

Introduction to DevOps

IT & IT Engineering
Orlando, Florida (USA)
13 - 17 Jan 2025

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Introduction to DevOps

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Introduction

DevOps is a set of practices and cultural philosophies that aim to automate and integrate the processes of software development Dev and IT operations Ops. The DevOps approach helps organizations deliver high-quality software faster and more efficiently. This 5-day course, "Introduction to DevOps," provides participants with a foundational understanding of DevOps principles, practices, and tools. Participants will learn how DevOps can improve collaboration, streamline workflows, and enhance the overall software development lifecycle. By the end of this course, participants will be well-equipped to begin their DevOps journey and contribute to the transformation of their organization's development and operations processes.

Course Objectives

- Introduce participants to the fundamental concepts and importance of DevOps.
- Provide a comprehensive understanding of the DevOps lifecycle and its key components.
- Equip participants with knowledge of DevOps culture and collaboration principles.
- Teach participants how to use DevOps tools and practices for automation and continuous integration/continuous delivery CI/CD.
- Foster a proactive approach to problem-solving and improvement through DevOps.
- Prepare participants to apply DevOps principles in their organizations

Course Outlines

Day 1:

Introduction to DevOps

- Understanding the Origins and Evolution of DevOps
- Key DevOps Principles and Benefits
- The Role of DevOps in Modern Software Development

Day 2:

The DevOps Lifecycle

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- Overview of the DevOps Lifecycle Stages Plan, Code, Build, Test, Deploy, Operate, Monitor
- Continuous Integration CI and Continuous Delivery CD Concepts
- Automating Development and Deployment Pipelines

Day 3:

DevOps Culture and Collaboration

- Building a Culture of Collaboration and Communication
- The Importance of Cross-Functional Teams
- Overcoming Silos and Fostering Shared Ownership

Day 4:

DevOps Tools and Practices

- Introduction to DevOps Toolchain
- Version Control Systems e.g., Git
- Infrastructure as Code IaC and Configuration Management
- Containerization and Orchestration e.g., Docker and Kubernetes

Day 5:

Continuous Improvement and Future Trends

- Implementing Feedback Loops and Monitoring
- Measuring DevOps Success and Performance Metrics
- Emerging Trends and Challenges in DevOps
- Preparing for a DevOps Transformation

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it, set against a background of concentric circles. The text 'UK Training PARTNER' is overlaid on the right side of the board.

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