BLACKBIRD FOR TRAINING

Advanced Observability and Site Reliability Engineering

1 – 5 November 2027
Barcelona (Spain)



Advanced Observability and Site Reliability Engineering

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Introduction

The Advanced Observability and Site Reliability Engineering SRE course is a comprehensive training program designed for IT professionals aiming to master modern IT environments. These environments are increasingly characterized by microservices, cloud-native architectures, and distributed systems. This site reliability engineering course merges the core principles of observability with site reliability engineering principles, offering a holistic approach to building scalable, resilient, and secure systems. Participants will dive into observability engineering, exploring state-of-the-art tools, methodologies, and techniques for enhancing site reliability engineering monitoring, streamlining incident management, and fostering a culture of reliability within their organizations.

Course Objectives

- Understand Observability: Gain a practical understanding of what is observability, its meaning, and why it's essential in modern IT landscapes.
- Master the Three Pillars of Observability: Explore how to apply the three pillars of observability—metrics, logs, and traces—in microservices-based and containerized environments.
- Implement Open Telemetry: Learn to implement Open Telemetry standards to enable seamless distributed tracing and foster 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 shift from reactive to proactive incident management using AIOps, a key component of site reliability engineering solutions.
- 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 enhanced security and efficiency.
- Enhance System Reliability: Apply site reliability engineering skills and observability practices to improve system reliability, uptime, and performance.



Course Outlines

Day 1: Introduction to Advanced Observability and SRE

- Overview of advanced observability and site reliability engineering SRE principles.
- Fundamentals of observability engineering and its importance in modern system architecture.
- Understand what is site reliability engineering and why it matters in contemporary IT infrastructures.

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, a critical aspect of site reliability engineering services.
- Enhancing network observability and security within your infrastructure.
- Applying observability strategy to ensure robust network monitoring and performance.

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

- Best practices for incident response and chaos engineering.
- Deep dive into site reliability engineering 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.

Why Attend this Course: Wins & Losses!

- Gain a solid understanding of site reliability engineering definition and its practical applications.
- Master the integration of advanced observability techniques to improve system performance.
- Develop the site reliability engineering skills necessary to thrive in modern IT environments.
- Learn to implement proactive incident management using AIOps and observability solutions.
- Become equipped to pursue a site reliability engineering manager role with confidence.

Conclusion

By the end of this course, participants will have a comprehensive understanding of site reliability engineering and observability practices. You will gain the expertise 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 a site reliability engineering manager role or looking to enhance your observability strategy, this course provides the knowledge and hands-on experience needed to excel in this rapidly evolving field.

