Istio Service-Mesh

Reference:

https://istio.io/latest/docs/setup/getting-started/

Download Istio

Download Istio Installer Zip.

Unzip the folder and copy it on C:/ Drive

Go Inside the folder home and run the command on linux bash to add IstioCtl client to your path.

$ export PATH=$PWD/bin:$PATH

Istio Installation

Run Command

$ istioctl install --set profile=demo -y

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ istioctl install --set profile=demo -y
Detected that your cluster does not support third party JWT authentication. Fall
ing back to less secure first party JWT. See https://istio.io/v1.10/docs/ops/bes
t-practices/security/#configure-third-party-service-account-tokens for details.
! values.global.jwtPolicy is deprecated; use Values.global.jwtPolicy=third-party
-jwt. See http://istio.io/latest/docs/ops/best-practices/security/#configure-thi
rd-party-service-account-tokens for more information instead
✔ Istio core installed
✔ Istiod installed
✔ Ingress gateways installed
✔ Egress gateways installed
✔ Installation complete
Thank you for installing Istio 1.10.  Please take a few minutes to tell us about your install/upgrade experience!  https://forms.gle/KjkrDnMPByq7
akrYA
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$
```

Automatically inject Envoy Sidecar proxies to default namespace

Run Command

$ kubectl label namespace default istio-injection=enabled

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl label namespace default istio-injection=enabled

namespace/default labeled
```

Deploying book-info app

Run Command

$ kubectl apply -f samples/bookinfo/platform/kube/bookinfo.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/platform/kube/bookinfo.yaml

service/details created
serviceaccount/bookinfo-details created
deployment.apps/details-v1 created
service/ratings created
serviceaccount/bookinfo-ratings created
deployment.apps/ratings-v1 created
service/reviews created
serviceaccount/bookinfo-reviews created
deployment.apps/reviews-v1 created
deployment.apps/reviews-v2 created
deployment.apps/reviews-v3 created
service/productpage created
serviceaccount/bookinfo-productpage created
deployment.apps/productpage-v1 created
```

AutomatCheck all services are deployed well
ically inject Envoy Sidecar proxies to default namespace

Run Command

$ kubectl get services

$kubectl get pods

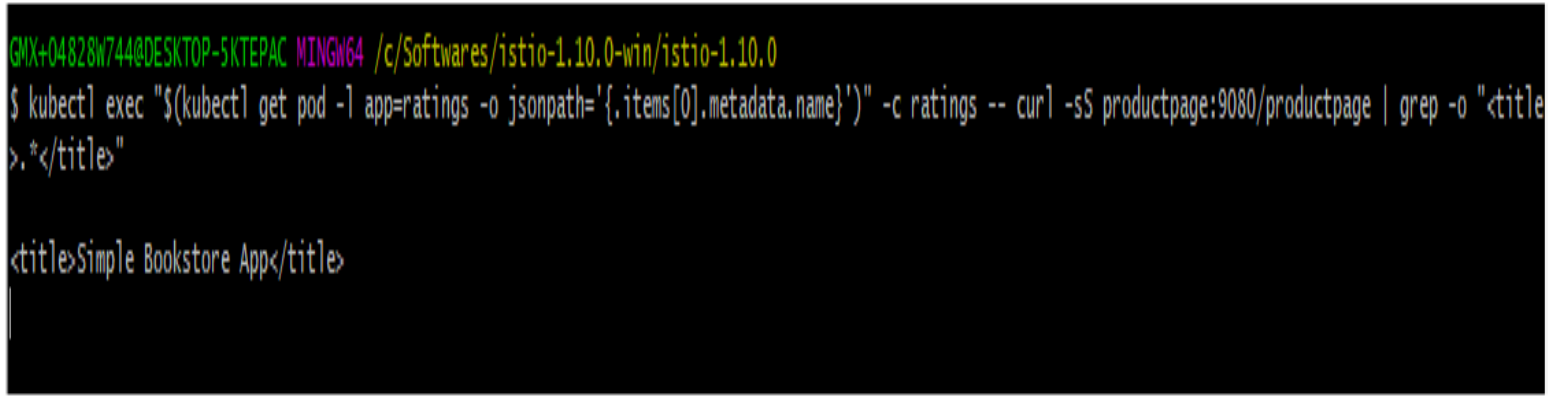
```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl get services
NAME             TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
details          ClusterIP   10.100.4.141     <none>        9080/TCP         98s
kubernetes       ClusterIP   10.96.0.1        <none>        443/TCP          14d
productpage      ClusterIP   10.111.249.55    <none>        9080/TCP         98s
ratings          ClusterIP   10.107.194.154   <none>        9080/TCP         98s
reviews          ClusterIP   10.96.69.105     <none>        9080/TCP         98s
scaling-service  NodePort    10.103.167.17    <none>        8080:30015/TCP   14d
```

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl get pods

NAME                                    READY   STATUS            RESTARTS   AGE
app-scaling-deployment-7cc495d684-4q95j   1/1     Running           1          14d
details-v1-79f774bdb9-tsbxj             2/2     Running           0          3m24s
productpage-v1-6b746f74dc-swk2x         0/2     PodInitializing   0          3m23s
ratings-v1-b6994bb9-47fct               0/2     PodInitializing   0          3m23s
reviews-v1-545db77b95-bj459             2/2     Running           0          3m24s
reviews-v2-7bf8c9648f-82bvn             2/2     Running           0          3m24s
reviews-v3-84779c7bbc-tqvmq             0/2     PodInitializing   0          3m24s
```

Verify everything working correctly or not

Run Command

$ kubectl exec "$(kubectl get pod -l app=ratings -o jsonpath='{.items[0].metadata.name}')" -c ratings -- curl -sS productpage:9080/productpage | grep -o "<title>.*</title>"



Apply Gateway opening app from outside

$ kubectl apply -f samples/bookinfo/networking/bookinfo-gateway.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/bookinfo-gateway.yaml

gateway.networking.istio.io/bookinfo-gateway created
virtualservice.networking.istio.io/bookinfo created
```

Finding Ingress IP and Port:

$ kubectl get svc istio-ingressgateway -n istio-system

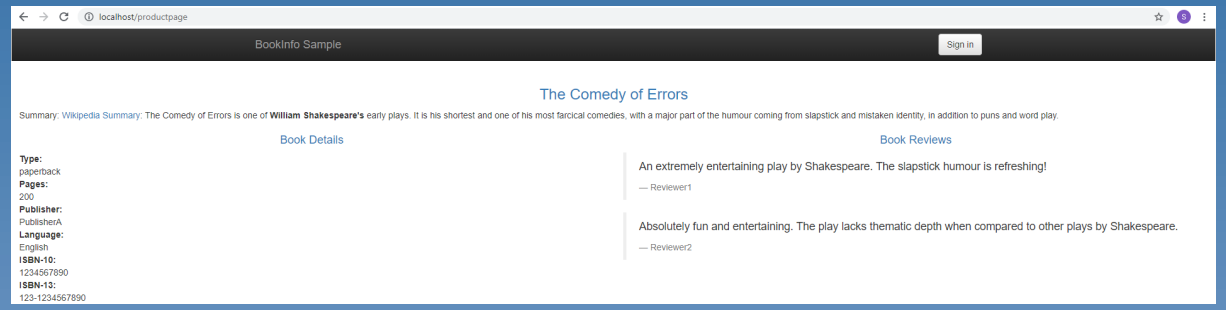
```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl get svc istio-ingressgateway -n istio-system
NAME                   TYPE           CLUSTER-IP       EXTERNAL-IP   PORT(S)
                                AGE
istio-ingressgateway   LoadBalancer   10.106.110.243   localhost     15021:31888/TCP,80:32308/TCP,443:30613/TCP,31400:30779/TCP,1544
3:30032/TCP   2d12h
```

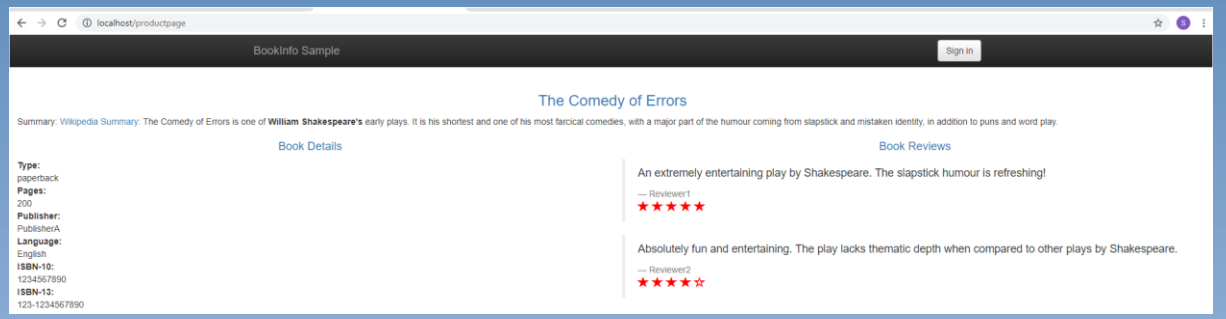
Setting up Environment Variables

- export INGRESS_HOST=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].ip}')
- export INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].port}')
- export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].port}')
- echo $SECURE_INGRESS_PORT
- echo $INGRESS_HOST
- export INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].nodePort}')
- export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].nodePort}')
- echo $INGRESS_HOST
- export INGRESS_HOST=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].hostname}')

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl get svc istio-ingressgateway -n istio-system
NAME                   TYPE           CLUSTER-IP       EXTERNAL-IP   PORT(S)                                                                      AGE
istio-ingressgateway   LoadBalancer   10.106.110.243   localhost     15021:31888/TCP,80:32308/TCP,443:30613/TCP,31400:30779/TCP,15443:30032/TCP   2d12h

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export INGRESS_HOST=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].ip}')
export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].port}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].port}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].port}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ echo $SECURE_INGRESS_PORT
443

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ echo $INGRESS_HOST


GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].nodePort}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].nodePort}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ echo $INGRESS_HOST


GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export INGRESS_HOST=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].hostname}')

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ echo $INGRESS_HOST
localhost
```

Access the App from Browser (Distributing V1/V2/V3 Apps-Round Robin Method):


localhost/productpage
BookInfo Sample
Sign in
The Comedy of Errors
Summary: Wikipedia Summary: The Comedy of Errors is one of William Shakespeare's early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.
Book Details
Type:
paperback
Pages:
200
Publisher:
PublisherA
Language:
English
ISBN-10:
1234567890
ISBN-13:
123-1234567890
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


localhost/productpage
BookInfo Sample
Sign in
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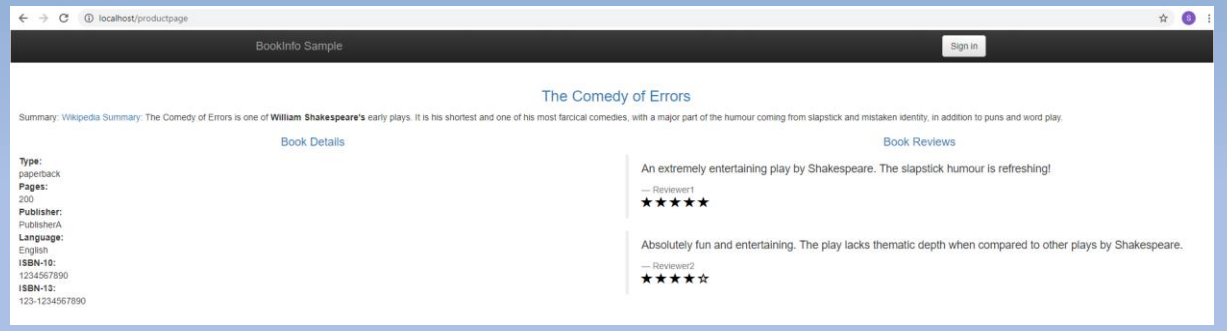
— Reviewer1
★★★★★
Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.
— Reviewer2
★★★★☆


localhost/productpage
BookInfo Sample
Sign in
The Comedy of Errors
Summary: Wikipedia Summary: The Comedy of Errors is one of William Shakespeare's early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.
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ISBN-10:
1234567890
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123-1234567890
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
★★★★☆

Kiali Dashboard

- Install

  $ kubectl apply -f samples/addons

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/addons
serviceaccount/grafana created
configmap/grafana created
service/grafana created
deployment.apps/grafana created
configmap/istio-grafana-dashboards created
configmap/istio-services-grafana-dashboards created
deployment.apps/jaeger created
service/tracing created
service/zipkin created
service/jaeger-collector created
customresourcedefinition.apiextensions.k8s.io/monitoringdashboards.monitoring.kiali.io created
serviceaccount/kiali created
configmap/kiali created
clusterrole.rbac.authorization.k8s.io/kiali-viewer created
clusterrole.rbac.authorization.k8s.io/kiali created
clusterrolebinding.rbac.authorization.k8s.io/kiali created
role.rbac.authorization.k8s.io/kiali-controlplane created
rolebinding.rbac.authorization.k8s.io/kiali-controlplane created
service/kiali created
deployment.apps/kiali created
serviceaccount/prometheus created
configmap/prometheus created
clusterrole.rbac.authorization.k8s.io/prometheus created
clusterrolebinding.rbac.authorization.k8s.io/prometheus created
service/prometheus created
deployment.apps/prometheus created
unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
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unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
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unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
unable to recognize "samples\\addons\\kiali.yaml": no matches for kind "MonitoringDashboard" in version "monitoring.kiali.io/v1alpha1"
```

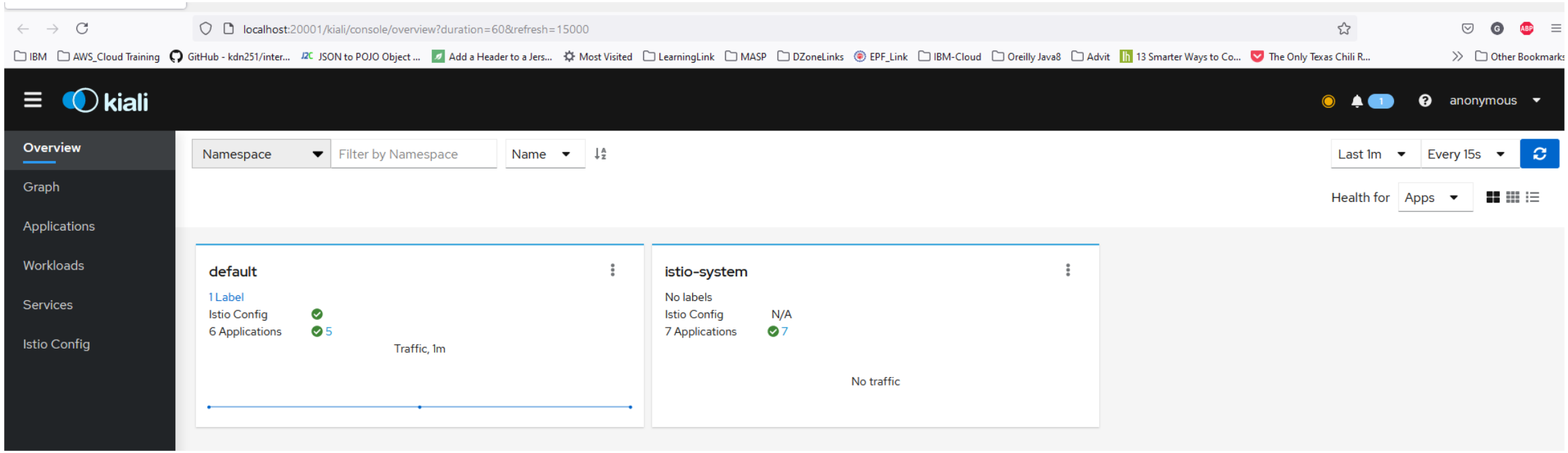
Accessing Kiali Dashboard

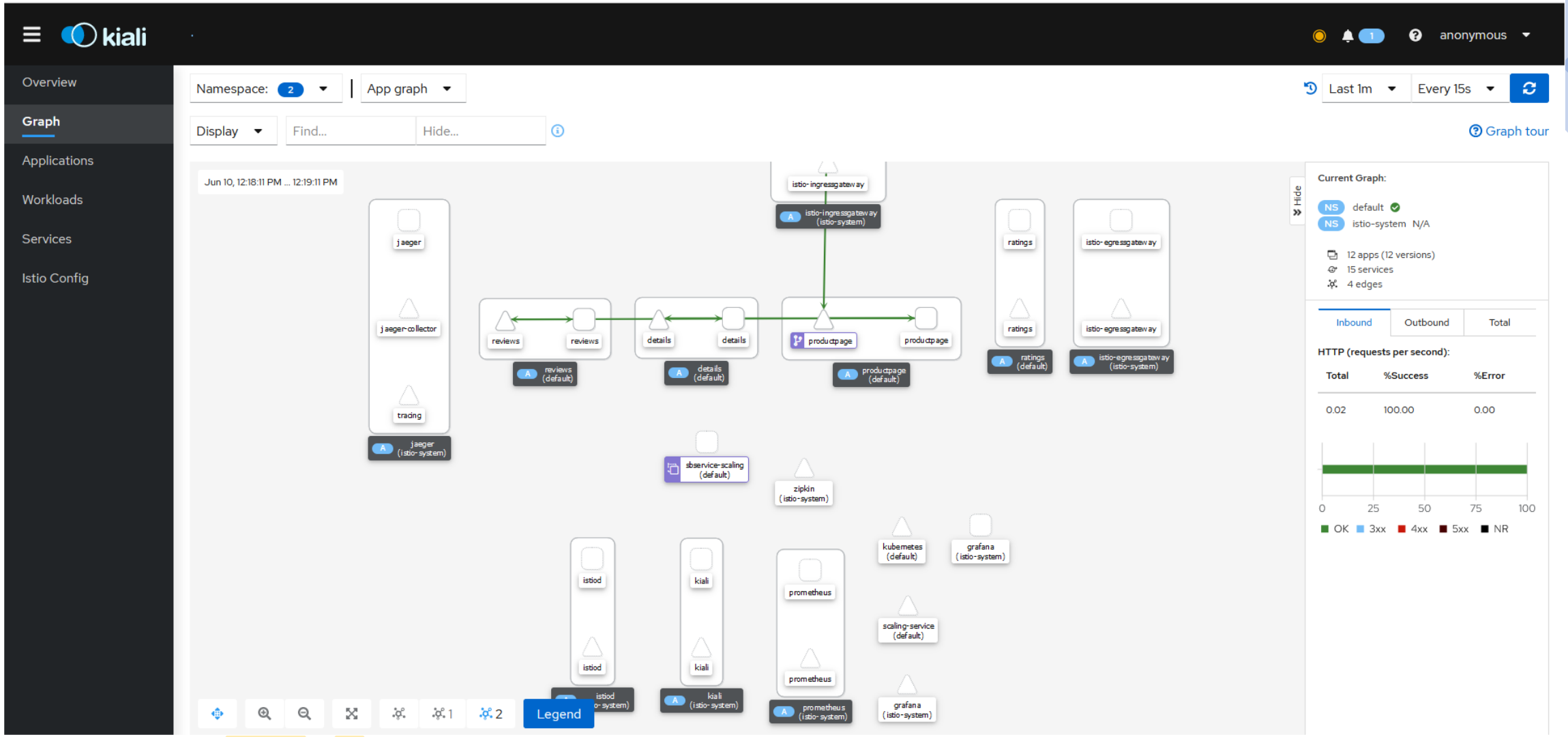
$ istioctl dashboard kiali

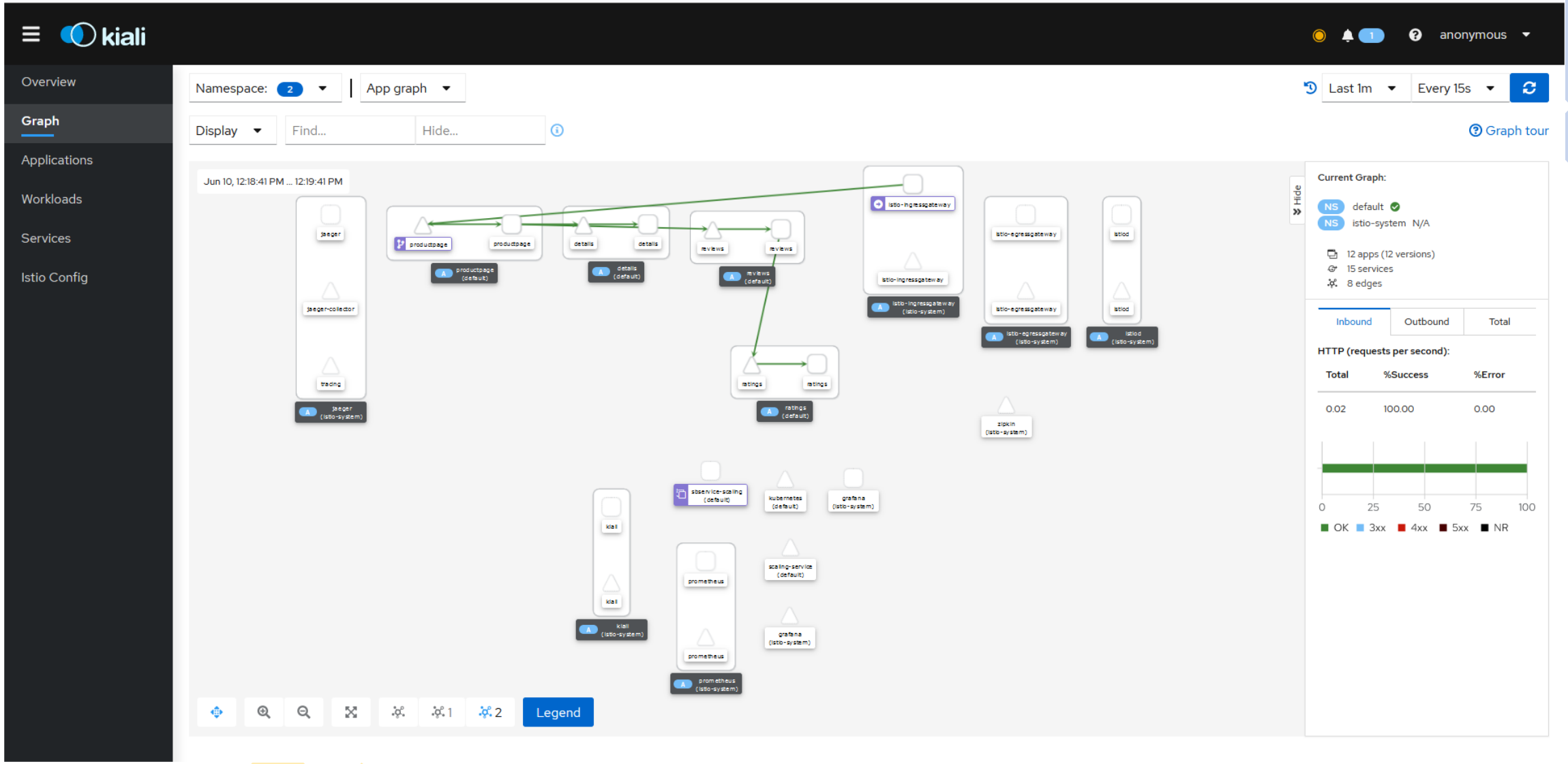
```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ export PATH=$PWD/bin:$PATH

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ istioctl dashboard kiali
http://localhost:20001/kiali
```

Kiali Dashboard UI


localhost:20001/kiali/console/overview?duration=60&refresh=15000
IBM
AWS_Cloud Training
GitHub - kdn251/inter...
JSON to POJO Object ...
Add a Header to a Jers...
Most Visited
LearningLink
MASP
DZoneLinks
EPF_Link
IBM-Cloud
Oreilly Java8
Advit
13 Smarter Ways to Co...
The Only Texas Chili R...
Other Bookmarks
kiali
anonymous
Overview
Graph
Applications
Workloads
Services
Istio Config
Namespace
Filter by Namespace
Name
Last 1m
Every 15s
Health for
Apps
default
1 Label
Istio Config
6 Applications
5
Traffic, 1m
istio-system
No labels
Istio Config
N/A
7 Applications
7
No traffic


kiali
anonymous
Overview
Graph
Applications
Workloads
Services
Istio Config
Namespace: 2
App graph
Last 1m
Every 15s
Display
Find...
Hide...
Graph tour
Jun 10, 12:18:11 PM ... 12:19:11 PM
istio-ingressgateway
istio-ingressgateway (istio-system)
jaeger
jaeger-collector
tracing
jaeger (istio-system)
reviews
reviews (default)
details
details (default)
productpage
productpage (default)
ratings
ratings (default)
istio-egressgateway
istio-egressgateway (istio-system)
sbservice-scaling (default)
zipkin (istio-system)
kubernetes (default)
grafana (istio-system)
istiod
istiod
kiali
kiali
kiali (istio-system)
prometheus
prometheus
prometheus (istio-system)
scaling-service (default)
grafana (istio-system)
Legend
Hide
Current Graph:
NS default
NS istio-system N/A
12 apps (12 versions)
15 services
4 edges
Inbound
Outbound
Total
HTTP (requests per second):
Total
%Success
%Error
0.02
100.00
0.00
0
25
50
75
100
OK
3xx
4xx
5xx
NR


kiali
anonymous
Overview
Graph
Applications
Workloads
Services
Istio Config
Namespace: 2
App graph
Last 1m
Every 15s
Display
Find...
Hide...
Graph tour
Jun 10, 12:18:41 PM ... 12:19:41 PM
Hide
Current Graph:
NS default
NS istio-system N/A
12 apps (12 versions)
15 services
8 edges
Inbound
Outbound
Total
HTTP (requests per second):
Total
%Success
%Error
0.02
100.00
0.00
0
25
50
75
100
OK
3xx
4xx
5xx
NR
Legend

Request Routing

Apply Default Destination Rules

$ kubectl apply -f samples/bookinfo/networking/destination-rule-all.yaml

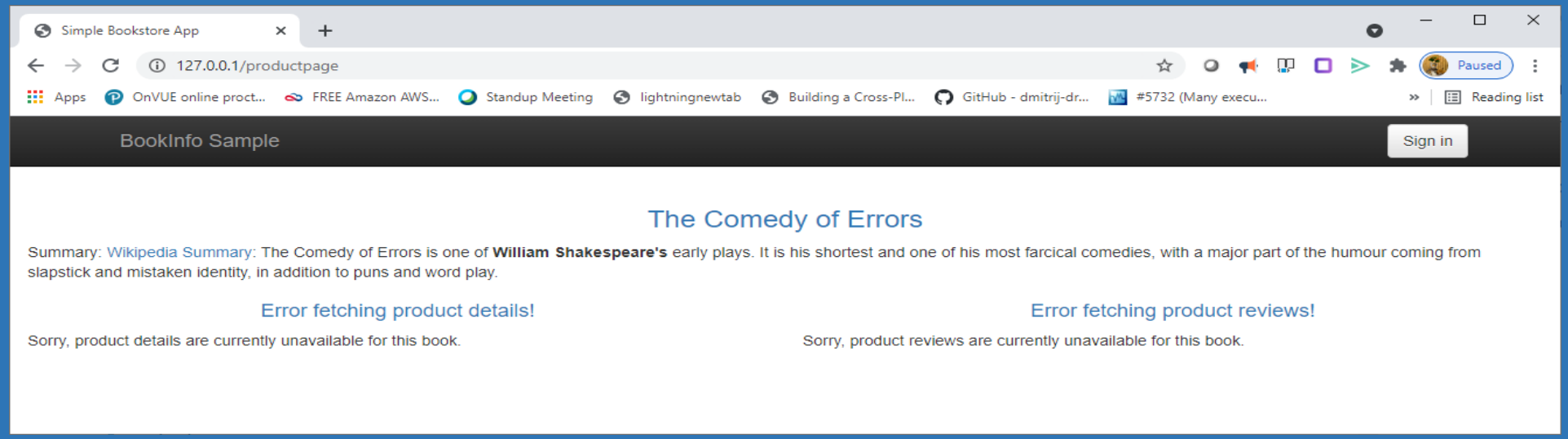
```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/destination-rule-all.yaml
destinationrule.networking.istio.io/productpage created
destinationrule.networking.istio.io/reviews created
destinationrule.networking.istio.io/ratings created
destinationrule.networking.istio.io/details created
```

Apply Virtual Service (All Requests Routes to V1):

$ kubectl apply -f samples/bookinfo/networking/virtual-service-all-v1.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ 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
```

With Multiple Request Same Page Display

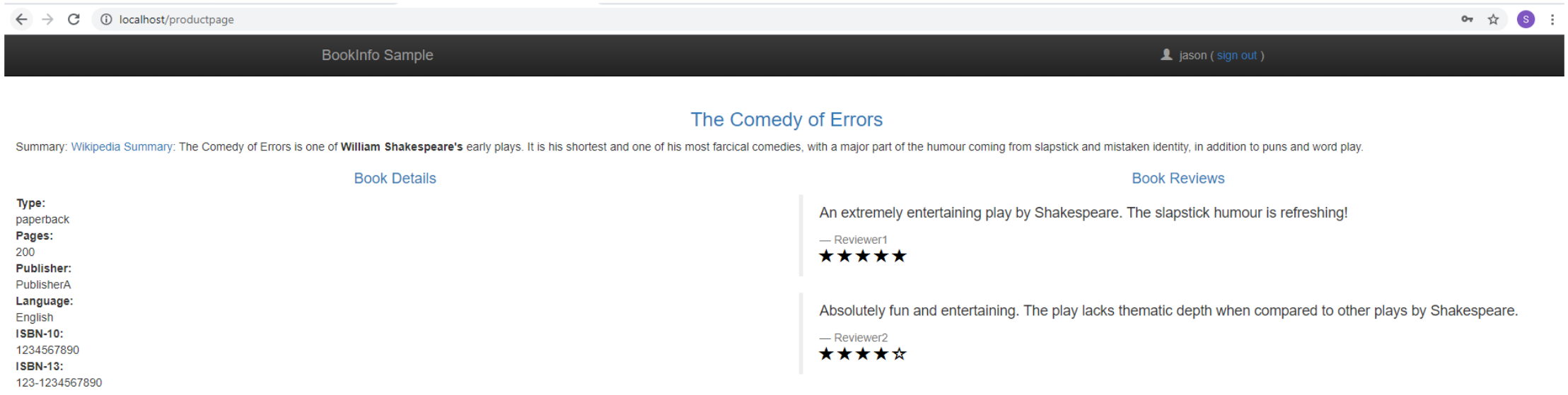


Route User Based Identity

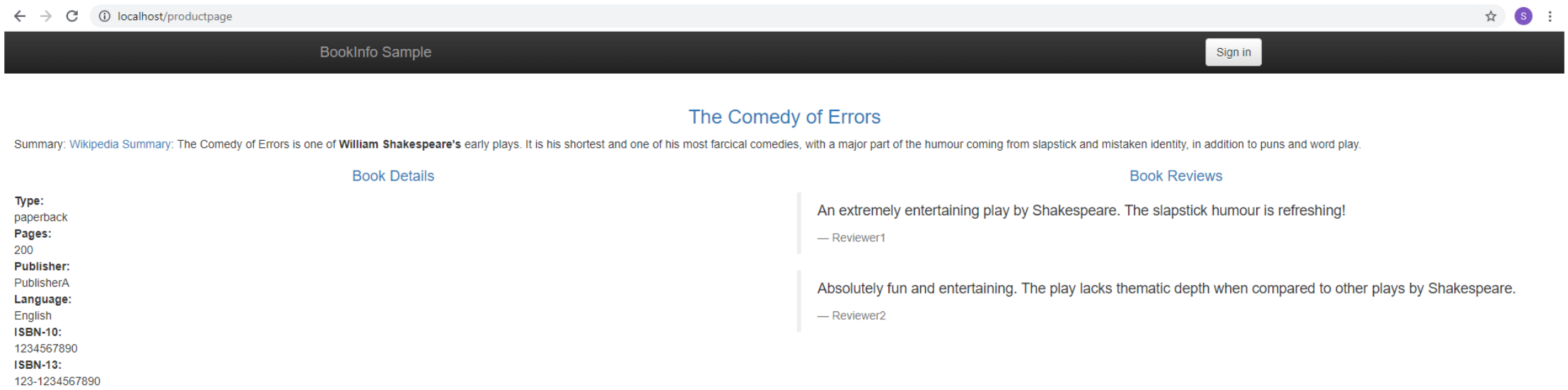
- **$ kubectl apply -f samples/bookinfo/networking/virtual-service-reviews-test-v2.yaml**

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/virtual-service-reviews-test-v2.yaml
virtualservice.networking.istio.io/reviews configured
```

Accessing Page (User:Jason Version-2 Displays)



Accessing Page (Default User. V1 Displays)



Cleanup

$ kubectl delete -f samples/bookinfo/networking/virtual-service-all-v1.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ 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
```

Fault Injection

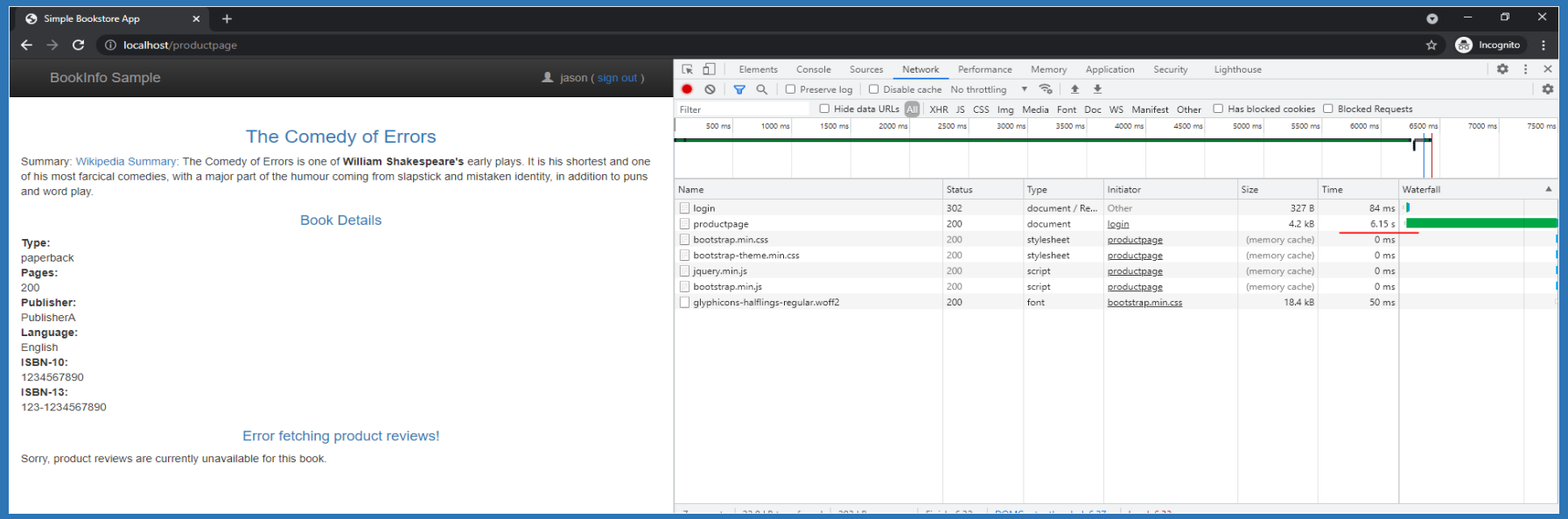
Applying Fault Injection

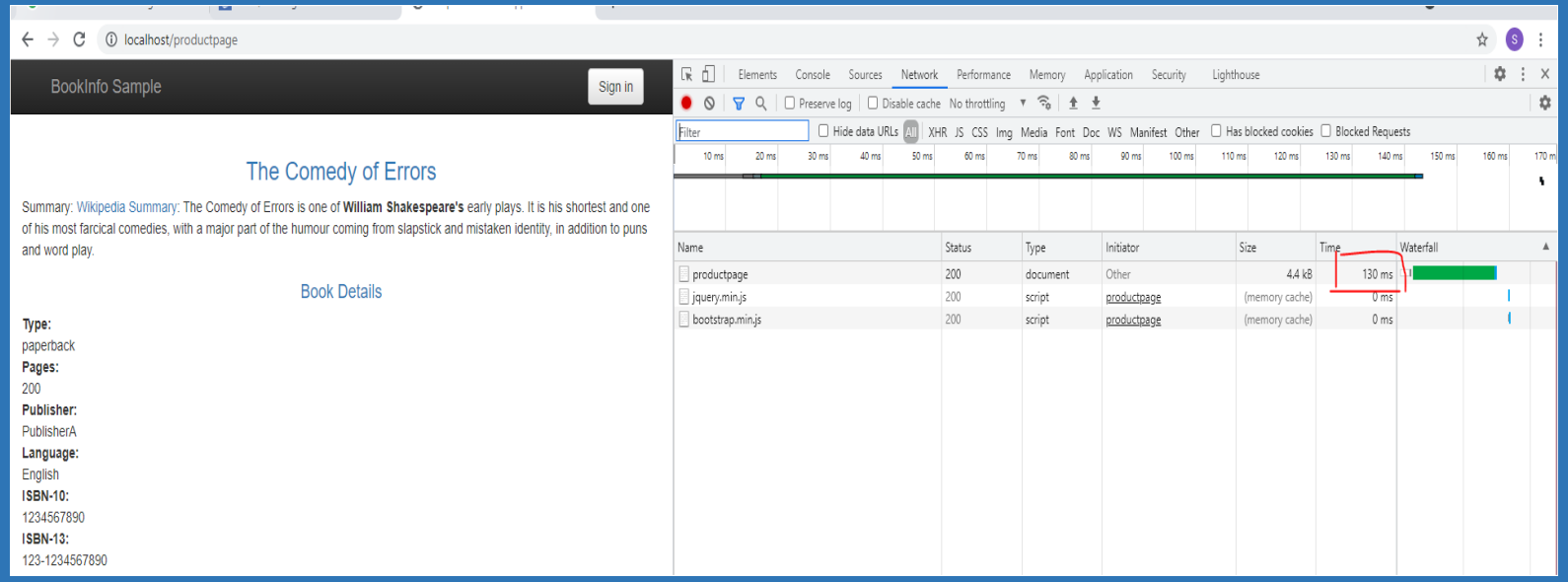
- $ kubectl delete -f samples/bookinfo/networking/virtual-service-all-v1.yaml
- kubectl apply -f samples/bookinfo/networking/virtual-service-all-v1.yaml
- kubectl apply -f samples/bookinfo/networking/virtual-service-reviews-test-v2.yaml
- kubectl apply -f samples/bookinfo/networking/virtual-service-ratings-test-delay.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ 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

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/virtual-service-reviews-test-v2.yaml
virtualservice.networking.istio.io/reviews configured

GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/virtual-service-ratings-test-delay.yaml
virtualservice.networking.istio.io/ratings configured
```


Simple Bookstore App
localhost/productpage
Incognito
BookInfo Sample
jason (sign out)
The Comedy of Errors
Summary: Wikipedia Summary: The Comedy of Errors is one of William Shakespeare's early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.
Book Details
Type:
paperback
Pages:
200
Publisher:
PublisherA
Language:
English
ISBN-10:
1234567890
ISBN-13:
123-1234567890
Error fetching product reviews!
Sorry, product reviews are currently unavailable for this book.
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Lighthouse
Preserve log
Disable cache
No throttling
Filter
Hide data URLs
All
XHR
JS
CSS
Img
Media
Font
Doc
WS
Manifest
Other
Has blocked cookies
Blocked Requests
Name
Status
Type
Initiator
Size
Time
Waterfall
login 302 document / Re... Other 327 B 84 ms
productpage 200 document login 4.2 kB 6.15 s
bootstrap.min.css 200 stylesheet productpage (memory cache) 0 ms
bootstrap-theme.min.css 200 stylesheet productpage (memory cache) 0 ms
jquery.min.js 200 script productpage (memory cache) 0 ms
bootstrap.min.js 200 script productpage (memory cache) 0 ms
glyphicons-halflings-regular.woff2 200 font bootstrap.min.css 18.4 kB 50 ms


localhost/productpage
BookInfo Sample
Sign in
The Comedy of Errors
Summary: Wikipedia Summary: The Comedy of Errors is one of William Shakespeare's early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.
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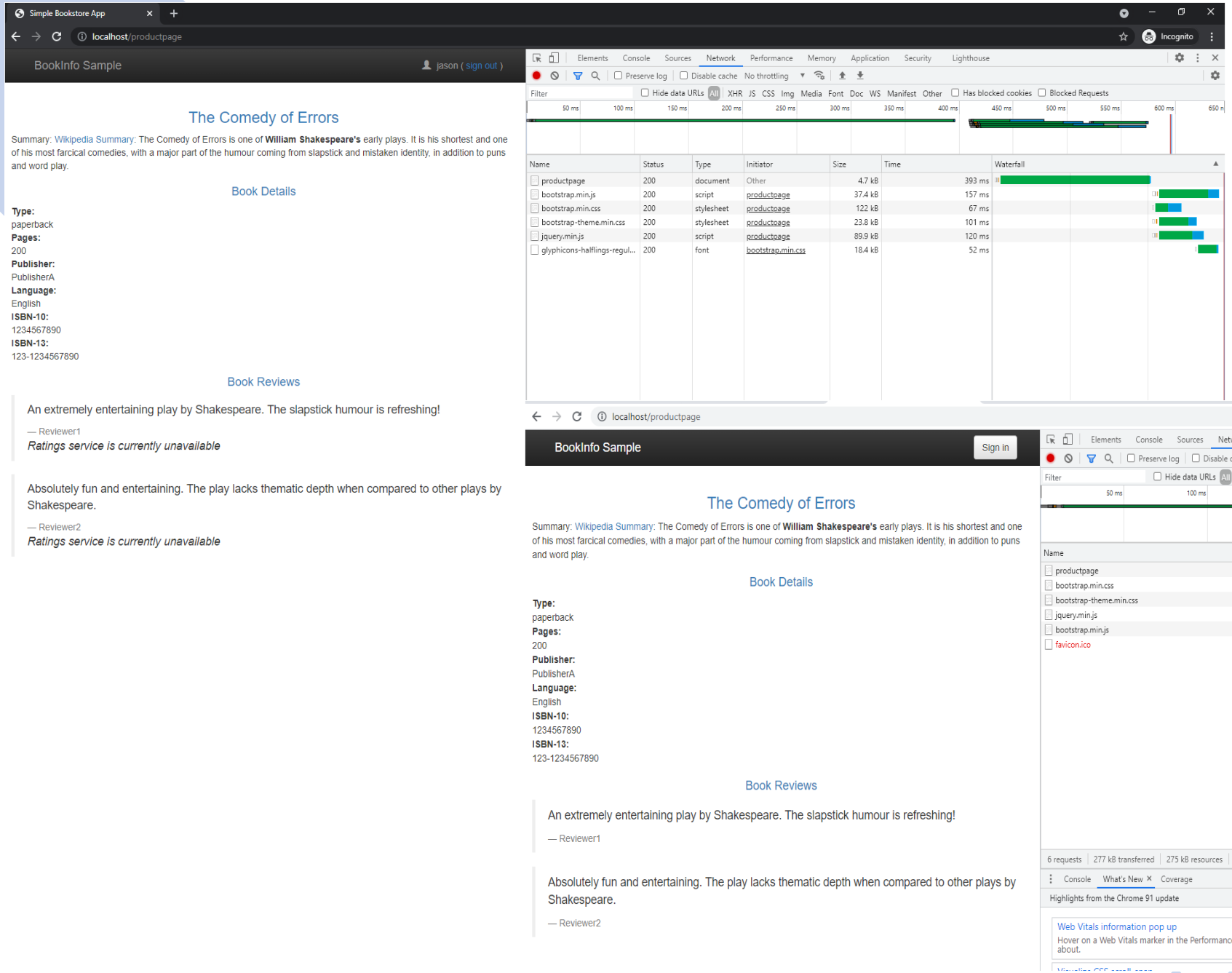
123-1234567890
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Lighthouse
Preserve log
Disable cache
No throttling
Filter
Hide data URLs
All
XHR
JS
CSS
Img
Media
Font
Doc
WS
Manifest
Other
Has blocked cookies
Blocked Requests
Name
Status
Type
Initiator
Size
Time
Waterfall
productpage 200 document Other 4.4 kB 130 ms
jquery.min.js 200 script productpage (memory cache) 0 ms
bootstrap.min.js 200 script productpage (memory cache) 0 ms

Aborting Injection of HTTP fault

$ kubectl apply -f samples/bookinfo/networking/virtual-service-ratings-test-abort.yaml

```
GMX+04828W744@DESKTOP-5KTEPAC MINGW64 /c/Softwares/istio-1.10.0-win/istio-1.10.0
$ kubectl apply -f samples/bookinfo/networking/virtual-service-ratings-test-abort.yaml
virtualservice.networking.istio.io/ratings configured
```


Simple Bookstore App
localhost/productpage
BookInfo Sample
jason (sign out)
The Comedy of Errors
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Book Details
Type:
paperback
Pages:
200
Publisher:
PublisherA
Language:
English
ISBN-10:
1234567890
ISBN-13:
123-1234567890
Book Reviews
An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!
— Reviewer1
Ratings service is currently unavailable
Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.
— Reviewer2
Ratings service is currently unavailable
Elements Console Sources Network Performance Memory Application Security Lighthouse
Name Status Type Initiator Size Time Waterfall
productpage 200 document Other 4.7 kB 393 ms
bootstrap.min.js 200 script productpage 37.4 kB 157 ms
bootstrap.min.css 200 stylesheet productpage 122 kB 67 ms
bootstrap-theme.min.css 200 stylesheet productpage 23.8 kB 101 ms
jquery.min.js 200 script productpage 89.9 kB 120 ms
glyphicons-halflings-regul... 200 font bootstrap.min.css 18.4 kB 52 ms
BookInfo Sample
Sign in
The Comedy of Errors
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PublisherA
Language:
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ISBN-10:
1234567890
ISBN-13:
123-1234567890
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
Name Status Type Initiator Size Time Waterfall
productpage 200 document Other 4.4 kB 149 ms
bootstrap.min.css 200 stylesheet productpage 122 kB 109 ms
bootstrap-theme.min.css 200 stylesheet productpage 23.8 kB 93 ms
jquery.min.js 200 script productpage 89.9 kB 62 ms
bootstrap.min.js 200 script productpage 37.4 kB 93 ms
favicon.ico 404 text/plain Other 103 B 10 ms
6 requests 277 kB transferred 275 kB resources Finish: 344 ms DOMContentLoaded: 323 ms Load: 328 ms
Console What's New Coverage
Highlights from the Chrome 91 update
Web Vitals information pop up
Hover on a Web Vitals marker in the Performance panel to understand what's the indicator about.

The End