

### 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

### Creating Objects (cont)

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

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



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### Interacting with Nodes and Cluster

<code>kubectl</code>	Mark my-node as unschedulable
<code>kubectl drain my-node</code>	Drain my-node in preparation for maintenance
<code>kubectl uncordon my-node</code>	Mark my-node as schedulable
<code>kubectl cluster-info</code>	Display addresses of the master and services

### Kubectl AutoComplete

```
source <(kubectl completion bash)
```

### Updating Resources

<code>kubectl rolling-update frontend-v1 -f frontend-v2.json</code>	Rolling update pods of frontend-v1
<code>cat pod.json   kubectl replace -f -</code>	Replace a pod based on the JSON passed into stdin
<code>kubectl expose rc nginx --port=80 --target-port=8000</code>	Create a service for a replicated nginx, which serves on port 80 and connects to the containers on port 8000

### Updating Resources (cont)

<code>kubectl get pod mypod -o yaml   sed 's/(image: myimage\):.*\$/\1:v4/'   kubectl replace -f -</code>	Update a single-container pod's image version (tag) to v4
<code>kubectl autoscale deployment foo --min=2 -max=10</code>	Auto scale a deployment "foo"

### Deleting Resources

<code>kubectl delete -f ./pod.json</code>	Delete a pod using the type and name specified in pod.json
<code>kubectl delete pod,service baz foo</code>	Delete pods and services with same names "baz" and "foo"

### Kubectl Context and Configuration

<code>kubectl config view</code>	Show Merged kubeconfig settings.
<code>kubectl config current-context</code>	Display the current-context
<code>kubectl config use-context my-cluster-name</code>	set the default context to my-cluster-name

### Kubectl Context and Configuration (cont)

<code>kubectl config set-credentials kubeuser/foo.kubernetes.com --username=kubeuser --password=kube-password</code>	add a new cluster to your kubeconf that supports basic auth
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### Formatting output

<code>-o=custom-columns=&lt;spec&gt;</code>	Print a table using a comma separated list of custom columns
<code>-o=custom-columns-file=&lt;filename&gt;</code>	Print a table using the custom columns template in the <filename> file
<code>-o=json</code>	Output a JSON formatted API object
<code>-o=name</code>	Print only the resource name and nothing else
<code>-o=wide</code>	Output in the plain-text format with any additional information, and for pods, the node name is included
<code>-o=yaml</code>	Output a YAML formatted API object



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