

# HW\_3 solution

## subtask 1

First I ran `helm install` to deploy applications with default helm variables. Then I uninstalled this release using `helm uninstall` command.

Then I created new release with `helm install` again but with namespace and replica count set to non-default values. Then I ran `helm upgrade` to set new replica count.

```
[robertgazizov@MacBook-Air-Robert mychart % helm install my-release .
NAME: my-release
LAST DEPLOYED: Fri Dec 1 14:11:50 2023
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
[robertgazizov@MacBook-Air-Robert mychart % kubectl get pod -n my
NAME                                READY   STATUS    RESTARTS   AGE
resource-db-statefulset-0           1/1     Running   0           4m20s
resource-service-deployment-55f894bb4b-2tzgs  1/1     Running   0           4m20s
resource-service-deployment-55f894bb4b-g225l  1/1     Running   0           4m20s
song-db-statefulset-0               1/1     Running   0           4m20s
song-service-deployment-c95b954bb-hszfh    1/1     Running   2 (3m53s ago)  4m20s
song-service-deployment-c95b954bb-p4tqp    1/1     Running   2 (3m53s ago)  4m20s
[robertgazizov@MacBook-Air-Robert mychart % helm uninstall my-release
release "my-release" uninstalled
[robertgazizov@MacBook-Air-Robert mychart % helm install my-release --set namespace_name=abc --set replica_count.resource_service_pod=3 .
NAME: my-release
LAST DEPLOYED: Fri Dec 1 14:31:34 2023
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
[robertgazizov@MacBook-Air-Robert mychart % kubectl get pod -n abc
NAME                                READY   STATUS    RESTARTS   AGE
resource-db-statefulset-0           1/1     Running   0           7m31s
resource-service-deployment-55f894bb4b-28hrp  1/1     Running   2 (6m59s ago)  7m31s
resource-service-deployment-55f894bb4b-5hsdn  1/1     Running   2 (7m6s ago)   7m31s
resource-service-deployment-55f894bb4b-9ft7x  1/1     Running   2 (7m1s ago)   7m31s
song-db-statefulset-0               1/1     Running   0           7m31s
song-service-deployment-c95b954bb-2jzf5     1/1     Running   2 (7m10s ago)  7m31s
song-service-deployment-c95b954bb-8xdst     1/1     Running   2 (7m10s ago)  7m31s
[robertgazizov@MacBook-Air-Robert mychart % helm upgrade my-release --set namespace_name=abc --set replica_count.resource_service_pod=2 .
Release "my-release" has been upgraded. Happy Helming!
NAME: my-release
LAST DEPLOYED: Fri Dec 1 14:43:26 2023
NAMESPACE: default
STATUS: deployed
REVISION: 5
TEST SUITE: None
[robertgazizov@MacBook-Air-Robert mychart % kubectl get pod -n abc
NAME                                READY   STATUS    RESTARTS   AGE
resource-db-statefulset-0           1/1     Running   0           12m
resource-service-deployment-55f894bb4b-28hrp  1/1     Running   2 (11m ago)   12m
resource-service-deployment-55f894bb4b-5hsdn  1/1     Running   2 (11m ago)   12m
song-db-statefulset-0               1/1     Running   0           12m
song-service-deployment-c95b954bb-2jzf5     1/1     Running   2 (11m ago)   12m
song-service-deployment-c95b954bb-8xdst     1/1     Running   2 (11m ago)   12m
[robertgazizov@MacBook-Air-Robert mychart % ]
```

## subtask 2

I've defined named template in `_helpers.tpl` file and then included it in yaml templates of config maps.

Verified that this template with date and version was rendered correctly:

```
[robertgazizov@MacBook-Air-Robert mychart % kubectl get configmap -n abc resource-service-configmap -o yaml
apiVersion: v1
data:
  db_url: resource-db-service:5432
  song_service_url: song-service:8080
kind: ConfigMap
metadata:
  annotations:
    meta.helm.sh/release-name: my-release
    meta.helm.sh/release-namespace: default
  creationTimestamp: "2023-12-01T10:31:34Z"
  labels:
    app.kubernetes.io/managed-by: Helm
    date: "2023-12-01"
    version: 1.0.0
name: resource-service-configmap
namespace: abc
resourceVersion: "66055"
uid: 32528c35-0108-4708-b91f-ed7bf5ac95d3
```