metadata:

spec:

name: my-pod

containers:

ports:

- image: nginx:1.12

- containerPort: 82

name: nginx

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
apiVersion: v1
kind: Pod
metadata:
 name: my-pod
spec:
 containers:
 - image: nginx:1.12
   name: nginx
   ports:
   - containerPort: 80
                                                                                                                                   1,1
                                                                                                                                               Весь
              kubectl apply -f pod_.yaml
              kubectl get pod
              kubectl get pod my-pod
                                                         igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl apply -f pod_.yaml
pod/my-pod created
igor@ubuntu-server:~$ kubectl get pod
NAME
                                        STATUS
                                                  RESTARTS
                                                                    AGE
                                READY
database-0
                                0/1
                                        Pending
                                                  0
                                                                    128d
geekbrains-55df48c88d-klqx7
                                                  8 (44m ago)
                                1/1
                                        Running
                                                                    128d
geekbrains-55df48c88d-rz2qz
                                                  8 (44m ago)
                                1/1
                                        Running
                                                                    128d
gitlab-runner-7467648488-jmlsl
                                                  101 (2m36s ago)
                                1/1
                                        Running
                                                                    129d
my-pod
node-exporter-n5xqk
                                1/1
                                        Running
                                                  0
                                                                    16s
                                1/1
                                                  11 (44m ago)
                                                                    132d
                                        Running
                                0/1
                                        Pending
                                                  0
                                                                    133d
prometheus-0
igor@ubuntu-server:~$ kubectl get pod my-pod
NAME READY STATUS RESTARTS AGE
my-pod 1/1
                Running
                          0
                                     11m
igor@ubuntu-server:~$
```

kubectl describe pod my-pod

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl describe pod my-pod
Name:
              my-pod
Namespace:
              default
Priority:
Node:
              minikube/192.168.49.2
Start Time:
             Fri, 25 Mar 2022 18:45:18 +0000
Labels:
              <none>
Annotations: <none>
Status:
              Running
              172.17.0.13
TP:
IPs:
 IP: 172.17.0.13
Containers:
 nginx:
   Container ID:
                    docker://9b401b3cc5868d3c04d5ad73fe9ef85516eb264dc2ffa6db90b6a6e8dd6a6b5d
   Image:
                    nginx:1.12
                    docker-pullable://nginx@sha256:72daaf46f11cc753c4eab981cbf869919bd1fee3d2170a2adeac12400f494728
   Image ID:
   Port:
                    80/TCP
   Host Port:
                    0/TCP
   State:
                    Running
     Started:
                    Fri, 25 Mar 2022 18:45:19 +0000
   Ready:
                    True
   Restart Count: 0
   Environment:
                    <none>
   Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-b8dpj (ro)
Conditions:
 Type
                    Status
 Initialized
                    True
 Ready
                    True
 ContainersReady
 PodScheduled
Volumes:
 kube-api-access-b8dpj:
                             Projected (a volume that contains injected data from multiple sources)
   TokenExpirationSeconds:
                             3607
   ConfigMapName:
                             kube-root-ca.crt
   ConfigMapOptional:
                             <nil>
   DownwardAPI:
                             true
QoS Class:
                             BestEffort
Node-Selectors:
                             <none>
Tolerations:
                             node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                             node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
 Type
          Reason
                     Age
                           From
                                               Message
                           default-scheduler Successfully assigned default/my-pod to minikube Container image "nginx:1.12" already present on machine
 Normal Scheduled 13m
 Normal Pulled
                     13m
                                               Created container nginx
 Normal Created
                     13m
                           kubelet
                     13m
 Normal Started
                           kubelet
                                               Started container nginx
igor@ubuntu-server:~$
```

kubectl delete pod my-pod

kubectl describe pod my-pod

```
igor@ubuntu-server:~-Терминал

Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl delete pod my-pod
pod "my-pod" deleted
igor@ubuntu-server:~$ kubectl describe pod my-pod
Error from server (NotFound): pods "my-pod" not found
igor@ubuntu-server:~$ ■
```

```
vi replicaset_.yaml
---
apiVersion: apps/v1
```

```
kind: ReplicaSet
metadata:
  name: my-replicaset
spec:
  replicas: 2
  selector:
   matchLabels:
     app: my-app
  template:
    metadata:
     labels:
       app: my-app
    spec:
      containers:
     - image: nginx:1.12
       name: nginx
        ports:
```

- containerPort: 80

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
apiVersion: apps/vl
kind: ReplicaSet
metadata:
 name: my-replicaset
spec:
 replicas: 2
 selector:
matchLabels:
 app: my-app
template:
   metadata:
     labels:
       app: my-app
   spec:
      containers:
     - image: nginx:1.12
name: nginx
        ports:
        - containerPort: 80
:wq
               kubectl apply -f replicaset_.yaml
               kubectl get pods
                                                             igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl apply -f replicaset_.yaml
replicaset.apps/my-replicaset created
igor@ubuntu-server:~$ kubectl get pods
NAME
database-0
                                           STATUS
                                                     RESTARTS
                                  READY
                                                                        AGE
                                                                        128d
                                  0/1
                                           Pending
                                                     0
geekbrains-55df48c88d-klqx7
                                                     8 (75m ago)
                                           Running
                                  1/1
                                                                        128d
                                                     8 (75m ago)
106 (7m59s ago)
geekbrains-55df48c88d-rz2qz
                                           Running
                                  1/1
                                                                        128d
gitlab-runner-7467648488-jmlsl
                                  0/1
                                           Running
                                                                        129d
my-replicaset-47chw
my-replicaset-xqjt7
node-exporter-n5xqk
                                           Running
                                  1/1
                                                                        2m10s
                                  1/1
                                           Running
                                                                        2m10s
                                  1/1
                                           Running
                                                     11 (75m ago)
                                                                        133d
prometheus-0
                                           Pending
                                  0/1
                                                                        133d
igor@ubuntu-server:~$
```

```
vi replicaset_.yaml replicas: 3
```

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
apiVersion: apps/vl
kind: ReplicaSet
netadata:
 name: my-replicaset
  selector:
   matchLabels:
     app: my-app
  template:
   metadata:
     labels:
       app: my-app
    spec:
      containers:
      - image: nginx:1.12
       name: nginx
       ports:
        - containerPort: 80
                                                                                                                                     7,13
                                                                                                                                                  Весь
                                                          igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl describe pod my-replicaset-rcb4c
Name:
             my-replicaset-rcb4c
Namespace:
              default
Priority:
Node:
              minikube/192.168.49.2
Start Time:
              Fri, 25 Mar 2022 19:20:41 +0000
Labels:
              app=mv-app
Annotations:
             <none>
Status:
              Running
IP:
              172.17.0.15
IPs:
                172.17.0.15
Controlled By: ReplicaSet/my-replicaset
Containers:
 nginx:
   Container ID:
                    docker://587bf111ae3326d57514d30f1bd486f4bc8e33254c6dc74c4450cda39d994b2e
   Image:
   Image ID:
                    docker-pullable://nginx@sha256:72daaf46f11cc753c4eab981cbf869919bd1fee3d2170a2adeac12400f494728
   Port:
                    80/TCP
   Host Port:
                    0/TCP
   State:
                    Running
     Started:
                    Fri, 25 Mar 2022 19:20:42 +0000
   Ready:
                    True
   Restart Count:
                   0
   Environment:
                    <none>
   Mounts:
     /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-hqm6d (ro)
Conditions:
 Type
                    Status
 Initialized
                    True
 Ready
                    True
 ContainersReady
                   True
 PodScheduled
                    True
Volumes:
 kube-api-access-hqm6d:
                             Projected (a volume that contains injected data from multiple sources)
   Type:
   TokenExpirationSeconds:
                             3607
   ConfigMapName:
                             kube-root-ca.crt
   ConfigMapOptional:
                             <nil>
   DownwardAPI:
                             true
OoS Class:
                             BestEffort
Node-Selectors:
                             <none>
                             node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
Tolerations:
                             node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
 Type
         Reason
                    Age
                            From
                                               Message
         Scheduled 4m21s
                            default-scheduler Successfully assigned default/my-replicaset-rcb4c to minikube
 Normal
                                               Container image "nginx:1.12" already present on machine
 Normal
         Pulled
                     4m20s
                            kubelet
         Created
                    4m20s
                                               Created container nainx
 Normal
                            kubelet
                     4m20s
         Started
                                               Started container nginx
 Normal
                            kubelet
igor@ubuntu-server:~$
```

```
metadata:
    labels:
        app: my-app

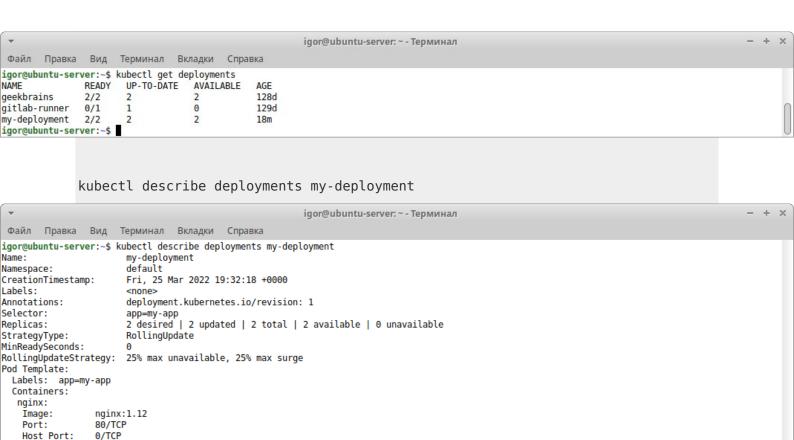
spec:
        containers:
        - image: nginx:1.12
        name: nginx
        ports:
        - containerPort: 80
```

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
apiVersion: apps/vl
kind: Deployment
netadata:
 name: my-deployment
spec:
 replicas: 2
 selector:
   matchLabels:
     app: my-app
 template:
   metadata:
     labels:
        app: my-app
      containers:
      - image: nginx:1.12
name: nginx
        - containerPort: 80
```

```
kubectl apply -f deployment_.yaml
kubectl get pods
```

```
igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl apply -f deployment_.yaml
deployment.apps/my-deployment created
igor@ubuntu-server:~$ kubectl get pods
NAME
                                 READY
                                          STATUS
                                                             RESTARTS
                                                                              AGF
database-0
                                 0/1
                                          Pending
                                                                              128d
geekbrains-55df48c88d-klqx7
                                                             8 (91m ago)
                                  1/1
                                          Running
                                                                              128d
geekbrains-55df48c88d-rz2qz
                                 1/1
                                          Running
                                                             8 (91m ago)
                                                                              128d
                                                             108 (46s ago)
gitlab-runner-7467648488-jmlsl
                                          CrashLoopBackOff
                                 0/1
                                                                              129d
my-deployment-76499ffb7-5cj6v
                                 1/1
                                          Running
                                                             0
                                                                              185
my-deployment-76499ffb7-5jcmc
                                 1/1
                                          Running
                                                             0
                                                                              185
my-replicaset-47chw
my-replicaset-rcb4c
my-replicaset-xqjt7
                                 1/1
                                                             0
                                                                              18m
                                          Running
                                                             0
                                                                              11m
                                 1/1
                                          Running
                                                             0
                                  1/1
                                          Running
                                                                              18m
node-exporter-n5xqk
                                                             11 (91m ago)
                                                                              133d
                                 1/1
                                          Running
prometheus-0
                                                                              133d
                                 0/1
                                          Pending
igor@ubuntu-server:~$
               kubectl describe pod my-deployment-76499ffb7-5cj6v
                                                           igor@ubuntu-server: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
igor@ubuntu-server:~$ kubectl describe pod my-deployment-76499ffb7-5cj6v
Name:
              my-deployment-76499ffb7-5cj6v
Namespace:
              default
Priority:
              0
Node:
              minikube/192.168.49.2
Start Time:
              Fri, 25 Mar 2022 19:32:18 +0000
Labels:
              app=my-app
              pod-template-hash=76499ffb7
Annotations:
              <none>
Status:
              Running
TP:
              172.17.0.17
IPs:
 IP:
                172.17.0.17
Controlled By: ReplicaSet/my-deployment-76499ffb7
Containers:
 nginx:
                    docker://6d68d1ed55ac8efa5a1e7c1cc367f0622a3d8feba1ad2cd8ccd62beed65d6666
   Container ID:
                    nainx:1.12
   Image:
    Image ID:
                    docker-pullable://nginx@sha256:72daaf46f11cc753c4eab981cbf869919bd1fee3d2170a2adeac12400f494728
                    80/TCP
   Port:
   Host Port:
                    0/TCP
   State:
                    Running
                    Fri, 25 Mar 2022 19:32:19 +0000
     Started:
   Readv:
                    True
   Restart Count:
                   0
   Environment:
                    <none>
   Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-7cwxn (ro)
Conditions:
 Type
                    Status
 Initialized
                    True
 Ready
                    True
 ContainersReady
                    True
 PodScheduled
Volumes:
 kube-api-access-7cwxn:
                             Projected (a volume that contains injected data from multiple sources)
   TokenExpirationSeconds:
                             3607
    ConfigMapName:
                             kube-root-ca.crt
    ConfigMapOptional:
                              <nil>
   DownwardAPI:
                             true
QoS Class:
                             BestEffort
Node-Selectors:
Tolerations:
                             node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                             node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
 Type
          Reason
                           From
                     Age
 Normal
          Scheduled 16m
                           default-scheduler Successfully assigned default/my-deployment-76499ffb7-5cj6v to minikube
 Normal
         Pulled
                     16m
                           kubelet
                                               Container image "nginx:1.12" already present on machine
 Normal
         Created
                     16m
                           kubelet
                                               Created container nginx
 Normal Started
                     16m
                           kubelet
                                               Started container nginx
```

igor@ubuntu-server:~\$



Volumes: Conditions: Type

Mounts:

Type Status Reason

<none>

<none>

Available True MinimumReplicasAvailable Progressing True NewReplicaSetAvailable

OldReplicaSets: <none>

Environment: <none>

NewReplicaSet: my-deployment-76499ffb7 (2/2 replicas created) Events:

Type Reason Age From Message

Normal ScalingReplicaSet 20m deployment-controller Scaled up replica set my-deployment-76499ffb7 to 2

igor@ubuntu-server:~\$

kubectl get pods

						igore aban	ou server.	Telementary .	
Файл	Правка	Вид	Терминал	Вкладки	1 Справка	1			
igor@ubuntu-server:~\$ kubectl get pods									
NAME				READY	STATUS	RESTARTS	AGE		
databas	e-0			0/1	Pending	0	128d		
geekbra	ins-55d	f48c88d	-klqx7	1/1	Running	8 (113m ago)	128d		
geekbra	ins-55d	f48c88d	-rz2qz	1/1	Running	8 (113m ago)	128d		
gitlab-	runner-	7467648	488-jmlsl	0/1	Running	111 (6m56s ago)	129d		
			b7-5cj6v	1/1	Running	0	22m		
my-depl	oyment-	76499ff	b7-5jcmc	1/1	Running	0	22m		
my-repl				1/1	Running	0	40m		
my-repl	icaset-	rcb4c		1/1	Running	0	33m		
my-repl	icaset-	xqjt7		1/1	Running	0	40m		
node-ex	porter-i	n5xqk		1/1	Running	11 (113m ago)	133d		
prometh	eus-0		_	0/1	Pending	0	133d		
igor@ub	untu-se	rver:~\$							U