

Advanced Observability and Site Reliability Engineering

Barcelona (Spain)

3 - 7 February 2025

UK Training

PARTNER



Advanced Observability and Site Reliability Engineering

Code: IT28 From: 3 - 7 February 2025 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

The Advanced Observability and Site Reliability Engineering SRE course is a comprehensive training program designed to equip IT professionals with the expertise needed to succeed in modern IT environments, especially those characterized by microservices, cloud-native architectures, and distributed systems. This course merges the core principles of Observability with the practices of Site Reliability Engineering SRE, offering a holistic approach to building scalable, resilient, and secure systems. Participants will explore state-of-the-art tools, methodologies, and techniques for enhancing observability, streamlining incident management, and fostering a culture of reliability within their organizations.

Course Objectives

- **Understand Observability:** Gain a practical understanding of what observability is and why it's essential in modern IT landscapes.
- **Master the Three Pillars of Observability:** Explore the three pillars of observability and their application in microservices-based and containerized environments.
- **Implement Open Telemetry:** Learn to implement Open Telemetry standards to enable seamless distributed tracing and innovation.
- **Observability Maturity Model:** Understand and apply the Observability Maturity Model to measure and enhance your observability strategy.
- **Integrate Full-Stack Observability:** Discover how to integrate full-stack observability and distributed tracing into DevSecOps practices.
- **Proactive Incident Management with AIOps:** Learn how to transition from reactive to proactive incident management with the help of AIOps.
- **Network & Container-Level Observability:** Implement network and container-level observability with a security-first approach.
- **DataOps for Clean Observability Pipelines:** Tackle data challenges and build clean observability pipelines using DataOps principles.
- **DevSecOps Integration:** Incorporate DevSecOps wisdom into your observability practices for better security and efficiency.
- **Enhance System Reliability:** Apply observability and SRE practices to improve system reliability, uptime, and performance.

Course Outlines

Day 1: Introduction to Advanced Observability and SRE

- Overview of Advanced Observability and SRE principles
- Fundamentals of Observability engineering and its importance in modern system architecture



Day 2: Open Source for Observability and Service Maps

- Leveraging open-source tools for observability in cloud-native environments
- Understanding service maps, topology, and DataOps principles in distributed systems

Day 3: AIOps, Security, and Networking

- Implementing AIOps for advanced incident detection and resolution
- Enhancing network observability and security within your infrastructure

Day 4: Incident Response, Chaos Engineering, and SRE Principles

- Best practices for incident response and chaos engineering
- SRE principles for reliability, scalability, and performance

Day 5: Hands-on Exercises and Certification Preparation

- Practical exercises applying observability and SRE principles in real-world scenarios
- Exam preparation for SRE certification and observability engineering

Conclusion

By the end of this course, participants will have a comprehensive understanding of site reliability engineering and observability practices. You'll gain the skills needed to manage complex systems, utilize AIOps for proactive incident management, and apply advanced observability techniques to ensure system reliability, scalability, and security. Whether you're aiming for an SRE manager role or seeking to enhance your observability strategy, this course will provide you with the knowledge and hands-on experience needed to excel in this field.



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