```
Windows PowerShell                                                            —    □    ✕

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\User> kubectl get all
Unable to connect to the server: dial tcp 127.0.0.1:6443: connectex: No connection could be made because the target mach
ine actively refused it.
PS C:\Users\User> ^C
PS C:\Users\User> kubectl get all
NAME                TYPE        CLUSTER-IP     EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.96.0.1      <none>        443/TCP   4h19m
PS C:\Users\User>
```

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C:\Windows\System32\cmd.exe                                                                    —  □  ×

Microsoft Windows [Version 10.0.18363.778]
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C:\Users\User\Desktop\kube>code .

C:\Users\User\Desktop\kube>kubectl get nodes
NAME            STATUS   ROLES          AGE      VERSION
docker-desktop  Ready    control-plane  4h48m    v1.25.4

C:\Users\User\Desktop\kube>kubectl create deployment hello-node --image=k8s.gcr.io/echoserver:1.4
deployment.apps/hello-node created

C:\Users\User\Desktop\kube>kubectl get pods
NAME                        READY   STATUS             RESTARTS   AGE
hello-node-697897c86-lv2f5  0/1     ContainerCreating  0          9s

C:\Users\User\Desktop\kube> kubectl get deployement
error: the server doesn't have a resource type "deployement"

C:\Users\User\Desktop\kube> kubectl get deployemets
error: the server doesn't have a resource type "deployemets"

C:\Users\User\Desktop\kube> kubectl get deployments
NAME        READY   UP-TO-DATE   AVAILABLE   AGE
hello-node  0/1     1            0           63s

C:\Users\User\Desktop\kube>kubectl get events
LAST SEEN   TYPE      REASON                 OBJECT                          MESSAGE
33m         Normal    Starting               node/docker-desktop             Starting kubelet.
33m         Warning   InvalidDiskCapacity    node/docker-desktop             invalid capacity 0 on image filesystem
33m         Normal    NodeHasSufficientMemory node/docker-desktop            Node docker-desktop status is now: NodeHasSufficientMemory
33m         Normal    NodeHasNoDiskPressure  node/docker-desktop             Node docker-desktop status is now: NodeHasNoDiskPressure
33m         Normal    NodeHasSufficientPID   node/docker-desktop             Node docker-desktop status is now: NodeHasSufficientPID
33m         Normal    NodeAllocatableEnforced node/docker-desktop            Updated Node Allocatable limit across pods
32m         Normal    Starting               node/docker-desktop
32m         Normal    RegisteredNode         node/docker-desktop             Node docker-desktop event: Registered Node docker-desktop in Controller
2m13s       Normal    Scheduled              pod/hello-node-697897c86-lv2f5  Successfully assigned default/hello-node-697897c86-lv2f5 to docker-desktop
61s         Normal    Pulling                pod/hello-node-697897c86-lv2f5  Pulling image "k8s.gcr.io/echoserver:1.4"
45s         Warning   Failed                 pod/hello-node-697897c86-lv2f5  Failed to pull image "k8s.gcr.io/echoserver:1.4": rpc error: code = Unknown desc = Err
or response from daemon: Get "https://k8s.gcr.io/v2/": net/http: request canceled while waiting for connection (Client.Timeout exceeded while awaiting headers)
45s         Warning   Failed                 pod/hello-node-697897c86-lv2f5  Error: ErrImagePull
8s          Normal    BackOff                pod/hello-node-697897c86-lv2f5  Back-off pulling image "k8s.gcr.io/echoserver:1.4"
8s          Warning   Failed                 pod/hello-node-697897c86-lv2f5  Error: ImagePullBackOff
2m13s       Normal    SuccessfulCreate       replicaset/hello-node-697897c86 Created pod: hello-node-697897c86-lv2f5
2m13s       Normal    ScalingReplicaSet      deployment/hello-node           Scaled up replica set hello-node-697897c86 to 1
```
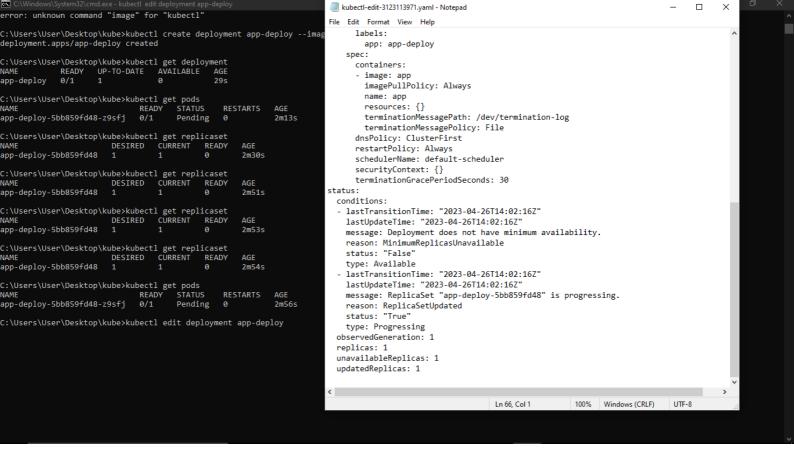
    client-key-data: REDACTED

```
C:\Users\User\Desktop\kube>kubectl expose deployment hello-node --type=loadBalancer --port=8080
The Service "hello-node" is invalid: spec.type: Unsupported value: "loadBalancer": supported values: "ClusterIP", "ExternalName", "LoadBalancer", "NodePort"

C:\Users\User\Desktop\kube>kubectl expose deployment hello-node --type=loadBalancer --port=8080
The Service "hello-node" is invalid: spec.type: Unsupported value: "loadBalancer": supported values: "ClusterIP", "ExternalName", "LoadBalancer", "NodePort"

C:\Users\User\Desktop\kube>kubectl expose deployment hello-node --type=LoadBalancer --port=8080
service/hello-node exposed

C:\Users\User\Desktop\kube>kubectl get services
NAME         TYPE           CLUSTER-IP     EXTERNAL-IP   PORT(S)          AGE
hello-node   LoadBalancer   10.99.24.211   localhost     8080:32451/TCP   19s
kubernetes   ClusterIP      10.96.0.1      <none>        443/TCP          4h55m

C:\Users\User\Desktop\kube>kubectl service hello-node
error: unknown command "service" for "kubectl"

C:\Users\User\Desktop\kube>kubectl service hello-node
error: unknown command "service" for "kubectl"

C:\Users\User\Desktop\kube>kubectl services hello-node
error: unknown command "services" for "kubectl"

C:\Users\User\Desktop\kube>kubectl port-forward service/myservice 8080:80
Error from server (NotFound): services "myservice" not found

C:\Users\User\Desktop\kube>kubectl port-forward service/myservice 8080:80
Error from server (NotFound): services "myservice" not found

C:\Users\User\Desktop\kube>kubectl port-forward service/heelo-node 8080:80
Error from server (NotFound): services "heelo-node" not found

C:\Users\User\Desktop\kube>kubectl port-forward service/hello-node 8080:80
error: Service hello-node does not have a service port 80

C:\Users\User\Desktop\kube>kubectl port-forward service/hello-node 8080
error: unable to forward port because pod is not running. Current status=Pending

C:\Users\User\Desktop\kube>kubectl port-forward service/hello-node 8080:80
error: Service hello-node does not have a service port 80

C:\Users\User\Desktop\kube>kubectl port-forward service/hello-node 8080:8181
error: Service hello-node does not have a service port 8181
```

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Select C:\Windows\System32\cmd.exe

C:\Users\User\Desktop\kube>kubectl adds list
error: unknown command "adds" for "kubectl"

C:\Users\User\Desktop\kube>kubectl get pods
NAME                       READY   STATUS           RESTARTS   AGE
hello-node-697897c86-lv2f5   0/1   ImagePullBackOff   0          15m

C:\Users\User\Desktop\kube>kubectl delete pod hello-node-697897c86-lv2f5
pod "hello-node-697897c86-lv2f5" deleted

C:\Users\User\Desktop\kube>kubectl get pods
NAME                       READY   STATUS           RESTARTS   AGE
hello-node-697897c86-vzf69   0/1   ContainerCreating   0          3s

C:\Users\User\Desktop\kube>kubectl get deployment
NAME         READY   UP-TO-DATE   AVAILABLE   AGE
hello-node   0/1     1            0           17m

C:\Users\User\Desktop\kube>kubectl delete deployement hello-node
error: the server doesn't have a resource type "deployement"

C:\Users\User\Desktop\kube>kubectl delete deployment hello-node
deployment.apps "hello-node" deleted

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get services
NAME         TYPE           CLUSTER-IP     EXTERNAL-IP   PORT(S)          AGE
hello-node   LoadBalancer   10.99.24.211   localhost     8080:32451/TCP   13m
kubernetes   ClusterIP      10.96.0.1      <none>        443/TCP          5h8m

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get nodes
NAME             STATUS   ROLES           AGE     VERSION
docker-desktop   Ready    control-plane   5h8m    v1.25.4

C:\Users\User\Desktop\kube>kubectl delete docker-desktop
error: the server doesn't have a resource type "docker-desktop"

C:\Users\User\Desktop\kube>kubectl delete node docker-desktop
```

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Select C:\Windows\System32\cmd.exe

C:\Users\User\Desktop\kube>kubectl get deployment
NAME         READY   UP-TO-DATE   AVAILABLE   AGE
hello-node   0/1     1            0           17m

C:\Users\User\Desktop\kube>kubectl delete deployement hello-node
error: the server doesn't have a resource type "deployement"

C:\Users\User\Desktop\kube>kubectl delete deployment hello-node
deployment.apps "hello-node" deleted

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get services
NAME         TYPE           CLUSTER-IP      EXTERNAL-IP   PORT(S)           AGE
hello-node   LoadBalancer   10.99.24.211    localhost     8080:32451/TCP    13m
kubernetes   ClusterIP      10.96.0.1       <none>        443/TCP           5h8m

C:\Users\User\Desktop\kube>kubectl get pods
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl get nodes
NAME             STATUS   ROLES           AGE     VERSION
docker-desktop   Ready    control-plane   5h8m    v1.25.4

C:\Users\User\Desktop\kube>kubectl delete docker-desktop
error: the server doesn't have a resource type "docker-desktop"

C:\Users\User\Desktop\kube>kubectl delete node docker-desktop
node "docker-desktop" deleted

C:\Users\User\Desktop\kube>kubectl get nodes
No resources found

C:\Users\User\Desktop\kube>
```

```
error: unknown command "image" for "kubectl"

C:\Users\User\Desktop\kube>kubectl create deployment app-deploy --imag
deployment.apps/app-deploy created

C:\Users\User\Desktop\kube>kubectl get deployment
NAME         READY   UP-TO-DATE   AVAILABLE   AGE
app-deploy   0/1     1            0           29s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                          READY   STATUS    RESTARTS   AGE
app-deploy-5bb859fd48-z9sfj   0/1     Pending   0          2m13s

C:\Users\User\Desktop\kube>kubectl get replicaset
NAME                    DESIRED   CURRENT   READY   AGE
app-deploy-5bb859fd48   1         1         0       2m30s

C:\Users\User\Desktop\kube>kubectl get replicaset
NAME                    DESIRED   CURRENT   READY   AGE
app-deploy-5bb859fd48   1         1         0       2m51s

C:\Users\User\Desktop\kube>kubectl get replicaset
NAME                    DESIRED   CURRENT   READY   AGE
app-deploy-5bb859fd48   1         1         0       2m53s

C:\Users\User\Desktop\kube>kubectl get replicaset
NAME                    DESIRED   CURRENT   READY   AGE
app-deploy-5bb859fd48   1         1         0       2m54s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                          READY   STATUS    RESTARTS   AGE
app-deploy-5bb859fd48-z9sfj   0/1     Pending   0          2m56s

C:\Users\User\Desktop\kube>kubectl edit deployment app-deploy
```

kubectl-edit-3123113971.yaml - Notepad

File Edit Format View Help

```
      labels:
        app: app-deploy
    spec:
      containers:
      - image: app
        imagePullPolicy: Always
        name: app
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
      dnsPolicy: ClusterFirst
      restartPolicy: Always
      schedulerName: default-scheduler
      securityContext: {}
      terminationGracePeriodSeconds: 30
status:
  conditions:
  - lastTransitionTime: "2023-04-26T14:02:16Z"
    lastUpdateTime: "2023-04-26T14:02:16Z"
    message: Deployment does not have minimum availability.
    reason: MinimumReplicasUnavailable
    status: "False"
    type: Available
  - lastTransitionTime: "2023-04-26T14:02:16Z"
    lastUpdateTime: "2023-04-26T14:02:16Z"
    message: ReplicaSet "app-deploy-5bb859fd48" is progressing.
    reason: ReplicaSetUpdated
    status: "True"
    type: Progressing
  observedGeneration: 1
  replicas: 1
  unavailableReplicas: 1
  updatedReplicas: 1
```

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deployment.apps "app-deploy" deleted

C:\Users\User\Desktop\kube>kubectl delete deployment webapp-deploy
deployment.apps "webapp-deploy" deleted

C:\Users\User\Desktop\kube>kubectl get deployment
No resources found in default namespace.

C:\Users\User\Desktop\kube>kubectl create deployment webapp-deploy --image=hello-world
deployment.apps/webapp-deploy created

C:\Users\User\Desktop\kube>kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
webapp-deploy-66c8945566-55kgf 0/1     Pending   0          55s

C:\Users\User\Desktop\kube>kubectl logs webapp-deploy-66c8945566-55kgf

C:\Users\User\Desktop\kube>kubectl get pods

C:\Users\User\Desktop\kube>kubectl get deployment
NAME            READY   UP-TO-DATE   AVAILABLE   AGE
webapp-deploy   0/1     1            0           4m6s

C:\Users\User\Desktop\kube>kubectl logs webapp-deploy-66c8945566-55kgf

C:\Users\User\Desktop\kube>kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
webapp-deploy-66c8945566-55kgf 0/1     Pending   0          4m24s

C:\Users\User\Desktop\kube>kubectl delete webapp-deploy-66c8945566-55kgf
error: the server doesn't have a resource type "webapp-deploy-66c8945566-55kgf"

C:\Users\User\Desktop\kube>kubectl delete pod  webapp-deploy-66c8945566-55kgf
pod "webapp-deploy-66c8945566-55kgf" deleted

C:\Users\User\Desktop\kube>kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
webapp-deploy-66c8945566-spblh 0/1     Pending   0          2s

C:\Users\User\Desktop\kube>kubectl logs webapp-deploy-66c8945566-55kgf
Error from server (NotFound): pods "webapp-deploy-66c8945566-55kgf" not found

C:\Users\User\Desktop\kube>_
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C:\Windows\System32\cmd.exe                                                                               —    □    ✕

NAME                             READY    STATUS           RESTARTS        AGE
webapp-deploy-66c8945566-tcbnt   0/1      Completed        0               8s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 1 (5s ago)      14s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 1 (8s ago)      17s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 1 (10s ago)     19s

C:\Users\User\Desktop\kube>kubectl create deployment webapp-deploy --image=mysql
error: failed to create deployment: deployments.apps "webapp-deploy" already exists

C:\Users\User\Desktop\kube>kubectl create deployment mysqldb --image=mysql
deployment.apps/mysqldb created

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
mysqldb-c9db89b59-q79vf          0/1      ContainerCreating 0              2s
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 2 (28s ago)     57s

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
mysqldb-c9db89b59-q79vf          1/1      Running          0               6s
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 2 (32s ago)     61s

C:\Users\User\Desktop\kube>kubectl exec -it mysqldb-c9db89b59-q79vf --bin/bash
error: unknown flag: --bin/bash
See 'kubectl exec --help' for usage.

C:\Users\User\Desktop\kube>kubectl exec -it mysqldb-c9db89b59-q79vf -- bin/bash
bash-4.4# command terminated with exit code 137

C:\Users\User\Desktop\kube>kubectl exec -it mysqldb-c9db89b59-q79vf -- bin/bash
error: unable to upgrade connection: container not found ("mysql")

C:\Users\User\Desktop\kube>kubectl get pods
NAME                             READY    STATUS           RESTARTS        AGE
mysqldb-c9db89b59-q79vf          0/1      Error            4 (60s ago)     119s
webapp-deploy-66c8945566-tcbnt   0/1      CrashLoopBackOff 4 (67s ago)     2m54s
```