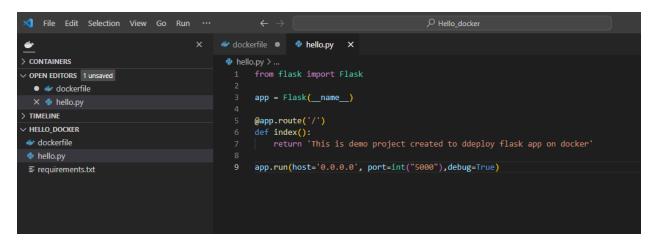
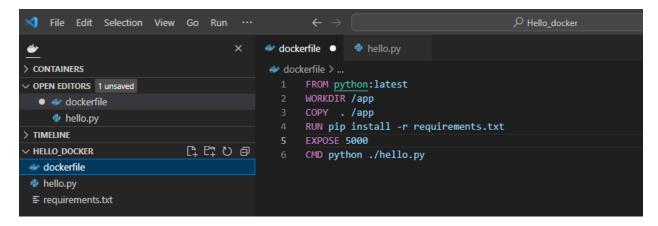
PROJECT DIPLOYMENT USING KUBERNETES

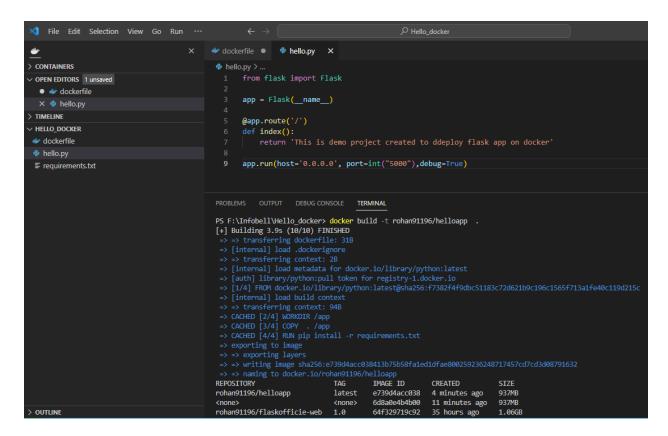
Step1: create project file



Step 2: Create docker file

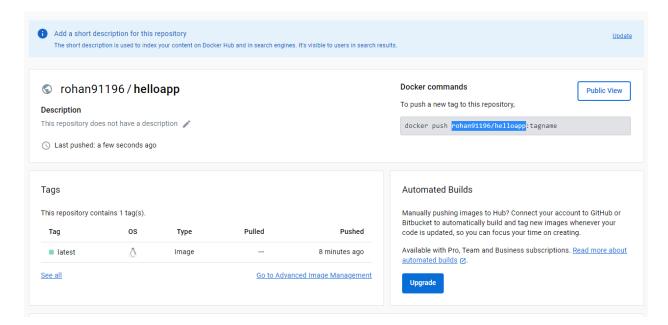


Step 3: Create docker image



Step 4: Push image to docker hub repository

```
DEBUG CONSOLE
                                    TERMINAL
                                                       11 days ago
mysql
                              latest
                                        8189e588b0e8
                                                                        564MB
rohan91196/mysql
                              1.0
                                        8189e588b0e8
                                                       11 days ago
                                                                        564MB
gcr.io/k8s-minikube/kicbase v0.0.39
                                       67a4b1138d2d
                                                       3 weeks ago
                                                                        1.05GB
PS F:\Infobell\Hello_docker> docker push rohan91196/helloapp:latest
The push refers to repository [docker.io/rohan91196/helloapp]
362ca358e819: Pushed
20cef73ba742: Pushed
c54f55cba482: Mounted from rohan91196/flaskofficie-web
1b38857d7bd5: Mounted from rohan91196/flaskofficie-web
c63832a549a2: Mounted from rohan91196/flaskofficie-web
67968e3386b6: Mounted from rohan91196/flaskofficie-web
807e5e673844: Mounted from rohan91196/flaskofficie-web
b86f260e173a: Mounted from rohan91196/flaskofficie-web
24b48387f467: Mounted from rohan91196/flaskofficie-web
latest: digest: sha256:3957360375e694e9dbcf28db0b29f9ee610fa478a2edbba3b98fd3ba8d68a06a size: 2843
```



Step 5: Start minikube

Step 6: Create pod with image

```
PS F:\Infobell\Hello_docker> kubectl run pod1 --image==rohan91196/helloapp:latest --port==5000
PS F:\Infobell\Hello docker> kubectl run pod1 --image=rohan91196/helloapp:latest --port==5000
PS F:\Infobell\Hello_docker> kubectl run pod1 --image=rohan91196/helloapp:latest --port=5000
pod/pod1 created
PS F:\Infobell\Hello_docker> get pods
     : The term 'get' is not recognized as the name of a cmdlet, function, script file, or operable program. Check spelling of the name, or if a path was included, verify that the path is correct and try again.
                                : ObjectNotFound: (get:String) [], CommandNotFoundException I: CommandNotFoundException
     + CategoryInfo : Obje
+ FullyQualifiedErrorId : Comm
PS F:\Infobell\Hello_docker> kubectl get pods
NAME
                                     READY STATUS
                                                          RESTARTS
                                                                             AGE
pod1
                                     1/1
                                              Running 0
python-webapp-88c57c68-9dv8l
                                     1/1
                                              Running 1 (7m36s ago)
                                                                             146m
python-webapp-88c57c68-kn7g7 1/1
                                              Running 1 (7m36s ago)
                                                                           154m
```

Step 7: Create service

```
PS F:\Infobell\Hello_docker> kubectl get pods
NAME
                               READY
                                       STATUS
                                                  RESTARTS
                                                                  AGE
pod1
                                1/1
                                        Running
                                                                  33s
                               1/1
python-webapp-88c57c68-9dv81
                                        Running
                                                  1 (7m36s ago)
                                                                  146m
python-webapp-88c57c68-kn7g7
                               1/1
                                        Running
                                                  1 (7m36s ago)
                                                                  154m
PS F:\Infobell\Hello docker> kubectl expose pod pod1 --name=pod1svc --port=5000
service/pod1svc exposed
PS F:\Infobell\Hello docker> kubectl get svc
NAME
              TYPE
                          CLUSTER-IP
                                           EXTERNAL-IP
                                                         PORT(S)
                                                                        AGE
kubernetes
              ClusterIP
                          10.96.0.1
                                                         443/TCP
                                                                         32h
                                           <none>
mysqlsvc
              ClusterIP
                          10.103.27.150
                                                         3306/TCP
                                                                         24h
                                           <none>
pod1svc
              ClusterIP
                          10.97.231.9
                                                         5000/TCP
                                                                         20s
                                           <none>
web-service
              NodePort
                          10.102.160.35
                                                         80:32340/TCP
                                                                        156m
                                           <none>
```

Step 8: Create port forwarding

```
PS F:\Infobell\Hello docker> kubectl get pods
NAME
                               READY
                                       STATUS
                                                                 AGE
                                                 RESTARTS
pod1
                               1/1
                                       Running
                                                                 335
                                                 0
python-webapp-88c57c68-9dv81
                               1/1
                                       Running
                                                 1 (7m36s ago)
                                                                 146m
                               1/1
                                                                 154m
python-webapp-88c57c68-kn7g7
                                       Running
                                                 1 (7m36s ago)
PS F:\Infobell\Hello docker> kubectl expose pod pod1 --name=pod1svc --port=5000
service/pod1svc exposed
PS F:\Infobell\Hello docker> kubectl get svc
NAME
              TYPE
                          CLUSTER-IP
                                          EXTERNAL-IP
                                                        PORT(S)
                                                                       AGE
kubernetes
              ClusterIP
                          10.96.0.1
                                          <none>
                                                        443/TCP
                                                                        32h
                                                                       24h
mysqlsvc
              ClusterIP
                          10.103.27.150
                                          <none>
                                                        3306/TCP
pod1svc
              ClusterIP
                          10.97.231.9
                                                        5000/TCP
                                                                       20s
                                          <none>
              NodePort
web-service
                          10.102.160.35
                                          <none>
                                                        80:32340/TCP
                                                                       156m
PS F:\Infobell\Hello docker> kubectl port-forward service/pod1svc 5000:5000
Forwarding from 127.0.0.1:5000 -> 5000
Forwarding from [::1]:5000 -> 5000
Handling connection for 5000
Handling connection for 5000
```