Observability Foundation (OBSF)

ID OBSF **Price** CHF 1,490.—(excl. VAT) **Duration** 2 days

Who should attend

The target audience for the Observability Foundation course are professionals including:

- Anyone focused on large-scale service scalability and reliability
- Anyone interested in modern IT leadership and organizational change approaches
- Business Managers
- Business Stakeholders
- Change Agents
- Consultants
- DevOps Practitioners
- IT Directors
- IT Managers
- IT Team Leaders
- Product Owners
- Scrum Masters
- Software Engineers
- Site Reliability Engineers
- System Integrators
- Tool Providers

Prerequisites

It is highly recommended that learners attend the SRE Foundation course with an accredited DevOps Institute Education Partner and earn the SRE Foundation certification prior to attending the Observability Foundation course and exam. An understanding and knowledge of common SRE terminology, concepts, principles and related work experience are recommended.

Course Objectives

At the end of the course, the following learning objectives are expected to be achieved:

- Practical view of how to successfully implement a flourishing Observability culture in your organization
- The underlying principles of Observability and an understanding why monitoring on its own will not provide the required results in microservices based containerized environments
- Understanding the three pillars of Observability
- Adopting open Telemetry standards helps achieve innovation and distributed tracing in a seamless manner
- Observability Maturity Model and the measurement of practical observability
- Implementing full stack Observability and distributed tracing will enable a DevSecOps culture
- Curating Observability using AI to move from reactive to proactive and predictive incident management. Also, how you use DataOps to build a clean data lineage of observable data.
- Implementing Network, Container level Observability and why is security a first class citizen in building the Observability culture
- What is Time based Topology, and how does it add value in Observability for a distributed environment
- The Data paradox,and how we address data issues using a systematic approach (DataOps) to build a clean Observability pipeline
- How do we feedforward DevSecOps wisdom into Observability
- Observability practices for DevSecOps and SRE

Course Content

Course Introduction

Module 1: Exploring Observability

- What is Observability?
- MELT
- Importance of Observability
- Why Traditional Monitoring is not Enough
- Observability Maturity Model
- Challenges with Observability

Module 2: Pillars of Observability

- Defining telemetry
- The Three Pillars of Observability - Logs, metrics, and traces
- Distributed Traces
- Parts of a Trace
- Tracing: Error Diagnosis

Module 3: Open Source Landscape for Observability

- What is Observability made of?
- OpenTelemetry
- OpenTelemetry Libraries
- OpenTelemetry Agents & Collection
- The Rest of the Open Source Ecosystem

Module 4: Service Maps and Topology

- Service maps
- Topology
- Time Travel Topology
- Escalation Graphs
- The 4 Ts

Module 5: DataOps Helps Get Observability Right

- Observability and the Data Paradox
- Why Observability need DataOps
- Data Ownership and Governance
- Data Privacy & Observability
- Data Confidentiality, Integrity & Availability
- Maintaining CIA Triad

Module 6: Building Observability with AIOps

- What is AIOps
- AIOps Platforms
- Enterprise Platform for AIOps
- AI/ML Use Cases
- Auto-Instrumenting Optimization
- Feedforward CI/CD into AIOPs
- Feedback AIOps into Quality Gates

Module 7: Security and Networking with Observability

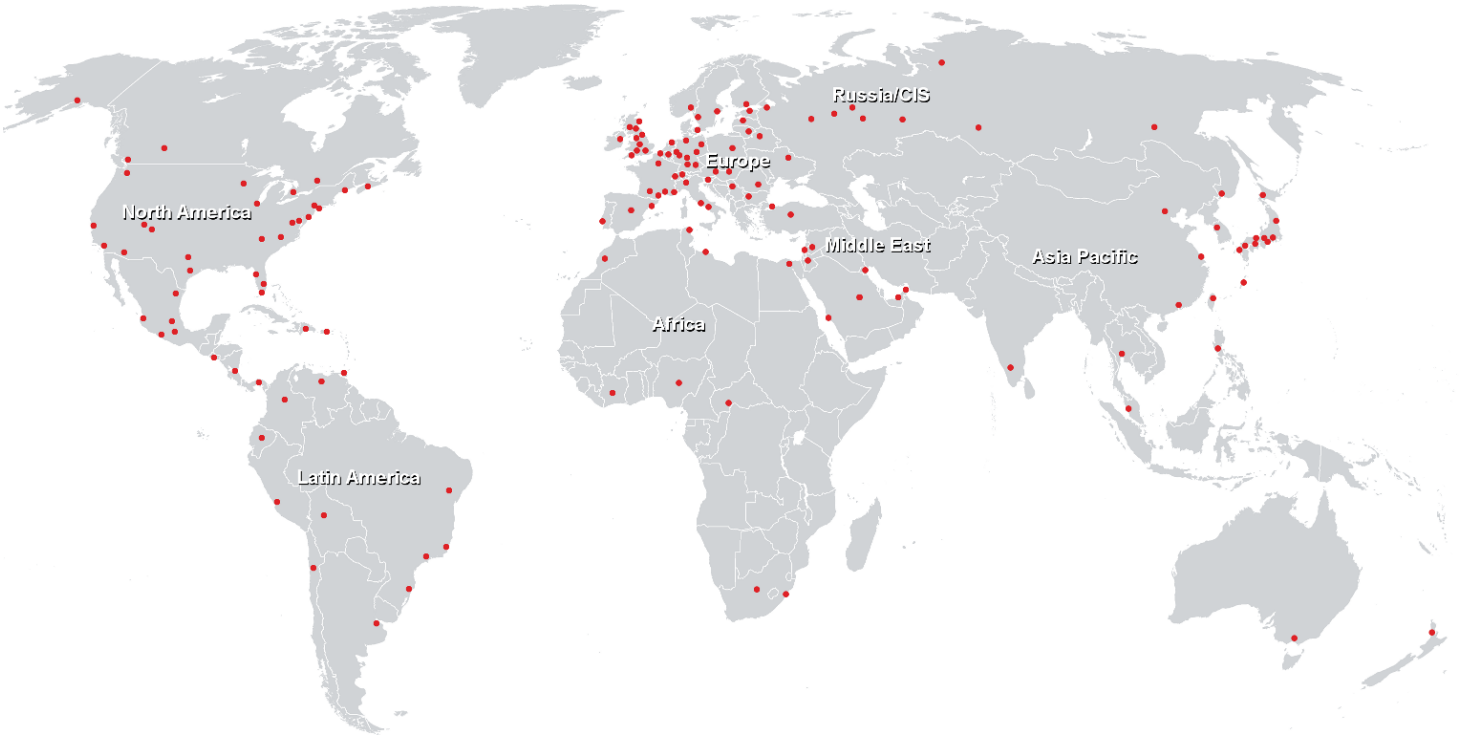
- Observing Security
- Monitoring Security with eBPF
- Container Security
- Network Observability
- Visibility and Integration of various sources

Module 8: Observability Practices for DevOps and SRE

- Observability Indicators
- Dashboards and Visualization
- Chaos Engineering

Observability Foundation (OBSF)

Training Centres worldwide





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