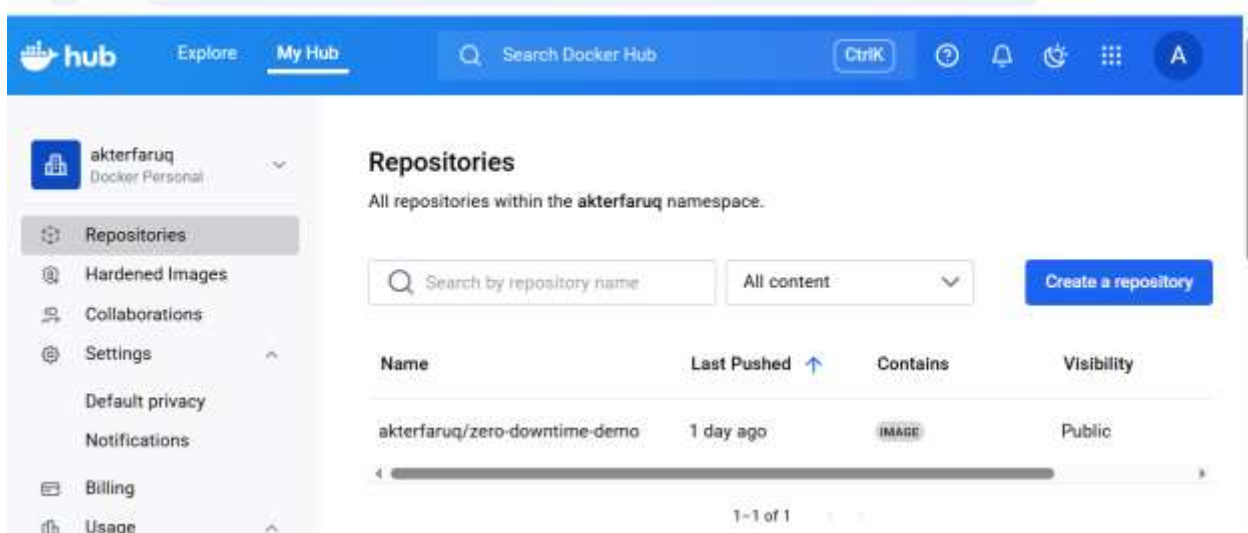


Git Hub Link:

<https://github.com/akterfaruq/zero-downtime>

Docker Hub Image Link:

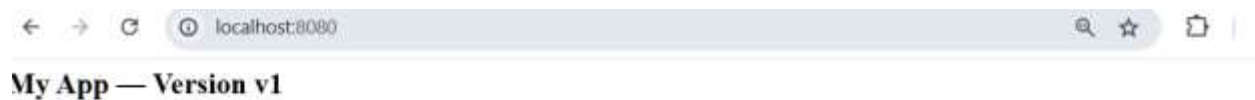
https://hub.docker.com/repositories/akterfaruq?_gl=1*178ckvj*_gcl_au*MTEExNDUzOTA4My4xNzY0ODI3OTI5*_ga*MjgxNDUzMzk1LjE3NTc0MzgWNTA.*_ga_XJWPQMjYHQ*cZ3NjQ5OTI5OTEkbzExJGcxJHQxNzY0OTkyOTk4JGo1MyRsMCRoMA..



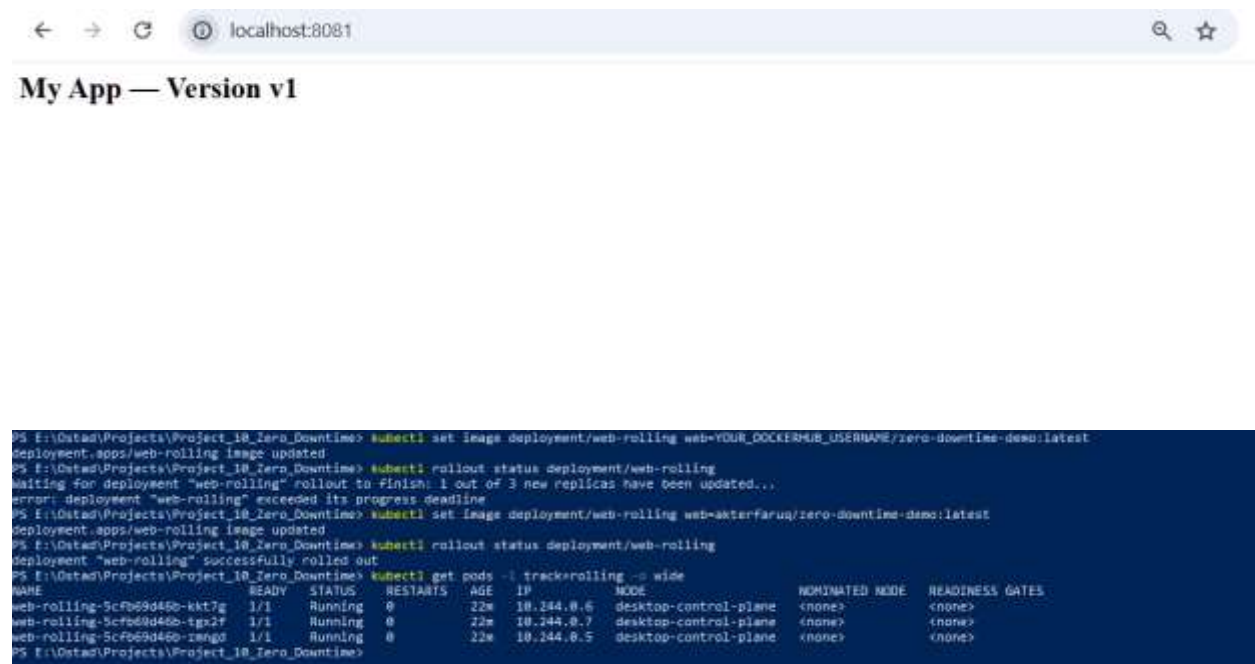
Blue Green Deployment:

```
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\blue-deployment.yaml
deployment.apps/web-blue created
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\green-deployment.yaml
deployment.apps/web-green created
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\service-blue-green.yaml
service/web created
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\service-blue-green.yaml
service/web unchanged
PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl port-forward svc/web 8080:80
kubectl : The term 'ubectl' is not recognized as the name of a cmdlet, function, script file, or operable program.
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ ubectl port-forward svc/web 8080:80
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (ubectl:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl port-forward svc/web 8080:80
Forwarding from 127.0.0.1:8080 -> 3000
Forwarding from [::1]:8080 -> 3000
Handling connection for 8080
Handling connection for 8080
```



Rolling Update Deployment:



Canary Deployment:

← → ↻ ⓘ localhost:8082

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.argo.dev                                2025-12-05T16:28:25Z

PS E:\Ostad\Projects\Project_10_Zero_Downtime> kubectl apply -f .\k8s\canary-rollout.yaml
rollout.argo.dev/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
        └─ 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-i769c Pod      Running    107s  ready:1/1
```

```

    web-canary-f56d7b8bf-rc58q Pod  Terminating  4m   Ready:1/1
S 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"
S 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
S 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)

```