

Glossary

pod	Group of containers that are deployed together on the same host
service	Abstraction which defines a logical set of pods and a policy by which to access them
node	Worker machine in the cluster
configmap	Public configuration data in the form of a key-value pair
secret	Private configuration data
job	Creates pod(s) and ensures that a specified number successfully terminate
cronjob	Time-based job
ingress	API object that manages external access to the services in a cluster, typically HTTP.
deployment	Desired state of pods for declarative updates
daemonset	Specification that requires a particular pod to be run on some or all nodes
replicaset	Requirement that a specified number of pods are running at any given time
persistent-volume	Persistent storage in the cluster with an independent lifecycle
persistentvolumeclaim	Request for storage (for a PersistentVolume) by a user

Cluster Management

```
kubectl proxy
```

```
kubectl port-forward {pod_name} {local_port}: {remote_port}
```

```
kubectl scale --replicas=3 {resource_type} /{resource_name}
```

Viewing Objects

```
kubectl get --all-namespaces {object_type}
```

```
kubectl describe {object_type}
```

```
kubectl get services --sort-by=.metadata.name
```

```
kubectl get pods --field-selector=status.phase == Running
```

```
kubectl get events
```

Modifying Objects

```
kubectl proxy
```

Proxy the api server API to your local machine on port 8001

```
kubectl port-forward {pod_name} {local_port}: {remote_port}
```

Forward the pod port to your local port

```
kubectl scale --replicas=3 {resource_type} /{resource_name}
```

Scale given resource

<code>kubect1 apply -f ./myma nif est.yaml</code>	Apply a configuration to a object by filename or stdin. Also overrides the existing configuration.
<code>kubect1 create -f ./myma nif est.yaml</code>	Create object(s)
<code>kubect1 create -f ./dir</code>	Create object(s) in all manifest files in dir
<code>kubect1 create -f https://g it.i o/vPi eo</code>	Create from url
<code>kubect1 run nginx --imag e=nginx</code>	Start a single instance of nginx
<code>kubect1 replace -- force -f ./pod.json</code>	Force replace, delete and then re-create the resource. Will cause a service outage.
<code>kubect1 edit svc/do cke rre gistry</code>	Edit the service named docker-re-gistry



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 Page 1 of 2.

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