

## Kubernetes Cheat Sheet

Kubernetes manages clusters of containers, providing tools for deploying and scaling applications, managing changes to containerized applications, and optimizing the use of underlying hardware.

kubecti create		
Create a resource (pod, service, node, job, and so on) referred to by YAML or JSON file, or by name.		
create deployment fooimage= <image/>	Deploy pod <b>foo</b> based on <b>image</b>	
create job foo \image busybox echo "example"	Create job <b>foo</b> from image <b>busybox</b> to echo "example" once	
<pre>create cronjob foo \image=busybox \schedule="*/1 * * * *" \ date</pre>	Create cronjob <b>foo</b> from image <b>busybox</b> to print the date every minute	
create noderegister-node=false f.json	Create a node from foo.json	
<pre>expose deployment foo \type=LoadBalancername=foo-service</pre>	Create a service to expose <b>foo</b>	

kubectl run	
runstdintty foo \image=busybox /bin/sh	Start a pod called foo with an interactive shell, based on the <b>busybox</b> image
run fooimage=busybox \namespace=foospace	Start <b>foo</b> in <b>foospace</b> namespace

Interacting	
attach foo -i	Attach to running container <b>foo</b>
execstdintty foo /bin/sh	Open a shell in <b>foo</b>
exec foo ls	Run a single command in <b>foo</b>
exec foo -c bar ls	Run the <b>Is</b> command in <b>bar</b> (in pod <b>foo</b> )





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Scaling		
Images serve as blueprints for any number of replicas, which can be created as needed.		
scale deployment fooreplicas=3	Scale deployment <b>foo</b> to 5	
autoscale deployment foo \max 6min 3cpu-percent 50	Autoscale deployment <b>foo</b>	

kubectl get	
Get information about a resource.	
get services	List all services in current namespace
get servicessort-by=metadata.name	List all services, sorted by name
get pv	List persistent volumes
get podsall-namespaces	List all pods in all namespaces
<pre>get pods \fieldselector=status.phase=Running</pre>	Get all running pods in current namespace
get deployment foo	List deployment <b>foo</b>
describe deployment foo	Get verbose information about <b>foo</b>
logs foo	Dump logs for pod <b>foo</b> to stdout

kubectl delete	
delete pod foo	Delete the pod named <b>foo</b>
namespace=foospace delete pod,svcall	Delete all pods and services in namespace <b>foo</b>

