# ReplicaSet Creation

1. Create a ReplicaSet using rs/frontend-rs.yaml.
2. Get list of ReplicaSets and Pods.
3. Delete Pod and check that new one has been created.
4. Delete the ReplicaSet.

## Solution

1. Create a ReplicaSet using rs/frontend-rs.yaml.

$ kubectl create -f rs/frontend-rs.yaml  
replicaset.apps/frontend created

1. Get list of ReplicaSets and Pods.

$ kubectl get rs  
NAME DESIRED CURRENT READY AGE  
frontend 3 3 0 34s  
  
$ kubectl get pods --show-labels  
NAME READY STATUS RESTARTS AGE LABELS  
frontend-bnphc 1/1 Running 0 44s tier=frontend  
frontend-dfwml 1/1 Running 0 44s tier=frontend  
frontend-pgtlr 1/1 Running 0 44s tier=frontend

1. Delete Pod and check that new one has been created.

$ kubectl delete pod frontend-bnphc  
pod "frontend-bnphc" deleted  
  
$ kubectl get pods --show-labels  
NAME READY STATUS RESTARTS AGE LABELS  
frontend-dfwml 1/1 Running 0 84s tier=frontend  
frontend-pgtlr 1/1 Running 0 84s tier=frontend  
frontend-qtcqs 1/1 Running 0 15s tier=frontend

New pod frontend-qtcqs was created.

1. Delete the ReplicaSet.

$ kubectl delete rs frontend  
replicaset.apps "frontend" deleted  
  
$ kubectl get pods --show-labels  
NAME READY STATUS RESTARTS AGE LABELS  
frontend-dfwml 0/1 Terminating 0 2m23s tier=frontend  
frontend-pgtlr 0/1 Terminating 0 2m23s tier=frontend  
frontend-qtcqs 0/1 Terminating 0 74s tier=frontend  
  
$ kubectl get pods --show-labels  
No resources found in msuslov namespace.