Kubernetes Cheat Sheet

1 min read

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Cluster Introspection

```
kubectl get services                  # List all services
kubectl get pods                      # List all pods
kubectl get nodes -w                  # Watch nodes continuously
kubectl version                       # Get version information
kubectl cluster-info                  # Get cluster information
kubectl config view                   # Get the configuration
kubectl describe node <node>          # Output information about a node
```

Pod and Container Introspection

```
kubectl get pods                          # List the current pods
kubectl describe pod <name>               # Describe pod <name>
kubectl get rc                            # List the replication controllers
kubectl get rc --namespace="<namespace>" # List the replication controllers in <namespace>
kubectl describe rc <name>                # Describe replication controller <name>
kubectl get svc                           # List the services
kubectl describe svc <name>               # Describe service <name>
```

Interacting with Pods

```
kubectl run <name> --image=<image-name>                                 # Launch a pod called <name
                                                                        # using image <image-name>

kubectl create -f <manifest.yaml>                                       # Create a service describe
                                                                        # in <manifest.yaml>

kubectl scale --replicas=<count> rc <name>                              # Scale replication control
                                                                        # <name> to <count> instanc

kubectl expose rc <name> --port=<external> --target-port=<internal> # Map port <external> to
                                                                        # port <internal> on replic
                                                                        # controller <name>
```

Stopping Kubernetes

```
kubectl delete pod <name>                                          # Delete pod <name>
kubectl delete rc <name>                                           # Delete replication controll
kubectl delete svc <name>                                          # Delete service <name>
kubectl drain <n> --delete-local-data --force --ignore-daemonsets # Stop all pods on <n>
kubectl delete node <name>                                         # Remove <node> from the clus
```

Debugging

```
kubectl exec <service> <command> [-c <$container>] # execute <command> on <service>, optionally
                                                   # selecting container <$container>

kubectl logs -f <name> [-c <$container>]           # Get logs from service <name>, optionally
                                                   # selecting container <$container>

watch -n 2 cat /var/log/kublet.log                 # Watch the Kublet logs
kubectl top node                                   # Show metrics for nodes
kubectl top pod                                    # Show metrics for pods
```

Administration

```
kubeadm init                                              # Initialize your master node
kubeadm join --token <token> <master-ip>:<master-port>    # Join a node to your Kubernetes clus
kubectl create namespace <namespace>                      # Create namespace <name>
kubectl taint nodes --all node-role.kubernetes.io/master- # Allow Kubernetes master nodes to ru
kubeadm reset                                             # Reset current state

kubectl get secrets                                       # List all secrets
```