

# KUBERNETES CHEATSHEET - I

## BY LINUXRAJA

### NODE (no)

**kubectl get no** – List all nodes in the cluster  
**kubectl get no -o wide** – List all nodes in detail  
**kubectl describe no <node-name>** – Show Node Detail  
**kubectl get no -o yaml/json** – Nodes Output format  
**kubectl cordon <node-name>** -- No new pods will get scheduled  
**kubectl uncordon <node-name>** - Allow pods back onto node  
**kubectl drain <node-name>** -- Move pods to other nodes  
**kubectl delete <node-name>** -- Delete a Node from cluster

### LOGS

**kubectl logs <pod-name>** # Display pod log  
**kubectl logs --since=1h <pod-name>** # Since 1hour  
**kubectl logs --tail=20 <pod-name>** # Tail 20 lines  
**kubectl logs <pod-name> > export.log** # Export the logs to file  
**kubectl logs counter --all-containers=true** # All container logs  
**kubectl logs -l app=nginx** # Logs of certain label  
**kubectl logs deployment/nginx -c nginx** # Display certain deployment logs

### PODS (po)

**kubectl get po** # List all pods  
**kubectl get no -o wide** # List all pods on each node  
**kubectl describe po <pod-name>** # Show pod Detail  
**kubectl get po --show-labels** # Show labels for all pods  
**kubectl get po -l app=nginx** # List pods with particular label  
**kubectl get po <pod-name> -o yaml/json** # Show the particular output  
**kubectl get pod <pod-name> -o yaml --export > exportfile.yaml** # pod Export the pod output to file  
**kubectl get pods --field-selector status.phase=Running** # List pods with the particular field  
**kubectl run tomcat --image=nginx** # Create a single container Pod  
**kubectl create -f nginx.yaml** # Multi containers pod created by using YAML file with definitions  
**kubectl delete po <pod-name>** # Delete the pod  
**kubectl delete po --all** # Delete all Pods

### SERVICES (srv)

**kubectl get svc** # List services  
**kubectl get svc -o wide** # List services in detail  
**kubectl describe svc <svc-name>** # Particular service in detail  
**kubectl get svc <srv-name> -o json** # Get Json output of the service  
**kubectl get svc -o yaml** # Service output in yaml format  
**kubectl get svc --show-labels** # Show labels for the services  
**kubectl get services --sort-by=.metadata.name** # List service sort by name  
**kubectl expose deployment nginx --port 80 --type NodePort** # Create a service for the nginx deployment  
**kubectl edit srv <srv-name>** # Edit the running service  
**kubectl delete srv <srv-name>** # Delete a service

### NAMESPACES (ns)

**kubectl get ns** # List the current namespaces in the cluster  
**kubectl get ns -o yaml** # Namespace output format  
**kubectl describe ns <ns-name>** # Namespace detailed info  
**kubectl create ns <ns-name>** # Create new namespace  
**kubectl delete ns <ns-name>** # Delete the namespace  
**kubectl delete po -n web** # Delete pods in the namespace  
**kubectl edit ns <ns-name>** # Edit the namespace

### DEPLOYMENTS (deploy)

**kubectl get deploy** # List all deployments  
**kubectl get deploy -o wide** # List containers, images & selector as well  
**kubectl describe deploy <deploy-name>** # Show deployment detail  
**kubectl get deploy -o yaml** # Get the deploy yaml output  
**kubectl get deploy -n kube-system** # Get deployments from specific namespace  
**kubectl scale deployment/<deploy-name> --replicas=4** # Scale the existing deployment  
**kubectl create deploy nginx --image=nginx** # Start a single instance of nginx  
**kubectl set image deployment/frontend web=image:v2** # Rolling update "web" containers of "frontend" deployment  
**kubectl rollout history deployment/frontend** # Check the history of deployments including the revision  
**kubectl rollout undo deployment/frontend** # Rollback to the previous deployment  
**kubectl rollout undo deployment/frontend --to-revision=2** # Rollback to a specific revision  
**kubectl rollout status -w deployment/frontend** # Watch rolling update status of "frontend" deployment  
**kubectl rollout restart deployment/frontend** # Rolling restart of the "frontend" deployment

### GETTING HELP

**kubectl -h**  
**kubectl create -h**  
**kubectl run -h**  
**kubectl explain deploy.spec**  
**kubectl get srv --help kubectl**  
**kubectl set srv/deploy --help**

## KUBERNETES CHEATSHEET - II

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REPLICASETS (rs)	ROLES	SECRETS
<pre>kubectl get rs kubectl describe rs kubectl get rs -o wide kubectl get rs -o yaml</pre>	<pre>kubectl get roles --all-namespaces kubectl get roles --all-namespaces -o yaml</pre>	<pre>kunectl get secrets kubectl get secrets --all-namespaces kubectl get secrets -o yaml</pre>
CONFIGMAPS (cm)	INGRESS (ing)	PERSISTENTVOLUME (pv)
<pre>kubectl get cm kubectl get cm --all-namespaces kubectl get cm --all-namespaces -o yaml</pre>	<pre>kubectl get ing kubectl get ing --all-namespaces</pre>	<pre>kubectl get pv kubectl describe pv</pre>
PERSISTENTVOLUMECLAIM (pvc)	DAEMONSETS (ds)	EVENTS
<pre>kubectl get pvc kubectl describe pvc</pre>	<pre>kubectl get ds kubectl get ds --all-namespaces kubectl describe ds &lt;ds-name&gt; -n &lt;namespace&gt; kubectl describe ds &lt;ds-name&gt; -n &lt;namespace&gt; -o yaml</pre>	<pre>kubectl get events kubectl get events -n kube-system kubectl get events -w</pre>
SERVICEACCOUNTS (sa)	CLUSTER INFO	API CALL REQUEST
<pre>kubectl get sa kubectl get sa -o yaml kubectl get sa default -o yaml &gt; ./sa.yaml kubectl replace sa default -f ./sa.yaml</pre>	<pre>kubectl config kubectl cluster-info kubectl get componentstatuses</pre>	<pre>kubectl get --raw /apis/metrics.k8s.io/</pre>
STORAGECLASS (sc)	MULTIPLE RESOURCES	ANNOTATE
<pre>kubectl get sc kubectl get sc -o yaml</pre>	<pre>kubectl get svc, po kubectl get deploy, no kubectl get all kubectl get all --all-namespaces</pre>	<pre>kubectl annotate po &lt;pod-name&gt; &lt;annotation&gt; kubectl annotate no &lt;node-name&gt;</pre>