

推荐|目前最完整的Istio Service Mesh示例教程汇总

原创：Jimmy Song ServiceMesher 今天



ServiceMesher

<http://www.servicemesher.com>

技术传播 · 行业交流 · 开源文化 · 企业落地

ServiceMesher

8月1日0点，Istio 1.0发布，已生产就绪！大家都已经跃跃欲试了，几天前我发布了一键在本地搭建运行Istio 1.0的分布式Kubernetes集群教程，在本地搭建起来还是有些门槛，稍显复杂，现在我推荐几个可以在线上学习的地方。这是目前搜集的比较完整的Istio学习环境和包含代码的示例教程有如下几个：

- Katacoda的学习环境
- Istio官方的bookinfo教程
- IBM的Istio示例教程
- 我Fork的RedHat的Demo，Christian Posta在OSCON上的Istio workshop


Katacode上的Istio学习环境

推荐指数：★★★★★

推荐原因：使用简单，使用官方示例，免费，快速，无需注册，可直接通过互联网访问示例应用页面，支持最新版的Istio。

Katacoda已支持Istio 1.0的学习环境。

地址：<https://www.katacoda.com/courses/istio/deploy-istio-on-kubernetes>


Katacoda

[More Information about Katacoda](#)
[Search](#)
[Blog](#)
[Log In](#)
[Sign Up](#)

Get Started with Istio and Kubernetes

◀ **Step 2 of 8** ▶

Deploy Istio

Istio is installed in two parts. The first part involves the CLI tooling that will be used to deploy and manage Istio backed services. The second part configures the Kubernetes cluster to support Istio.

Install CLI tooling

The following command will install the Istio 1.0.0 release.

```
curl -L https://git.io/getLatestIstio | ISTIO_VERSION=1.0.0 sh - ✓
```

After it has successfully run, add the bin folder to your path.

```
export PATH="$PATH:/root/istio-1.0.0/bin" ↵
```

```
cd /root/istio-1.0.0 ↵
```

Configure Istio CRD

Istio has extended Kubernetes via Custom Resource Definitions (CRD). Deploy the extensions by applying `crds.yaml`.

```
kubectl apply -f
```

Terminal Host 1

+

Your Interactive Bash Terminal.

```


master $ curl -L https://git.io/getLatestIstio | ISTIO_VERSION=1.0.0 sh -
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0      0      0  --:--:-- --:--:-- --:--:--    0
100 1447 100 1447    0     0  1419    0  0:00:01 0:00:01 --:--:--  1419
Downloading istio-1.0.0 from https://github.com/istio/istio/releases/download/1.0.0/istio-1.0.0-linux
.tar.gz ...
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
  0    614    0    614    0     0   1089    0  --:--:-- --:--:-- --:--:--  1088
64 14.1M 64 9365k    0     0  1003k    0  0:00:14 0:00:09 0:00:05 1058k

```

Terminal Host 2

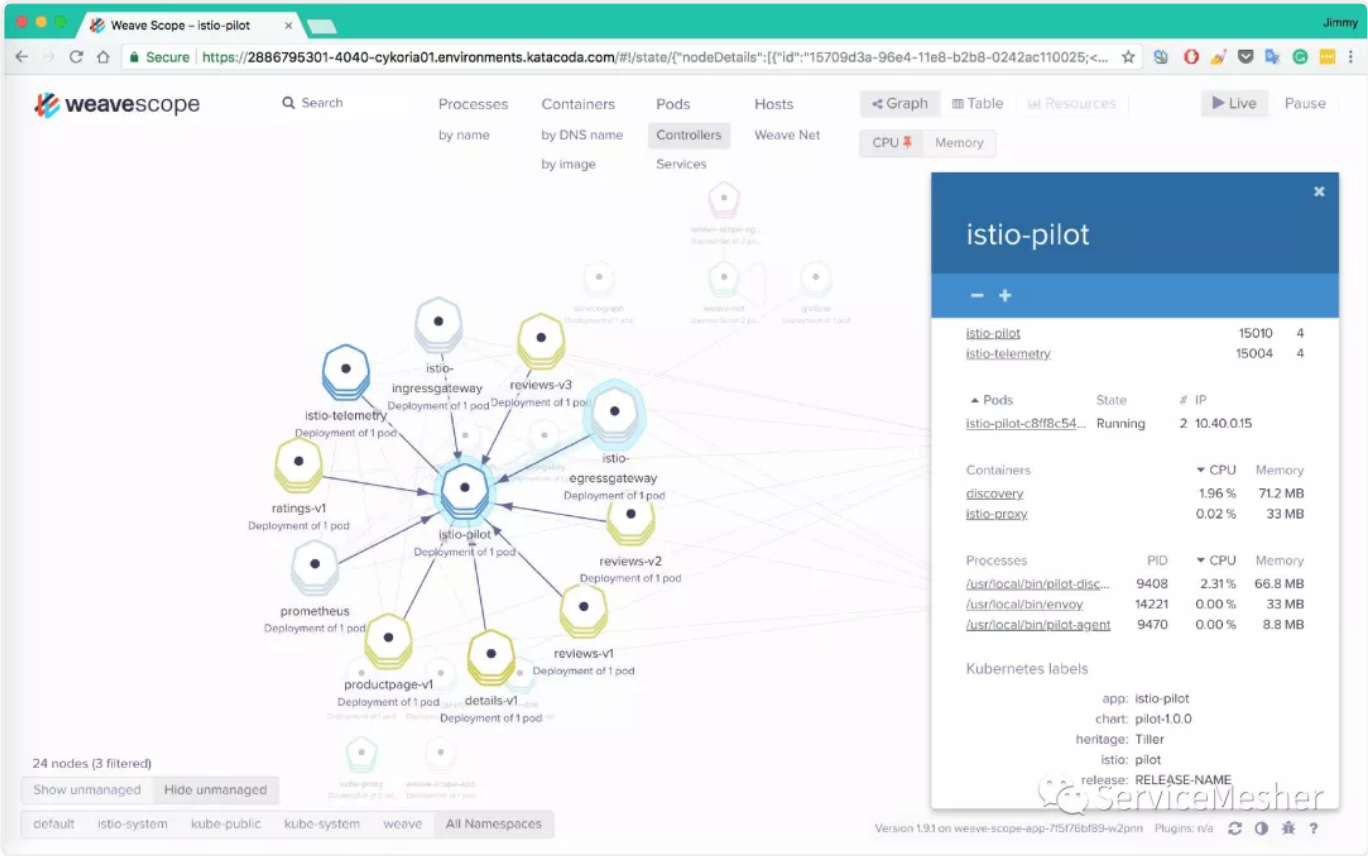
Your Interactive Bash Terminal.

```
node01 $
```


ServiceMesh

[illegible]

只要傻瓜式操作就可以部署一个Istio出来，同时还提供了Weave scope可以对service mesh的中的服务关系做可视化呈现。

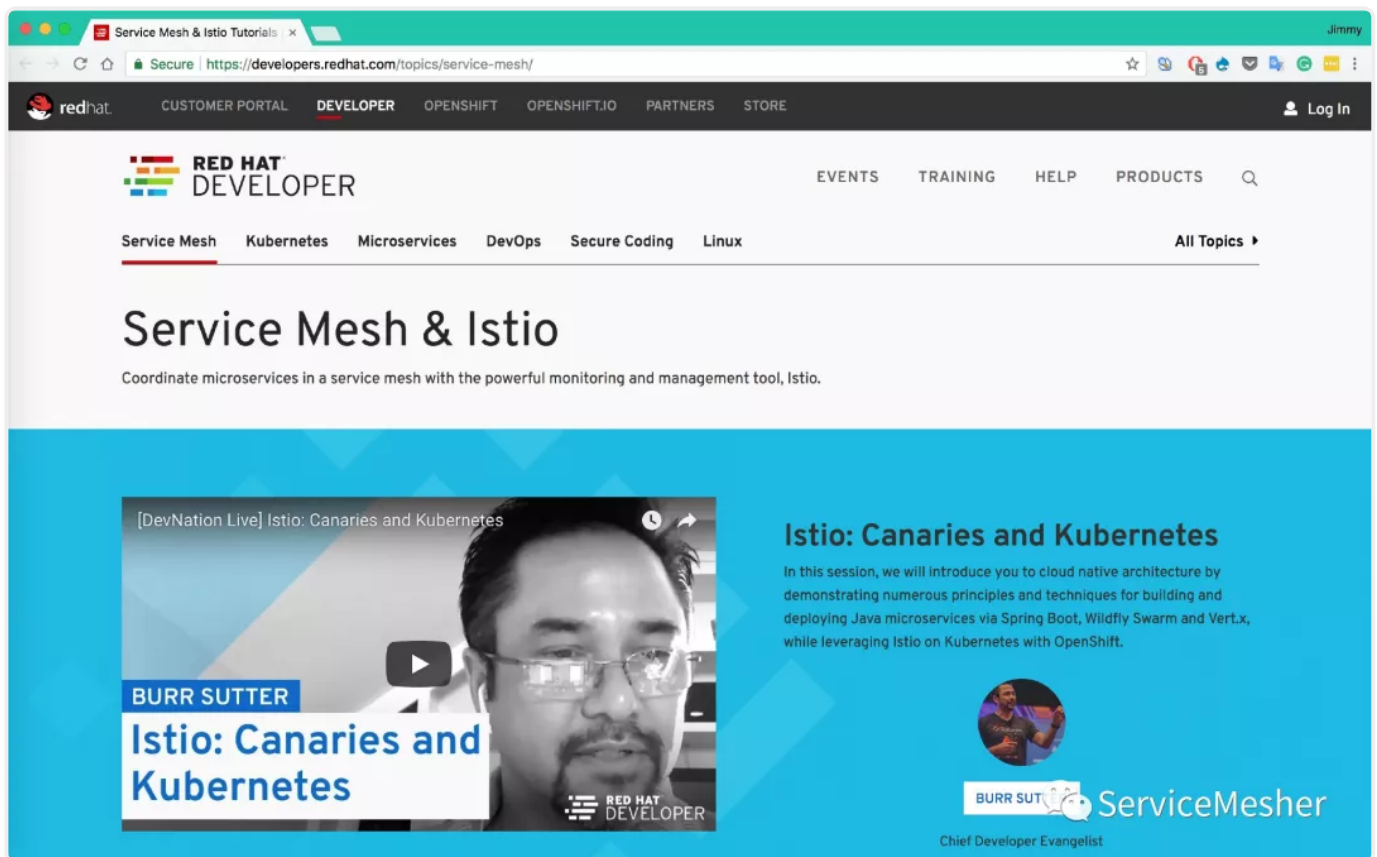


同时还能提供部分监控功能，比如服务状态，CPU和内存使用情况。

Red Hat提供的Istio教程

推荐指数：★★★★

推荐原因：教程topic划分简洁得当，RedHat大力加持，未来的频繁更新可以预期。



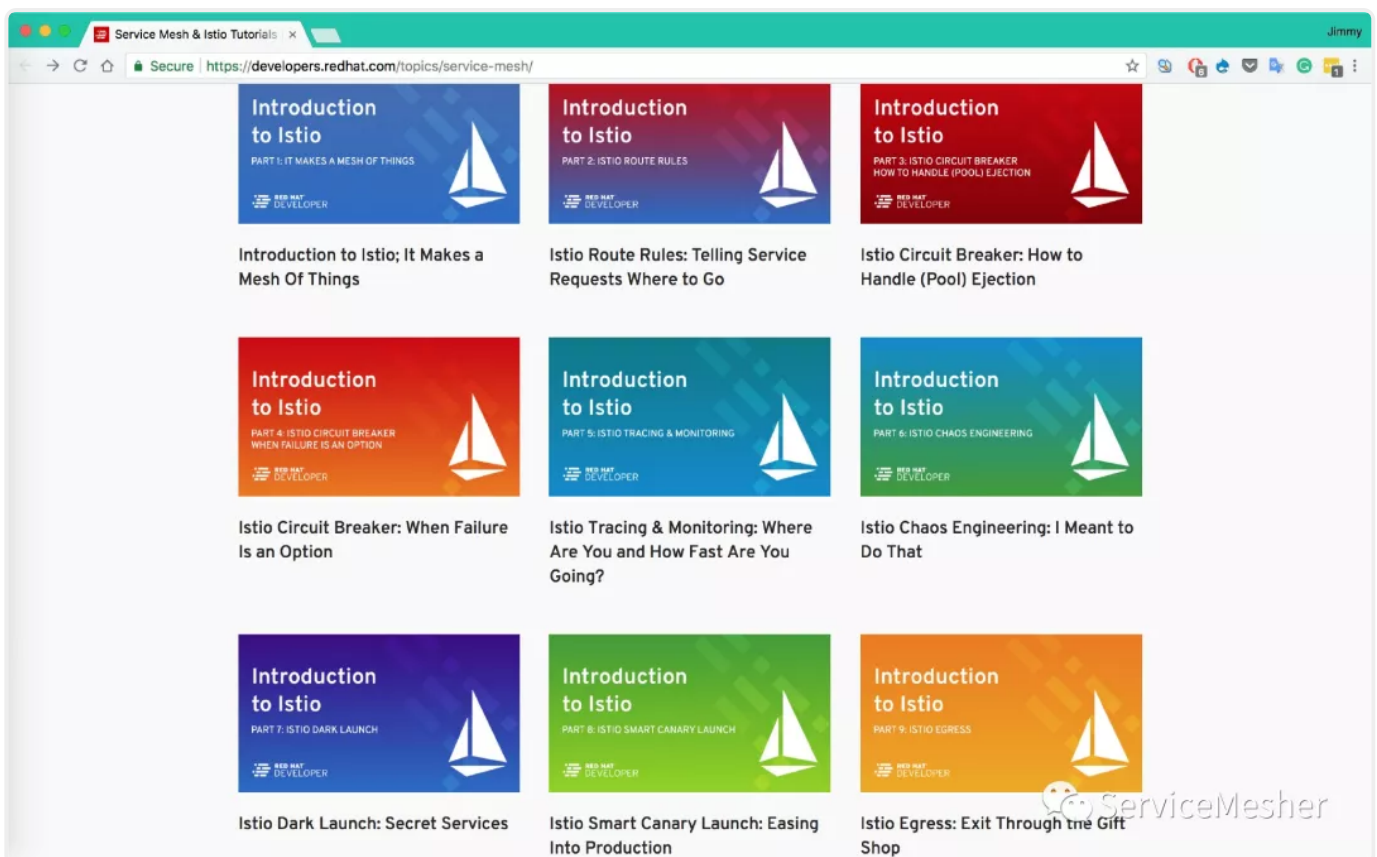
Service Mesh & Istio

Coordinate microservices in a service mesh with the powerful monitoring and management tool, Istio.

Istio: Canaries and Kubernetes

In this session, we will introduce you to cloud native architecture by demonstrating numerous principles and techniques for building and deploying Java microservices via Spring Boot, Wildfly Swarm and Vert.x, while leveraging Istio on Kubernetes with OpenShift.

Burr Sutter
ServiceMesher
Chief Developer Evangelist



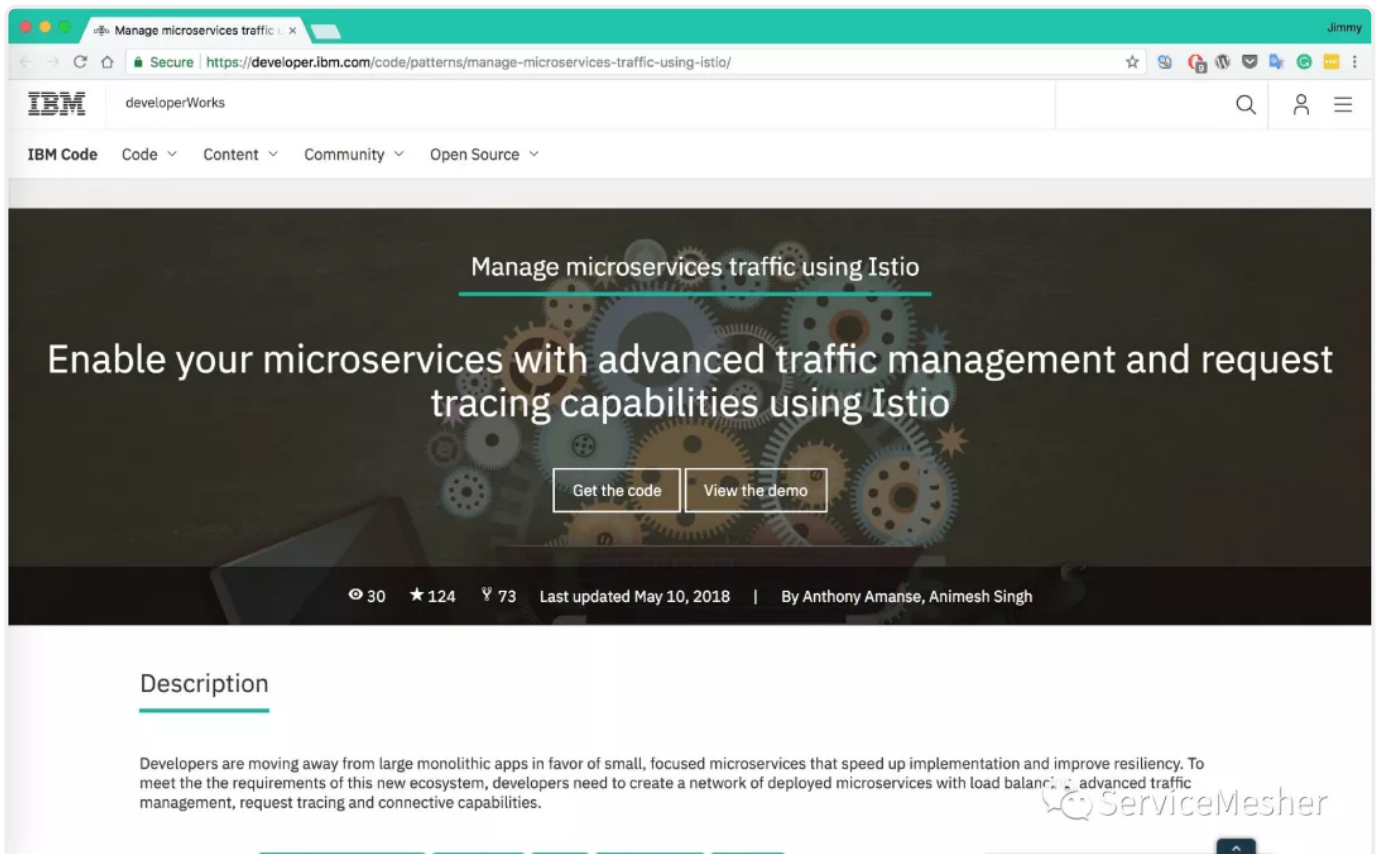
Card Title	Subtitle	Description
Introduction to Istio	PART 1: IT MAKES A MESH OF THINGS	Introduction to Istio; It Makes a Mesh Of Things
Introduction to Istio	PART 2: ISTIO ROUTE RULES	Istio Route Rules: Telling Service Requests Where to Go
Introduction to Istio	PART 3: ISTIO CIRCUIT BREAKER HOW TO HANDLE (POOL) EJECTION	Istio Circuit Breaker: How to Handle (Pool) Ejection
Introduction to Istio	PART 4: ISTIO CIRCUIT BREAKER WHEN FAILURE IS AN OPTION	Istio Circuit Breaker: When Failure Is an Option
Introduction to Istio	PART 5: ISTIO TRACING & MONITORING	Istio Tracing & Monitoring: Where Are You and How Fast Are You Going?
Introduction to Istio	PART 6: ISTIO CHAOS ENGINEERING	Istio Chaos Engineering: I Meant to Do That
Introduction to Istio	PART 7: ISTIO DARK LAUNCH	Istio Dark Launch: Secret Services
Introduction to Istio	PART 8: ISTIO SMART CANARY LAUNCH	Istio Smart Canary Launch: Easing Into Production
Introduction to Istio	PART 9: ISTIO EGRESS	Istio Egress: Exit Through the Gift Shop

IBM的Istio示例教程

推荐指数：***

推荐原因：IBM作为Istio项目的联合创始公司，在Istio中也有大量的投入，未来可能会有更多的示例放出。

<https://developer.ibm.com/code/patterns/manage-microservices-traffic-using-istio>



Manage microservices traffic using Istio

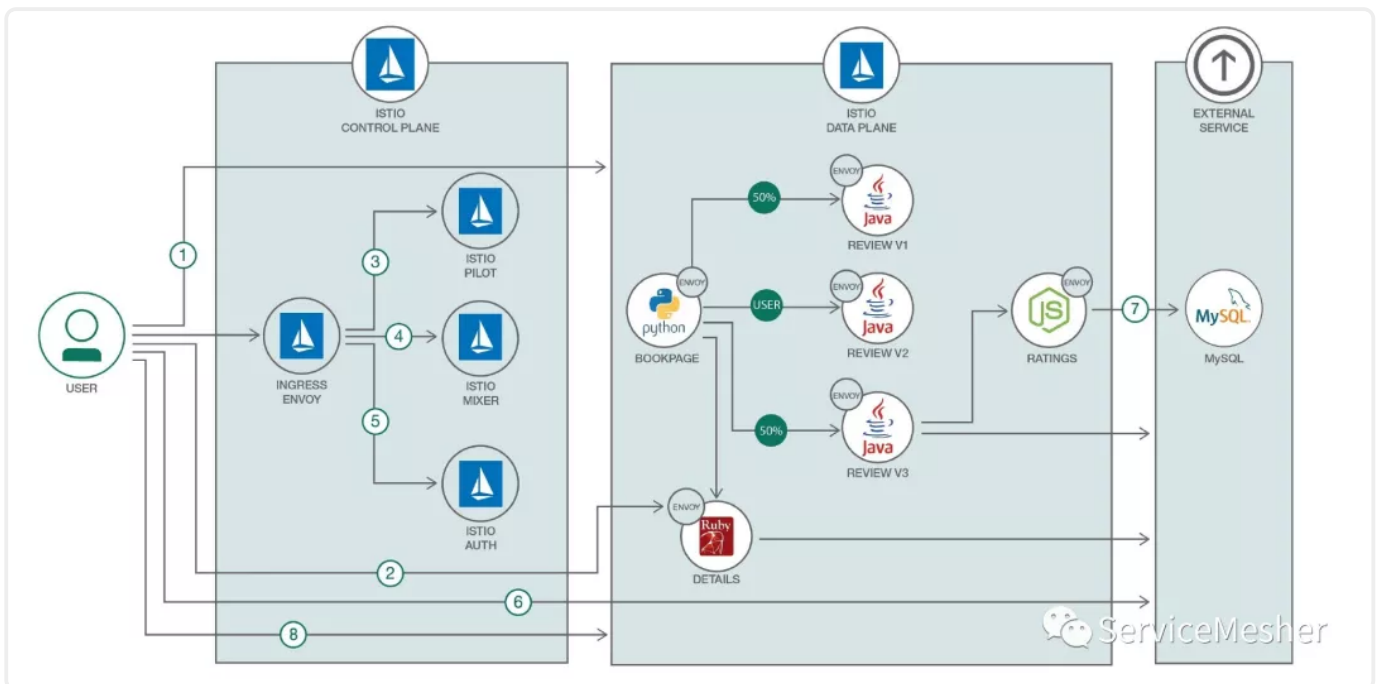
Enable your microservices with advanced traffic management and request tracing capabilities using Istio

Get the code View the demo

30 ★ 124 ♻ 73 Last updated May 10, 2018 | By Anthony Amanse, Animesh Singh

Description

Developers are moving away from large monolithic apps in favor of small, focused microservices that speed up implementation and improve resiliency. To meet the the requirements of this new ecosystem, developers need to create a network of deployed microservices with load balancing, advanced traffic management, request tracing and connective capabilities.



最后更新于2018年5月10号，是基于Istio 0.8的。

GitHub地址：<https://github.com/IBM/microservices-traffic-management-using-istio/>

其他

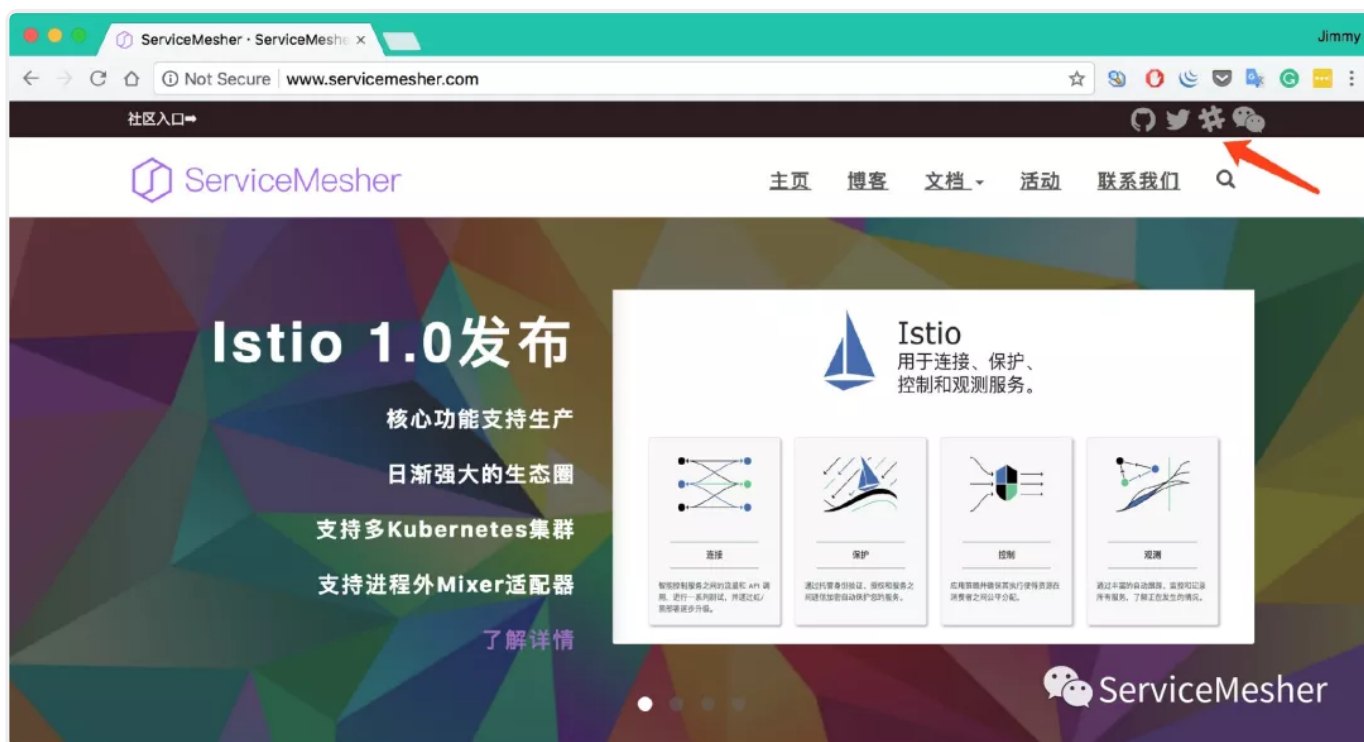
推荐指数：***

推荐原因：个人演示项目，方便定制和修改代码。

- 我个人Fork的RedHat的Java微服务中使用Istio的教程的demo（中文），目前基于Istio 0.8，未来将支持1.0：<https://github.com/rootsongjc/istio-tutorial>
- Christian Posta 在 OSCON 上 使用的 Istio workshop：<https://github.com/christian-posta/istio-workshop>

点击【阅读原文】可以直接点击本文中的链接。

🔊ServiceMesher社区新增Slack和Twitter关注方式，欢迎follow。



社区网址：<http://www.servicemesh.com>

Slack：<https://servicemesh.slack.com> 需要邀请才能加入，有志于加入ServiceMesher社区为Service Mesh作出贡献的同学可以联系我。



Twitter: <https://twitter.com/servicemesher>

欢迎大家加入 ServiceMesher 社区，并在本公众号上踊跃投稿，投稿方式请访问：

<https://github.com/servicemesher/trans>



[阅读原文](#)

