Kubernetes Kubectl Command Shorthand

kubectl

Cluster

context
- # Show contexts
  `kubectl config get-contexts`
- # Show current context
  `kubectl config current-context`
- # Switch context to another cluster
  `kubectl config use-context <my-cluster-name>`
- # Change Namespace
  `kubectl config set-context --current --namespace=<namespace>`

cluster-info
- # Display addresses of the master and services
  `kubectl cluster-info`
- # Dump current cluster state to stdout
  `kubectl cluster-info dump`

get
- # Get etcd and master component status
  `kubectl get cs`
- # Get CSR authorization information
  `kubectl get csr`

api-resources
- # Show a list of eligible kube resource (i.e. pods, service, pv, etc)
  `kubectl api-resources`
- # Show a list of eligible kube resources in your namespace
  `kubectl api-resources --namespaced=true`

Nodes

cordon
- # Mark node as unschedulable
  `kubectl cordon <node>`

drain
- # Drain a node for maintenance
  `kubectl drain <node>`

uncordon
- # Mark node as schedulable
  `kubectl uncordon <node>`

top
- # Show 'top' metrics for a node
  `kubectl top node <node>`

get
- # Get all nodes
  `kubectl get node`
- # Get nodes with more details
  `kubectl get node -o wide`
- # Get node's labels
  `kubectl get node --show-labels`

edit
- # Edit a resource's yaml
  `kubectl edit node/<node>`

delete
- # Delete a node
  `kubectl delete node <node>`

Namespaces

get
- # Get all namespaces
  `kubectl get namespace`
- # Get the contents of a namespace
  `kubectl get namespace <namespace> -o yaml`

create
- # Create a namespace
  `kubectl create namespace <namespace>`

edit
- # Edit a resource's yaml
  `kubectl edit namespace/<namespace>`

delete
- # Delete a namespace
  `kubectl delete namespace <namespace>`

Pods

get
- # Get all pods in the current namespace
  `kubectl get pods`
- # Get pods in all namespaces
  `kubectl get pods --all-namespaces`
- # Get pods with more details
  `kubectl get pods -o wide`
- # Get pods sorted by a metric
  `kubectl get pods \ --sort-by='.status.containerStatuses[0].restartCount'`
- # Get the yaml for a pod
  `kubectl get pod <pod> -o yaml`
- # Get pods with their labels
  `kubectl get pods --show-labels`
- # Get pods that match a label
  `kubectl get pods -l <label>=<value>`

describe
- # Inspect a pod
  `kubectl describe pods <pod>`

port-forward
- # Forward traffic from a localhost port to a pod port
  `kubectl port-forward <pod> <localhost-port>:<pod-port>`

exec
- # Run a command on a pod
  `kubectl exec <pod> -- <command>`
- # Run a command on a container in a pod
  `kubectl exec <pod> -c <container> -- <command>`

edit
- # Edit a resource's yaml
  `kubectl edit pod/<pod>`

delete
- # Delete a pod
  `kubectl delete pod <pod>`

Services

get
- # Get all services in the current namespace
  `kubectl get services`
- # Get services in all namespaces
  `kubectl get service --all-namespaces`
- # Get services with more details
  `kubectl get service -o wide`
- # Get the yaml for a services
  `kubectl get service <service> -o yaml`
- # Get service's labels
  `kubectl get service --show-labels`
- # Get services that match a label
  `kubectl get service -l <label>=<value>`

describe
- # Inspect a service
  `kubectl describe service <service>`

edit
- # Edit a resource's yaml
  `kubectl edit service/<service>`

delete
- # Delete a service
  `kubectl delete service <service>`

Ingress

get
- # Get all ingress in the current namespace
  `kubectl get ingress`
- # Get ingress in all namespaces
  `kubectl get ingress --all-namespaces`
- # Get ingress with more details
  `kubectl get ingress -o wide`
- # Get the yaml for a ingress
  `kubectl get ingress <ingress> -o yaml`
- # Get ingress labels
  `kubectl get ingress --show-labels`
- # Get ingress that match a label
  `kubectl get ingress -l <label>=<value>`

describe
- # Inspect a ingress
  `kubectl describe ingress <ingress>`

edit
- # Edit a resource's yaml
  `kubectl edit ingress/<ingress>`

delete
- # Delete a ingress
  `kubectl delete ingress <ingress>`

Deployments

get
- # Get all deployments in the current namespace
  `kubectl get deployment`
- # Get deployments in all namespaces
  `kubectl get deployment --all-namespaces`
- # Get deployments with more details
  `kubectl get deployment -o wide`
- # Get the yaml for a deployment
  `kubectl get deployment <deployment> -o yaml`
- # Get deployment's labels
  `kubectl get deployment --show-labels`
- # Get deployments that match a label
  `kubectl get deployment -l <label>=<value>`

describe
- # Inspect a deployment
  `kubectl describe deployment <deployment>`

set image
- # Roll a new version of a deployment
  `kubectl set image deployment/<deployment> <container name>=image:<version>`

rollout
- # Check the deployment history
  `kubectl rollout history deployment/<deployment>`
- # Rollback a deployment
  `kubectl rollout undo deployment/<deployment>`
- # Rollback to a specific version
  `kubectl rollout undo deployment/<deployment> --to-revision=2`
- # Watch a rolling update
  `kubectl rollout status -w deployment/<deployment>`
- # Restart the rolling deploy
  `kubectl rollout restart deployment/<deployment>`

create
- # Start a single instance of an image
  `kubectl create deployment <deployment_name> --image=<image>`

edit
- # Edit a resource's yaml
  `kubectl edit deployment/<deployment>`

scale
- # Scale a deployment to 3 pods
  `kubectl scale --replicas=3 deployment/<deployment>`

delete
- # Delete a deployment
  `kubectl delete deployment <deployment>`

Secrets

get
- # Get all secrets in the current namespace
  `kubectl get secrets`
- # Get secrets in all namespaces
  `kubectl get secrets --all-namespaces`
- # Get secrets with more details
  `kubectl get secrets -o wide`
- # Get the contents of a secret
  `kubectl get secrets <secret> -o yaml`

edit
- # Edit a resource's yaml
  `kubectl edit secret/<secret>`

delete
- # Delete a secret
  `kubectl delete secret <secret>`

Logs

- # Show logs (stdout) of a pod
  `kubectl logs <pod>`
- # Show logs (stdout) of pods that match a label
  `kubectl logs -l <label>=<value>`
- # Show logs of a previous instantiation of a container
  `kubectl logs <pod> --previous`
- # Show logs for a specific container in a pod (i.e. init container)
  `kubectl logs <pod> -c <container>`
- # Following logs from a pod
  `kubectl logs -f <pod>`
- # Follow all logs from a pod that match a label
  `kubectl logs -f -l <label>=<value> --all-containers`
- # Show logs with verbosity level of logs from 0 - 9
  `kubectl logs <pod> --v=<0:9>`

Apply

- # Create a kubernetes resource from a file
  `kubectl apply -f ./<manifest>.yaml`
- # Create kubernetes resources from multiple files
  `kubectl apply -f ./<manifest>.yaml -f ./<manifest>.yaml`
- # Create resources from all manifest files in a directory
  `kubectl apply -f ./<directory>`
- # Create resource from a url
  `kubectl apply -f <url_to_manifest>`