

Some Tips and Tricks for etcd

2018-08-09

You will find here some all day work tips for [etcd](#)

cluster-health

This is a example from a [OpenShift Cluster](#)

etcd v2

```
/usr/bin/etcdctl --peers \  
$( awk -F= '/ETCD_LISTEN_CLIENT_URLS=/ {print $2}' < /etc/etcd/  
etcd.conf ) \  
--debug \  
--ca-file /etc/origin/master/master.etcd-ca.crt \  
--key-file /etc/origin/master/master.etcd-client.key \  
--cert-file /etc/origin/master/master.etcd-client.crt \  
cluster-health  
  
cluster is healthy  
member 4cc83942f30cdc13 is healthy  
member 4d9d43ce9d81c2e1 is healthy  
member 97f18a07f755fe77 is healthy
```

etcd v3

create endpoint line

```
export ENDPOINTS=$( ETCDCCTL_API=3 etcdctl \  
--endpoints $( awk -F= '/ETCD_LISTEN_CLIENT_URLS=/ {print $2}' < /etc/  
etcd/etcd.conf ) \  
--cacert /etc/origin/master/master.etcd-ca.crt \  
--key /etc/origin/master/master.etcd-client.key \  
--cert /etc/origin/master/master.etcd-client.crt \  
-w fields member list |awk -F'"' '/ClientURL/ { printf "%s,", $4}' |sed  
-e 's/,,$/' \  
)
```

member list

```
ETCDCCTL_API=3 etcdctl \  
--debug \  
--endpoints $( awk -F= '/ETCD_LISTEN_CLIENT_URLS=/ {print $2}' < /etc/
```

```
etcd/etcd.conf ) \  
  --cacert /etc/origin/master/master.etcd-ca.crt \  
  --key /etc/origin/master/master.etcd-client.key \  
  --cert /etc/origin/master/master.etcd-client.crt \  
  member list
```

```
INFO: 2018/08/09 10:25:24 ccBalancerWrapper: updating state and picker  
called by balancer: IDLE, 0xc42023c240  
INFO: 2018/08/09 10:25:24 dialing to target with scheme: ""  
INFO: 2018/08/09 10:25:24 could not get resolver for scheme: ""  
INFO: 2018/08/09 10:25:24 balancerWrapper: is pickfirst: false  
INFO: 2018/08/09 10:25:24 balancerWrapper: got update addr from Notify:  
[<IP>:2379 <nil>]  
INFO: 2018/08/09 10:25:24 ccBalancerWrapper: new subconn: [<IP>:2379 0  
<nil>]  
INFO: 2018/08/09 10:25:24 balancerWrapper: handle subconn state change:  
0xc420231240, CONNECTING  
INFO: 2018/08/09 10:25:24 ccBalancerWrapper: updating state and picker  
called by balancer: CONNECTING, 0xc42023c240  
INFO: 2018/08/09 10:25:24 balancerWrapper: handle subconn state change:  
0xc420231240, READY  
INFO: 2018/08/09 10:25:24 clientv3/balancer: pin "<IP>:2379"  
INFO: 2018/08/09 10:25:24 ccBalancerWrapper: updating state and picker  
called by balancer: READY, 0xc42023c240  
INFO: 2018/08/09 10:25:24 balancerWrapper: got update addr from Notify:  
[<IP>:2379 <nil>]
```

```
50e0ae8192bfb9a5, started, Master002.<DOMAIN>, https://<IP>:2380,  
https://<IP>:2379  
9763834a055b8696, started, Master001.<DOMAIN>, https://<IP>:2380,  
https://<IP>:2379  
c61053783c2db878, started, Master003.<DOMAIN>, https://<IP>:2380,  
https://<IP>:2379
```

endpoint health

```
ETCDCTL_API=3 etcdctl \  
  --endpoints ${ENDPOINTS} \  
  --cacert /etc/origin/master/master.etcd-ca.crt \  
  --key /etc/origin/master/master.etcd-client.key \  
  --cert /etc/origin/master/master.etcd-client.crt \  
  endpoint health
```

```
https://<IP>:2379 is healthy: successfully committed proposal: took =  
2.568932ms
```

```
https://<IP>:2379 is healthy: successfully committed proposal: took =
```


list entries (keys) of a v3 cluster

```
ETCDCTL_API=3 etcdctl \  
  --endpoints ${ENDPOINTS} \  
  --cacert /etc/origin/master/master.etcd-ca.crt \  
  --key /etc/origin/master/master.etcd-client.key \  
  --cert /etc/origin/master/master.etcd-client.crt \  
  get / --prefix --keys-only
```

get info for a minion v2

You can get information from a key like this.

```
/usr/bin/etcdctl --peers \  
  $( awk -F= '/ETCD_LISTEN_CLIENT_URLS=/ {print $2}' < /etc/etcd/  
etcd.conf ) \  
  --debug \  
  --ca-file /etc/etcd/ca.crt \  
  --key-file /etc/etcd/peer.key \  
  --cert-file /etc/etcd/peer.crt \  
  get /kubernetes.io/minions/<THE_HOSTNAME> | python -m json.tool
```

get info for a minion v3

You can get information from a key like this.

```
ETCDCTL_API=3 etcdctl \  
  --endpoints ${ENDPOINTS} \  
  --cacert /etc/origin/master/master.etcd-ca.crt \  
  --key /etc/origin/master/master.etcd-client.key \  
  --cert /etc/origin/master/master.etcd-client.crt \  
  -w json \  
  get /kubernetes.io/minions/<THE_HOSTNAME> | jq -r '.kvs[].value'|base64  
-d|less
```