API OBJECTS

API Objects

v1 API Group

The **v1** API group is no longer a single group, but rather a collection of groups for each main object category. For example, there is a **v1** group, a **storage.k8s.io/v1** group, and an **rbac.authorization.k8s.io/v1**, etc. Currently, there are eight v1 groups.

We have touched on several objects in lab exercises. Click on each box to learn about some of these objects.

Objects

Node — Close

Represents a machine - physical or virtual - that is part of your Kubernetes cluster. You can get more information about nodes with the **kubectl get nodes** command. You can turn on and off the scheduling to a node with the **kubectl cordon/uncordon** commands.

Service Account — Close

Provides an identifier for processes running in a pod to access the API server and performs actions that it is authorized to do.

Resource Quota — Close

It is an extremely useful tool, allowing you to define quotas per namespace. For example, if you want to limit a specific namespace to only run a given number of pods, you can write a **resourcequota** manifest, create it with **kubectl** and the quota will be enforced.

Endpoint — Close

Generally, you do not manage endpoints. They represent the set of IPs for pods that match a particular service. They are handy when you want to check that a service actually matches some running pods. If an endpoint is empty, then it means that there are no matching pods and something is most likely wrong with your service definition.