

## First Restore the snapshot:

```
olplane:~# ETCDCTL_API=3 etcdctl --data-dir /var/lib/etcd-from-backup \
restore /opt/snapshot-pre-boot.db
```

```
09:19:27.175043 I | mvcc: restore compact to 2552
09:19:27.266709 I | etcdserver/membership: added member 8e9e05c52164694d [http://localhost:2380]
olplane:~#
```

Note: In this case, we are restoring the snapshot to a different directory but in the same server where we took the backup (**the controlplane node**) As a result, the only required option for the restore command is the `--data-dir`.

Next, update the `/etc/kubernetes/manifests/etcd.yaml`:

We have now restored the etcd snapshot to a new path on the controlplane - `/var/lib/etcd-from-backup`, so, the only change to be made in the YAML file, is to change the hostPath for the volume called `etcd-data` from old directory (`/var/lib/etcd`) to the new directory (`/var/lib/etcd-from-backup`).

```
volumes:
- hostPath:
    path: /var/lib/etcd-from-backup
    type: DirectoryOrCreate
  name: etcd-data
```

With this change, `/var/lib/etcd` on the container points to `/var/lib/etcd-from-backup` on the **controlplane** (which is what we want).

When this file is updated, the **ETCD** pod is automatically re-created as this is a static pod placed under the `/etc/kubernetes/manifests` directory.

Note 1: As the ETCD pod has changed it will automatically restart, and also `kube-controller-manager` and `kube-scheduler`. Wait 1-2 to mins for this pods to restart. You can run the command: `watch "crictl ps | grep etcd"` to see when the ETCD pod is restarted.

Note 2: If the etcd pod is not getting **Ready 1/1** , then restart it by `kubect1 delete pod -n kube-system etcd-controlplane` and wait 1 minute.

Note 3: This is the simplest way to make sure that ETCD uses the restored data after the ETCD pod is recreated. You **don't** have to change anything else.

If you do change `--data-dir` to `/var/lib/etcd-from-backup` in the ETCD YAML file, make sure that the `volumeMounts` for `etcd-data` is updated as well, with the `mountPath` pointing to `/var/lib/etcd-from-backup` **(THIS COMPLETE STEP IS OPTIONAL AND NEED NOT BE DONE FOR COMPLETING THE RESTORE)**