

Request Routing

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1. Apply virtual services to route all requests to v1

```
C:\Users\Darigan\Projects\istio-1.21.2>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. Display defined routes (truncated because it was too large)

```
C:\Users\Darigan\Projects\istio-1.21.2>kubectl get virtualservices -o yaml
apiVersion: v1
items:
- apiVersion: networking.istio.io/v1beta1
  kind: VirtualService
  metadata:
    annotations:
      kubectl.kubernetes.io/last-applied-configuration: |
        [{"apiVersion":"networking.istio.io/v1alpha3","kind":"VirtualService","metadata":{"annotations":{},"name":"bookinfo","namespace":"default"},"spec":{"gateways":["bookinfo-gateway"],"hosts":["*"],"http":[{"match":[{"uri":{"exact":"/productpage"}},{uri":{"prefix":"/static"}},{uri":{"exact":"/login"}},{uri":{"exact":"/logout"}},{uri":{"prefix":"/api/v1/products"}]}]},"route":[{"destination":{"host":"productpage","port":{"number":9080}}}}]}]}]
    creationTimestamp: "2024-05-05T01:31:46Z"
    generation: 1
    name: bookinfo
    namespace: default
    resourceVersion: "974"
    uid: 05b77831-ee15-4125-b757-7d73bc1632ca
  spec:
    gateways:
    - bookinfo-gateway
    hosts:
    - "*"
    http:
    - match:
      - uri:
          exact: /productpage
      - uri:
          prefix: /static
      - uri:
          exact: /login
      - uri:
          exact: /logout
      - uri:
          prefix: /api/v1/products
      route:
      - destination:
          host: productpage
          port:
            number: 9080
- apiVersion: networking.istio.io/v1beta1
  kind: VirtualService
  metadata:
```

3. Display subset

```
C:\Users\Darigan\Projects\istio-1.21.2>kubectl get destinationrules -o yaml
apiVersion: v1
items:
- apiVersion: networking.istio.io/v1beta1
  kind: DestinationRule
  metadata:
    annotations:
      kubectl.kubernetes.io/last-applied-configuration: |
        [{"apiVersion":"networking.istio.io/v1alpha3","kind":"DestinationRule","metadata":{"annotations":{},"name":"details","namespace":"default"},"spec":{"host":"details","subsets":[{"labels":{"version":"v1"},"name":"v1"}, {"labels":{"version":"v2"},"name":"v2"}]}]}]
    creationTimestamp: "2024-05-05T01:33:11Z"
    generation: 1
    name: details
    namespace: default
    resourceVersion: "1091"
    uid: 7826bbb5-36a9-4c68-bc0e-c6d35a9ed99a
  spec:
    host: details
    subsets:
    - labels:
        version: v1
      name: v1
    - labels:
        version: v2
      name: v2
- apiVersion: networking.istio.io/v1beta1
  kind: DestinationRule
  metadata:
    annotations:
      kubectl.kubernetes.io/last-applied-configuration: |
        [{"apiVersion":"networking.istio.io/v1alpha3","kind":"DestinationRule","metadata":{"annotations":{},"name":"productpage","namespace":"default"},"spec":{"host":"productpage","subsets":[{"labels":{"version":"v1"},"name":"v1"}]}]}]
    creationTimestamp: "2024-05-05T01:33:11Z"
    generation: 1
```

4. Ratings not displaying on v1

Book Reviews

An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!

— Reviewer1

Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.

— Reviewer2

5. Route to v2 if end user name is 'Jason'

```
C:\Users\Darigan\Projects\istio-1.21.2>kubectl apply -f samples/bookinfo/networking/virtual-service-reviews-test-v2.yaml
virtualservice.networking.istio.io/reviews configured

C:\Users\Darigan\Projects\istio-1.21.2>kubectl get virtualservice reviews -o yaml
apiVersion: networking.istio.io/v1beta1
kind: VirtualService
metadata:
  annotations:
    kubectl.kubernetes.io/last-applied-configuration: |
      {"apiVersion":"networking.istio.io/v1alpha3","kind":"VirtualService","metadata":{"annotations":{},"name":"reviews","namespace":"default"},"spec":{"hosts":["reviews"],"http":[{"match":[{"headers":{"end-user":{"exact":"jason"}}},"route":[{"destination":{"host":"reviews","subset":"v2"}}}]]}]}
  creationTimestamp: "2024-05-05T01:40:17Z"
  generation: 2
  name: reviews
  namespace: default
  resourceVersion: "2023"
  uid: f55d1cf7-0fde-40a5-8186-eb73897129d2
spec:
  hosts:
  - reviews
  http:
  - match:
    - headers:
        end-user:
          exact: jason
    route:
    - destination:
        host: reviews
        subset: v2
    - route:
        destination:
          host: reviews
          subset: v1
```

6. Login as Jason and see rating stars

Comedy of Errors

is the first and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in

Book Reviews

An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!

— Reviewer1

★★★★★

Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.

— Reviewer2

★★★★☆

Reviews served by:

[reviews-v2-5979c6fc9c-hv5pz](#)

7. Sign in as not jason and see no ratings, due to different route

Comedy of Errors

is the first and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in

Book Reviews

An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!

— Reviewer1

Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.

— Reviewer2

Reviews served by:

[reviews-v1-598f9b58fc-rkv8x](#)

8. Remove routing rules

```
C:\Users\Darigan\Projects\istio-1.21.2>kubectl delete -f samples/bookinfo/networking/virtual-service-all-v1.yaml
virtualservice.networking.istio.io "productpage" deleted
virtualservice.networking.istio.io "reviews" deleted
virtualservice.networking.istio.io "ratings" deleted
virtualservice.networking.istio.io "details" deleted
```