Kubernetes Cheat Sheet

Creating and Updating a Resource

`kubectl create namespace [namespace-name]`	Create a new namespace
`kubectl create –f [filename]`	Create a resource from a JSON or YAML file
`kubectl apply -f [service-name].yaml`	Create a new service with the definition contained in [service-name].yaml
`kubectl apply -f [controller-name].yaml`	Create a new replication controller with the definition contained in [controller-name].yaml
`kubectl apply -f [directory-name]`	Create the objects defined in any .yaml, .yml, or .json file in a directory
`kubectl edit svc/[service-name]`	Edit a service
`KUBE_EDITOR="[editor-name]" kubectl edit svc/[service-name]`	Edit a service in a non-default editor

Listing Resources

`kubectl get namespaces`	Generate a plain-text list of all namespaces
`kubectl get pods`	Generate a plain-text list of all pods
`kubectl get pods -o wide`	Generate a detailed plain-text list of all pods
`kubectl get pods --field-selector=spec.nodeName=[server-name]`	Generate a list of all pods running on a particular node server
`kubectl get replicationcontroller [replication-controllername]`	List a specific replication controller in plain text
`kubectl get replicationcontroller, services`	Generate a plain-text list of all replication controllers and services
`kubectl get deamonset`	Generate a plain-text list of all daemon sets

Modifying kubeconfig Files

`kubectl config current-context`	Display the current context
`kubectl config set-cluster [cluster-name] --server=[server-name]`	Set a cluster entry in kubeconfig
`kubectl config unset [property-name]`	Unset an entry in kubeconfig

Deleting Resources

`kubectl delete -f pod.yaml`	Remove a pod using the name and type listed in pod.yaml
`kubectl delete pods,services -l [label-key]=[label-value]`	Remove all the pods and services with a specific label
`kubectl delete pods –all`	Remove all pods. The command will include uninitialized pods as well

Displaying the State of Resources

`kubectl describe nodes [node-name]`	See details about a particular node
`kubectl describe pods [pod-name]`	See details about a particular pod
`Kubectl describe –f pod.json`	See details about a pod whose name and type are listed in pod.json
`kubectl describe pods [replication-controller-name]`	See details about all pods managed by a specific replication controller
`kubectl describe pods`	See details about all pods

Executing a Command

`kubectl exec [pod-name] --[command]`	Receive output from a command run on the first container in a pod
`kubectl exec [pod-name] -c[container-name] --[command]`	Receive output from a command run on a specific container in a pod
`kubectl exec -ti [pod-name] -- /bin/bash`	Run /bin/bash from a specific pod. The output received comes from the first container

Printing Container Logs

`kubectl logs [pod-name]`	Print logs from a pod
`kubectl logs -f [pod-name]`	Stream logs from a pod

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