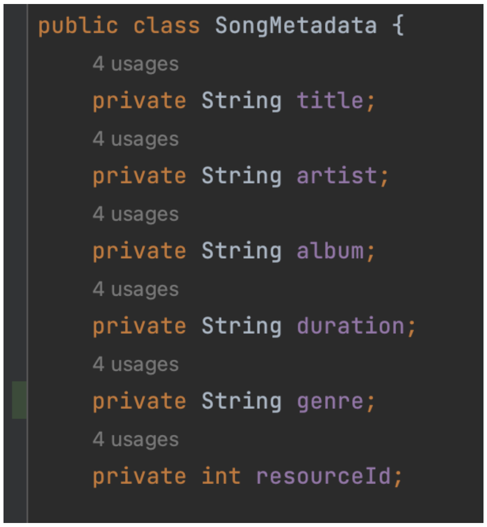
Subtask 3 demo

The task is to deploy new changes to song-service using Rolling Update.

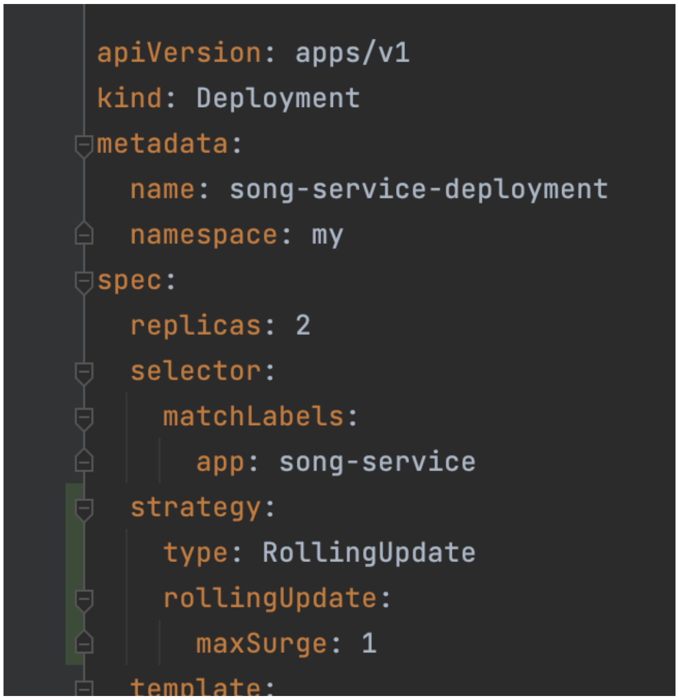
First I’ve added `genre` field to response of GET endpoint of song-service:



```
public class SongMetadata {
    4 usages
    private String title;
    4 usages
    private String artist;
    4 usages
    private String album;
    4 usages
    private String duration;
    4 usages
    private String genre;
    4 usages
    private int resourceId;
```

and pushed it to docker hub with tag `2.0.0`.

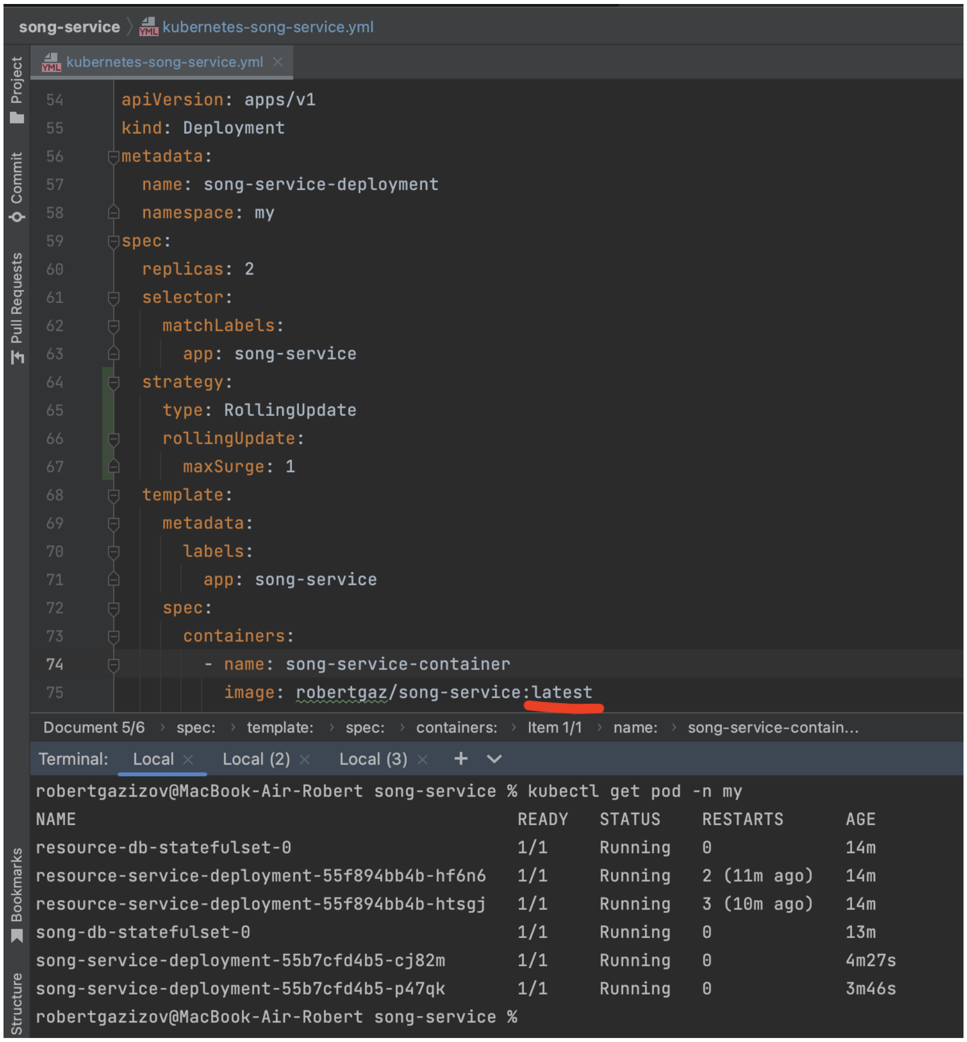
Then I updated song-service-deployment manifest:



```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: song-service-deployment
  namespace: my
spec:
  replicas: 2
  selector:
    matchLabels:
      app: song-service
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
  template:
```

and applied it.

Here what I had:


song-service 〉 kubernetes-song-service.yml
kubernetes-song-service.yml
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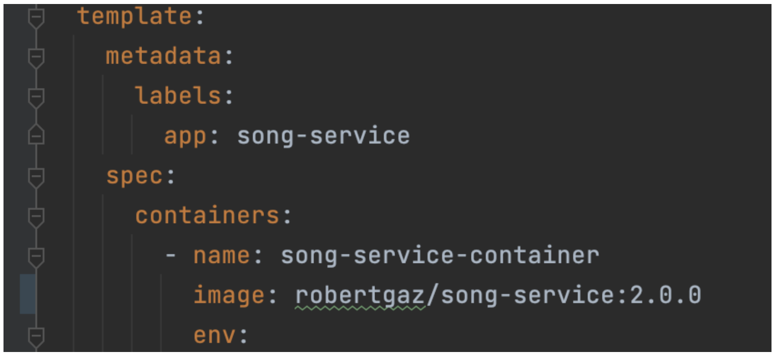
```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: song-service-deployment
  namespace: my
spec:
  replicas: 2
  selector:
    matchLabels:
      app: song-service
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
  template:
    metadata:
      labels:
        app: song-service
    spec:
      containers:
        - name: song-service-container
          image: robertgaz/song-service:latest
```

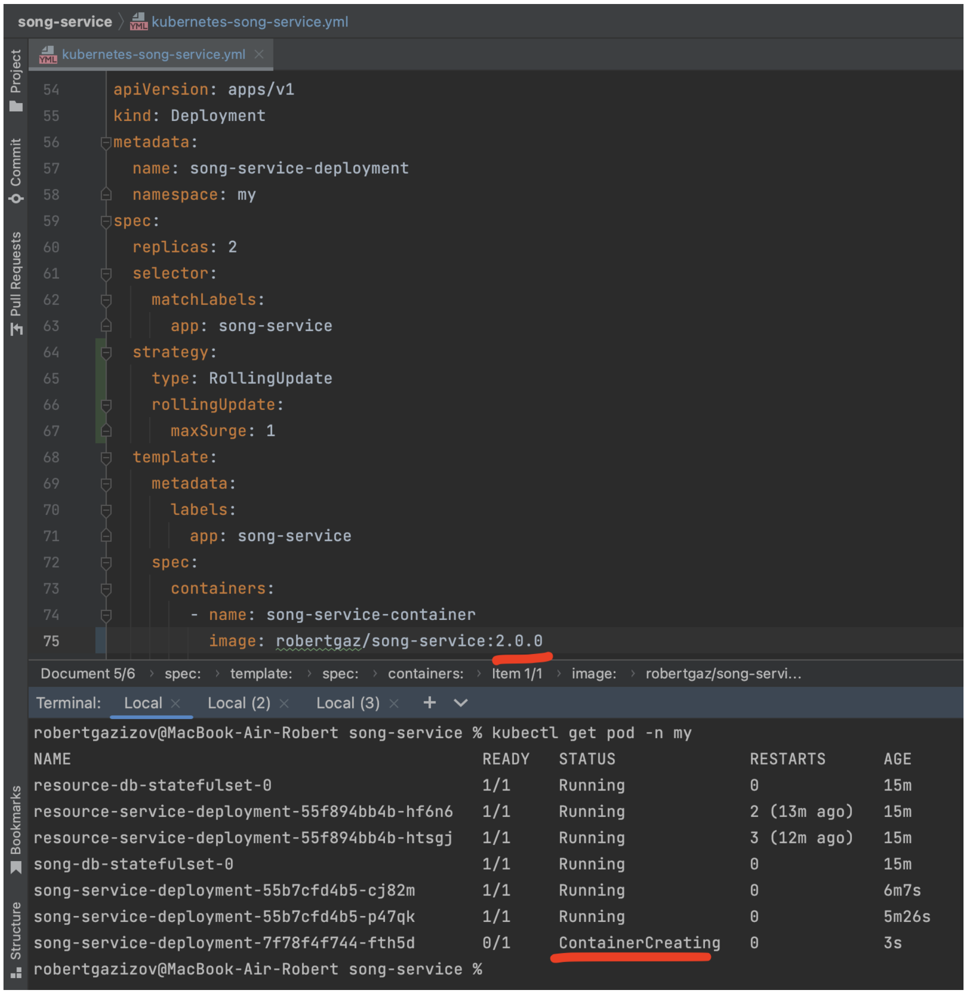
```
robertgazizov@MacBook-Air-Robert song-service % kubectl get pod -n my
NAME                                      READY   STATUS    RESTARTS       AGE
resource-db-statefulset-0                 1/1     Running   0              14m
resource-service-deployment-55f894bb4b-hf6n6   1/1     Running   2 (11m ago)    14m
resource-service-deployment-55f894bb4b-htsgj   1/1     Running   3 (10m ago)    14m
song-db-statefulset-0                     1/1     Running   0              13m
song-service-deployment-55b7cfd4b5-cj82m  1/1     Running   0              4m27s
song-service-deployment-55b7cfd4b5-p47qk  1/1     Running   0              3m46s
robertgazizov@MacBook-Air-Robert song-service %
```

Then I updated tag of container in manifest:



```yaml
template:
  metadata:
    labels:
      app: song-service
  spec:
    containers:
      - name: song-service-container
        image: robertgaz/song-service:2.0.0
        env:
```

Then I applied it and saw that kubernetes started to schedule new pods with updated container:


song-service
kubernetes-song-service.yml
kubernetes-song-service.yml
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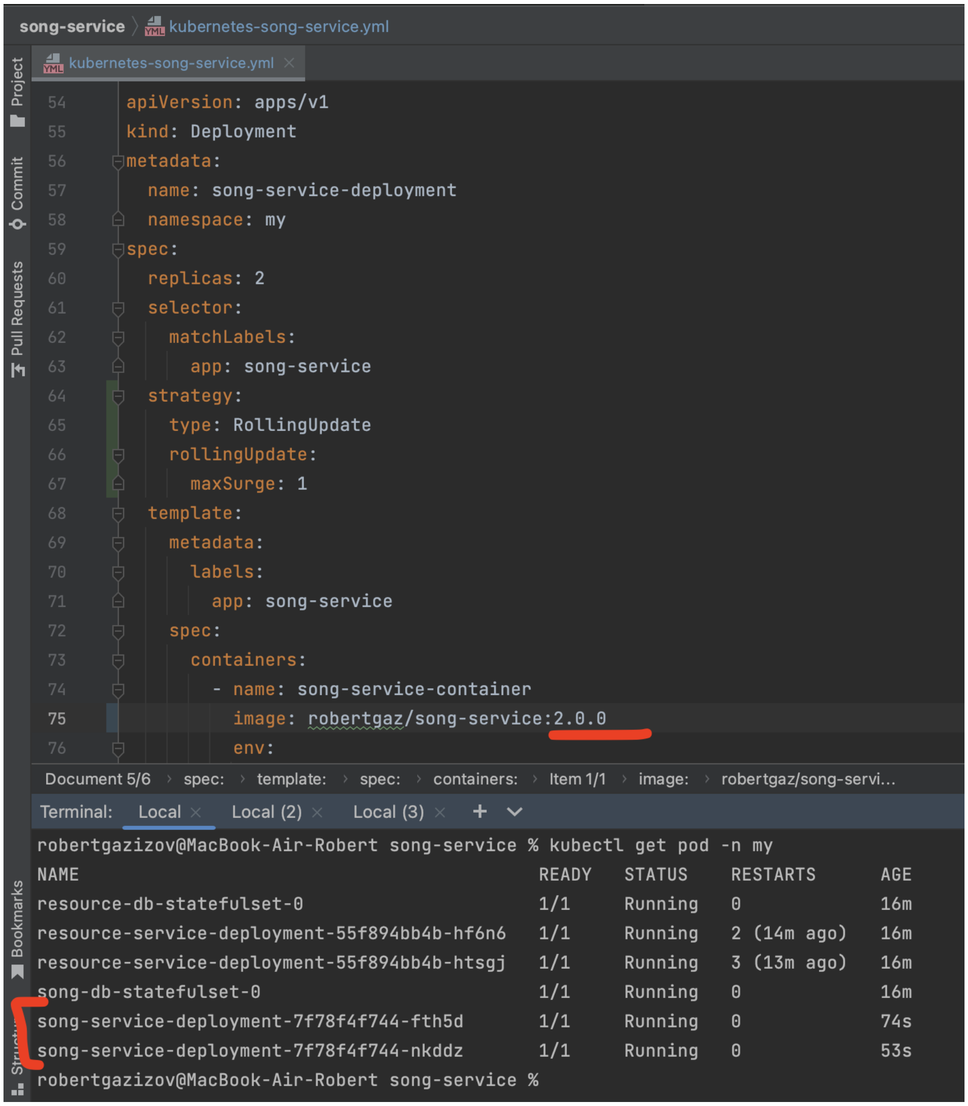
Document 5/6 › spec: › template: › spec: › containers: › Item 1/1 › image: › robertgaz/song-servi...
Terminal: Local Local (2) Local (3) +

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: song-service-deployment
  namespace: my
spec:
  replicas: 2
  selector:
    matchLabels:
      app: song-service
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
  template:
    metadata:
      labels:
        app: song-service
    spec:
      containers:
        - name: song-service-container
          image: robertgaz/song-service:2.0.0
```

```
robertgazizov@MacBook-Air-Robert song-service % kubectl get pod -n my
NAME                                            READY   STATUS              RESTARTS       AGE
resource-db-statefulset-0                       1/1     Running             0              15m
resource-service-deployment-55f894bb4b-hf6n6    1/1     Running             2 (13m ago)    15m
resource-service-deployment-55f894bb4b-htsgj    1/1     Running             3 (12m ago)    15m
song-db-statefulset-0                           1/1     Running             0              15m
song-service-deployment-55b7cfd4b5-cj82m        1/1     Running             0              6m7s
song-service-deployment-55b7cfd4b5-p47qk        1/1     Running             0              5m26s
song-service-deployment-7f78f4f744-fth5d        0/1     ContainerCreating   0              3s
robertgazizov@MacBook-Air-Robert song-service %
```

Finally, all pods were replaced:


song-service 〉 kubernetes-song-service.yml
kubernetes-song-service.yml
Project
Commit
Pull Requests
Bookmarks
Structure
Document 5/6 › spec: › template: › spec: › containers: › Item 1/1 › image: › robertgaz/song-servi...
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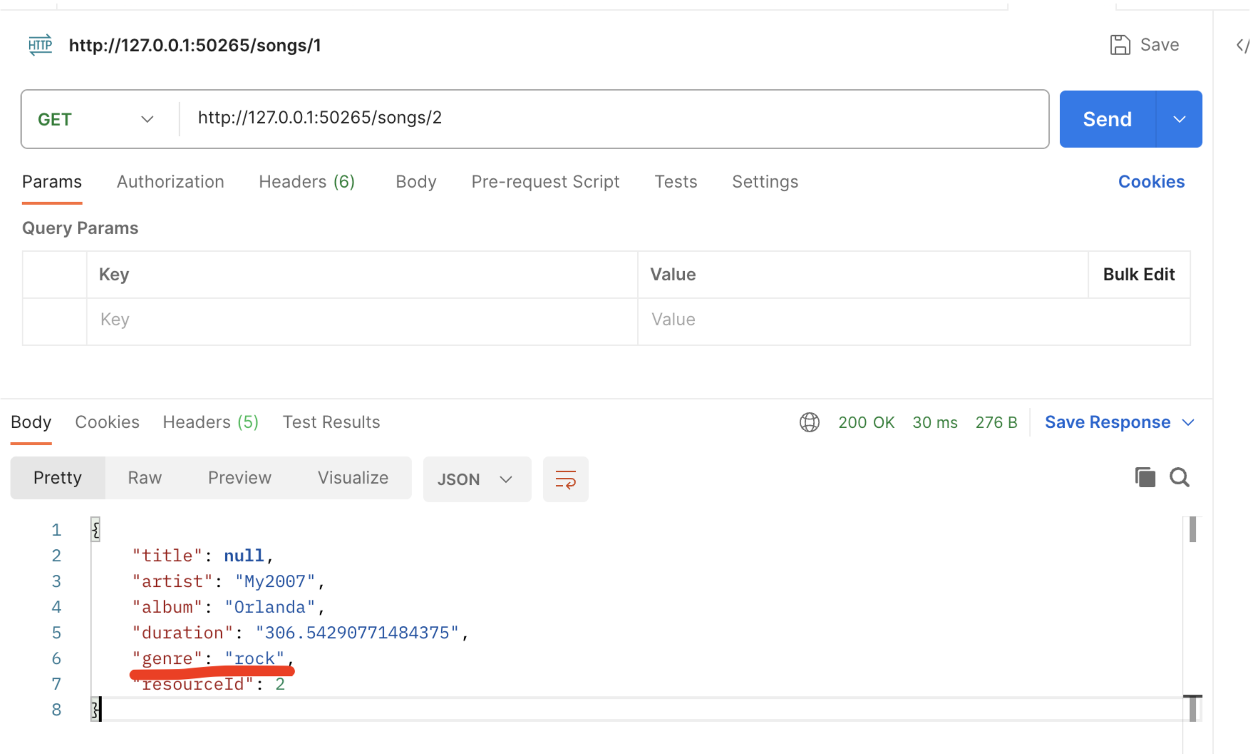
```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: song-service-deployment
  namespace: my
spec:
  replicas: 2
  selector:
    matchLabels:
      app: song-service
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
  template:
    metadata:
      labels:
        app: song-service
    spec:
      containers:
        - name: song-service-container
          image: robertgaz/song-service:2.0.0
          env:
```

```
robertgazizov@MacBook-Air-Robert song-service % kubectl get pod -n my
NAME                                       READY   STATUS    RESTARTS      AGE
resource-db-statefulset-0                  1/1     Running   0             16m
resource-service-deployment-55f894bb4b-hf6n6   1/1     Running   2 (14m ago)   16m
resource-service-deployment-55f894bb4b-htsgj   1/1     Running   3 (13m ago)   16m
song-db-statefulset-0                      1/1     Running   0             16m
song-service-deployment-7f78f4f744-fth5d   1/1     Running   0             74s
song-service-deployment-7f78f4f744-nkddz   1/1     Running   0             53s
robertgazizov@MacBook-Air-Robert song-service %
```

And I were able to see `genre` field in the response from song-service GET endpoint:



http://127.0.0.1:50265/songs/1

GET http://127.0.0.1:50265/songs/2

Query Params

Key	Value
Key	Value

200 OK 30 ms 276 B

```
{
    "title": null,
    "artist": "My2007",
    "album": "Orlanda",
    "duration": "306.54290771484375",
    "genre": "rock",
    "resourceId": 2
}
```