

Task 1.1


The screenshot shows the Kubernetes Dashboard interface. The top navigation bar includes the Kubernetes logo, a dropdown menu set to 'default', and a search bar. The main content area is divided into a left sidebar and a right pane. The sidebar lists various Kubernetes resources under categories like Workloads, Service, Config and Storage, Cluster, and Nodes. The right pane is currently empty, displaying a message: 'There is nothing to see here. You can [deploy a containerized app](#), select other namespaces, or view the cluster status.

Below the main dashboard, a separate section titled 'Cluster > Namespaces' is shown. It features a sidebar with a list of resources and a main table titled 'Namespaces'.

Name	Labels
kubernetes-dashboard	kubernetes.io/metadata.name: kubernetes-dashboard
default	kubernetes.io/metadata.name: default
kube-node-lease	kubernetes.io/metadata.name: kube-node-lease
kube-public	kubernetes.io/metadata.name: kube-public
kube-system	kubernetes.io/metadata.name: kube-system

Task 1.2

```
PS C:\Windows\system32> kubectl get pods
NAME    READY   STATUS    RESTARTS   AGE
web     1/1     Running   0           26s
PS C:\Windows\system32>
```

Workloads > Pods										
Pods										
Name	Namespace	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created	
 web	default	nginx:latest	run: web	minikube	Running	0	-	-	a minute ago	

```

PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1> kubectl apply -f pod.yaml
pod/nginx created
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1> kubectl apply -f rs.yaml
replicaset.apps/webreplica created
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1> kubectl get pod
NAME          READY   STATUS             RESTARTS   AGE
nginx         1/1    Running            0          7s
web           1/1    Running            0          19m
webreplica-mm4m9 0/1    ContainerCreating  0          3s
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1> kubectl get pod
NAME          READY   STATUS             RESTARTS   AGE
nginx         1/1    Running            0          10s
web           1/1    Running            0          19m
webreplica-mm4m9 1/1    Running            0          6s
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1>

```

HW

```
---
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  labels:
    app: nginx
  name: nginx
spec:
  replicas: 2
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - image: nginx:latest
        name: nginx
        ports:
        - containerPort: 80
```

```
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1> kubectl apply -f .\NGINX.YML
replicaset.apps/nginx created
PS C:\Users\Alex\Desktop\EPAM\K8\education-main\task_1>
```

Pods									
Name	Namespace	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
nginx-qftzf	default	nginx:latest	app: nginx	minikube	Running	0	-	-	35 seconds ago
nginx-vqq8h	default	nginx:latest	app: nginx	minikube	Running	0	-	-	35 seconds ago

Pods									
Name	Namespace	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
nginx-qftzf	default	nginx:latest	app: nginx	minikube	Running	0	-	-	59 seconds ago
nginx-vqq8h	default	nginx:latest	app: nginx	minikube	Running	0	-	-	59 seconds ago







Delete a resource

Are you sure you want to delete pod `nginx-vqq8h` in namespace `default`?

This action is equivalent to: `kubectl delete -n default pod nginx-vqq8h`

[Delete](#) [Cancel](#)

После удаления Pods создается аналогичный, но с иным названием

Pods											
	Name	Namespace	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created 	
	nginx-8k4qs	default	nginx:latest	app: nginx	minikube	ContainerCr	0	-	-	6.seconds.ago	
	nginx-qftzf	default	nginx:latest	app: nginx	minikube	Running	0	-	-	a.minute.ago	