

Service Mesh with Istio

Level - Essential



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Cotocus Ltd.

Bangalore, India

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| Training Dates | TBD |
| Time | TBD |
| Trainer Name | Rajesh Kumar |

TrainING Agenda

## Day 1:

### Morning Session:

* Introduction to Service Mesh and Istio
  + What is Service Mesh?
  + Why Istio?
  + Basic architecture of Istio
  + Features of Istio
* Installing Istio
  + Prerequisites
  + Installation options
  + Deploying Istio with Kubernetes

### Afternoon Session:

* Configuring Istio
  + Istio control plane
  + Istio data plane
  + Service discovery with Istio
  + Traffic management with Istio
  + Request routing with Istio
  + Traffic shifting with Istio
  + Fault injection with Istio

## Day 2:

### Morning Session:

* Security with Istio
  + Authentication with Istio
  + Authorization with Istio
  + Mutual TLS with Istio
  + Istio RBAC
  + Istio mTLS
* Observability with Istio
  + Istio metrics
  + Distributed tracing with Istio
  + Logging with Istio
  + Istio Grafana dashboard

### Afternoon Session:

* Best practices with Istio
  + Istio deployment strategies
  + Istio configuration management
  + Istio service mesh policies
  + Istio upgrade strategies

## Hands-on exercises and labs