

Exercise 4.7: Exploring Custom Resource Definitions

1. View CRDs currently in the cluster

```
student@cp:~$ kubectl get crd
```

NAME	CREATED AT
ciliumcidrgroups.cilium.io	2023-08-21T07:08:59Z
ciliumclusterwidenetworkpolicies.cilium.io	2023-08-21T07:09:02Z
ciliumendpoints.cilium.io	2023-08-21T07:08:59Z
ciliumexternalworkloads.cilium.io	2023-08-21T07:08:58Z
ciliumidentities.cilium.io	2023-08-21T07:08:58Z
ciliuml2announcementpolicies.cilium.io	2023-08-21T07:08:59Z
ciliumloadbalancerippools.cilium.io	2023-08-21T07:08:59Z
ciliumnetworkpolicies.cilium.io	2023-08-21T07:09:02Z
ciliumnodeconfigs.cilium.io	2023-08-21T07:08:58Z
ciliumnodes.cilium.io	2023-08-21T07:09:00Z
ciliumpodippools.cilium.io	2023-08-21T07:08:59Z

2. Take a detailed look at the IPPools CRD.

```
student@cp:~$ kubectl get crd ciliumpodippools.cilium.io -o yaml
```

```
....
spec:
  conversion:
    strategy: None
  group: cilium.io
  names:
    kind: CiliumPodIPPool
    listKind: CiliumPodIPPoolList
    plural: ciliumpodippools
    shortNames:
    - cpip
    singular: ciliumpodippool
  scope: Cluster
  versions:
  - name: v2alpha1
....
```

3. View if this newly declared resource exists.

```
student@cp:~$ kubectl get CiliumPodIPPool
```

```
No resources found
```

4. Take a detailed view of the other crds cluster is using.