Git Hub Link:

https://github.com/akterfaruq/zero-downtime
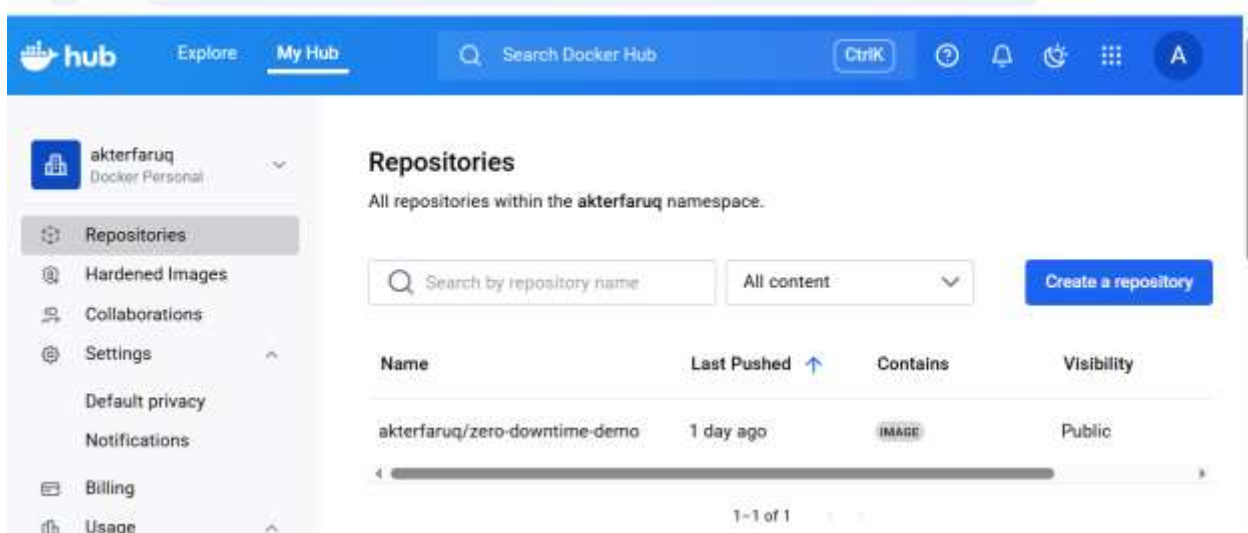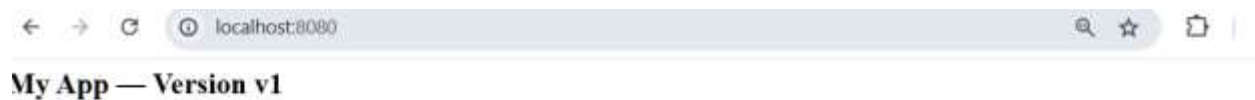
Docker Hub Image Link:

https://hub.docker.com/repositories/akterfaruq?_gl=1*178ckvj*_gcl_au*MTExNDUzOTA4My4xNzY0OD
I3OTI5*_ga*MjgxNDUzMzk1LjE3NTc0MzgwNTA.*_ga_XJWPQMJYHQ*czE3NjQ5OTI5OTEkbzExJGcxJHQx
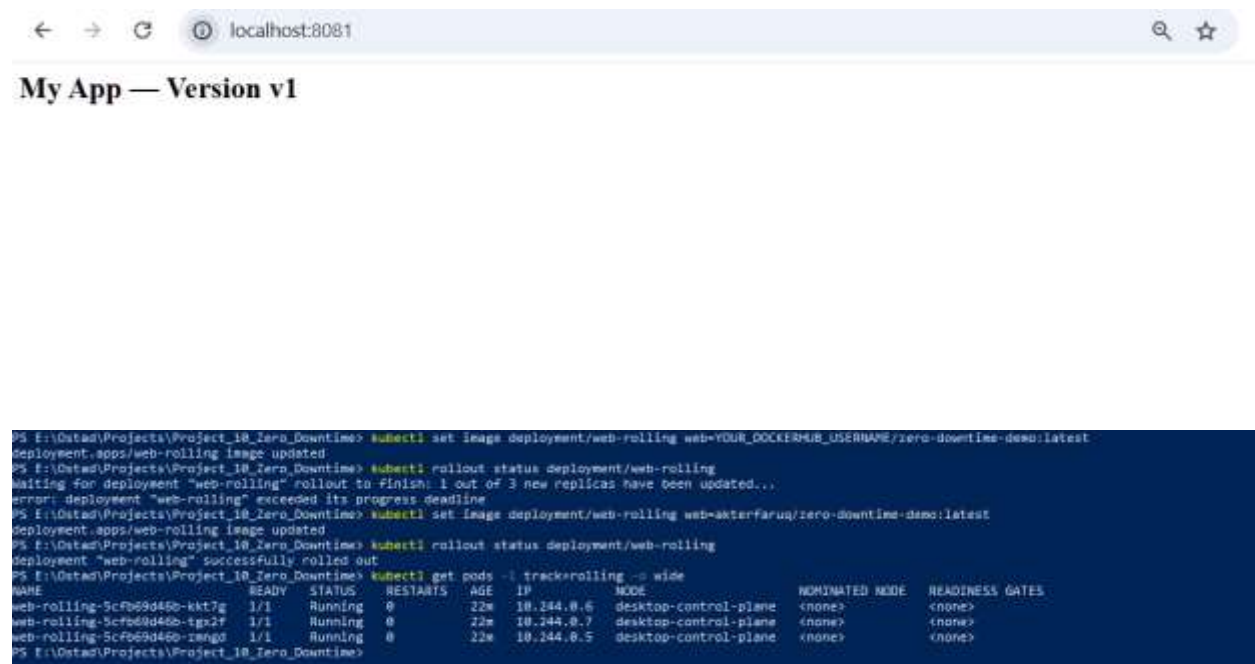NzY0OTkyOTk4JGo1MyRsMCR0MA..

Blue Green Deployemnt:

← → C ⓘ localhost:8080

My App — Version v1

← → C ⓘ localhost:8080

My App — Version v2

Rolling Update Deployment:

← → C ⓘ localhost:8081

My App — Version v1

Canary Deployment:

My App — Version v1

```
secret/argo-rollouts-notification-secret unchanged
service/argo-rollouts-metrics unchanged
deployment.apps/argo-rollouts configured
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl get crds | Select-String rollouts

rollouts.argoproj.io                    2025-12-05T16:28:25Z


PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\canary-rollout.yaml
rollout.argoproj.io/web-canary created
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\canary-service.yaml
service/web-canary-svc created
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl get rollouts
NAME         DESIRED   CURRENT   UP-TO-DATE   AVAILABLE   AGE
web-canary   4         4         4            4           73s
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl argo rollouts get rollout web-canary
Name:           web-canary
Namespace:      default
Status:         Healthy
Strategy:       Canary
  Step:         5/5
  SetWeight:    100
  ActualWeight: 100
Images:         akterfaruq/zero-downtime-demo:latest (stable)
Replicas:
  Desired:      4
  Current:      4
  Updated:      4
  Ready:        4
  Available:    4

NAME                               KIND         STATUS     AGE    INFO
web-canary                         Rollout      Healthy    107s
└──# revision:1
   └──web-canary-f56d7b8bf         ReplicaSet   Healthy    107s   stable
       ├──web-canary-f56d7b8bf-62n9n   Pod      Running    107s   ready:1/1
       ├──web-canary-f56d7b8bf-czcxm   Pod      Running    107s   ready:1/1
       ├──web-canary-f56d7b8bf-gzx4p   Pod      Running    107s   ready:1/1
       └──web-canary-f56d7b8bf-j769r   Pod      Running    107s   ready:1/1
```

```
      └─□ web-canary-f56d7b8bf-czcxm  Pod              Terminating  4m    ready:1/1
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl set image rollout/web-canary web=akterfaruq/zero-downtime-demo:latest
Error: no kind "Rollout" is registered for version "argoproj.io/v1alpha1" in scheme "pkg/scheme/scheme.go:28"
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl argo rollouts set image web-canary web=akterfaruq/zero-downtime-demo:latest
rollout "web-canary" image updated
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl argo rollouts get rollout web-canary --watch
Name:           web-canary
Namespace:      default
Status:         ⊘ Paused
Message:        CanaryPauseStep
Strategy:       Canary
  Step:         1/5
  SetWeight:    10
  ActualWeight: 20
Images:         akterfaruq/zero-downtime-demo:latest (canary)
                akterfaruq/zero-downtime-demo:v2 (stable)
Replicas:
  Desired:      4
  Current:      5
  Updated:      1
  Ready:        5
  Available:    5

NAME                                     KIND         STATUS       AGE    INFO
⊙ web-canary                             Rollout      ⊘ Paused     7m25s
├──# revision:3
│   └─⊙ web-canary-f56d7b8bf            ReplicaSet   ⊙ Healthy    7m25s  canary
│       └─□ web-canary-f56d7b8bf-rc58q  Pod          ⊙ Running    18s    ready:1/1
├──# revision:2
│   └─⊙ web-canary-954fb64cb            ReplicaSet   ⊙ Healthy    4m50s  stable
│       ├─□ web-canary-954fb64cb-n8gj7  Pod          ⊙ Running    4m50s  ready:1/1
│       ├─□ web-canary-954fb64cb-h2p8v  Pod          ⊙ Running    4m10s  ready:1/1
│       ├─□ web-canary-954fb64cb-5p86x  Pod          ⊙ Running    3m38s  ready:1/1
│       └─□ web-canary-954fb64cb-nf56p  Pod          ⊙ Running    3m38s  ready:1/1
Name:           web-canary
Namespace:      default
Status:         ⊘ Paused
Message:        CanaryPauseStep
Strategy:       Canary
  Step:         1/5
  SetWeight:    10
  ActualWeight: 20
Images:         akterfaruq/zero-downtime-demo:latest (canary)
```