

DevOps Institute: Observability Foundation (OBSF)® - Including Exam

Duration: 2 Days Course Code: DEVOBSF Version: 1.0

Overview:

Microservices and Cloud-Native architectures have been goals of many organizations to help increase speed and agility, but as complexity grows, systems become increasingly challenging to observe. When issues occur, these issues are often difficult to triage and identify the root causes. This course introduces a range of practices for advancing resilience and how to architect end-to-end Observability for Cloud-Native applications. The advantages of building full-stack metrics, events, logs, and distributed tracing are introduced, along with the impact of DevSecOps on Observability and how AIOPs enhance Observability capabilities. This course also covers how Network and Security Observability plays a key role in building reliability, the key aspects of security operations and automated responses are covered. The course aims to equip participants with the practices, methods, and tools to engage people across the organization involved in Observability by using real-life scenarios and case stories. Upon completion of the course, participants will have tangible takeaways to leverage situations such as implementing MELT models effectively, that fit their organizational context, building distributed tracing and resiliency by design. The course is developed by leveraging key experts in the fields of telemetry, sources of knowledge and engaging with thought-leaders in the Observability space, and working with organizations who have crossed the chasm of modern Observability to extract real-life best practices. This course positions learners to successfully complete the Observability Foundation certification exam.

Target Audience:

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

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

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.

Testing and Certification

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the Observability Foundation certificate. The certification is governed and maintained by DevOps Institute.

- DEVSRE - DevOps Institute: Site Reliability Engineering (SRE) Foundation - Including Exam

Follow-on-Courses:

- DEVSREP - DevOps Institute: Site Reliability Engineering Practitioner (SREP)® - Including Exam

Content:

Course Introduction	Module 3: Open Source Landscape for Observability	Module 6: Building Observability with AIOps
Module 1: Exploring Observability	Module 4: Service Maps and Topology	Module 7: Security and Networking with Observability
Module 2: Pillars of Observability	Module 5: DataOps Helps Get Observability Right	Module 8: Observability Practices for DevOps and SRE

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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