# Secret Creation

1. Create a secret imperatively with the following parameters: name=myuser, pass=mypass
2. Check the secret’s content
3. Decode the secret password

$ echo 'base64 value' | base64 --decode

1. Encode the value mynewpass using base64 algorithm.
2. Update password with the new decoded value

$ kubectl edit secret <secret-name>

1. Check the secret’s content
2. Decode the secret password again

## Solution

1. Create a secret imperatively with the following parameters: name=myuser, pass=mypass

$ kubectl create secret generic mysecret --from-literal=name=myuser --from-literal=pass=mypass  
secret/mysecret created

1. Check the secret’s content

$ kubectl describe secret mysecret  
Name: mysecret  
Namespace: msuslov  
Labels: <none>  
Annotations: <none>  
  
Type: Opaque  
  
Data  
====  
pass: 6 bytes  
name: 6 bytes  
  
$ kubectl get secret mysecret -o yaml  
apiVersion: v1  
data:  
 name: bXl1c2Vy  
 pass: bXlwYXNz  
kind: Secret  
metadata:  
 creationTimestamp: "2021-06-14T04:20:04Z"  
 name: mysecret  
 namespace: msuslov  
 resourceVersion: "45750"  
 uid: 979348a4-4480-42b9-b599-7c5e5157c5ee  
type: Opaque

1. Decode the secret password

$ echo bXl1c2Vy | base64 --decode  
myuser  
  
$ echo bXlwYXNz | base64 --decode  
mypass

1. Encode the value mynewpass using base64 algorithm.

$ echo mynewpass | base64  
bXluZXdwYXNzCg==

1. Update password with the new decoded value

$ kubectl edit secret mysecret  
secret/mysecret edited

1. Check the secret’s content

$ kubectl get secret mysecret -o yaml  
apiVersion: v1  
data:  
 name: bXl1c2Vy  
 pass: bXluZXdwYXNzCg==  
kind: Secret  
metadata:  
 creationTimestamp: "2021-06-14T04:20:04Z"  
 name: mysecret  
 namespace: msuslov  
 resourceVersion: "45944"  
 uid: 979348a4-4480-42b9-b599-7c5e5157c5ee  
type: Opaque  
  
$ kubectl get secret mysecret -o yaml | yq e .data.pass -  
bXluZXdwYXNzCg==

1. Decode the secret password again

$ kubectl get secret mysecret -o yaml | yq e .data.pass - | base64 --decode  
mynewpass

Clean up:

$ kubectl delete secret mysecret