

### Abbreviations

configmaps	cm
daemonsets	ds
endpoints	ep
event	ev
namespaces	ns
nodes	no
Pods	po
replicasets	rs
serviceaccount	sa
services	svc

### Creating Objects

kubectl create -f ./my-manifest.yaml create resource(s)

kubectl create -f ./my1.yaml -f ./my2.yaml create from multiple files

kubectl create -f ./dir create resource(s) in all manifest files in dir

kubectl create -f <https://git.io/vPieo> create resource(s) from url

kubectl run nginx --image=nginx start a single instance of nginx

kubectl explain pods,svc get the documentation for pod and svc manifests

cat <<EOF | kubectl create -f -  
apiVersion: v1 kind: Secret  
metadata: name: mysecret type:  
Opaque data: password: \$(echo  
"s33msi4" | base64) username:  
\$(echo "jane" | base64) EOF  
Create a secret with several keys

### Scaling Resources

kubectl scale --replicas=3 rs/foo Scale a replicaset named 'foo' to 3

kubectl scale --replicas=3 -f foo.yaml Scale a resource specified in "foo.yaml" to 3

### Viewing, Finding Resources

kubectl get services List all services in the namespace

kubectl get pods -all-namespaces List all pods in all namespaces

kubectl get pods -o wide List all pods in the namespace, with more details

kubectl get deployment my-dep List a particular deployment

kubectl describe nodes my-node Describe nodes

kubectl describe pods my-pod Describe pods

### Editing Resources

kubectl edit svc/docker-registry Edit the service named docker-registry

### Interacting with running Pods

kubectl logs my-pod dump pod logs (stdout)

kubectl logs -f my-pod stream pod logs (stdout)

### Interacting with running Pods (cont)

kubectl run -i --tty busybox --image=busybox --sh Run pod as interactive shell

kubectl attach my-pod -i Attach to Running Container

kubectl port-forward my-pod 5000:6000 Forward port 6000 of Pod to your 5000 on your local machine

kubectl exec my-pod -- ls / Run command in existing pod (1 container case)

kubectl exec my-pod -c my-container -- ls / Run command in existing pod (multi-container case)

### Interacting with Nodes and Cluster

kubectl cordon my-node Mark my-node as unschedulable

kubectl drain my-node Drain my-node in preparation for maintenance

kubectl uncordon my-node Mark my-node as schedulable

kubectl cluster-info Display addresses of the master and services

### Kubectl AutoComplete

source <(kubectl completion bash)



### Updating Resources

kubectl rolling-update frontend-v1 -f frontend-v2.json

Rolling update pods of frontend-v1

cat pod.json | kubectl replace -f -

Replace a pod based on the JSON passed into stdin

kubectl expose rc nginx --port=80 --target-port=8000

Create a service for a replicated nginx, which serves on port 80 and connects to the containers on port 8000

kubectl get pod mypod -o yaml | sed 's/(image: myimage):.\*\$/v4/' | kubectl replace -f -

Update a single-container pod's image version (tag) to v4

kubectl autoscale deployment foo --min=2 --max=10

Auto scale a deployment "foo"

### Deleting Resources

kubectl delete -f ./pod.json

Delete a pod using the type and name specified in pod.json

kubectl delete pod,service baz foo

Delete pods and services with same names "baz" and "foo"

### Kubectl Context and Configuration

kubectl config view

Show Merged kubeconfig settings.

kubectl config current-context

Display the current-context

kubectl config use-context my-cluster-name

set the default context to my-cluster-name

kubectl config set-credentials kubeuser/foo.kubernetes.com --username=kubeuser --password=kubepassword

add a new cluster to your kubeconf that supports basic auth

### Formatting output

-o=custom-columns=<spec>

Print a table using a comma separated list of custom columns

-o=custom-columns-file=<filename>

Print a table using the custom columns template in the <filename> file

-o=json

Output a JSON formatted API object

-o=name

Print only the resource name and nothing else

-o=wide

Output in the plain-text format with any additional information, and for pods, the node name is included

### Formatting output (cont)

-o=yaml

Output a YAML formatted API object



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