etcdctl etcd command line

CONCEPTS

Every key has a revision. Reads, watches and compaction all work in revisions, not timestamps.

put / del writes bump the revision

↓ raft

Cluster members agree on one history

↓ compact

History old revisions pile up

↓ defrag

Disk space is returned

Without --endpoints etcdctl talks to 127.0.0.1:2379. Secure clusters need the TLS flags on every call.

CONNECTION

--endpoints=<*host:port,...*>
Cluster members to contact

--cacert=<*ca.crt*>
CA that signed the server cert

--cert=<*client.crt*> **--key=**<*client.key*>
Client certificate and key

--user=<*user*>**[:**<*password*>**]**
Authenticate as a user

-w json
Output as JSON (also table, fields)

export ETCDCTL_ENDPOINTS=<*list*>
Set the flag once per shell

KEYS

etcdctl put <*key*> <*value*>
Set a key

etcdctl get <*key*>
Read a key and its value

etcdctl get <*key*> **--print-value-only**
Value only, no key line

etcdctl get --prefix <*prefix*>
All keys starting with a prefix

etcdctl get --prefix --keys-only <*prefix*>
List key names only

KEYS (cont.)

etcdctl get <*key*> <*end-key*>
Range from key up to end-key

etcdctl get <*key*> **--limit=**<*n*>
Cap the result count

etcdctl get <*key*> **--rev=**<*n*>
Read as of an old revision

etcdctl del <*key*>
Delete a key

etcdctl del --prefix <*prefix*>
Delete all keys under a prefix

etcdctl del <*key*> **--prev-kv**
Print what was deleted

WATCH

etcdctl watch <*key*>
Print changes to a key

etcdctl watch --prefix <*prefix*>
Watch every key under a prefix

etcdctl watch <*key*> **--rev=**<*n*>
Replay from a past revision

etcdctl watch <*key*> **--prev-kv**
Include the old value in events

LEASES

etcdctl lease grant <*ttl*>
Create a lease with a TTL in seconds

etcdctl put <*key*> <*value*> **--lease=**<*id*>
Attach a key to a lease

etcdctl lease keep-alive <*id*>
Keep a lease from expiring

etcdctl lease timetolive <*id*> **--keys**
Remaining TTL and attached keys

etcdctl lease revoke <*id*>
Revoke lease and delete its keys

TRANSACTIONS AND LOCKS

etcdctl txn -i
Compare-and-swap in interactive mode

etcdctl compaction <*revision*>
Discard history before a revision

CLUSTER

etcdctl member list -w table
List members and IDs

etcdctl endpoint health --cluster
Check each member responds

etcdctl endpoint status --cluster -w table
Leader, DB size, raft term

etcdctl member add <*name*> **--peer-urls=**<*url*>
Add a member to the cluster

etcdctl member remove <*id*>
Remove a member

MAINTENANCE

etcdctl snapshot save <*file*>
Write a point-in-time backup

etcdutl snapshot status <*file*>
Inspect a snapshot file

etcdutl snapshot restore <*file*> **--data-dir=**<*dir*>
Restore into a new data dir

etcdctl defrag --cluster
Reclaim disk space, one member at a time

etcdctl alarm list
Show active alarms such as NOSPACE

etcdctl alarm disarm
Clear alarms after freeing space

AUTH

etcdctl user add <*user*>
Create a user

etcdctl role add <*role*>
Create a role

etcdctl role grant-permission <*role*> **readwrite --prefix** <*prefix*>
Grant access to a prefix

etcdctl user grant-role <*user*> <*role*>
Give a user a role

etcdctl user add root
Create root before enabling auth

etcdctl auth enable
Turn authentication on