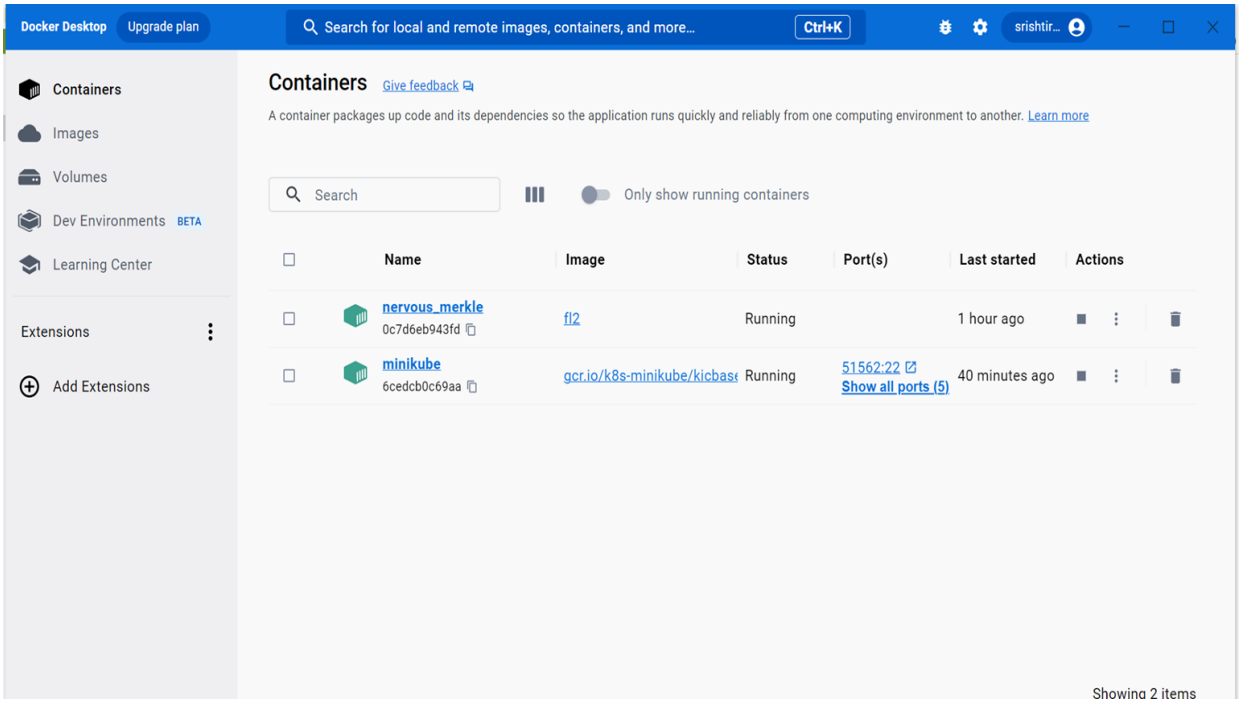
Kubernates Commands



Command Prompt

```
Microsoft Windows [Version 10.0.19045.2846]
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C:\Users\hp>minikube version
minikube version: v1.30.1
commit: 08896fd1dc362c097c925146c4a0d0dac715ace0

C:\Users\hp>kubectl config view
apiVersion: v1
clusters:
- cluster:
    certificate-authority: C:\Users\hp\.minikube\ca.crt
    extensions:
    - extension:
        last-update: Wed, 26 Apr 2023 16:32:49 IST
        provider: minikube.sigs.k8s.io
        version: v1.30.1
      name: cluster_info
    server: https://127.0.0.1:56709
  name: minikube
contexts:
- context:
    cluster: minikube
    extensions:
    - extension:
        last-update: Wed, 26 Apr 2023 16:32:49 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\hp\.minikube\profiles\minikube\client.crt
    client-key: C:\Users\hp\.minikube\profiles\minikube\client.key
```
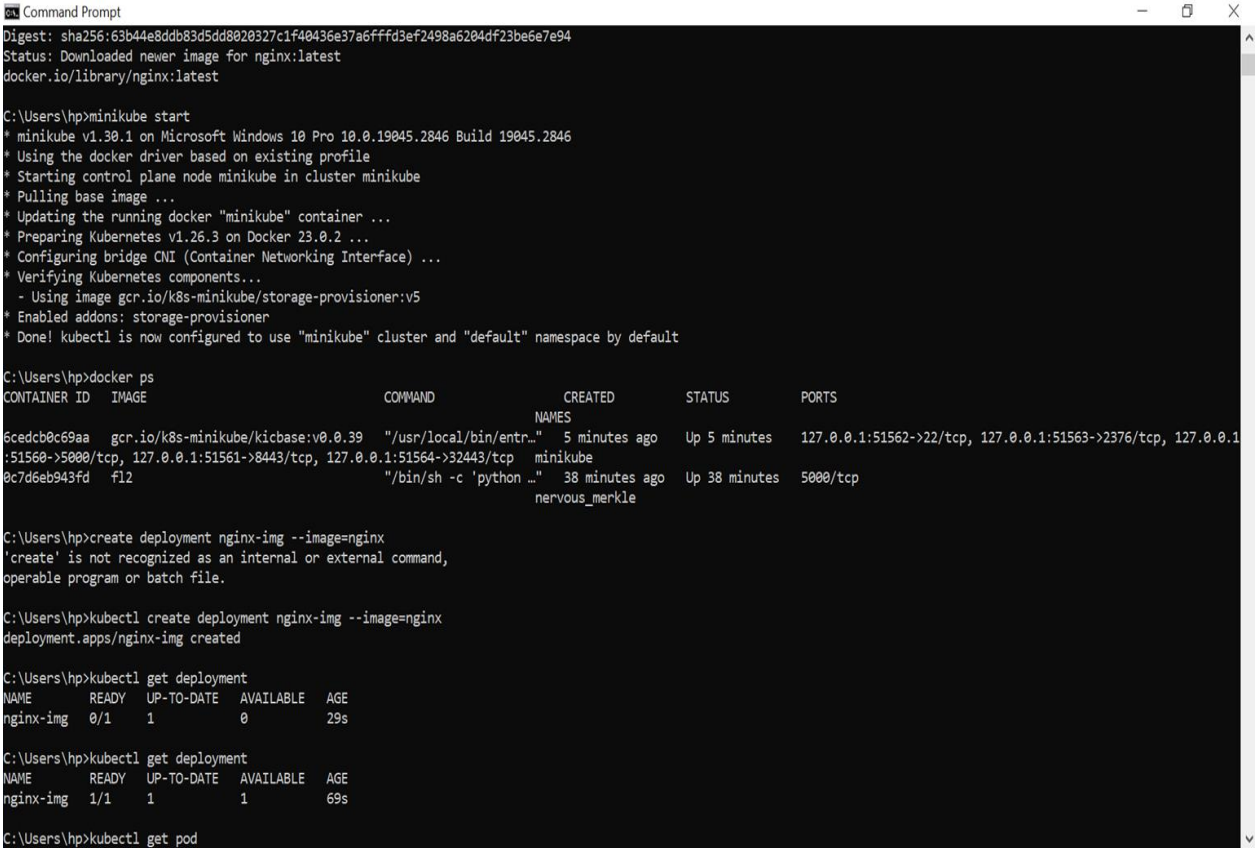
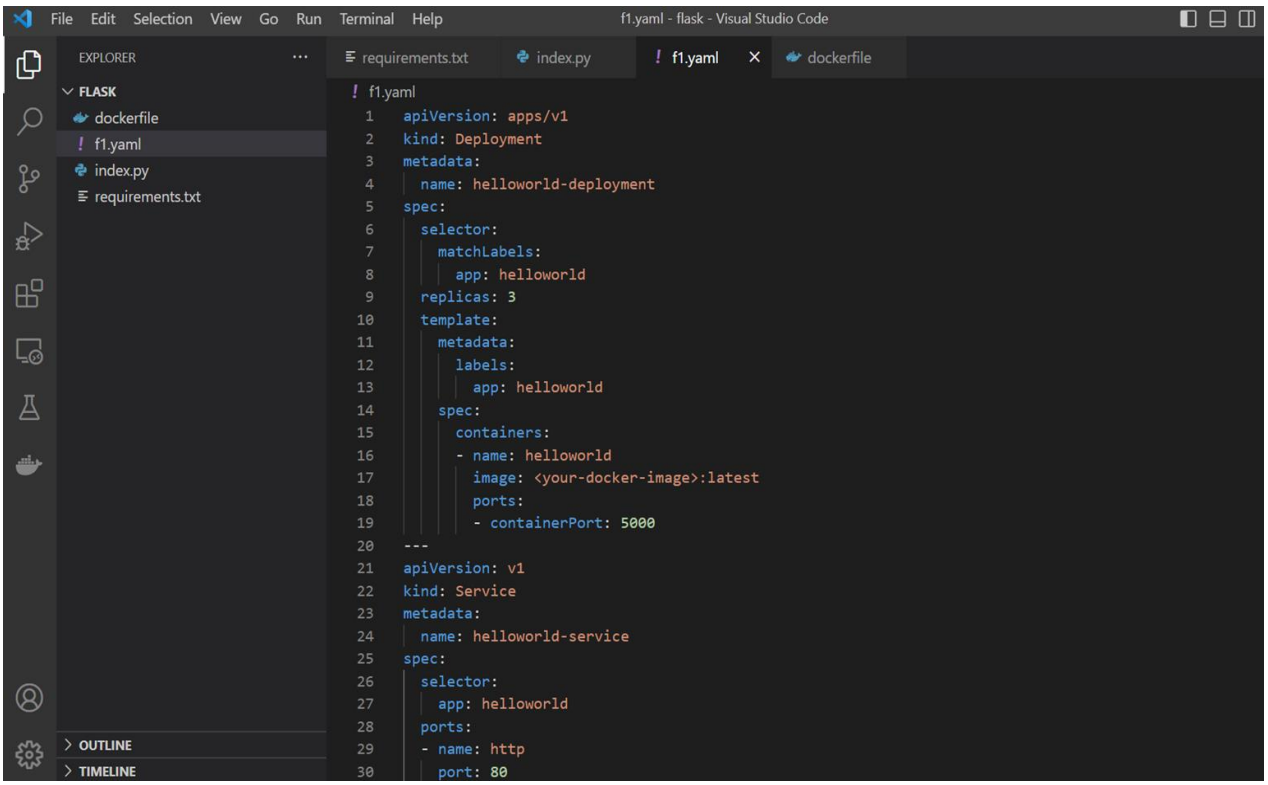

Command Prompt

```
- name: minikube
  user:
    client-certificate: C:\Users\hp\.minikube\profiles\minikube\client.crt
    client-key: C:\Users\hp\.minikube\profiles\minikube\client.key

C:\Users\hp>kubectl get service
Unable to connect to the server: dial tcp 127.0.0.1:56709: connectex: No connection could be made because the target machine actively refused it.

C:\Users\hp>minicube start
'minicube' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\hp>minikube start
* minikube v1.30.1 on Microsoft Windows 10 Pro 10.0.19045.2846 Build 19045.2846
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* docker "minikube" container is missing, will recreate.
* Creating docker container (CPUs=2, Memory=4000MB) ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
* 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\hp>kubectl get service
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   2d2h

C:\Users\hp>docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
26c5c85e47da: Pull complete
4f3256bdf66b: Pull complete
2019c71d5655: Pull complete
8c767bdbc9ae: Pull complete
78e14bb05fd3: Pull complete
75576236abf5: Pull complete
Digest: sha256:63b44e8ddb83d5dd8020327c1f40436e37a6fffd3ef2498a6204df23be6e7e94
Status: Downloaded newer image for nginx:latest
```


Command Prompt
Digest: sha256:63b44e8ddb83d5dd8020327c1f40436e37a6fffd3ef2498a6204df23be6e7e94
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
C:\Users\hp>minikube start
* minikube v1.30.1 on Microsoft Windows 10 Pro 10.0.19045.2846 Build 19045.2846
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Updating the running docker "minikube" container ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
- Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
C:\Users\hp>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
6cedcb0c69aa gcr.io/k8s-minikube/kicbase:v0.0.39 "/usr/local/bin/entr…" 5 minutes ago Up 5 minutes 127.0.0.1:51562->22/tcp, 127.0.0.1:51563->2376/tcp, 127.0.0.1
:51560->5000/tcp, 127.0.0.1:51561->8443/tcp, 127.0.0.1:51564->32443/tcp minikube
0c7d6eb943fd fl2 "/bin/sh -c 'python …" 38 minutes ago Up 38 minutes 5000/tcp
nervous_merkle
C:\Users\hp>create deployment nginx-img --image=nginx
'create' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\hp>kubectl create deployment nginx-img --image=nginx
deployment.apps/nginx-img created
C:\Users\hp>kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-img 0/1 1 0 29s
C:\Users\hp>kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-img 1/1 1 1 69s
C:\Users\hp>kubectl get pod

Command Prompt

```
C:\Users\hp>kubectl get pod
NAME                         READY   STATUS    RESTARTS   AGE
nginx-img-746dfd4b85-bnppw   1/1     Running   0          87s

C:\Users\hp>kubectl get replicaset
NAME                   DESIRED   CURRENT   READY   AGE
nginx-img-746dfd4b85   1         1         1       2m8s

C:\Users\hp>describe deployment
'describe' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\hp>kubectl describe deployment
Name:                   nginx-img
Namespace:              default
CreationTimestamp:      Fri, 28 Apr 2023 18:49:39 +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-746dfd4b85 (1/1 replicas created)
```



Command Prompt

```
  Type    Reason             Age    From                  Message
  ----    ------             ----   ----                  -------
  Normal  ScalingReplicaSet  2m43s  deployment-controller  Scaled up replica set nginx-img-746dfd4b85 to 1

C:\Users\hp>kubectl get deploy -A
NAMESPACE     NAME        READY   UP-TO-DATE   AVAILABLE   AGE
default       nginx-img   1/1     1            1           4m31s
kube-system   coredns     1/1     1            1           2d2h

C:\Users\hp>kubectl get pod
NAME                         READY   STATUS    RESTARTS   AGE
nginx-img-746dfd4b85-bnppw   1/1     Running   0          5m29s

C:\Users\hp>kubectl port-forward nginx-img-746dfd4b85-bnppw 8081:8081
Forwarding from 127.0.0.1:8081 -> 8081
Forwarding from [::1]:8081 -> 8081

C:\Users\hp>kubectl apply -f f1.yaml
error: the path "f1.yaml" does not exist

C:\Users\hp>kubectl apply -f "C:\Users\hp\Desktop\flask\f1.yaml"
deployment.apps/helloworld-deployment created
service/helloworld-service created

C:\Users\hp>kubectl get service
NAME                 TYPE           CLUSTER-IP     EXTERNAL-IP   PORT(S)        AGE
helloworld-service   LoadBalancer   10.110.72.56   <pending>     80:31086/TCP   50s
kubernetes           ClusterIP      10.96.0.1      <none>        443/TCP        2d2h

C:\Users\hp>kubectl get deployment
NAME                   READY   UP-TO-DATE   AVAILABLE   AGE
helloworld-deployment  0/3     3            0           79s
nginx-img              1/1     1            1           26m

C:\Users\hp>kubectl describe deployment helloworld-deployment
Name:                   helloworld-deployment
Namespace:              default
CreationTimestamp:      Fri, 28 Apr 2023 19:14:56 +0530
Labels:                 <none>
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=helloworld
```

1

Command Prompt

```
Namespace:              default
CreationTimestamp:      Fri, 28 Apr 2023 19:14:56 +0530
Labels:                 <none>
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=helloworld
Replicas:               3 desired | 3 updated | 3 total | 0 available | 3 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=helloworld
  Containers:
   helloworld:
    Image:        <your-docker-image>:latest
    Port:         5000/TCP
    Host Port:    0/TCP
    Environment:  <none>
    Mounts:       <none>
  Volumes:        <none>
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      False   MinimumReplicasUnavailable
  Progressing    True    ReplicaSetUpdated
OldReplicaSets:  <none>
NewReplicaSet:   helloworld-deployment-7dd6dbb864 (3/3 replicas created)
Events:
  Type    Reason             Age    From                   Message
  ----    ------             ----   ----                   -------
  Normal  ScalingReplicaSet  2m33s  deployment-controller  Scaled up replica set helloworld-deployment-7dd6dbb864 to 3

C:\Users\hp>
```