

## kubectl

<b>kubectl help</b>	get help for kubectl
<b>kubectl version</b>	get Kubernetes version running
<b>kubectl create</b>	create a k8s object
<b>kubectl apply</b>	create or update a k8s object
<b>kubectl get</b>	get simple info on a k8s object
<b>kubectl describe</b>	get detailed info on a k8s object
<b>kubectl config</b>	used for kubeconfig settings

## Kubernetes Objects

<b>pod</b>	<b>deployment</b>
<b>service</b>	<b>volume</b>
<b>replicaset</b>	<b>daemonset</b>
<b>job</b>	<b>namespace</b>
<b>secret</b>	<b>configmap</b>

## Creating and Deleting Kubernetes Objects

<b>kubectl apply -f manifest.yaml</b>
<b>kubectl apply -f ./dir</b>
<b>kubectl create -f manifest.yaml</b>
<b>kubectl apply -f https://alta3.com/test.yaml</b>
<b>kubectl delete pod pod1</b>
<b>kubectl delete -f manifest.yaml</b>

## Kubernetes Manifest

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx
spec:
  containers:
  - name: nginx
    image: nginx:1.7.9
    ports:
    - containerPort: 80
```

## get and describe Kubernetes Objects

<b>kubectl get services -namespace=namespace1</b>
<b>kubectl describe deployment deployment1</b>
<b>kubectl get pods -all namespaces</b>
<b>kubectl describe nodes node1</b>
<b>kubectl get pods pod1 -o yaml</b>
<b>kubectl describe namespace default</b>

## Context and Namespace

<b>kubectl config view</b>
<b>kubectl config get-contexts</b>
<b>kubectl config current-context</b>
<b>kubectl config user-context mycontext</b>
<b>kubectl create -f namespace-test.yaml</b>
<b>kubectl get namespaces</b>

## Logs and Debugging

<b>kubectl logs pod1</b>	
<b>kubectl get events</b>	
<b>--v=0</b>	useful for operator visibility
<b>--v=1</b>	good for default log levels
<b>--v=2</b>	state information and important log messages relating to changes in the system – recommended default log level for systems
<b>--v=3</b>	more detailed information about changes
<b>--v=4</b>	debug level
<b>--v=6</b>	shows requested resources
<b>--v=7</b>	includes HTTP request headers
<b>--v=8</b>	includes HTTP request contents
<b>--v=9</b>	shows HTTP request contents without truncation

## kubernetes tutorial

<https://youtu.be/uzxSZqSqiLk>

Find more videos at:

<https://www.youtube.com/Alta3Research>