

Д35

Установка minikube

```
sosiskabavarskaya@olegpc:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 99.0M 100 99.0M 0 0 27.9M 0 0:00:03 0:00:03 --:--:-- 27.9M
sosiskabavarskaya@olegpc:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
[sudo] password for sosiskabavarskaya:
sosiskabavarskaya@olegpc:~$ minikube start
🐳 minikube v1.34.0 on Ubuntu 22.04 (amd64)
💡 Unable to pick a default driver. Here is what was considered, in preference order:
• docker: Not healthy: "docker version --format {{.Server.Os}}-{{.Server.Version}}:{{.Server.Platform.Name}}" exit status 1:
• docker: Suggestion: <https://minikube.sigs.k8s.io/docs/drivers/docker/>
💡 Alternatively you could install one of these drivers:
• kvm2: Not installed: exec: "virsh": executable file not found in $PATH
• podman: Not installed: exec: "podman": executable file not found in $PATH
• qemu2: Not installed: exec: "qemu-system-x86_64": executable file not found in $PATH
• virtualbox: Not installed: unable to find VBoxManage in $PATH

❌ Exiting due to DRV_NOT_HEALTHY: Found driver(s) but none were healthy. See above for suggestions how to fix installed drivers.

sosiskabavarskaya@olegpc:~$ minikube start
🐳 minikube v1.34.0 on Ubuntu 22.04 (amd64)
🔧 Automatically selected the docker driver. Other choices: ssh, none
👉 Using Docker driver with root privileges
💡 For an improved experience it's recommended to use Docker Engine instead of Docker Desktop.
📋 Docker Engine installation instructions: https://docs.docker.com/engine/install/#server
🔥 Starting "minikube" primary control-plane node in "minikube" cluster
📦 Pulling base image v0.0.45 ...
📥 Downloading Kubernetes v1.31.0 preload ...
> preloaded-images-k8s-v18-v1...: 326.69 MiB / 326.69 MiB 100.00% 26.95 M
> gcr.io/k8s-minikube/kicbase...: 487.89 MiB / 487.90 MiB 100.00% 33.96 M
🔥 Creating docker container (CPUs=2, Memory=3900MB) ...
📦 Preparing Kubernetes v1.31.0 on Docker 27.2.0 ...
• 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

! /usr/local/bin/kubectl is version 1.29.2, which may have incompatibilities with Kubernetes 1.31.0.
• Want kubectl v1.31.0? Try 'minikube kubectl -- get pods -A'
👉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

sosiskabavarskaya@olegpc:~$ cd repos/
sosiskabavarskaya@olegpc:~/repos$ ls
archive130624.zip archive130624.zip:Zone.Identifier bdipuus_front_app frontend.zip frontend.zip:Zone.Identifier local_repo pd
sosiskabavarskaya@olegpc:~/repos$ mkdir kubernetes_example
sosiskabavarskaya@olegpc:~/repos$ cd kubernetes_example/
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$ touch nginx-deployment.yaml
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$ nano nginx-deployment.yaml
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$ kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$ kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-deployment 3/3 3 3 13s
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-54b9c68f67-h7slw 1/1 Running 0 19s
nginx-deployment-54b9c68f67-t8m8z 1/1 Running 0 19s
nginx-deployment-54b9c68f67-x5vjp 1/1 Running 0 19s
sosiskabavarskaya@olegpc:~/repos/kubernetes_example$
```

Также применение деплоймента.

yaml файл:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
```

```
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
```