Istio Envoy Certification Training

Coordinator Name

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Duration: 15 Hours

Description:

Istio is a service mesh - a component which lets you take control of the network communication between your application services. You can manage traffic routing, security, and telemetry centrally without changing code or configuration.

This certified course helps anyone who aspires to make a career as a Istio professional Istio Certified Professional certification assure recruiters that the Istio

professional whom we are going to hire have the skills, knowledge, and competency to perform the responsibilities what expected from them after hiring.

Course Objectives:

This course teaches you how to:

- The Istio Control and Data Planes

- What are Istio VirtualServices and DestinationRules?

- Understand the basic architecture of Istio and Istio-Kubernetes interactions.

- Use Istio to manage a polyglot, microservices-based application.
- Deploy canary releases in production and learn how to intelligently route traffic
- Simulate real world failures and traffic with fault injection, traffic mirroring.

Prerequisites

There are no prerequisites for Istio Certification Training Program. As we are going to start all the concepts from scratch. Even, if any aspirant is planning to enter the IT world this course will help them to get all the job-ready skills.

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Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

Course Outline

"Istio Envoy Certification Training" is structured in a way whether you are an experienced IT professional or a college graduate. Istio is an open platform that provides a uniform way to connect, manage, and secure microservices. Istio supports managing traffic flows between microservices, enforcing access policies, and aggregating telemetry data, all without requiring changes to the microservice code.

This course will help you to integrate all the real-world experience with all the important tools, specialization and job-ready skills.
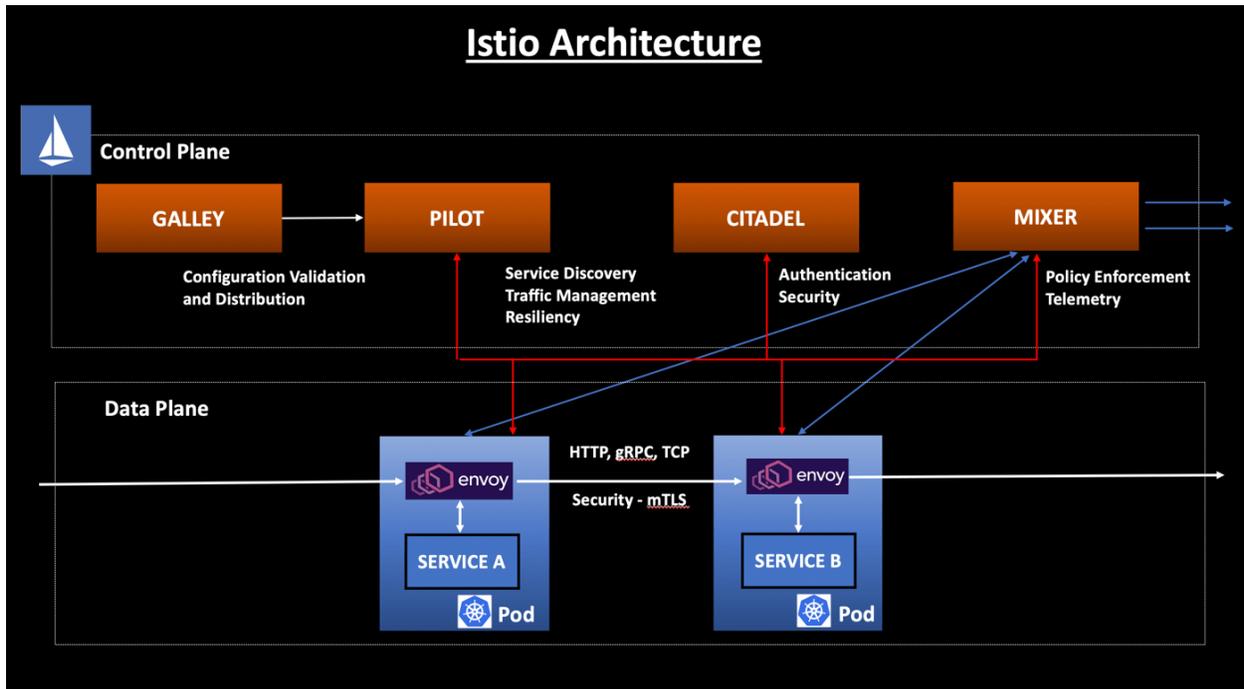
This course covers the following concepts:

- Istio Introduction - Concept
- Environment Setup (Kubernetes cluster and Istio(1.7.X/1.8.0)) -
- Istio Architecture
- Traffic Management
- Application Resilience
- Security -
- Telemetry, Observability
- Ingress Gateway: HTTP
- Ingress Gateway: HTTPS/TLS

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- Ingress Gateway: mTLS, ciphersuites, TLS version - Concept
- VirtualService
- DestinationRule
- Fault Injection>
- Request Timeout
- Traffic Mirroring
- Gateway Routing
- Load Balancing
- Egress HTTP
- Egress TLS, mTLS

- Service Entry
- AuthorizationPolicy
- Request Authentication
- Peer Authentication
- Envoy Filters
- External Authorization
- Rate Limiting
- Egress Mongo Setup
- Debugging with istioctl -

Our Clients
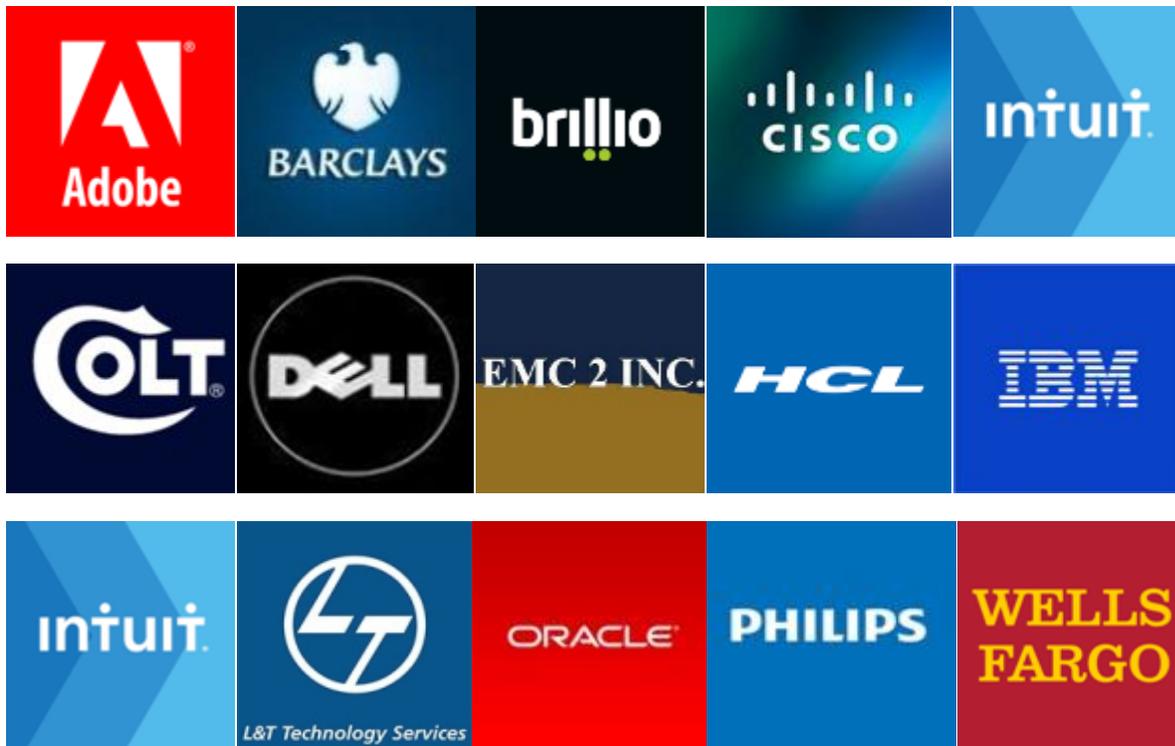
Our Certification Program
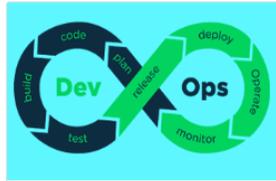
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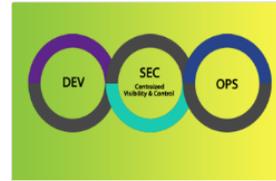
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THANK YOU!