERTIFICATE          regenerate cluster certificate AND save to a pem file

The default PORT number is 8091.

EXAMPLES:
  Set data path for an unprovisioned cluster:
    couchbse-cli node-init -c 192.168.0.1:8091 \
       --node-init-data-path=/tmp/data \
       --node-init-index-path=/tmp/index \
       -u Administrator -p password

  List servers in a cluster:
    couchbase-cli server-list -c 192.168.0.1:8091

  Server information:
    couchbase-cli server-info -c 192.168.0.1:8091

  Add a node to a cluster, but do not rebalance:
    couchbase-cli server-add -c 192.168.0.1:8091 \
```

```
      --server-add=192.168.0.2:8091 \
      --server-add-username=Administrator1 \
      --server-add-password=password1 \
      --group-name=group1 \
      -u Administrator -p password

  Add a node to a cluster and rebalance:
    couchbase-cli rebalance -c 192.168.0.1:8091 \
      --server-add=192.168.0.2:8091 \
      --server-add-username=Administrator1 \
      --server-add-password=password1 \
      --group-name=group1 \
      -u Administrator -p password

  Remove a node from a cluster and rebalance:
    couchbase-cli rebalance -c 192.168.0.1:8091 \
      --server-remove=192.168.0.2:8091 \
      -u Administrator -p password

  Remove and add nodes from/to a cluster and rebalance:
    couchbase-cli rebalance -c 192.168.0.1:8091 \
      --server-remove=192.168.0.2 \
      --server-add=192.168.0.4 \
      --server-add-username=Administrator1 \
      --server-add-password=password1 \
      --group-name=group1 \
      -u Administrator -p password

  Stop the current rebalancing:
    couchbase-cli rebalance-stop -c 192.168.0.1:8091 \
      -u Administrator -p password

  Set the username, password, port and ram quota:
    couchbase-cli cluster-init -c 192.168.0.1:8091 \
      --cluster-init-username=Administrator \
      --cluster-init-password=password \
      --cluster-init-port=8080 \
      --cluster-init-ramsize=300

  change the cluster username, password, port and ram quota:
    couchbase-cli cluster-edit -c 192.168.0.1:8091 \
      --cluster-username=Administrator1 \
      --cluster-password=password1 \
      --cluster-port=8080 \
      --cluster-ramsize=300 \
      -u Administrator -p password

  Change the data path:
     couchbase-cli node-init -c 192.168.0.1:8091 \
      --node-init-data-path=/tmp \
      -u Administrator -p password

  List buckets in a cluster:
    couchbase-cli bucket-list -c 192.168.0.1:8091

  Create a new dedicated port couchbase bucket:
    couchbase-cli bucket-create -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --bucket-type=couchbase \
```

```
      --bucket-port=11222 \
      --bucket-ramsize=200 \
      --bucket-replica=1 \
      -u Administrator -p password
```

Create a couchbase bucket and wait for bucket ready:
```
  couchbase-cli bucket-create -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --bucket-type=couchbase \
      --bucket-port=11222 \
      --bucket-ramsize=200 \
      --bucket-replica=1 \
      --wait \
      -u Administrator -p password
```

Create a new sasl memcached bucket:
```
  couchbase-cli bucket-create -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --bucket-type=memcached \
      --bucket-password=password \
      --bucket-ramsize=200 \
      --enable-flush=1 \
      -u Administrator -p password
```

Modify a dedicated port bucket:
```
  couchbase-cli bucket-edit -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --bucket-port=11222 \
      --bucket-ramsize=400 \
      --enable-flush=1 \
      -u Administrator -p password
```

Delete a bucket:
```
  couchbase-cli bucket-delete -c 192.168.0.1:8091 \
      --bucket=test_bucket
```

Flush a bucket:
```
  couchbase-cli bucket-flush -c 192.168.0.1:8091 \
      --force \
      -u Administrator -p password
```

Compact a bucket for both data and view
```
  couchbase-cli bucket-compact -c 192.168.0.1:8091 \
        --bucket=test_bucket \
        -u Administrator -p password
```

Compact a bucket for data only
```
  couchbase-cli bucket-compact -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --data-only \
      -u Administrator -p password
```

Compact a bucket for view only
```
  couchbase-cli bucket-compact -c 192.168.0.1:8091 \
      --bucket=test_bucket \
      --view-only \
      -u Administrator -p password
```

Create a XDCR remote cluster

```
  couchbase-cli xdcr-setup -c 192.168.0.1:8091 \
      --create \
      --xdcr-cluster-name=test \
      --xdcr-hostname=10.1.2.3:8091 \
      --xdcr-username=Administrator1 \
      --xdcr-password=password1 \
      --xdcr-demand-encryption=1 \
      --xdcr-certificate=/tmp/test.pem \
      -u Administrator -p password

Delete a XDCR remote cluster
  couchbase-cli xdcr-setup -delete -c 192.168.0.1:8091 \
      --xdcr-cluster-name=test \
      -u Administrator -p password

Start a replication stream in memcached protocol
  couchbase-cli xdcr-replicate -c 192.168.0.1:8091 \
      --create \
      --xdcr-cluster-name=test \
      --xdcr-from-bucket=default \
      --xdcr-to-bucket=default1 \
      --xdcr-replication-mode=xmem \
      -u Administrator -p password

Start a replication stream in capi protocol
  couchbase-cli xdcr-replicate -c 192.168.0.1:8091 \
      --create \
      --xdcr-cluster-name=test \
      --xdcr-from-bucket=default \
      --xdcr-to-bucket=default1 \
      --xdcr-replication-mode=capi \
      -u Administrator -p password

Delete a replication stream
  couchbase-cli xdcr-replicate -c 192.168.0.1:8091 \
      --delete \
      --xdcr-replicator=f4eb540d74c43fd3ac6d4b7910c8c92f/default/default \
      -u Administrator -p password

List all xdcr replication streams
  couchbase-cli xdcr-replicate -c 192.168.0.1:8091 \
      --list \
      -u Administrator -p password

List read only user in a cluster:
  couchbase-cli user-manage --list -c 192.168.0.1:8091 \
          -u Administrator -p password

Delete a read only user in a cluster
  couchbase-cli user-manage -c 192.168.0.1:8091 \
      --delete --ro-username=readonlyuser \
      -u Administrator -p password

create/modify a read only user in a cluster
  couchbase-cli user-manage -c 192.168.0.1:8091 \
      --set --ro-username=readonlyuser --ro-password=readonlypassword \
      -u Administrator -p password

Create a new group
```

```
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --create --group-name=group1 -u Administrator -p password

  Delete an empty group
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --delete --group-name=group1 -u Administrator -p password

  Rename an existed group
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --rename=newgroup --group-name=group1 -u Administrator -p password

  Show group/server map
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --list -u Administrator -p password

  Add a server to a group
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --add-servers="10.1.1.1:8091;10.1.1.2:8091" \
          --group-name=group1 \
          --server-add-username=Administrator1 \
          --server-add-password=password1 \
          -u Administrator -p password

  Move list of servers from group1 to group2
      couchbase-cli group-manage -c 192.168.0.1:8091 \
          --move-servers="10.1.1.1:8091;10.1.1.2:8091" \
          --from-group=group1 \
          --to-group=group2 \
          -u Administrator -p password

  Download a cluster certificate
      couchbase-cli ssl-manage -c 192.168.0.1:8091 \
          --retrieve-cert=/tmp/test.pem \
          -u Administrator -p password

  Regenerate AND download a cluster certificate
      couchbase-cli ssl-manage -c 192.168.0.1:8091 \
          --regenerate-cert=/tmp/test.pem \
          -u Administrator -p password

root@testmini1:/opt/couchbase/bin#
root@testmini1:/cloudpass/backend/build/bin# cd /opt/couchbase/bin
root@testmini1:/opt/couchbase/bin# ls
cbbackup                cbworkloadgen      dump-guts        install
cbbrowse_logs           couchbase-cli      ebucketmigrator  makeconv
cbcollect_info          couchbase-server   epmd             memcached
cbdump-config           couch_compact      erl              moxi
cbenable_core_dumps.sh  couchdb            erlc             reports
cbepctl                 couch_dbdump       escript          sigar_port
cbhealthchecker         couch_dbinfo       genbrk           sqlite3
cbrecovery              couchjs            gencfu           to_erl
cbreset_password        couch_viewgen      gencnval         tools
cbrestore               curl              genctd           typer
cbstats                 curl-config        generate_cert    uconv
cbtransfer              derb              genrb            vbmap
cbvbucketctl            dialyzer           icu-config
```

1.5   More Resources

`http://www.couchbase.com/#usecases`
   `https://www.digitalocean.com/community/tutorials/how-to-install-couchbase-from-source-with-git-and-make-o`
   License: Code is licensed under MIT License.