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# KUBERNETES CHEAT SHEET



Category	Command	Description
Cluster Information	kubectl cluster-info	Display cluster information.
	kubectl get nodes	List all nodes in the cluster.
	kubectl describe node <node-name>	Show detailed information about a specific node.
	kubectl top node	Show resource usage of nodes.
	kubectl top pod	Show resource usage of pods.
	kubectl version	Display client and server versions.
Namespaces	kubectl get namespaces	List all namespaces.
	kubectl create namespace <name>	Create a new namespace.
	kubectl delete namespace <name>	Delete a namespace.
	kubectl config set-context --current --namespace=<namespace>	Set default namespace.
Pods	kubectl get pods	List all pods in the current namespace.
	kubectl get pods -A	List all pods across all namespaces.
	kubectl describe pod <pod-name>	Show detailed information about a specific pod.
	kubectl logs <pod-name>	View logs of a specific pod.
	kubectl logs <pod-name> -c <container-name>	View logs of a specific container in a pod.
	kubectl exec -it <pod-name> -- sh	Execute a shell command inside a running pod.
	kubectl port-forward <pod-name> <local-port>:<pod-port>	Forward port to access a pod locally.
	kubectl delete pod <pod-name>	Delete a specific pod.
	kubectl cp <file-path> <pod-name>:/<path>	Copy files to a pod.
Deployments	kubectl get deployments	List all deployments.
	kubectl describe deployment <name>	Show detailed

		information about a specific deployment.
	kubectl apply -f <file.yaml>	Apply configuration from a YAML file.
	kubectl scale deployment <name> --replicas=<n>	Scale a deployment.
	kubectl rollout restart deployment <name>	Restart a deployment.
	kubectl delete deployment <name>	Delete a deployment.
	kubectl rollout undo deployment <name>	Undo the last deployment rollout.
	kubectl set image deployment/<name> <container-name>=<new-image>	Update container image in a deployment.
	kubectl expose deployment <name> --port=<port>	Expose a deployment as a service.
<b>Services</b>	kubectl get services	List all services.
	kubectl describe service <name>	Show detailed information about a specific service.
	kubectl expose pod <name> --type=NodePort --port=<port>	Expose a pod as a service.
	kubectl delete service <name>	Delete a service.
	kubectl port-forward service/<service-name> <local-port>:<service-port>	Forward a port to access a service locally.
<b>ConfigMaps</b>	kubectl create configmap <name> --from-literal=<key>=<value>	Create a ConfigMap.
	kubectl get configmaps	List all ConfigMaps.
	kubectl describe configmap <name>	Show detailed information about a ConfigMap.
	kubectl delete configmap <name>	Delete a ConfigMap.
	kubectl apply -f <configmap-file.yaml>	Apply ConfigMap from a file.
<b>Secrets</b>	kubectl create secret generic <name> --from-literal=<key>=<value>	Create a secret.
	kubectl get secrets	List all secrets.
	kubectl describe secret <name>	Show detailed information about a secret.
	kubectl delete secret <name>	Delete a secret.
	kubectl apply -f <secret-file.yaml>	Apply a secret from a

		YAML file.
<b>Jobs</b>	kubectl create job <name> --image=<image>	Create a simple job.
	kubectl get jobs	List all jobs.
	kubectl describe job <name>	Show detailed information about a specific job.
	kubectl delete job <name>	Delete a specific job.
<b>CronJobs</b>	kubectl create cronjob <name> --image=<image> --schedule="* * * * *"	Create a cron job.
	kubectl get cronjobs	List all cron jobs.
	kubectl delete cronjob <name>	Delete a cron job.
<b>Persistent Volumes</b>	kubectl get pv	List all Persistent Volumes (PVs).
	kubectl get pvc	List all Persistent Volume Claims (PVCs).
	kubectl describe pv <name>	Show detailed information about a PV.
	kubectl describe pvc <name>	Show detailed information about a PVC.
	kubectl delete pv <name>	Delete a PV.
	kubectl delete pvc <name>	Delete a PVC.
<b>Ingress</b>	kubectl get ingress	List all ingress resources.
	kubectl describe ingress <name>	Show detailed information about a specific ingress.
	kubectl apply -f <ingress-file.yaml>	Create or update an ingress resource.
	kubectl delete ingress <name>	Delete an ingress resource.
<b>Debugging</b>	kubectl get events	List all events in the cluster.
	kubectl describe <resource> <name>	Show detailed information about any resource.
	kubectl logs -f <pod-name>	Stream logs from a pod.

	kubectl exec -it <pod-name> -- sh	Access a shell inside a running pod.
	kubectl port-forward <pod-name> <local-port>:<pod-port>	Forward a local port to a pod.
<b>General Management</b>	kubectl apply -f <file.yaml>	Apply configurations from a YAML file.
	kubectl delete -f <file.yaml>	Delete resources defined in a YAML file.
	kubectl edit <resource> <name>	Edit a resource configuration directly.
	kubectl explain <resource>	Explain a resource type.
	kubectl config view	View the current Kubernetes configuration.