Lab 4 Report



Name: Dawid Pionk

Document: Report for the fourth lab

Supervisor: Lei Shi

Submission Date: 18/05/25

Table of Contents

[Deploy the sample application 3](#_Toc197033272)

[Open the application to outside traffic 4](#_Toc197033273)

[Access the application 5](#_Toc197033274)

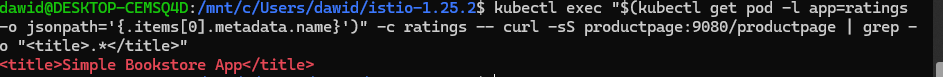
[View the dashboard 6](#_Toc197033275)

# Deploy the sample application

1. Deployed the sample application
2. Viewed services of the sample application
3. Viewed pods of the sample application
4. Validated that the app is running by checking the page title
   1. Had issues with this section; the command given wasn’t working. I had to run the following to fix it, which basically downloads the samples:
      1. docker pull istio/examples-bookinfo-ratings-v1:1.20.2
         1. This turned out to be a false solution, since I just needed to wait longer to input the command

A screenshot of a computer program

AI-generated content may be incorrect.Above, you can see on the last line the error I was getting

Here’s the final result

# Open the application to outside traffic

1. Created a Kubernetes gateway for the bookinfo application
   1. Kubernetes gateway is an external entry point into a Kubernetes cluster
2. Changes the service type of ClusterIP
3. Checked the status of the gateway

A screen shot of a computer program

AI-generated content may be incorrect.

# Access the application

1. Used a kubectl port-forward command to access the gateway
2. Accessed the hosted website at http://localhost:8080/productpage

A computer screen shot of a computer screen

AI-generated content may be incorrect.

# View the dashboard

1. Installed Kiali and other addons
2. Accessed the Kiali dashboard
3. Viewed the graphs section for default
   1. Ran for i in $(seq 1 100); do curl -s -o /dev/null "http://$GATEWAY\_URL/productpage"; done to see the traffic
   2. Replaced getaway\_url with the localhost

A screenshot of a computer

AI-generated content may be incorrect.