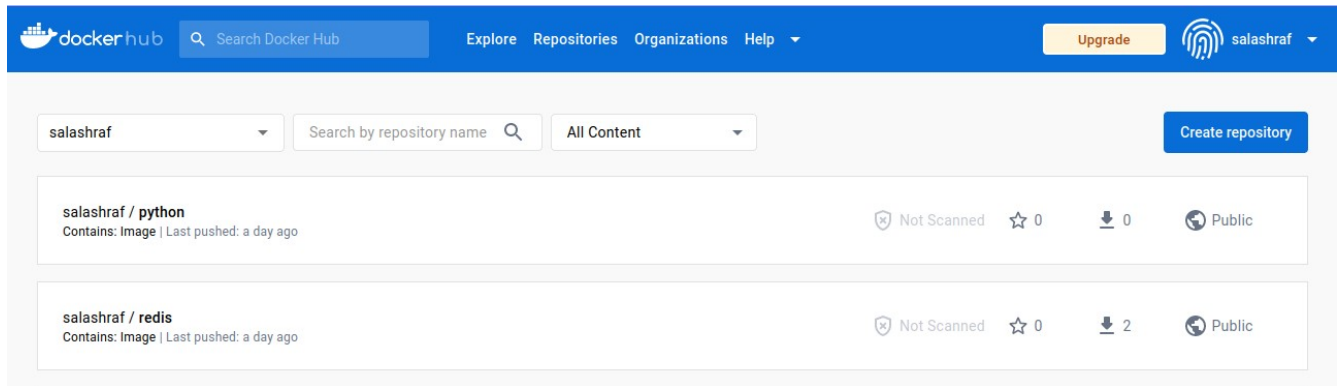


Name: Salma Ashraf  
Lab2 – Helm

1- Pushing python and redis images to dockerhub.

Docker.io/salashraf/redis

Docker.io/salashraf/python



Repo link: <https://hub.docker.com/repositories/salashraf>

2- Create python and redis charts.

```
helm create redis-chart  
helm create python-chart
```

3- Edit values.yaml files in both folders.

```
# Default values for python-chart.  
# This is a YAML-formatted file.  
# Declare variables to be passed into your templates.  
  
replicaCount: 1  
  
image:  
  repository: docker.io/salashraf/python-image  
  pullPolicy: IfNotPresent  
  # Overrides the image tag whose default is the chart appVersion.  
  tag: "latest"  
  
imagePullSecrets: []  
nameOverride: ""  
fullnameOverride: ""
```

```

## Default values for redis-chart.
# This is a YAML-formatted file.
# Declare variables to be passed into your templates.

replicaCount: 1

image:
  repository: docker.io/salashraf/redis
  pullPolicy: IfNotPresent
  # Overrides the image tag whose default is the chart appVersion.
  tag: "latest"

imagePullSecrets: []
nameOverride: ""
fullnameOverride: ""

```

4- Adding configmap part in python deployment.

```

      {{- toYaml .Values.securityContext | nindent 12 }}
      image: "{{{ .Values.image.repository }}}:{{{ .Values.image.tag | default
.Chart.AppVersion }}}"
      imagePullPolicy: {{{ .Values.image.pullPolicy }}}
      ports:
        - name: http
          containerPort: 80
          protocol: TCP
      envFrom:
        - configMapRef:
            name: configmap-env

```

5-

helm install redis ./redis-chart/

helm install python-app ./python-chart/

\*\* When running : Kubectl get all

the pods show they aren't ready and I couldn't manage to know the reason.

```
NAME                                READY    STATUS              RESTARTS   AGE
pod/python-app-python-chart-6ff8f54997-c7shq  0/1     ImagePullBackOff    0           14h
pod/redis-app-redis-chart-558bf7954c-nfs8h    0/1     Running             2 (17s ago)  78s
pod/redis-image-redis-chart-688f588cbf-5d5gw  0/1     CrashLoopBackOff    30 (4m24s ago)  5h55m
pod/redis-redis-chart-67699f96b5-qgvds       0/1     CrashLoopBackOff    195 (3m44s ago)  14h

NAME                                TYPE          CLUSTER-IP      EXTERNAL-IP  PORT(S)    AGE
service/kubernetes                  ClusterIP      10.96.0.1       <none>       443/TCP    21h
service/python-app-python-chart     ClusterIP      10.106.234.25   <none>       80/TCP     14h
service/redis-app-redis-chart       ClusterIP      10.103.204.242  <none>       80/TCP     80s
service/redis-image-redis-chart     ClusterIP      10.106.133.107  <none>       80/TCP     5h55m
service/redis-redis-chart           ClusterIP      10.106.143.12   <none>       80/TCP     14h

NAME                                READY    UP-TO-DATE    AVAILABLE   AGE
deployment.apps/python-app-python-chart  0/1      1              0           14h
deployment.apps/redis-app-redis-chart    0/1      1              0           79s
deployment.apps/redis-image-redis-chart  0/1      1              0           5h55m
deployment.apps/redis-redis-chart        0/1      1              0           14h

NAME                                DESIRED    CURRENT    READY    AGE
replicaset.apps/python-app-python-chart-6ff8f54997  1          1          0        14h
replicaset.apps/redis-app-redis-chart-558bf7954c   1          1          0        79s
replicaset.apps/redis-image-redis-chart-688f588cbf  1          1          0        5h55m
replicaset.apps/redis-redis-chart-67699f96b5       1          1          0        14h
```