



TRAINING DevOps Foundation*

Agile, DevOps, Lean & IT Service Management

(* Option :DevOps Foundation Certification)

Training brief

Duration:

2 days (+1 day for the certification)

Audience:

IT, Business, Management

Prerequisites:

General culture of project management, IT development or administration

Learning objectives:

- Discovering and getting a grasp of Agile and DevOps Culture.
- Understanding Agile & DevOps principles, practices and tools.
- Identifying obstacles to adopt Agile & DevOps culture.

Methodology:

This training's approach is based on theoretical presentation, professional feedbacks and reflexion about concrete use cases with the participants.

Technical prerequisites:

Video projector, whiteboard & internet access.

Description

Adopting DevOps culture involves substantial changes for organizations and significant cultural changes for the people who work there. In order to facilitate its adoption and implementation, it is necessary to understand this culture, its ins and outs, and to know the best practices in order to quickly develop the right habits. Find out how Agile and DevOps principles, best practices and tools will help you to quickly change paradigms.

Training Plan

1st Day

I. The Origins of DevOps

- A. How it all began
- B. The Movement

II. Agile

- A. Agile Manifesto
- B. Agile development
- C. Agile organisation
- D. The fundamentals of Agile
- E. From Agile to DevOps

III. Lean

- A. Lean perspective
- B. Value Stream Mapping
- C. Kanban
- D. From Agile, to Lean and DevOps

IV. DevOps

- A. Culture
- B. Challenge
- C. Principles



1. Flow
2. Feedback
3. Experimentation and Continuous Learning

V. Deployment pipelines

- A. Software construction
- B. Test strategy
- C. Continuous Integration
- D. Continuous Delivery
- E. Continuous Deployment

VI. Other practices

- A. Rugged DevOps
- B. DevSecOps
- C. ChatOps

VII. The tools

VIII. The consequences

IX. The metrics

- A. Monitoring
- B. Alerts
- C. Reactions

2nd Day

X. The Cloud

- A. What is the Cloud ?
- B. Innovation accelerator
- C. Scalability and Elasticity
- D. High availability

XI. Infrastructure as code

- A. Automation
- B. Toolchains
- C. The tools



XII. Conclusion

- A. Getting started - adoption challenges, risks, critical success factors and key performance measures
- B. Exchanges & discussions



OUR TRAINERS

VINCENT LEDAN



Vincent has considerable experience as an IT consultant, extending from system administration to business development. He naturally became a coach and trainer, with the desire to share and transmit his experience of the DevOps culture. Through the support missions he has carried out, he has developed skills around automation, orchestration, Cloud infrastructure, in diverse environments. He greatly understands the needs of the teams he works with and helps them reach their goals.

PIERRE TOMASINA



Being a Cloud & DevOps consultant, Pierre is highly involved in web applications development and AWS Cloud infrastructure building. He likes to challenge the conception of web application architecture and high availability constraints. The consultant has a sharp eye for long-standing problems and is solution-oriented. He started as a Full-stack developer: from the UX to the database modeling, using the Agile methodology; Pierre then expanded his skills in cloud infrastructure by specializing in the coded infrastructure model. He is also involved in several Open Source projects. Pierre is a co-organizer of the AWS meetup in Luxembourg.

OSWALD DE RIEMAECKER



Agile and DevOps Evangelist. By working for many years on various projects, Oswald has been experimenting diverse project management methodologies: Agile practices and principles have proven to be the most successful. He supports and coaches development teams so that they implement these principles and practices, including Agile development such as Unit Testing, BDD, Continuous Integration/Delivery and Deployment. Being a Linux and Open Source supporter for many years, he's a firm believer in the DevOps culture. He coaches and gives the best tools to developers in order to streamline the product development until deployment. He likes shaping infrastructures as code so he can build scalable cloud infrastructure.