



TRAINING

DevOps Fundamentals

Agility, DevOps, Lean & IT Service Management

Training brief

Duration:

2 days

Audience:

IT Manager,
Software Architect,
Developer,
System Administrator /
Operation

Prerequisites:

General culture of application development or exploitation.

Learning objectives:

- Discover and understand the DevOps culture.
- Understand DevOps principles, practices and tools.
- Identify the barriers to implementing a DevOps culture

Methodology:

The approach of this training is based on theoretical presentation, numerous feedback from the trainer and reflection on concrete cases with the participants.

Description

Whether it is a small or a very large structure, today we need to be more agile. The stakes are simple: to be more responsive than its competitors, to be able to innovate and validate as quickly as possible new offers of products or services, and ensure quality at lower cost. Learn how DevOps principles, practices and tools will help you achieve these goals.

Training Plan

Day 1 :

- I. Origins of DevOps
 - A. How it all began
 - B. The movement
- II. Agility
 - A. The Agile Manifesto
 - B. Agile Development
 - C. Agile Organization
 - D. The fundamentals of Agility
 - E. From Agile to DevOps
- III. Lean
 - A. Lean perspective
 - B. Value Stream Mapping
 - C. Kanban
 - D. From Agility to Lean & DevOps
- IV. The DevOps
 - A. Culture
 - B. Challenges
 - C. Principles
 1. Flow
 2. Feedback
 3. Experimentation & continuous learning



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- V. Deployment Strategy
 - A. Build a software
 - B. Test strategy
 - C. Continuous Integration
 - D. Continuous Delivery
 - E. Continuous Deployment
 - VI. Alternative practices
 - A. Rugged DevOps
 - B. DevSecOps
 - C. ChatOps
 - VII. Tools
 - VIII. Consequences
 - IX. Metrics
 - A. Monitoring
 - B. Alerts
 - C. Fast Feedback
- Day 2 :*
- X. Cloud
 - A. What is the Cloud ?
 - B. Innovation accelerator
 - C. Elasticity and Scalability
 - D. High availability
 - XI. Infrastructure as Code
 - A. Automation
 - B. Tool chain
 - C. Tools
 - XII. Conclusion
 - A. BizDevOps
 - B. How to initiate your DevOps transformation
 - C. Exchanges and discussions