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# Training: Overview and Challenges of Multi-Cloud

1 day (7 hours)

## Overview

Multi-Cloud has become the standard for businesses seeking to combine agility, resilience, and sovereignty. By breaking free from dependence on a single provider, organizations can choose the best services wherever they are available (a ) while meeting increasingly strict regulatory requirements for data protection.

Completing this training program will enable you to transform technical complexity into a strategic performance driver. You will learn to map market offerings, anticipate security fragmentation risks, and implement effective governance. The goal is to equip you with the tools to manage your cloud environments not through constraints, but through business value and cost optimization (FinOps).

The teaching approach is resolutely practical and interactive, relying on guided workshops and hands-on demonstrations. You will benefit from feedback on common error diagnostics, particularly regarding access rights and data management. At the end of the session, you will leave with a checklist of best practices and decision-making tools that can be immediately implemented in your governance scripts and IT roadmaps

## Objectives

- Identify the main cloud providers and their offerings.
- Understand the benefits and limitations of multi-cloud for the enterprise.
- Become aware of the security, governance, and cost challenges associated with multi-cloud.
- Integrate eco-friendly practices into multi-cloud environments.

## Target Audience

- IT decision-makers and managers

- IT project or architecture managers
- Anyone wishing to understand multi-cloud challenges without in-depth technical training

## Prerequisites

- No specific technical prerequisites
- General knowledge of how the Internet and digital services work

## Technical prerequisites

- PC with at least 8 GB of RAM (16 GB recommended)
- Windows 11 (with WSL2), macOS, or Linux
- Access to a terminal and a code editor
- Git, Terraform (or equivalent IaC), cloud CLI (at least one)
- Stable internet connection

## Course Outline: Overview and Challenges of Multi-Cloud

[Day 1 - Morning]

### Introduction and Overview of the Cloud Market

- Fundamental Concepts: Differentiating Between Public, Private, and Hybrid Clouds and the Emergence of Multi-Cloud
- Market Players: Strengths and Weaknesses of Hyperscalers (AWS, Azure, GCP) and Sovereign Players
- Strategic Challenges: Resilience, GDPR Compliance, and Avoiding Vendor Lock-in (Lock-in)
- Best-of-Breed Approach: Selecting the Best Services by Provider
- Overview of digital sovereignty and data localization challenges
- Hands-on workshop: Quick audit of an existing IT system and identification of opportunities for cloud diversification.

[Day 1 - Afternoon]

### Governance, Security, and Economic Management

- Governance and Security: Shared Responsibility Model and Multi-Platform Identity Management (IAM)
- FinOps: Mastering complex billing and avoiding hidden costs (egress fees)
- Eco-Responsible Cloud: Environmental impact metrics (PUE, WUE) and sustainable selection criteria

- Managing SLOs/SLAs in a Fragmented Environment
- Introduction to Posture Management and Continuous Compliance
- Hands-on Workshop: Simulating a budget and security trade-off on a multi-vendor project.

## Target Audience

This training is intended for both individuals and companies, large or small, seeking to train their teams in new advanced IT technologies or to acquire specific business knowledge or modern methodologies.

## Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

## Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training program.