etcdctl etcd command line

START HERE

`etcdctl` **`put`** *`<key>`* *`<value>`*
Write a key

`etcdctl` **`get`** *`<key>`*
Read a key

`etcdctl` **`get`** *`<prefix>`* **`--prefix`**
Read by prefix

`etcdctl` **`del`** *`<key>`*
Delete a key

`etcdctl` **`watch`** *`<key>`*
Stream changes

`etcdctl` **`endpoint health`**
Is it up?

`etcdctl` **`member list`**
Show cluster

`etcdctl` **`snapshot save`** *`<file>`*
Back up the DB

put / del writes bump the revision → `raft` → **Cluster** members agree on one history → `compact` → **History** old revisions pile up → `defrag` → **Disk** space is returned

CONCEPTS

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

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

Snapshot restore and status moved to etcdutl in v3.6. etcdctl keeps only snapshot save.

CONNECTION

`--endpoints=`*`<host:port,...>`*
Cluster members to contact
Also ETCDCTL_ENDPOINTS. Any flag maps to ETCDCTL_<NAME> in upper case with underscores.

`--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)
Default is simple. table and fields suit endpoint and member commands.

CONNECTION (cont.)

`--dial-timeout=`*`<dur>`*
Give up connecting after a time

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

`etcdctl` **`version`**
Print client version

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

`etcdctl` **`get --from-key`** *`<key>`*
All keys at or after a key

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

KEYS (cont.)

`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

LEASES (cont.)

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

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

`etcdctl` **`lease list`**
List active leases

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

TRANSACTIONS AND LOCKS

`etcdctl` **`txn -i`**
Compare-and-swap in interactive mode
Enter compares, a blank line, success requests, a blank line, then failure requests.

`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

CLUSTER (cont.)

`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
From v3.6 this is etcdutl only. Run it on every member with its own name and peer URL.

`etcdctl` **`defrag --cluster`**
Reclaim disk space, one member at a time
Blocks the member while it runs.

`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
Auth enable needs a root user and role to exist first.

`etcdctl` **`auth enable`**
Turn authentication on

`etcdctl` **`user passwd`** *`<user>`*
Change a password

RECIPES

Secure connection once

```
export ETCDCTL_ENDPOINTS=
https://10.0.0.1:2379,https://
10.0.0.2:2379
export ETCDCTL_CACERT=/etc/
etcd/ca.crt
export ETCDCTL_CERT=/etc/etcd/
client.crt
export ETCDCTL_KEY=/etc/etcd/
client.key
etcdctl endpoint health --
cluster -w table
```