

### **CONTINUOUS ASSESSMENT**

# LAB6

# CLOUD DATA CENTRES ZAPPC4202

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**YEAR:** 4

**COURSE: INFORMATION TECHNOLOGY MANAGEMENT** 

**ISSUED YEAR: 2024** 

**LECTURER:** LEI SHI

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#### **Traffic Shifting**

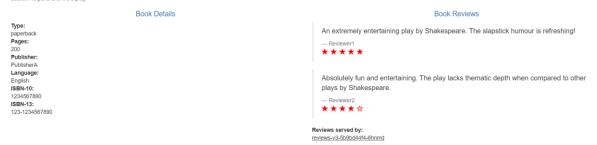
#### Apply weight-based routing





#### 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 pure and word play.

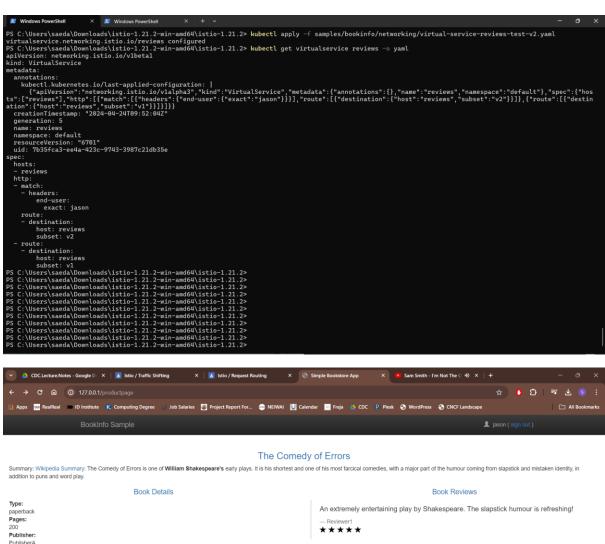


#### **Understanding what happened**

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PS C:\Users\secda\Dom\candd\sition_1_21_2=\text{min-anddG\sition_1_21_2}\text{kubectl apply -f samples/bookinfo/networking/virtual-service-all-v1.yaml virtualservice.networking_istio.io/productpage unchanged virtualservice.networking_istio.io/productpage unchanged virtualservice.networking_istio.io/productpage unchanged virtualservice.networking_istio.io/detals unchanged virtualservice.networking_istio.io/detals unchanged virtualservice.networking_istio.io/detals unchanged virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_istio.io/virtualservice.networking_is
```

#### **Request Routing**

#### Route based on user identity



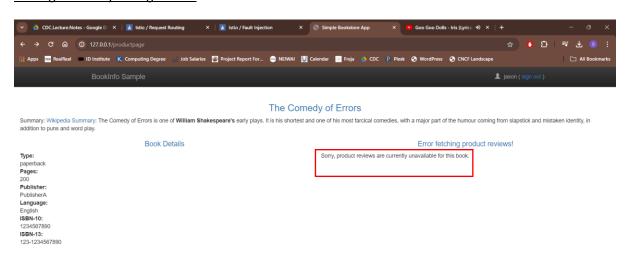


#### **Fault Injection**

#### Injecting an HTTP delay fault

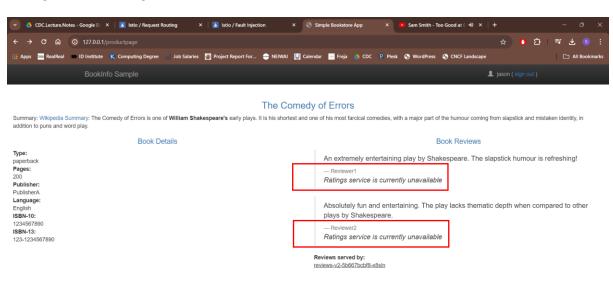
```
PS C:\Users\sacda\Dom\categorian \times \tim
```

#### Testing the delay configuration



#### Injecting an HTTP abort fault

#### Testing the abort configuration





#### 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 Book Reviews** Type: paperback Pages: 200 Publisher: PublisherA Language: English ISBN-10: 1234567890 ISBN-13: 123-1234567890 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 Reviews served by: reviews-v1-5b5d6494f4-jlxwd

#### **Circuit Breaking**

#### Configuring the circuit breaker

```
Windows PowerShell X Windows PowerShell X + v

PS C:\Users\saeda\Downloads\istio-1.21.2-win-amd64\istio-1.21.2> kubectl apply -f samples/httpbin/httpbin.yaml
serviceaccount/httpbin unchanged
deployment.apps/httpbin yamles are not allowed in this context
PS C:\Users\samples apples // yamle are not allowed in this context

### C:\Users\samples // yamles are not allowed in this context

### Discrete // yamles are not allowed in this context

### Discrete // yamles are not allowed in this context

### Discrete // yamles are not allowed in this context

### Discrete // yamles are not allowed in this context

### Discrete // yamles // y
        : line:1 char:18
kubectl apply -f <(istioctl kube-inject -f samples/httpbin/sample-cli ..

ie '<' operator is reserved for future use.

+ CategoryInfo : ParserError: (;) [], ParentContainsErrorReco

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       ! four.yaml ! httpbin.yaml ×
                                           C.) Users > saeda > Downloads > istio-1.21.2-win-amd64 > istio

apiversion: networking.istio.io/v1alpha3
kind: DestinationRul

metadata:
metadata:
metadata:
nese: httpbin
spec:
bo host: httpbin
trafficPolicy:
connectionPool:
tcp:
maxConnections: 1
http:
httpMaxPendingRequests: 1
maxRequestSPerConnection: 1
outlierDetection:
consecutivexSwarPoors: 1
interval: 1s
bases[setionTime: 3m
       0
        20
        <<u>1</u>
     B
                                                                                  maxConnections: 1
http:
http:MaxPendingRequests: 1
maxRequestsPerConnection:
outlierDetection:
consecutiveSxXErrors: 1
interval: 1s
baseEjectionTime: 3m
maxEjectionPercent: 100
       (8)
        503
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```

#### Adding a client