

Lab8

Traffic Shifting

Apply weight-based routing

1. To get started, run this command to route all traffic to the v1 version:

\$ kubectl apply -f [samples/bookinfo/networking/virtual-service-all-v1.yaml](#)

```
PS C:\study\云计算导论\Labs\Lab7\istio-1.27.1> kubectl apply -f samples/bookinfo/networking/virtual-service-all-v1.yaml
virtualservice.networking.istio.io/productpage created
virtualservice.networking.istio.io/reviews created
virtualservice.networking.istio.io/ratings created
virtualservice.networking.istio.io/details created
```

2. Transfer 50% of the traffic from reviews:v1 to reviews:v3 with the following command:

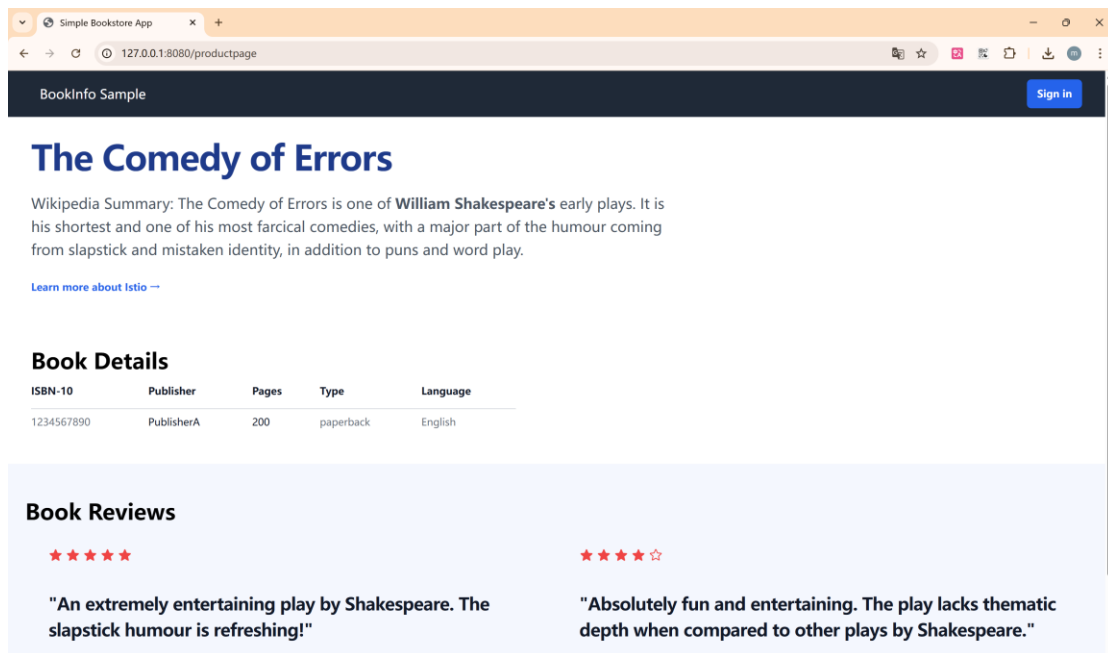
kubectl apply -f [samples/bookinfo/networking/virtual-service-reviews-50-v3.yaml](#)

3. Wait a few seconds for the new rules to propagate and then confirm the rule was replaced:

kubectl get virtualservice reviews -o yaml

```
PS C:\study\云计算导论\Labs\Lab7\istio-1.27.1> kubectl get virtualservice reviews -o yaml
apiVersion: networking.istio.io/v1
kind: VirtualService
metadata:
  annotations:
    kubernetes.io/last-applied-configuration: |
      {"apiVersion":"networking.istio.io/v1","kind":"VirtualService","metadata":{"annotations":{},"name":"reviews","name
space":"default"},"spec":{"hosts":["reviews"],"http":[{"route":[{"destination":{"host":"reviews","subset":"v1"},"weight"
:50},{"destination":{"host":"reviews","subset":"v3"},"weight":50}]}]}
    creationTimestamp: "2025-10-16T01:52:38Z"
  generation: 2
  name: reviews
  namespace: default
  resourceVersion: "94537"
  uid: ba9d736e-03db-4f4e-adf7-a6c4fb48dfe2
spec:
  hosts:
  - reviews
  http:
  - route:
    - destination:
        host: reviews
        subset: v1
      weight: 50
    - destination:
        host: reviews
        subset: v3
      weight: 50
```

4. Refresh the /productpage in your browser and you now see *red* colored star ratings approximately 50% of the time. This is because the v3 version of reviews accesses the star ratings service, but the v1 version does not.



- Assuming you decide that the reviews:v3 microservice is stable, you can route 100% of the traffic to reviews:v3 by applying this virtual service:
kubect apply -f samples/bookinfo/networking/virtual-service-reviews-v3.yaml
- Refresh the /productpage several times. Now you will always see book reviews with red colored star ratings for each review.

Cleanup

- Remove the application routing rules:
kubect delete -f [samples/bookinfo/networking/virtual-service-all-v1.yaml](#)