



Istio Cookbook

Kiali Recipe

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Welcome to the Istio+Kiali Workshop !

What will we do ?

Install Kubernetes + Istio

Deploy Demo Apps

Navigate through Istio using Kiali

How will we do ?

Using GCP or Minikube



Workshop Resources

What will we use ?

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

<https://kiali.io/documentation/latest/tutorial/>



Platform Choice

Google Cloud Platform ?

<https://console.cloud.google.com/>

Do you need to share a GCP Project ? **[*]**

MiniKube ?

<https://istio.io/latest/docs/setup/platform-setup/minikube/>

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[*] <https://docs.google.com/spreadsheets/d/1CmtLnaxVJdJGh7rt47pk4OwCbaL3dZ631YA6ul25a0E/edit?usp=sharing>



Basic Local DNS Update - /etc/hosts

Linux

```
sudo vi /etc/hosts
```

MacOS

```
sudo nano /private/etc/host
```

Windows

```
c:\Windows\System32\Drivers\etc\hosts [*]
```

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[*] <https://gist.github.com/zenorocha/18b10a14b2deb214dc4ce43a2d2e2992>



Workshop Agenda

1. Prepare a Kubernetes + Istio cluster
2. Learn the Travels Demo application
3. First Steps
4. Observe
5. Connect
6. Secure

<https://kiali.io/documentation/latest/tutorial/>



[1] Prepare a Kubernetes + Istio Cluster

<https://istio.io/latest/docs/setup/platform-setup/>

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

Workshop Cheat Sheet

<https://gist.github.com/lucasponce/1c9fd67c9f7849d452138f56dd7f8ef3>

Estimated Duration: 15-25m

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[2] Learn the Travels Demo Application

1. [Deploy the Travels Demo](#)
2. [Understanding the demo application](#)

Estimated Duration: 15m

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[3] First Steps

1. [Missing Sidecars](#)
2. [Enable Sidecars](#)
3. [Open Travels Demo to outside traffic](#)

Estimated Duration: 15m

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[4] Observe

1. Enable Sidecars in all workloads
2. Graph walkthrough
3. Application details

Estimated Duration: 25m

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[5] Connect

1. [Request Routing](#)
2. [Fault Injection](#)
3. [Traffic Shifting](#)
4. [TCP Traffic Shifting](#)
5. [Request Timeouts](#)
6. [Circuit Breaking](#)
7. [Mirroring](#)

Estimated Duration: 45-60m

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[6] Secure

1. Authorization Policies

Estimated Duration: 15m

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Thank you!

@KialiProject Twitter
#kiali Istio Slack
Freenode IRC
(Yes, we use IRC)

<https://kiali.io>

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