How do you **manage** Kubernetes objects **from command line?**

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Using **Kubectl**

Concept

Objectives

Concept

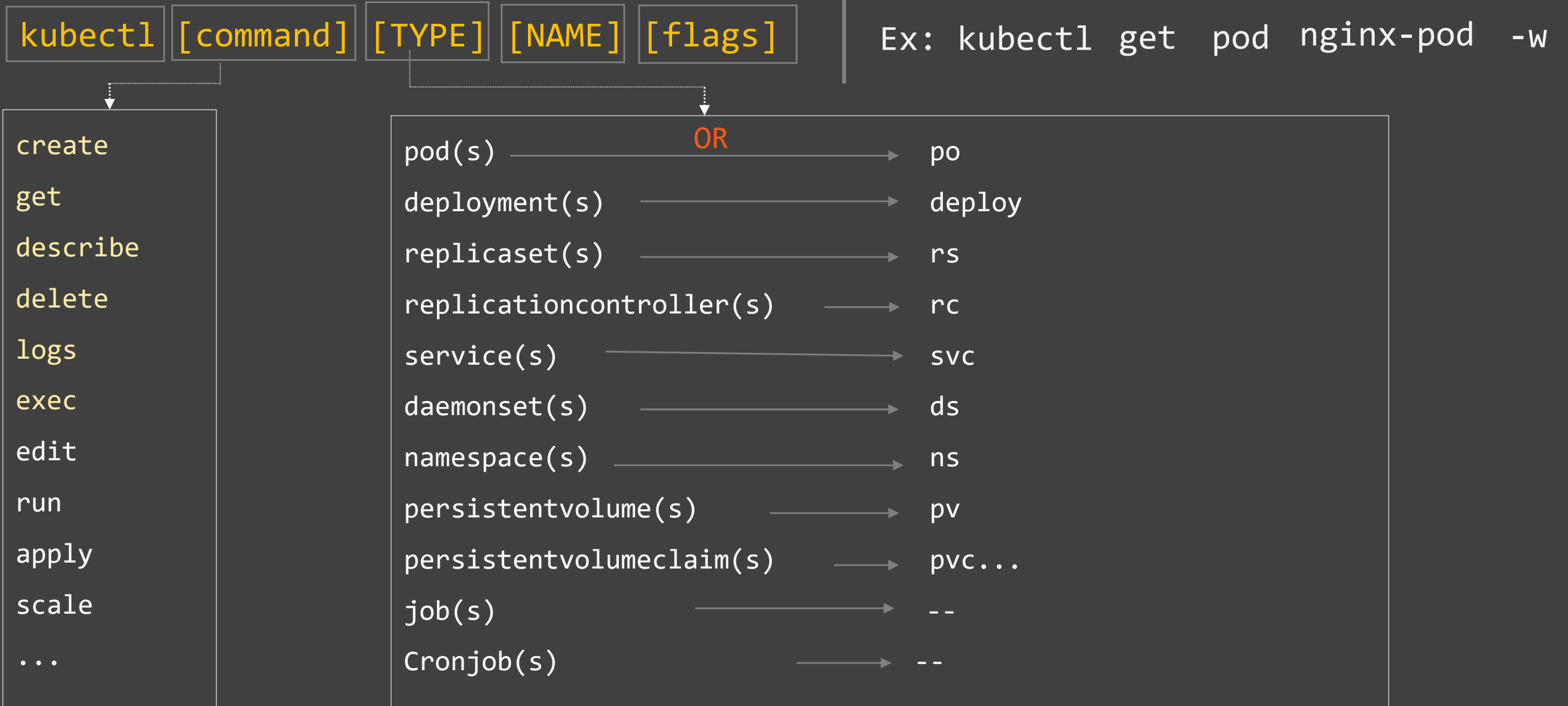   a. Overview of "Kubectl"

    b. kubectl syntax

Review Demo

    a. Using kubectl

- create, get
- describe, delete
- exec, logs

Kubectl

- Command line utility for running commands against Kubernetes clusters.

- Kubectl or kube control or kube command line tool

Kubectl: Syntax

`kubectl` `[command]` `[TYPE]` `[NAME]` `[flags]`

Ex: kubectl get pod nginx-pod -w

```
create

get

describe

delete

logs

exec

edit

run

apply

scale

...
```

		OR	
pod(s)	→		po
deployment(s)	→		deploy
replicaset(s)	→		rs
replicationcontroller(s)	→		rc
service(s)	→		svc
daemonset(s)	→		ds
namespace(s)	→		ns
persistentvolume(s)	→		pv
persistentvolumeclaim(s)	→		pvc...
job(s)	→		--
Cronjob(s)	→		--

Review
Demo

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Kubectl - create, get

Kubectl **create -f example.yaml**   Create a resource from a file

```
$ kubectl create -f pod-example.yaml

$ kubectl create -f deploy-example.yaml

$ kubectl create -f <directory>
```

Kubectl **get [TYPE(s)] [NAME(s)] [FLAGS]-** List one or more resources

```
$ kubectl get pods <pod-name>

$ kubectl get pods -o wide

$ kubectl get pods,deploy
```

kubectl **describe [TYPE] [NAME] -** Display detailed state of one or more resources

```
$ kubectl describe nodes <node-name>


$ kubectl describe pods <pod-name>


$ kubectl describe pods
```

kubectl **delete -** Delete resources

```
$ kubectl delete -f pod.yaml


$ kubectl delete pods,services -l name=<label-name>


$ kubectl delete pods --all
```

kubectl **exec** - Execute a command against a container in a pod.

```
$ kubectl exec <pod-name> date

$ kubectl exec <pod-name> -c <container-name> date

$ kubectl exec -ti <pod-name> /bin/bash
```

kubectl **logs -** Print the logs for a container in a pod.

```
$ kubectl logs <pod-name>

$ kubectl logs -f <pod-name>
```

Summary

Concept

a. Command line utility for running commands against Kubernetes clusters

b. kubectl syntax `kubectl [command] [TYPE] [NAME] [flags]`

Review Demo

a. Using kubectl

  • create, get

  • describe, delete

  • exec, logs