# Deployment Creation

1. Create a deployment using deploy/nginx-deploy.yaml.
2. Investigate created ReplicaSet:
3. Put attention on the ReplicaSet name. What is its suffix? Is it the same 66b6c48dd5? Why?
4. What labels does it have?
5. Investigate created Pods:
6. What suffixes do they have?
7. What labels do they have?
8. Don’t delete the deployment.

## Solution

1. Create a deployment using deploy/nginx-deploy.yaml.

$ kubectl create -f deploy/nginx-deploy.yaml  
deployment.apps/nginx-deployment created

1. Investigate created ReplicaSet:

$ kubectl get rs --show-labels -o wide  
NAME DESIRED CURRENT READY AGE CONTAINERS IMAGES SELECTOR LABELS  
nginx-deployment-66b6c48dd5 3 3 3 37s nginx nginx:1.14.2 app=nginx,pod-template-hash=66b6c48dd5 app=nginx,pod-template-hash=66b6c48dd5

1. Put attention on the ReplicaSet name. What is its suffix? Is it the same 66b6c48dd5? Why?

The suffix is the same because the Pod template the same.

1. What labels does it have?

ReplicaSet has labels app=nginx,pod-template-hash=66b6c48dd5.

1. Investigate created Pods:

$ kubectl get pod --show-labels  
NAME READY STATUS RESTARTS AGE LABELS  
nginx-deployment-66b6c48dd5-jfmvk 1/1 Running 0 49s app=nginx,pod-template-hash=66b6c48dd5  
nginx-deployment-66b6c48dd5-lqqsb 1/1 Running 0 49s app=nginx,pod-template-hash=66b6c48dd5  
nginx-deployment-66b6c48dd5-xr95j 1/1 Running 0 49s app=nginx,pod-template-hash=66b6c48dd5

1. What suffixes do they have?

Pod name consists of two parts:

* nginx-deployment-66b6c48dd5 is ReplicaSet’s name
* -jfmvk is random string

1. What labels do they have?

Pods have labels app=nginx,pod-template-hash=66b6c48dd5 as ReplicaSet’s selector (see above).