

ETCD Backup & Restore

- Client key: /etc/kubernetes/pki/etcd/server.key

Operating etcd clusters for Kubernetes



```
# 创建 cluster 环境
[user@console ~]$ kubectl config current-context
k8s
```

```
# 创建 k8s 环境 连接到 k8s-master 节点
[user@console ~]$ ssh k8s-master
```

```
# user 用户 etcd 用户 root 用户 创建用户
```

```
# etcd 用户 创建 etcd 用户
[user@k8s-master ~]$ etcdctl version
etcdctl version: 3.5.2
API version: 3.5
```

```
# kubernetes docs 创建 etcd backup 用户
ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 \
--cacert=<trusted-ca-file> \
--cert=<cert-file> \
--key=<key-file> \
snapshot save <backup-file-location>
```

```
# 创建 用户 用户
# 创建 用户 sudo 用户
[user@k8s-master ~]$ sudo ETCDCTL_API=3 etcdctl \
--endpoints=https://127.0.0.1:2379 \
--cacert=/etc/kubernetes/pki/etcd/ca.crt \
--cert=/etc/kubernetes/pki/etcd/server.crt \
--key=/etc/kubernetes/pki/etcd/server.key \
snapshot save /data/etcd-snapshot.db
```

```
# 创建 用户 用户
[user@k8s-master ~]$ sudo ls -l /data/etcd-snapshot.db
```

```
# 创建 用户 /data/etcd-snapshot-previous.db 用户 用户
[user@k8s-master ~]$ sudo ls -l /data/etcd-snapshot-previous.db
```

```
# kubernetes docs 创建 etcd restore 用户
```

```
ETCDCTL_API=3 etcdctl \\  
--data-dir <data-dir-location> \\  
snapshot restore snapshotdb  
  
# etcd etcd etcd  
[user@k8s-master ~]$ sudo ETCDCTL_API=3 etcdctl \\  
--data-dir /var/lib/etcd-new \\  
snapshot restore /data/etcd-snapshot-previous.db
```

```
[user@k8s-master ~]$ cd /etc/kubernetes/manifest  
  
[user@k8s-master manifest]$ ls  
etcd.yaml kube-apiserver.yaml kube-controller-manager.yaml kube-scheduler.yaml  
  
# hostPath etcd  
[user@k8s-master manifest]$ sudo vi etcd.yaml  
- hostPath:  
  path: /var/lib/etcd-new  
  
:wq  
  
static pod etcd etcd etcd etcd.  
  
# etcd etcd  
[user@k8s-master manifest]$ sudo docker ps -a | grep etcd  
-> Up 2 etcd etcd
```

etcd (21)

First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to `/srv/data/etcd-snapshot.db`.

Creating a snapshot of the given instance is expected to complete in seconds. If the operation seems to hang, something's likely wrong with your command. Use **CTRL** + **C** to cancel the operation and try again.

Next, restore an existing, previous snapshot located at `/var/lib/backup/etcd-snapshot-previous.us.db`

The following TLS certificates/key are supplied for connecting to the server with etcdctl :

- CA certificate:
/opt/KUIN00601/ca.crt
- Client certificate:
/opt/KUIN00601/etcd-client.crt
- Client key:
/opt/KUIN00601/etcd-client.key

- □

```
ETCDCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 \\  
--cacert=/opt/KUIN00601/ca.crt \\  

```

```
--cert=/opt/KUIN00601/etcd-client.crt \  
--key=/opt/KUIN00601/etcd-client.key \  
snapshot save /srv/data/etcd-snapshot.db
```

```
ETCDCTL_API=3 etcdctl --data-dir /var/lib/etcd-new \  
snapshot restore /var/lib/backup/etcd-snapshot-previous.db
```

```
cd /etc/kubernetes/manifests
```

```
vi etcd.yaml
```

```
hostPath: /var/lib/etcd-new
```

```
:wq
```

```
#
```

```
docker ps -a | grep etcd
```

```
2 Up
```

Tip!!

1.

```
etcdctl snapshot save /srv/data/etcd-snapshot.db
```
2.

```
etcdctl snapshot restore /var/lib/backup/etcd-snapshot-previous.db
```
3.

```
etcdctl snapshot restore /var/lib/backup/etcd-snapshot-previous.db
```
4.

```
etcdctl snapshot restore /var/lib/backup/etcd-snapshot-previous.db
```

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