```
ubuntu@ip-172-31-10-240:~$ vi name.yaml
ubuntu@ip-172-31-10-240:~$ kubectl apply -f name.yaml
namespace/demo-namespace unchanged
ubuntu@ip-172-31-10-240:~$ kubectl get name
error: the server doesn't have a resource type "name"
ubuntu@ip-172-31-10-240:~$ kubectl get namespace
NAME                STATUS    AGE
default             Active    18m
demo-namespace      Active    80s
kube-node-lease     Active    18m
kube-public         Active    18m
kube-system         Active    18m
ubuntu@ip-172-31-10-240:~$
```

```
ubuntu@ip-172-31-10-240:~$ vi pod.yaml
ubuntu@ip-172-31-10-240:~$ kubectl apply -f pod.yaml
pod/my-pod created
ubuntu@ip-172-31-10-240:~$ kubectl get pods
NAME      READY    STATUS     RESTARTS    AGE
my-pod    1/1      Running    0           8s
ubuntu@ip-172-31-10-240:~$ kubectl describe pod my-pod
Name:             my-pod
Namespace:        default
Priority:         0
Service Account:  default
Node:             minikube/192.168.49.2
Start Time:       Fri, 02 Aug 2024 17:29:51 +0000
Labels:           <none>
Annotations:      <none>
Status:           Running
IP:               10.244.0.5
IPs:
  IP:  10.244.0.5
Containers:
  my-container:
    Container ID:   docker://50f856d4027bf3136f9d01b137bcac45869b31c35e8b15067ae478b18714b182
    Image:          nginx
```

```
ubuntu@ip-172-31-10-240:~$ vi service.yaml
ubuntu@ip-172-31-10-240:~$ kubectl apply -f service.yaml
service/my-service created
ubuntu@ip-172-31-10-240:~$ kubectl get services
NAME          TYPE         CLUSTER-IP       EXTERNAL-IP    PORT(S)     AGE
kubernetes    ClusterIP    10.96.0.1        <none>         443/TCP     34m
my-service    ClusterIP    10.104.217.183   <none>         80/TCP      10s
```

```
ubuntu@ip-172-31-10-240:~$ kubectl describe service my-service
Name:              my-service
Namespace:         default
Labels:            <none>
Annotations:       <none>
Selector:          app=my-app
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.104.217.183
IPs:               10.104.217.183
Port:              <unset>  80/TCP
TargetPort:        80/TCP
Endpoints:         <none>
Session Affinity:  None
Events:            <none>
ubuntu@ip-172-31-10-240:~$
```

```
Events:            <none>
ubuntu@ip-172-31-10-240:~$ vi deployment.yaml
ubuntu@ip-172-31-10-240:~$ kubectl apply -f deployment.yaml
deployment.apps/my-deployment created
ubuntu@ip-172-31-10-240:~$ kubectl get deployments
NAME              READY   UP-TO-DATE   AVAILABLE   AGE
my-deployment     2/2     2            2           9s
ubuntu@ip-172-31-10-240:~$ kubectl describe deployment my-deployment
Name:                   my-deployment
Namespace:              default
CreationTimestamp:      Fri, 02 Aug 2024 17:33:48 +0000
Labels:                 <none>
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=my-app
Replicas:               2 desired | 2 updated | 2 total | 2 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=my-app
  Containers:
   my-container:
    Image:              nginx
```

```
  Labels:  app=my-app
  Containers:
   my-container:
    Image:           nginx
    Port:            <none>
    Host Port:       <none>
    Environment:     <none>
    Mounts:          <none>
  Volumes:           <none>
  Node-Selectors:    <none>
  Tolerations:       <none>
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets:  <none>
NewReplicaSet:   my-deployment-5bd477d496 (2/2 replicas created)
Events:
  Type    Reason            Age   From                   Message
  ----    ------            ----  ----                   -------
  Normal  ScalingReplicaSet  34s   deployment-controller  Scaled up replica set my-deployment-5bd477d496 to 2
ubuntu@ip-172-31-10-240:~$
```

```yaml
apiVersion: v1
kind: Service
metadata:
  name: my-service
  namespace: default
spec:
  selector:
    app: my-app
  ports:
  - protocol: TCP
    port: 80
    targetPort: 80
  type: ClusterIP
```

```
~
~
~
~
~
~
~
~
~
"service.yaml" 14L, 191B
```

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
  namespace: default
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-container
        image: nginx
```

"deployment.yaml" 19L, 294B

i-0cbc683b908d3640e (taskminikube)

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: my-pod
  namespace: default
spec:
  containers:
  - name: my-container
    image: nginx
```

~
~
~
~
~
~
~
~
~
~
~
~
"pod.yaml" 10L, 132B

i-0cbc683b908d3640e (taskminikube)