

```
Windows PowerShell
PS C:\Users\Sumukh G> kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-img     0/1     1            0           46s
PS C:\Users\Sumukh G> kubectl get pod
NAME          READY   STATUS    RESTARTS   AGE
nginx-img-5c4fc679f9-52ftl  1/1     Running   0          61s
PS C:\Users\Sumukh G> kubectl get replicaset
NAME          DESIRED   CURRENT   READY   AGE
nginx-img-5c4fc679f9  1         1         1       83s
PS C:\Users\Sumukh G> kubectl describe deployment
Name:          nginx-img
Namespace:     default
CreationTimestamp: Wed, 26 Apr 2023 16:00:48 +0530
Labels:        app=nginx-img
Annotations:    deployment.kubernetes.io/revision: 1
Selector:      app=nginx-img
Replicas:      1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:   RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: app=nginx-img
  Containers:
    nginx:
      Image:      nginx
      Port:       <none>
      Host Port:  <none>
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
  Conditions:
    Type           Status    Reason
    ----           -
    Available      True      MinimumReplicasAvailable
    Progressing    True      NewReplicaSetAvailable
OldReplicaSets: <none>
NewReplicaSet:  nginx-img-5c4fc679f9 (1/1 replicas created)
Events:
  Type           Reason             Age    From          Message
  ----           -
  Normal         ScalingReplicaSet  3m15s  deployment-controller  Scaled up replica set nginx-img-5c4fc679f9 to 1
PS C:\Users\Sumukh G> |
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```
Windows PowerShell
PS C:\Users\Sumukh G> kubectl create deployment nginx-img --image=nginx
deployment.apps/nginx-img created
PS C:\Users\Sumukh G> kubectl get deployment
```


```
C:\WINDOWS\system32\cmd. X + v

C:\Users\Sumukh G>minikube version
minikube version: v1.30.1
commit: 08896fd1dc362c097c925146c4a0d0dac715ace0

C:\Users\Sumukh G>kubectl config view
apiVersion: v1
clusters:
- cluster:
  certificate-authority: C:\Users\Sumukh G\.minikube\ca.crt
  extensions:
  - extension:
    last-update: Wed, 26 Apr 2023 13:18:41 IST
    provider: minikube.sigs.k8s.io
    version: v1.30.1
    name: cluster_info
  server: https://127.0.0.1:61626
  name: minikube
contexts:
- context:
  cluster: minikube
  extensions:
  - extension:
    last-update: Wed, 26 Apr 2023 13:18:41 IST
    provider: minikube.sigs.k8s.io
    version: v1.30.1
    name: context_info
  namespace: default
  user: minikube
  name: minikube
current-context: minikube
kind: Config
preferences: {}
users:
- name: minikube
  user:
  client-certificate: C:\Users\Sumukh G\.minikube\profiles\minikube\client.crt
  client-key: C:\Users\Sumukh G\.minikube\profiles\minikube\client.key

C:\Users\Sumukh G>kubectl get service
NAME      TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes ClusterIP  10.96.0.1    <none>        443/TCP     154m

C:\Users\Sumukh G>
```



Docker Desktop

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An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

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<input type="checkbox"/>	<a href="#">gcr.io/k8s-minikube/kicbase</a> 67a4b1138d2d	v0.0.39	<a href="#">In use</a>	22 days ago	1.05 GB	<div>▶⋮🗑️</div>

Showing 1 item

RAM 6.25 GB CPU 1.55%🚫 Not connected to Hub

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Only show running containers



Showing 1 item

```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sumukh G>minikube start
* minikube v1.30.1 on Microsoft Windows 11 Pro 10.0.22621.1555 Build 22621.1555
* Automatically selected the docker driver. Other choices: virtualbox, ssh
* Using Docker Desktop driver with root privileges
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Downloading Kubernetes v1.26.3 preload ...
  > preloaded-images-k8s-v18-v1...: 397.02 MiB / 397.02 MiB 100.00% 3.60 Mi
  > gcr.io/k8s-minikube/kicbase...: 373.53 MiB / 373.53 MiB 100.00% 3.08 Mi
* Creating docker container (CPUs=2, Memory=4000MB) ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
  - Generating certificates and keys ...
  - Booting up control plane ...
  - Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\Sumukh G>
```

```

Windows PowerShell
PS C:\Users\Sumukh G> kubectl get deploy -A
NAMESPACE   NAME       READY   UP-TO-DATE   AVAILABLE   AGE
default     nginx-img  2/2     2             2           28m
kube-system  coredns    1/1     1             1          3h10m
PS C:\Users\Sumukh G> kubectl expose deploy nginx-img --type=ClusterIP --port=8081
Error from server (NotFound): deployments.apps "nginx-img" not found
PS C:\Users\Sumukh G> ^C
PS C:\Users\Sumukh G> kubectl expose deploy nginx-img --type=ClusterIP --port=8081
service/nginx-img exposed
PS C:\Users\Sumukh G> kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
nginx-img-5c4fc679f9-52ftl         1/1     Running   0           34m
nginx-img-5c4fc679f9-grv9x         1/1     Running   0           22m
PS C:\Users\Sumukh G> kubectl port-forward nginx-img-5c4fc679f9-52ftl 8081:8081
Forwarding from 127.0.0.1:8081 -> 8081
Forwarding from [::1]:8081 -> 8081
Handling connection for 8081
E0426 16:36:05.426416    28152 portforward.go:406] an error occurred forwarding 8081 -> 8081: error forwarding port 8081 to pod 116851008d77c79acb63c1c252da9e794740f23e8883d0a4708a3a9f7be47a75, uid : exit statu
s 1: 2023/04/26 11:06:05 socat[111583] E connect(5, AF=2 127.0.0.1:8081, 16): Connection refused
E0426 16:36:05.436150    28152 portforward.go:234] lost connection to pod
Handling connection for 8081
PS C:\Users\Sumukh G> kubectl scale deployment --replicas=3 nginx-img
deployment.apps/nginx-img scaled
PS C:\Users\Sumukh G> kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
nginx-img-5c4fc679f9-52ftl         1/1     Running   0           36m
nginx-img-5c4fc679f9-grv9x         1/1     Running   0           24m
nginx-img-5c4fc679f9-v6vk8         1/1     Running   0            8s
PS C:\Users\Sumukh G> kubectl get deployment
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nginx-img  3/3     3             3           37m
PS C:\Users\Sumukh G> kubectl delete deployment nginx-img
deployment.apps "nginx-img" deleted
PS C:\Users\Sumukh G> kubectl get deployment
No resources found in default namespace.
PS C:\Users\Sumukh G>

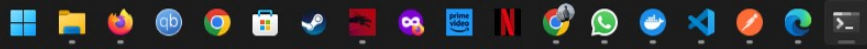
```



```
Windows PowerShell
PS C:\Users\Sumukh G> kubectl get pod
NAME                READY   STATUS    RESTARTS   AGE
nginx-img-5c4fc679f9-52ftl    1/1     Running   0           19m
nginx-img-5c4fc679f9-grv9x    1/1     Running   0           7m8s
PS C:\Users\Sumukh G> kubectl logs nginx-img-5c4fc679f9-52ftl
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2023/04/26 10:31:42 [notice] 1#1: using the "epoll" event method
2023/04/26 10:31:42 [notice] 1#1: nginx/1.23.4
2023/04/26 10:31:42 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2023/04/26 10:31:42 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2
2023/04/26 10:31:42 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/04/26 10:31:42 [notice] 1#1: start worker processes
2023/04/26 10:31:42 [notice] 1#1: start worker process 29
2023/04/26 10:31:42 [notice] 1#1: start worker process 30
2023/04/26 10:31:42 [notice] 1#1: start worker process 31
2023/04/26 10:31:42 [notice] 1#1: start worker process 32
2023/04/26 10:31:42 [notice] 1#1: start worker process 33
2023/04/26 10:31:42 [notice] 1#1: start worker process 34
2023/04/26 10:31:42 [notice] 1#1: start worker process 35
2023/04/26 10:31:42 [notice] 1#1: start worker process 36
2023/04/26 10:31:42 [notice] 1#1: start worker process 37
2023/04/26 10:31:42 [notice] 1#1: start worker process 38
2023/04/26 10:31:42 [notice] 1#1: start worker process 39
2023/04/26 10:31:42 [notice] 1#1: start worker process 40
PS C:\Users\Sumukh G> |
```



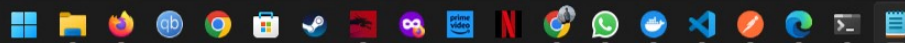
```
Windows PowerShell
PS C:\Users\Sumukh G> kubectl edit deployment
deployment.apps/nginx-img edited
PS C:\Users\Sumukh G> kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
nginx-img-5c4fc679f9-52ftl         1/1     Running   0           12m
nginx-img-5c4fc679f9-grv9x         1/1     Running   0           7s
PS C:\Users\Sumukh G> |
```



Windows PowerShell  
PS C:\Users\Sumukh G> kubectl edit deployment

```
kubectl.exe-edit-3218885735
File Edit View
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2023-04-26T10:30:48Z"
  generation: 1
  labels:
    app: nginx-img
    name: nginx-img
    namespace: default
    resourceVersion: "7123"
    uid: 80ebb3c3-1292-4fbb-9c04-338ab55a834f
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx-img
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
```

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Windows PowerShell  
PS C:\Users\Sumukh G> kubectl edit deployment

```
kubectl.exe-edit-3436320110
File Edit View

# Please edit the object below. Lines beginning with a '#' will be ignored,
# and an empty file will abort the edit. If an error occurs while saving this file will be
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2023-04-26T10:30:48Z"
  generation: 1
  labels:
    app: nginx-img
  name: nginx-img
  namespace: default
  resourceVersion: "7123"
  uid: 80ebb3c3-1292-4fbb-9c04-338ab55a834f
spec:
  progressDeadlineSeconds: 600
  replicas: 1
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx-img
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx-img
    spec:
      containers:
      - image: nginx
        imagePullPolicy: Always
        name: nginx
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
      dnsPolicy: ClusterFirst
```

Ln 45, Col 39

100%

Windows (CRLF)

UTF-8



```
Windows PowerShell
PS C:\Users\Sumukh G> kubectl describe deployment nginx-img
Name:          nginx-img
Namespace:     default
CreationTimestamp: Wed, 26 Apr 2023 16:00:48 +0530
Labels:        app=nginx-img
Annotations:   deployment.kubernetes.io/revision: 1
Selector:      app=nginx-img
Replicas:      1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: app=nginx-img
  Containers:
    nginx:
      Image:      nginx
      Port:       <none>
      Host Port:  <none>
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
  Conditions:
    Type           Status  Reason
    ----           -
    Available       True    MinimumReplicasAvailable
    Progressing     True    NewReplicaSetAvailable
OldReplicaSets: <none>
NewReplicaSet:  nginx-img-5c4fc679f9 (1/1 replicas created)
Events:
  Type           Reason             Age           From              Message
  ----           -
  Normal         ScalingReplicaSet  4m48s        deployment-controller  Scaled up replica set nginx-img-5c4fc679f9 to 1

PS C:\Users\Sumukh G> kubectl describe pod
Name:          nginx-img-5c4fc679f9-52ftl
Namespace:     default
Priority:       0
Service Account: default
Node:          minikube/192.168.49.2
Start Time:    Wed, 26 Apr 2023 16:00:50 +0530
Labels:        app=nginx-img
               pod-template-hash=5c4fc679f9
Annotations:   <none>
Status:        Running
IP:            10.244.0.3
IPs:           10.244.0.3
Controlled By: ReplicaSet/nginx-img-5c4fc679f9
Containers:
  nginx:
    Container ID:  docker://0d264326c71031917f9318eb709ccf218bed3e192145a1ea1544be785166134d
    Image:         nginx
```