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

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

KEYS (cont.)

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