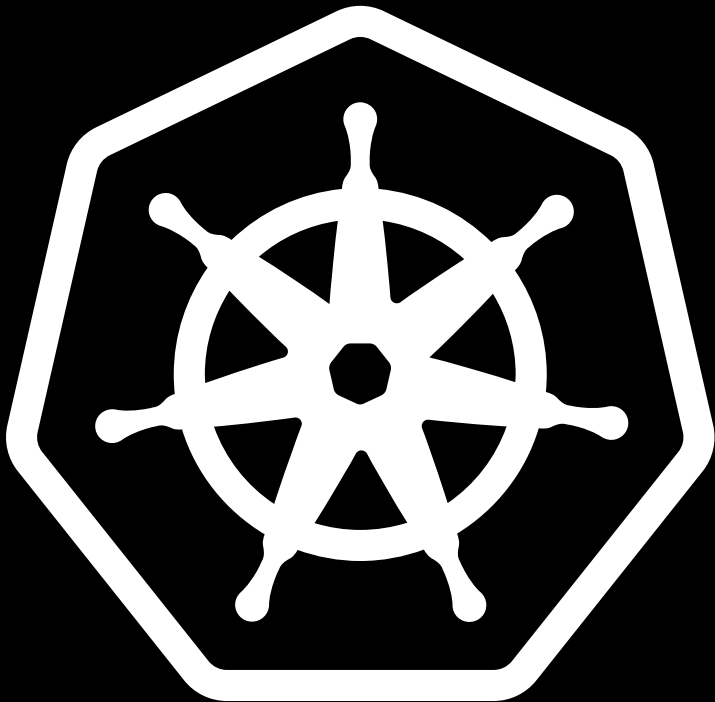
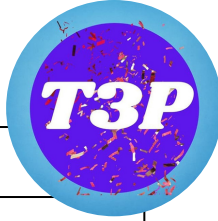


# Kubernetes Commands Cheat Sheet

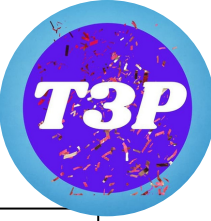


# Creating Object



Command Name	Description	Syntax	Example
kubectl create	Create a resource from a file or stdin	kubectl create -f filename.yaml	kubectl create -f pod.yaml
kubectl delete	Delete resources by filenames, stdin, resources, and names	kubectl delete -f filename.yaml	kubectl delete pod web
kubectl create namespace	Create a new namespace	kubectl create namespace my-namespace	kubectl create namespace my-namespace
kubectl apply -f directory	Create resources from a directory	kubectl apply -f directory/	kubectl apply -f directory/
kubectl rollout	Manage the rollout of a resource	kubectl rollout status deployment/my-deployment	kubectl rollout status deployment/my-deployment
kubectl attach	Attach to a running container	kubectl attach my-pod -c my-container -i	kubectl attach my-pod -c my-container -i
kubectl create -f	Create a resource from a file	kubectl create -f example.yaml	kubectl create -f example.yaml
kubectl apply -f	Apply a configuration to a resource	kubectl apply -f example.yaml	kubectl apply -f example.yaml
kubectl expose -f	Expose a resource	kubectl expose -f example.yaml --port=80	kubectl expose -f example.yaml --port=80
kubectl label -f	Add label to a resource	kubectl label -f example.yaml mylabel=awesome	kubectl label -f example.yaml mylabel=awesome
kubectl annotate -f	Add annotation to a resource	kubectl annotate -f example.yaml description="Test annotation"	kubectl annotate -f example.yaml description="Test annotation"
kubectl create limitrange	Create a limit range	kubectl create limitrange my-limit --limits="cpu=1,memory=1Gi"	kubectl create limitrange my-limit --limits="cpu=1,memory=1Gi"
kubectl get limitrange	Display limit ranges	kubectl get limitrange	kubectl get limitrange
kubectl create priorityclass	Create a priority class	kubectl create priorityclass my-priority-class --value=1000	kubectl create priorityclass my-priority-class --value=1000
kubectl get priorityclass	Display priority classes	kubectl get priorityclass	kubectl get priorityclass
kubectl create resourcequota	Create a resource quota	kubectl create resourcequota my-resourcequota --hard=limits.cpu=2,limits.memory=4Gi,pods=10	kubectl create resourcequota my-resourcequota --hard=limits.cpu=2,limits.memory=4Gi,pods=10
kubectl get resourcequota	Display resource quotas	kubectl get resourcequota	kubectl get resourcequota
kubectl create role	Create a role	kubectl create role my-role --verb=get --resource=pods	kubectl create role my-role --verb=get --resource=pods
kubectl create rolebinding	Create a role binding	kubectl create rolebinding my-rolebinding --role=my-role --user=my-user	kubectl create rolebinding my-rolebinding --role=my-role --user=my-user





# Pod Creation

Command Name	Description	Syntax	Example
kubectl run	Create a new pod	kubectl run pod-name --image=image-name	kubectl run nginx --image=nginx
kubectl create pod	Create a pod from YAML/JSON	kubectl create -f pod-definition.yaml	kubectl create -f pod.yaml
kubectl apply	Apply changes to a resource	kubectl apply -f filename.yaml	kubectl apply -f pod.yaml

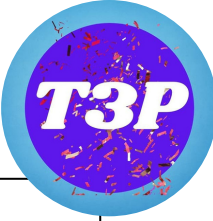
# Service Creation

Command Name	Description	Syntax	Example
kubectl expose	Expose a deployment or pod as a service	kubectl expose deployment name --port=80	kubectl expose deployment web --port=80
kubectl create service	Create a service from YAML/JSON	kubectl create -f service-definition.yaml	kubectl create -f service.yaml

# Deployment Creation

Command Name	Description	Syntax	Example
kubectl create deployment	Create a deployment	kubectl create deployment name --image=image-name	kubectl create deployment web --image=nginx
kubectl set image	Update the image of a deployment	kubectl set image deployment/name container=image	kubectl set image deployment/web nginx=nginx:1.17.8
kubectl rollout restart	Restart a deployment	kubectl rollout restart deployment name	kubectl rollout restart deployment/web

# Node Operations



Command Name	Description	Syntax	Example
kubectl get nodes	List all nodes in the cluster	kubectl get nodes	kubectl get nodes
kubectl cordon	Mark a node as unschedulable	kubectl cordon node-name	kubectl cordon my-node
kubectl drain	Drain a node, evicting pods gracefully	kubectl drain node-name	kubectl drain my-node

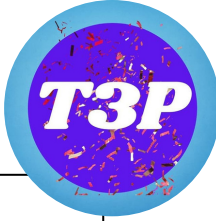
## Persistent Volume

Command Name	Description	Syntax	Example
kubectl create pv	Create a persistent volume	kubectl create -f persistent-volume.yaml	kubectl create -f pv.yaml
kubectl create pvc	Create a persistent volume claim	kubectl create -f persistent-volume-claim.yaml	kubectl create -f pvc.yaml

## Rolling Updates

Command Name	Description	Syntax	Example
kubectl rollout undo	Rollback to a previous deployment revision	kubectl rollout undo deployment/name --to-revision=1	kubectl rollout undo deployment/web --to-revision=3
kubectl rollout pause	Pause a deployment rollout	kubectl rollout pause deployment/name	kubectl rollout pause deployment/web
kubectl rollout resume	Resume a paused deployment rollout	kubectl rollout resume deployment/name	kubectl rollout resume deployment/web

# RBAC Management



Command Name	Description	Syntax	Example
kubectl get role	List all roles in a namespace	kubectl get role	kubectl get role
kubectl describe role	Show details of a role	kubectl describe role role-name	kubectl describe role my-role
kubectl get rolebinding	List all role bindings in a namespace	kubectl get rolebinding	kubectl get rolebinding
kubectl describe rolebinding	Show details of a role binding	kubectl describe rolebinding binding-name	kubectl describe rolebinding my-binding

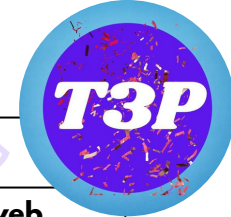
## Scaling

Command Name	Description	Syntax	Example
kubectl scale	Scale the number of replicas in a deployment	kubectl scale deployment name --replicas=3	kubectl scale deployment web --replicas=5
kubectl autoscale	Create a horizontal pod autoscaler	kubectl autoscale deployment name --min=2 --max=5 --cpu-percent=80	kubectl autoscale deployment web --min=2 --max=5 --cpu-percent=80

## Updating

Command Name	Description	Syntax	Example
kubectl edit	Edit a resource	kubectl edit pod pod-name	kubectl edit pod my-pod
kubectl replace	Replace a resource	kubectl replace -f filename.yaml	kubectl replace -f pod.yaml

# Health Check



Command Name	Description	Syntax	Example
kubectl rollout status	Check the status of a rollout	kubectl rollout status deployment name	kubectl rollout status deployment/web
kubectl rollout history	View the rollout history of a deployment	kubectl rollout history deployment name	kubectl rollout history deployment/web

## Debugging

Command Name	Description	Syntax	Example
kubectl logs	Print the logs from a container within a pod	kubectl logs pod-name	kubectl logs my-pod
kubectl describe	Show details of a resource	kubectl describe pod pod-name	kubectl describe pod my-pod

## Labeling

Command Name	Description	Syntax	Example
kubectl label	Add or update labels to a resource	kubectl label pod pod-name key=value	kubectl label pod my-pod environment=production
kubectl annotate	Add or update annotations to a resource	kubectl annotate pod pod-name key=value	kubectl annotate pod my-pod description="My web server"

## Network Policy

Command Name	Description	Syntax	Example
kubectl create networkpolicy	Create a network policy	kubectl create -f network-policy-definition.yaml	kubectl create -f network-policy.yaml
kubectl get networkpolicy	List all network policies in the cluster	kubectl get networkpolicy	kubectl get networkpolicy

