

minikube status

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Терминал - tolstikov@my3vm: ~
Файл  Правка  Вид  Терминал  Вкладки  Справка
* Documentation: https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage
Last login: Tue Nov  9 17:06:24 2021 from 109.252.20.121
tolstikov@my3vm:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
tolstikov@my3vm:~$
```

vi daemonset1.yaml

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Терминал - tolstikov@my3vm: ~
Файл  Правка  Вид  Терминал  Вкладки  Справка
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58
1 -
2 apiVersion: apps/v1
3 kind: DaemonSet
4 metadata:
5   labels:
6     app: node-exporter
7   name: node-exporter
8 spec:
9   updateStrategy:
10    rollingUpdate:
11     maxUnavailable: 1
12    type: RollingUpdate
13   selector:
14    matchLabels:
15     app: node-exporter
16   template:
17    metadata:
18     labels:
19      app: node-exporter
20    spec:
21     containers:
22      - args:
23        - --web.listen-address=0.0.0.0:9101
24        - --path.procfs=/host/proc
25        - --path.sysfs=/host/sys
26        - --collector.filesystem.ignored-mount-points='^(dev|proc|sys|var|lib|docker|.+)$'
27        - --collector.filesystem.ignored-fs-types='^(autofs|binfmt_misc|cgroup|configs|debugfs|devpts|devtmpfs|fusectl|hugetlbfs|inqueue|overlay|proc|procfs|pstore|rpc_pipefs|securityfs|sysfs|tracefs)$'
28        image: quay.io/prometheus/node-exporter:v0.16.0
29        imagePullPolicy: IfNotPresent
30        name: node-exporter
31      volumeMounts:
32        - mountPath: /host/proc
33          name: proc
34        - mountPath: /host/sys
35          name: sys
36        - mountPath: /host/root
37          name: root
38      readOnly: true
39    hostNetwork: true
40    hostPID: true
41    tolerations:
42     - effect: NoSchedule
43       operator: Exists
44    nodeSelector:
45     beta.kubernetes.io/os: linux
46    volumes:
47     - hostPath:
48       path: /proc
49       type: '*'
50     - hostPath:
51       path: /sys
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991      type: '*'
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994      type: '*'
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1003      type: '*'
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1016     - hostPath:
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1111      type: '*'
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1114      type: '*'
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1116      path: /
1117      type: '*'
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1119      path: /
1120      type: '*'
1121     - hostPath:
1122      path: /
1123      type: '*'
1124     - hostPath:
1125      path: /
1126      type: '*'
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1128      path: /
1129      type: '*'
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1200      path: /
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1368      path: /
1369      type: '*'
1370     - hostPath:
1371      path: /
1372      type: '*'
1373     - hostPath:
1374      path: /
1375      type: '*'
1376     - hostPath:
1377      path:
```

kubectl describe daemonset node-exporter

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl describe daemonset node-exporter
Name:          node-exporter
Selector:      app=node-exporter
Node-Selector: beta.kubernetes.io/os=linux
Labels:        app=node-exporter
Annotations:   deprecated.daemonset.template.generation: 1
Desired Number of Nodes Scheduled: 1
Current Number of Nodes Scheduled: 1
Number of Nodes Scheduled with Up-to-date Pods: 1
Number of Nodes Scheduled with Available Pods: 1
Number of Nodes Misscheduled: 0
Pods Status:  1 Running / 0 Waiting / 0 Succeeded / 0 Failed
Pod Template:
  Labels:  app=node-exporter
  Containers:
    node-exporter:
      Image:      quay.io/prometheus/node-exporter:v0.16.0
      Port:       <none>
      Host Port:  <none>
      Args:
        --web.listen-address=0.0.0.0:9101
        --path.procfs=/host/proc
        --path.sysfs=/host/sys
        --collector.filesystem.ignored-mount-points=^/(dev|proc|sys|var/lib/docker/.+)($/|)
        --collector.filesystem.ignored-fs-types=^(autofs|binfmt_misc|cgroup|configfs|debugfs|devpts|devtmpfs|fusectl|hugetlbfs|mqueue|overlay|proc|procfs|pstore|rpc_pipefs|securityfs|sysfs|tracefs)$
      Environment:  <none>
      Mounts:
        /host/proc from proc (rw)
        /host/root from root (ro)
        /host/sys from sys (rw)
  Volumes:
    proc:
      Type:          HostPath (bare host directory volume)
      Path:          /proc
      HostPathType:
    sys:
      Type:          HostPath (bare host directory volume)
      Path:          /sys
      HostPathType:
    root:
      Type:          HostPath (bare host directory volume)
      Path:          /
      HostPathType:
Events:
  Type        Reason          Age   From          Message
  ----        -
  Normal      SuccessfulCreate  5m18s  daemonset-controller  Created pod: node-exporter-jq92k
tolstikov@my3vm:~$
```

vi statefulset.yaml

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

1 ---
2 apiVersion: apps/v1
3 kind: StatefulSet
4 metadata:
5   name: prometheus
6   namespace: default
7 spec:
8   serviceName: prometheus
9   replicas: 1
10  selector:
11    matchLabels:
12      app: prometheus
13  template:
14    metadata:
15      labels:
16        app: prometheus
17    spec:
18      serviceAccount: prometheus
19      terminationGracePeriodSeconds: 10
20      initContainers:
21      - image: busybox
22        name: mount-permissions-fix
23        command: [ "sh", "-c", "chmod 777 /prometheus" ]
24        volumeMounts:
25        - name: data
26          mountPath: /prometheus
27      containers:
28      - name: prometheus-k8s
29        image: prom/prometheus:v2.19.2
30        ports:
31        - protocol: TCP
32          containerPort: 9090
33        imagePullPolicy: IfNotPresent
34        volumeMounts:
35        - name: config
36          mountPath: /etc/prometheus
37        - name: data
38          mountPath: /prometheus
39      volumes:
40      - name: config
41        configMap:
42          name: prometheus-config
43      volumeClaimTemplates:
44      - metadata:
45          name: data
46        spec:
47          accessModes: [ "ReadWriteOnce" ]
48          resources:
49            requests:
50              storage: 5Gi
51          storageClassName: csi-ceph-hdd-dp1

~
:wq
```

kubectl apply -f statefulset.yaml

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl apply -f statefulset.yaml
statefulset.apps/prometheus created
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8          1/1     Running   3 (28h ago)  4d5h
balanced-5744b548b4-ld6hl         1/1     Running   3 (28h ago)  4d5h
hello-minikube-6ddfcc9757-2xc5s    1/1     Running   3 (28h ago)  4d5h
my-deployment2-76499ffb7-fb6kl     1/1     Running   3 (28h ago)  4d5h
my-deployment2-76499ffb7-xr4g7     1/1     Running   3 (28h ago)  4d5h
my-replicaset-gzcsz                1/1     Running   3 (28h ago)  4d5h
my-replicaset-wr427                1/1     Running   3 (28h ago)  4d5h
my-replicaset-zxwjs                1/1     Running   3 (28h ago)  4d5h
node-exporter-jq92k                1/1     Running   0           20m
tolstikov@my3vm:~$
```

kubectl get statefulset

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl get statefulset
NAME      READY   AGE
prometheus 0/1     4m30s
tolstikov@my3vm:~$
```

kubectl describe prometheus

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl describe prometheus
error: the server doesn't have a resource type "prometheus"
tolstikov@my3vm:~$
```

kubectl describe statefulset prometheus

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl describe statefulset prometheus
Name: prometheus
Namespace: default
CreationTimestamp: Wed, 10 Nov 2021 21:20:52 +0000
Selector: app=prometheus
Labels: <none>
Annotations: <none>
Replicas: 1 desired | 0 total
Update Strategy: RollingUpdate
Partition: 0
Pods Status: 0 Running / 0 Waiting / 0 Succeeded / 0 Failed
Pod Template:
  Labels: app=prometheus
  Service Account: prometheus
  Init Containers:
    mount-permissions-fix:
      Image: busybox
      Port: <none>
      Host Port: <none>
      Command:
        sh
        -c
        chmod 777 /prometheus
      Environment: <none>
      Mounts:
        /prometheus from data (rw)
  Containers:
    prometheus-k8s:
      Image: prom/prometheus:v2.19.2
      Port: 9090/TCP
      Host Port: 0/TCP
      Environment: <none>
      Mounts:
        /etc/prometheus from config (rw)
        /prometheus from data (rw)
  Volumes:
    config:
      Type: ConfigMap (a volume populated by a ConfigMap)
      Name: prometheus-config
      Optional: false
Volume Claims:
  Name: data
  StorageClass: csi-ceph-hdd-dp1
  Labels: <none>
  Annotations: <none>
  Capacity: 5Gi
  Access Modes: [ReadWriteOnce]
Events:
  Type      Reason              Age             From              Message
  ----      -
  Normal    SuccessfulCreate    9m7s            statefulset-controller  create Claim data-prometheus-0 Pod prometheus-0 in StatefulSet prometheus success
  Warning   FailedCreate        3m39s (x17 over 9m7s)  statefulset-controller  create Pod prometheus-0 in StatefulSet prometheus failed error: pods "prometheus-0" is forbidden: error looking up service account default/prometheus: serviceaccount "prometheus" not found
tolstikov@my3vm:~$
```

vi job2.yaml

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

1 ---
2 apiVersion: batch/v1
3 kind: Job
4 metadata:
5   name: hello
6 spec:
7   backoffLimit: 2
8   activeDeadlineSeconds: 60
9   template:
10    spec:
11     containers:
12     - name: hello
13       image: busybox
14       args:
15       - /bin/sh
16       - -c
17       - while true; do sleep 1; date; echo Hello from the Kubernetes cluster; done
18     restartPolicy: Never
:wc
```

[kubectl apply -f job2.yaml](#)

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl apply -f job2.yaml
job.batch/hello-job created
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
line 3:
E487: Argument must be positive: tabstop=0
Press ENTER or type command to continue
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8           1/1     Running   3 (28h ago) 4d5h
balanced-5744b548b4-ld6hl           1/1     Running   3 (28h ago) 4d5h
hello-minikube-6ddfcc9757-2xc5s     1/1     Running   3 (28h ago) 4d5h
my-deployment2-76499ffb7-fb6kl      1/1     Running   3 (28h ago) 4d5h
my-deployment2-76499ffb7-xr4g7      1/1     Running   3 (28h ago) 4d5h
my-replicaset-gzcsz                 1/1     Running   3 (28h ago) 4d5h
my-replicaset-wr427                 1/1     Running   3 (28h ago) 4d5h
my-replicaset-zxwjs                 1/1     Running   3 (28h ago) 4d5h
node-exporter-jq92k                 1/1     Running   0           46m
tolstikov@my3vm:~$
```

kubectl get jobs

kubectl describe job hello-job

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl get jobs
NAME          COMPLETIONS  DURATION  AGE
hello-job    0/1           2m52s     2m52s
tolstikov@my3vm:~$ kubectl describe job hello-job
Name:          hello-job
Namespace:     default
Selector:      controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
Labels:        controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
               job-name=hello-job
Annotations:    <none>
Parallelism:    1
Completions:    1
Completion Mode: NonIndexed
Start Time:     Sat, 13 Nov 2021 16:05:59 +0000
Active Deadline Seconds: 60s
Pods Statuses:  0 Running / 0 Succeeded / 0 Failed
Pod Template:
  Labels:  controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
           job-name=hello-job
  Containers:
    hello-job:
      Image:      busybox
      Port:       <none>
      Host Port:  <none>
      Args:
        /bin/sh
        -c
        while true; do sleep 1; date; echo Hello from the Kubernetes cluster; done
      Environment:  <none>
      Mounts:       <none>
      Volumes:      <none>
Events:
  Type      Reason             Age           From           Message
  ----      -
  Normal    SuccessfulCreate    3m19s         job-controller  Created pod: hello-job--
1-85rnb
  Normal    SuccessfulDelete    2m19s         job-controller  Deleted pod: hello-job--
1-85rnb
  Warning   DeadlineExceeded    2m19s (x2 over 2m19s)  job-controller  Job was active longer th
an specified deadline
tolstikov@my3vm:~$
```

kubectl get pods -all

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

my-replicaset-wr427      1/1    Running    3 (28h ago)    4d5h
my-replicaset-zxwjs      1/1    Running    3 (28h ago)    4d5h
node-exporter-jq92k      1/1    Running    0              52m
tolstikov@my3vm:~$ kubectl get pods -all
Error: unknown shorthand flag: 'a' in -all
See 'kubectl get --help' for usage.
tolstikov@my3vm:~$
```



```
tolstikov@my3vm: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
tolstikov@my3vm:~$ kubectl get pods --all-namespaces
NAMESPACE      NAME                                     READY   STATUS    RESTARTS   AGE
default        app-probe-f775c7b8f-kgrp8             1/1     Running   3 (29h ago) 4d5h
default        balanced-5744b548b4-ld6hl             1/1     Running   3 (29h ago) 4d5h
default        hello-minikube-6ddfcc9757-2xc5s       1/1     Running   3 (29h ago) 4d5h
default        my-deployment2-76499ffb7-fb6kl        1/1     Running   3 (29h ago) 4d5h
default        my-deployment2-76499ffb7-xr4g7        1/1     Running   3 (29h ago) 4d5h
default        my-replicaset-gzcsz                   1/1     Running   3 (29h ago) 4d5h
default        my-replicaset-wr427                   1/1     Running   3 (29h ago) 4d5h
default        my-replicaset-zxwjs                   1/1     Running   3 (29h ago) 4d5h
default        node-exporter-jq92k                   1/1     Running   0          73m
ingress-nginx  ingress-nginx-admission-create--1-fxdbm 0/1     Completed 0          4d10h
ingress-nginx  ingress-nginx-admission-patch--1-kx587  0/1     Completed 0          4d10h
ingress-nginx  ingress-nginx-controller-5f66978484-6g9lw 0/1     Pending    0          3d3h
ingress-nginx  ingress-nginx-controller-69bdb4d57-xwvpp 1/1     Running   4 (29h ago) 4d10h
kube-system    coredns-78fcd69978-shwdf              1/1     Running   5 (29h ago) 8d
kube-system    etcd-minikube                          1/1     Running   5 (29h ago) 8d
kube-system    kube-apiserver-minikube                 1/1     Running   5 (29h ago) 8d
kube-system    kube-controller-manager-minikube        1/1     Running   5 (29h ago) 8d
kube-system    kube-proxy-n7nf6                       1/1     Running   5 (29h ago) 8d
kube-system    kube-scheduler-minikube                 1/1     Running   5 (29h ago) 8d
kube-system    storage-provisioner                    1/1     Running   11 (29h ago) 8d
kubedoom       kubedoom-deployment-6d69946486-gwx4n    1/1     Running   3 (29h ago) 4d6h
kubedoom       kubedoom-deployment-6d69946486-zkzzv    0/1     Pending    0          4d5h
pg             app-probe-f775c7b8f-prn4r              1/1     Running   1 (29h ago) 3d3h
pg             pg-db-ff476d4cf-xkxhn                  1/1     Running   1 (29h ago) 3d4h
redmine       pg-db-56dd9b6975-5k8wL                 1/1     Running   1 (29h ago) 3d1h
redmine       redmine-app-58fc94cf66-xww6t            1/1     Running   2 (29h ago) 3d
tolstikov@my3vm:~$
```

kubectl get pods --all-namespaces

kubectl describe job hello-job

```
tolstikov@my3vm: ~ - Терминал
Файл Правка Вид Терминал Вкладки Справка
tolstikov@my3vm:~$ kubectl describe job hello-job
Name:          hello-job
Namespace:     default
Selector:      controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
Labels:        controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
               job-name=hello-job
Annotations:   <none>
Parallelism:   1
Completions:   1
Completion Mode: NonIndexed
Start Time:    Sat, 13 Nov 2021 16:05:59 +0000
Active Deadline Seconds: 60s
Pods Statuses: 0 Running / 0 Succeeded / 0 Failed
Pod Template:
  Labels:  controller-uid=3d4a6e62-4b8a-4d2f-9dae-149a68cf10ee
           job-name=hello-job
  Containers:
    hello-job:
      Image:      busybox
      Port:       <none>
      Host Port:  <none>
      Args:
        /bin/sh
        -c
        while true; do sleep 1; date; echo Hello from the Kubernetes cluster; done
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
Events:
  Type      Reason              Age          From          Message
  ----      -
  Normal    SuccessfulCreate    9m5s        job-controller Created pod: hello-job--1-85rnb
  Normal    SuccessfulDelete    8m5s        job-controller Deleted pod: hello-job--1-85rnb
  Warning   DeadlineExceeded    8m5s (x2 over 8m5s) job-controller Job was active longer than specified deadline
tolstikov@my3vm:~$
```

vi cronjob.yaml


```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
1  apiVersion: batch/v1beta1
2  kind: CronJob
3  metadata:
4    name: hello-cron-job
5  spec:
6    schedule: "*/1 * * * *"
7    concurrencyPolicy: Allow
8    jobTemplate:
9      spec:
10       backoffLimit: 2
11       activeDeadlineSeconds: 100
12       template:
13         spec:
14           containers:
15             - name: hello-cron-job
16               image: busybox
17               args:
18                 - /bin/sh
19                 - -c
20                 - date; echo Hello from the Kubernetes cluster
21       restartPolicy: Never
~
:wq
```

kubectl apply -f cronjob.yaml

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
pg      app-probe-f775c7b8f-prn4r      1/1      Running      1 (29h ago)      3d3h
pg      pg-db-ff476d4cf-xkxhn          1/1      Running      1 (29h ago)      3d4h
redmine pg-db-56dd9b6975-5k8wl        1/1      Running      1 (29h ago)      3d1h
redmine redmine-app-58fc94cf66-xww6t    1/1      Running      2 (29h ago)      3d
tolstikov@my3vm:~$ kubectl describe job hello-job
Error from server (NotFound): jobs.batch "hello-job" not found
tolstikov@my3vm:~$ vi cronjob.yaml
Error detected while processing /home/tolstikov/.vimrc:
line   3:
E487: Argument must be positive: tabstop=0
Press ENTER or type command to continue
tolstikov@my3vm:~$ kubectl apply -f cronjob.yaml
Warning: batch/v1beta1 CronJob is deprecated in v1.21+, unavailable in v1.25+; use batch/v1 CronJob
cronjob.batch/hello-cron-job created
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
cronjob.batch/hello-cron-job created
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8           1/1     Running   3 (29h ago)  4d6h
balanced-5744b548b4-ld6hl           1/1     Running   3 (29h ago)  4d6h
hello-cron-job-27276388--1-p7zfp     0/1     Completed 0           68s
hello-cron-job-27276389--1-kj9rh     0/1     Completed 0           8s
hello-minikube-6ddfcc9757-2xc5s     1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-fb6kl      1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-xr4g7      1/1     Running   3 (29h ago)  4d6h
my-replicaset-gzcsz                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-wr427                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-zxwjs                 1/1     Running   3 (29h ago)  4d6h
node-exporter-jq92k                 1/1     Running   0           87m
tolstikov@my3vm:~$
```

kubectl get cronjobs

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
app-probe-f775c7b8f-kgrp8           1/1     Running   3 (29h ago)  4d6h
balanced-5744b548b4-ld6hl           1/1     Running   3 (29h ago)  4d6h
hello-cron-job-27276388--1-p7zfp     0/1     Completed 0           68s
hello-cron-job-27276389--1-kj9rh     0/1     Completed 0           8s
hello-minikube-6ddfcc9757-2xc5s     1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-fb6kl      1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-xr4g7      1/1     Running   3 (29h ago)  4d6h
my-replicaset-gzcsz                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-wr427                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-zxwjs                 1/1     Running   3 (29h ago)  4d6h
node-exporter-jq92k                 1/1     Running   0           87m
tolstikov@my3vm:~$ kubectl get cronjobs
NAME          SCHEDULE    SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hello-cron-job */1 * * * * False     0         28s       2m45s
tolstikov@my3vm:~$
```

kubectl describe job hello-cron-job

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

Name:                hello-cron-job-27276391
Namespace:           default
Selector:             controller-uid=bdbdee1a-5460-412d-ad12-8f1af9992965
Labels:               controller-uid=bdbdee1a-5460-412d-ad12-8f1af9992965
                     job-name=hello-cron-job-27276391
Annotations:          <none>
Controlled By:        CronJob/hello-cron-job
Parallelism:          1
Completions:          1
Completion Mode:      NonIndexed
Start Time:           Wed, 10 Nov 2021 22:31:00 +0000
Completed At:         Wed, 10 Nov 2021 22:31:04 +0000
Duration:             4s
Active Deadline Seconds: 100s
Pods Statuses:        0 Running / 1 Succeeded / 0 Failed
Pod Template:
  Labels:  controller-uid=bdbdee1a-5460-412d-ad12-8f1af9992965
           job-name=hello-cron-job-27276391
  Containers:
    hello-cron-job:
      Image:      busybox
      Port:       <none>
      Host Port:  <none>
      Args:
        /bin/sh
        -c
        date; echo Hello from the Kubernetes cluster
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
Events:
  Type    Reason             Age   From           Message
  ----    -
  Normal  SuccessfulCreate    72s   job-controller  Created pod: hello-cron-job-27276391--1-rdch4
  Normal  Completed           68s   job-controller  Job completed

Name:                hello-cron-job-27276392
Namespace:           default
Selector:             controller-uid=429539a3-f0ff-45bb-9a1b-73e2c43c0a5f
Labels:               controller-uid=429539a3-f0ff-45bb-9a1b-73e2c43c0a5f
                     job-name=hello-cron-job-27276392
Annotations:          <none>
Controlled By:        CronJob/hello-cron-job
Parallelism:          1
Completions:          1
Completion Mode:      NonIndexed
Start Time:           Wed, 10 Nov 2021 22:32:00 +0000
Completed At:         Wed, 10 Nov 2021 22:32:03 +0000
Duration:             3s
Active Deadline Seconds: 100s
Pods Statuses:        0 Running / 1 Succeeded / 0 Failed
Pod Template:
  Labels:  controller-uid=429539a3-f0ff-45bb-9a1b-73e2c43c0a5f
           job-name=hello-cron-job-27276392
  Containers:
    hello-cron-job:
      Image:      busybox
      Port:       <none>
      Host Port:  <none>
      Args:
        /bin/sh
        -c
        date; echo Hello from the Kubernetes cluster
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
Events:
  Type    Reason             Age   From           Message
  ----    -
  Normal  SuccessfulCreate    12s   job-controller  Created pod: hello-cron-job-27276392--1-d8p28
  Normal  Completed           9s   job-controller  Job completed

tolstikov@my3vm:~$
```

kubectl describe cronjob hello-cron-job

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl describe cronjob hello-cron-job
Name: hello-cron-job
Namespace: default
Labels: <none>
Annotations: <none>
Schedule: */1 * * * *
Concurrency Policy: Allow
Suspend: False
Successful Job History Limit: 3
Failed Job History Limit: 1
Starting Deadline Seconds: <unset>
Selector: <unset>
Parallelism: <unset>
Completions: <unset>
Active Deadline Seconds: 100s
Pod Template:
  Labels: <none>
  Containers:
    hello-cron-job:
      Image: busybox
      Port: <none>
      Host Port: <none>
      Args:
        /bin/sh
        -c
        date; echo Hello from the Kubernetes cluster
      Environment: <none>
      Mounts: <none>
      Volumes: <none>
Last Schedule Time: Wed, 10 Nov 2021 22:34:00 +0000
Active Jobs: <none>
Events:
  Type      Reason              Age   From              Message
  ----      -
  Normal    SuccessfulCreate     6m40s cronjob-controller Created job hello-cron-job-27276388
  Normal    SawCompletedJob      6m35s cronjob-controller Saw completed job: hello-cron-job-27276388, status: Complete
  Normal    SuccessfulCreate     5m40s cronjob-controller Created job hello-cron-job-27276389
  Normal    SawCompletedJob      5m37s cronjob-controller Saw completed job: hello-cron-job-27276389, status: Complete
  Normal    SuccessfulCreate     4m40s cronjob-controller Created job hello-cron-job-27276390
  Normal    SawCompletedJob      4m37s cronjob-controller Saw completed job: hello-cron-job-27276390, status: Complete
  Normal    SuccessfulCreate     3m40s cronjob-controller Created job hello-cron-job-27276391
  Normal    SawCompletedJob      3m36s cronjob-controller Saw completed job: hello-cron-job-27276391, status: Complete
  Normal    SuccessfulDelete     3m36s cronjob-controller Deleted job hello-cron-job-27276388
  Normal    SuccessfulCreate     2m40s cronjob-controller Created job hello-cron-job-27276392
  Normal    SawCompletedJob      2m37s cronjob-controller Saw completed job: hello-cron-job-27276392, status: Complete
  Normal    SuccessfulDelete     2m37s cronjob-controller Deleted job hello-cron-job-27276389
  Normal    SuccessfulCreate     100s  cronjob-controller Created job hello-cron-job-27276393
  Normal    SawCompletedJob      96s   cronjob-controller Saw completed job: hello-cron-job-27276393, status: Complete
  Normal    SuccessfulDelete     96s   cronjob-controller Deleted job hello-cron-job-27276390
  Normal    SuccessfulCreate     40s   cronjob-controller Created job hello-cron-job-27276394
  Normal    SawCompletedJob      37s   cronjob-controller Saw completed job: hello-cron-job-27276394, status: Complete
  Normal    SuccessfulDelete     37s   cronjob-controller Deleted job hello-cron-job-27276391
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8           1/1     Running   3 (29h ago)  4d6h
balanced-5744b548b4-ld6hl           1/1     Running   3 (29h ago)  4d6h
hello-cron-job-27276394--1-pnv84     0/1     Completed 0           2m37s
hello-cron-job-27276395--1-jncnr     0/1     Completed 0           97s
hello-cron-job-27276396--1-rprzs     0/1     Completed 0           37s
hello-minikube-6ddfcc9757-2xc5s     1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-fb6kl      1/1     Running   3 (29h ago)  4d6h
my-deployment2-76499ffb7-xr4g7      1/1     Running   3 (29h ago)  4d6h
my-replicaset-gzcsz                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-wr427                 1/1     Running   3 (29h ago)  4d6h
my-replicaset-zxwjs                 1/1     Running   3 (29h ago)  4d6h
node-exporter-jq92k                 1/1     Running   0           95m
tolstikov@my3vm:~$
```

kubectl get jobs

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl get jobs
NAME                                COMPLETIONS  DURATION  AGE
hello-cron-job-27276395             1/1           4s        2m51s
hello-cron-job-27276396             1/1           3s        111s
hello-cron-job-27276397             1/1           3s        51s
tolstikov@my3vm:~$
```

kubectl get cronjobs

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
hello-cron-job-27276396             1/1           3s        111s
hello-cron-job-27276397             1/1           3s        51s
tolstikov@my3vm:~$ kubectl get cronjobs
NAME          SCHEDULE      SUSPEND  ACTIVE  LAST SCHEDULE  AGE
hello-cron-job  */1 * * * *  False    0       60s          11m
tolstikov@my3vm:~$
```

kubectl delete cronjob hello-cron-job

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
hello-cron-job  */1 * * * *  False    0       60s          11m
tolstikov@my3vm:~$ kubectl delete cronjob
error: resource(s) were provided, but no name was specified
tolstikov@my3vm:~$ kubectl delete cronjob hello-cron-job
cronjob.batch "hello-cron-job" deleted
tolstikov@my3vm:~$
```

vi php-apache.yaml

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   name: php-apache-hps
5 spec:
6   selector:
7     matchLabels:
8       run: php-apache
9   replicas: 1
10  template:
11    metadata:
12      labels:
13        run: php-apache-hps
14    spec:
15      containers:
16        - name: php-apache-hps
17          image: k8s.gcr.io/hpa-example
18          ports:
19            - containerPort: 80
20          resources:
21            limits:
22              cpu: 500m
23            requests:
24              cpu: 200m
25  ---
26 apiVersion: v1
27 kind: Service
28 metadata:
29   name: php-apache-hps
30   labels:
31     run: php-apache-hps
32 spec:
33   ports:
34     - port: 80
35   selector:
36     run: php-apache-hps
~
1,1 All
```

kubectl apply -f php-apache.yaml


```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

E487: Argument must be positive: tabstop=0
Press ENTER or type command to continue
tolstikov@my3vm:~$ vi php-apache.yaml
Error detected while processing /home/tolstikov/.vimrc:
line 3:
E487: Argument must be positive: tabstop=0
Press ENTER or type command to continue
tolstikov@my3vm:~$ kubectl apply -f php-apache.yaml
service/php-apache-hps created
The Deployment "php-apache-hps" is invalid: spec.template.metadata.labels: Invalid value: map[string]string{"run":"php-apache-hps"}: `selector` does not match template `labels`
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8          1/1     Running   3 (2d ago)  5d1h
balanced-5744b548b4-ld6hl         1/1     Running   3 (2d ago)  5d1h
hello-minikube-6ddfcc9757-2xc5s   1/1     Running   3 (2d ago)  5d1h
my-deployment2-76499ffb7-fb6kl     1/1     Running   3 (2d ago)  5d1h
my-deployment2-76499ffb7-xr4g7     1/1     Running   3 (2d ago)  5d1h
my-replicaset-gzcsz               1/1     Running   3 (2d ago)  5d1h
my-replicaset-wr427               1/1     Running   3 (2d ago)  5d1h
my-replicaset-zxwjs               1/1     Running   3 (2d ago)  5d1h
node-exporter-jq92k                1/1     Running   0           20h
tolstikov@my3vm:~$
```

kubectl describe pod

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

HostPathType:
root:
  Type:          HostPath (bare host directory volume)
  Path:          /
  HostPathType:
kube-api-access-szg5w:
  Type:          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:  beta.kubernetes.io/os=linux
Tolerations:     :NoSchedule op=Exists
                 node.kubernetes.io/disk-pressure:NoSchedule op=Exists
                 node.kubernetes.io/memory-pressure:NoSchedule op=Exists
                 node.kubernetes.io/network-unavailable:NoSchedule op=Exists
                 node.kubernetes.io/not-ready:NoExecute op=Exists
                 node.kubernetes.io/pid-pressure:NoSchedule op=Exists
                 node.kubernetes.io/unreachable:NoExecute op=Exists
                 node.kubernetes.io/unschedulable:NoSchedule op=Exists
Events:          <none>
tolstikov@my3vm:~$
```

kubectl get pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
app-probe-f775c7b8f-kgrp8          1/1     Running   3 (2d ago)  5d1h
balanced-5744b548b4-ld6hl         1/1     Running   3 (2d ago)  5d1h
hello-minikube-6ddfcc9757-2xc5s   1/1     Running   3 (2d ago)  5d1h
my-deployment2-76499ffb7-fb6kl     1/1     Running   3 (2d ago)  5d1h
my-deployment2-76499ffb7-xr4g7     1/1     Running   3 (2d ago)  5d1h
my-replicaset-gzcsz               1/1     Running   3 (2d ago)  5d1h
my-replicaset-wr427               1/1     Running   3 (2d ago)  5d1h
my-replicaset-zxwjs               1/1     Running   3 (2d ago)  5d1h
node-exporter-jq92k                1/1     Running   0           20h
tolstikov@my3vm:~$
```

kubectl delete pod app-probe-f775c7b8f-kgrp8

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
app-probe-f775c7b8f-kgrp8      1/1    Running  3 (2d ago)  5d1h
balanced-5744b548b4-ld6hl     1/1    Running  3 (2d ago)  5d1h
hello-minikube-6ddfcc9757-2xc5s 1/1    Running  3 (2d ago)  5d1h
my-deployment2-76499ffb7-fb6kl 1/1    Running  3 (2d ago)  5d1h
my-deployment2-76499ffb7-xr4g7 1/1    Running  3 (2d ago)  5d1h
my-replicaset-gzcsz           1/1    Running  3 (2d ago)  5d1h
my-replicaset-wr427           1/1    Running  3 (2d ago)  5d1h
my-replicaset-zxwjs           1/1    Running  3 (2d ago)  5d1h
node-exporter-jq92k           1/1    Running  0           20h
tolstikov@my3vm:~$ kubectl delete pod app-probe-f775c7b8f-kgrp8
kubectl: command not found
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
my-deployment2-76499ffb7-xr4g7 1/1    Running  3 (2d ago)  5d1h
my-replicaset-gzcsz           1/1    Running  3 (2d ago)  5d1h
my-replicaset-wr427           1/1    Running  3 (2d ago)  5d1h
my-replicaset-zxwjs           1/1    Running  3 (2d ago)  5d1h
node-exporter-jq92k           1/1    Running  0           20h
tolstikov@my3vm:~$ kubectl delete pod app-probe-f775c7b8f-kgrp8
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod balanced-5744b548b4-ld6hl
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod ^C
tolstikov@my3vm:~$ kubectl delete pod hello-minikube-6ddfcc9757-2xc5s
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod my-deployment2-76499ffb7-fb6kl
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod my-deployment2-76499ffb7-xr4g7
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod my-replicaset-gzcsz
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod my-replicaset-wr427
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete pod my-replicaset-zxwjs
kubectl: command not found
```

kubectl get replicaset

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка
tolstikov@my3vm:~$ kubectl get replicaset
NAME                                DESIRED  CURRENT  READY  AGE
app-probe-f775c7b8f                1        1        1      5d7h
balanced-5744b548b4                1        1        1      5d4h
hello-minikube-6ddfcc9757          1        1        1       8d
my-deployment2-76499ffb7            2        2        2     6d10h
my-replicaset                       3        3        3     6d11h
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

app-probe-f775c7b8f      1      1      1      5d7h
balanced-5744b548b4     1      1      1      5d4h
hello-minikube-6ddfcc9757 1      1      1      8d
my-deployment2-76499ffb7 2      2      2      6d10h
my-replicaset           3      3      3      6d11h
tolstikov@my3vm:~$ kubectl delete hello-minikube-6ddfcc9757
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete balanced-5744b548b4
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete app-probe-f775c7b8f
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete my-deployment2-76499ffb7
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete my-replicaset
kubectl: command not found
tolstikov@my3vm:~$ kubectl delete replicaset app-probe-f775c7b8f
replicaset.apps "app-probe-f775c7b8f" deleted
tolstikov@my3vm:~$ kubectl delete replicaset balanced-5744b548b4
replicaset.apps "balanced-5744b548b4" deleted
tolstikov@my3vm:~$ kubectl delete replicaset hello-minikube-6ddfcc9757
replicaset.apps "hello-minikube-6ddfcc9757" deleted
tolstikov@my3vm:~$ kubectl delete replicaset my-deployment2-76499ffb7
replicaset.apps "my-deployment2-76499ffb7" deleted
tolstikov@my3vm:~$ kubectl delete replicaset my-replicaset
replicaset.apps "my-replicaset" deleted
tolstikov@my3vm:~$
```

kubectl get deployments

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

replicaset.apps "app-probe-f775c7b8f" deleted
tolstikov@my3vm:~$ kubectl delete replicaset balanced-5744b548b4
replicaset.apps "balanced-5744b548b4" deleted
tolstikov@my3vm:~$ kubectl delete replicaset hello-minikube-6ddfcc9757
replicaset.apps "hello-minikube-6ddfcc9757" deleted
tolstikov@my3vm:~$ kubectl delete replicaset my-deployment2-76499ffb7
replicaset.apps "my-deployment2-76499ffb7" deleted
tolstikov@my3vm:~$ kubectl delete replicaset my-replicaset
replicaset.apps "my-replicaset" deleted
tolstikov@my3vm:~$ kubectl get replicaset
NAME                DESIRED    CURRENT    READY    AGE
app-probe-f775c7b8f 1           1          1        94s
balanced-5744b548b4 1           1          1        79s
hello-minikube-6ddfcc9757 1         1          1        52s
my-deployment2-76499ffb7 2           2          2        39s
tolstikov@my3vm:~$ kubectl get deployments
NAME                READY      UP-TO-DATE    AVAILABLE    AGE
app-probe          1/1        1             1            5d7h
balanced           1/1        1             1            5d4h
hello-minikube     1/1        1             1            8d
my-deployment2     2/2        2             2            6d10h
tolstikov@my3vm:~$
```



```
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Файл  Правка  Вид  Терминал  Вкладки  Справка

replicaset.apps "my-replicaset" deleted
tolstikov@my3vm:~$ kubectl get replicaset
NAME                                DESIRED  CURRENT  READY  AGE
app-probe-f775c7b8f                 1        1        1      94s
balanced-5744b548b4                 1        1        1      79s
hello-minikube-6ddfcc9757           1        1        1      52s
my-deployment2-76499ffb7             2        2        2      39s
tolstikov@my3vm:~$ kubectl get deployments
NAME                                READY    UP-TO-DATE  AVAILABLE  AGE
app-probe                           1/1      1           1           5d7h
balanced                            1/1      1           1           5d4h
hello-minikube                      1/1      1           1           8d
my-deployment2                      2/2      2           2           6d10h
tolstikov@my3vm:~$ kubectl delete deployment app-probe
deployment.apps "app-probe" deleted
tolstikov@my3vm:~$ kubectl delete deployment balanced
deployment.apps "balanced" deleted
tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

NAME                                DESIRED  CURRENT  READY  AGE
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balanced-5744b548b4                 1        1        1      79s
hello-minikube-6ddfcc9757           1        1        1      52s
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NAME                                READY    UP-TO-DATE  AVAILABLE  AGE
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balanced                            1/1      1           1           5d4h
hello-minikube                      1/1      1           1           8d
my-deployment2                      2/2      2           2           6d10h
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deployment.apps "app-probe" deleted
tolstikov@my3vm:~$ kubectl delete deployment balanced
deployment.apps "balanced" deleted
tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

balanced-5744b548b4      1      1      1      79s
hello-minikube-6ddfcc9757 1      1      1      52s
my-deployment2-76499ffb7  2      2      2      39s
tolstikov@my3vm:~$ kubectl get deployments
NAME                READY    UP-TO-DATE    AVAILABLE    AGE
app-probe            1/1      1             1            5d7h
balanced             1/1      1             1            5d4h
hello-minikube       1/1      1             1            8d
my-deployment2       2/2      2             2            6d10h
tolstikov@my3vm:~$ kubectl delete deployment app-probe
deployment.apps "app-probe" deleted
tolstikov@my3vm:~$ kubectl delete deployment balanced
deployment.apps "balanced" deleted
tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
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tolstikov@my3vm:~$
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Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl get deployments
NAME                READY    UP-TO-DATE    AVAILABLE    AGE
app-probe            1/1      1             1            5d7h
balanced             1/1      1             1            5d4h
hello-minikube       1/1      1             1            8d
my-deployment2       2/2      2             2            6d10h
tolstikov@my3vm:~$ kubectl delete deployment app-probe
deployment.apps "app-probe" deleted
tolstikov@my3vm:~$ kubectl delete deployment balanced
deployment.apps "balanced" deleted
tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get replicaset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
NAME                READY    STATUS    RESTARTS    AGE
node-exporter-jq92k 1/1      Running   0           21h
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

app-probe      1/1    1      1      5d7h
balanced      1/1    1      1      5d4h
hello-minikube 1/1    1      1      8d
my-deployment2 2/2    2      2      6d10h
tolstikov@my3vm:~$ kubectl delete deployment app-probe
deployment.apps "app-probe" deleted
tolstikov@my3vm:~$ kubectl delete deployment balanced
deployment.apps "balanced" deleted
tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get replicaset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
node-exporter-jq92k                1/1     Running   0           21h
tolstikov@my3vm:~$ kubectl delete pods node-exporter-jq92k
pod "node-exporter-jq92k" deleted
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get replicaset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
node-exporter-jq92k                1/1     Running   0           21h
tolstikov@my3vm:~$ kubectl delete pods node-exporter-jq92k
pod "node-exporter-jq92k" deleted
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
node-exporter-hwkqq                1/1     Running   0           49s
tolstikov@my3vm:~$ kubectl get daemonset
NAME                                DESIRED   CURRENT   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
node-exporter                      1         1         1             1           beta.kubernetes.io/os=linux  21h
tolstikov@my3vm:~$ kubectl delete daemonset node-exporter
daemonset.apps "node-exporter" deleted
tolstikov@my3vm:~$
```

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl delete deployment my-deployment2
deployment.apps "my-deployment2" deleted
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get replicaset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
node-exporter-jq92k                1/1     Running   0           21h
tolstikov@my3vm:~$ kubectl delete pods node-exporter-jq92k
pod "node-exporter-jq92k" deleted
tolstikov@my3vm:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
node-exporter-hwkqq                1/1     Running   0           49s
tolstikov@my3vm:~$ kubectl get daemonset
NAME                                DESIRED   CURRENT   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
node-exporter                      1         1         1             1           beta.kubernetes.io/os=linux  21h
tolstikov@my3vm:~$ kubectl delete daemonset node-exporter
daemonset.apps "node-exporter" deleted
tolstikov@my3vm:~$ kubectl get daemonset
No resources found in default namespace.
tolstikov@my3vm:~$
```

kubectl top pods

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

tolstikov@my3vm:~$ kubectl delete pods node-exporter-jq92k
pod "node-exporter-jq92k" deleted
tolstikov@my3vm:~$ kubectl get pods
NAME                READY   STATUS    RESTARTS   AGE
node-exporter-hwkqq  1/1     Running   0           49s
tolstikov@my3vm:~$ kubectl get daemonset
NAME                DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
node-exporter       1         1         1       1             1           beta.kubernetes.io/os=linux  21h
tolstikov@my3vm:~$ kubectl delete daemonset node-exporter
daemonset.apps "node-exporter" deleted
tolstikov@my3vm:~$ kubectl get daemonset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl top pods
error: Metrics API not available
tolstikov@my3vm:~$
```

kubectl autoscale deployment php-apache-hps --cpu-percent=50 --min=1 --max=5

```
tolstikov@my3vm: ~ - Терминал
Файл  Правка  Вид  Терминал  Вкладки  Справка

node-exporter 1 1 1 1 1 beta.kubernetes.io/os=linux 21h
tolstikov@my3vm:~$ kubectl delete daemonset node-exporter
daemonset.apps "node-exporter" deleted
tolstikov@my3vm:~$ kubectl get daemonset
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl get pods
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl top pods
error: Metrics API not available
tolstikov@my3vm:~$ kubectl get deployments
No resources found in default namespace.
tolstikov@my3vm:~$ kubectl autoscale deployment php-apache-hps --cpu-percent=50 --min=1 --max=5
Error from server (NotFound): deployments.apps "php-apache-hps" not found
Error from server (NotFound): deployments.apps "-" not found
Error from server (NotFound): deployments.apps "cpu-percent=50" not found
Error from server (NotFound): deployments.apps "--min=1" not found
tolstikov@my3vm:~$
```