Commands

1. Kubectl get node – provides node details
2. kubectl apply -f finename.yaml – create
3. kubectl get pod – provides pod details
4. kubectl get all – pods, deployments, service and replica
5. kubectl get configmap – provide configmap details
6. kubectl get secret – provides secret type info
7. Run the following command using the pod name of the container that you want to access: kubectl describe pods pod\_name
8. To access one of the containers in the pod, enter the following command: kubectl exec -it pod\_name -c container\_name bash
9. kubectl get svc – service details
10. kubectl describe service – details about service
11. kubectl describe service service\_name
12. kubectl logs pod\_name – logs
13. kubectl logs pod\_name -f – logs streaming
14. kubectl get node -o wide –
15. minikube ip
16. kubectl scale deployment mongo-deployment --replicas=2
17. kubectl get deployments
18. kubectl delete pods <pod name>
19. kubectl delete pods <pod name> --grace-period=0 –force
20. If the pod is stuck in the unknown state, run this command to remove it from the cluster: kubectl patch pod <pod name> -p '{"metadata":{"finalizers":null}}'
21. Kubectl drain
22. kubectl get poddisruptionbudget -A : **allows you to limit the disruption to your application when its pods need to be rescheduled for some reason such as upgrades or routine maintenance work on the Kubernetes nodes**.
23. kubectl get pods -n <namespace> : show the status of your pods
24. kubectl get events
25. kubectl rollout restart: kubectl rollout restart deployment <deployment\_name> -n <namespace>
26. kubectl get pod <pod\_name> -n <namespace> -o yaml | kubectl replace --force -f -

Troubleshoot:

**How to Find the ‘CrashLoopBackoff’ Error: https://spacelift.io/blog/crashloopbackoff**

The CrashLoopBackoff status is a notification that the pod is being restarted due to an error and is waiting for the specified ‘backoff’ time until it will try to start again.

**Horizontal scaling** means that the response to increased load is to deploy more [Pods](https://kubernetes.io/docs/concepts/workloads/pods/).

**Horizontal vs. Vertical Scaling**

|  | **HORIZONTAL** | **VERTICAL** |
| --- | --- | --- |
| **Pod** | Adds or removes Pods | Modifies CPU and/or RAM resources allocated to the Pod |
| **Node** | Adds or removes Nodes | Modifies CPU and/or RAM resources allocated to the Node |