Advanced architecture on AWS

Duration: 3 days
Audience: Professionnel TI

Who is this training for?

This course is for individuals with experience building scalable and elastic applications on the AWS platform.

Training objectives

- Apply the AWS Well-Architected framework.
- Manage multiple AWS accounts for your organization.
- Connect an on-premises data center to the AWS Cloud.
- Discuss what multi-region VPC connection entails in terms of billing.
- Move large amounts of data from an on-premises data center to AWS.
- Design large data stores for the AWS Cloud.
- Consider different architecture designs to scale a large website.
- Protect your infrastructure from denial-of-service (DDoS) attacks.
- Secure your data on AWS with encryption.
- Design data protection at rest and in transit.
- Improve the performance of your solutions.
- Select the most appropriate AWS deployment mechanism.

Summary

Learn how to build complex AWS solutions that integrate data services, governance, and security. In this course, you'll learn about concepts introduced in Architecting on AWS. You will learn how to build complex solutions that incorporate data services, governance, and security on the AWS platform.

You'll also learn about specialized AWS services, including AWS Direct Connect and AWS Storage Gateway, that support a hybrid architecture, and learn best practices for building scalable, elastic, secure, and highly available applications on AWS.

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Course outline

- Role and responsibilities of the Microsoft Power Platform Solution Architect
- Business requirements analysis and requirements gathering
- Power Platform solution architecture design
- Power Apps, Power Automate, Dataverse, and Power BI architecture
- Data modeling and analytics
- Security, governance, and application lifecycle management (ALM)
- Integrations, automation (including RPA), and artificial intelligence Testing, deployment and production of solutions

Approach and methodology

The pedagogical approach is practical and structured, combining targeted theoretical inputs and guided workshops based on real-life scenarios. It aims to develop a solution architect posture and to promote the immediate transfer of learning in a professional context.

Prerequisites

- Experience building scalable and elastic applications on AWS [afiexpertise.com]
- Knowledge of basic AWS services (compute, storage, networking, IAM)
- Have completed Architecting on AWS or equivalent (e.g. Associate certification or experience)

Recommendations

- Strong foundation in AWS cloud architecture (EC2, S3, VPC, IAM)
- Hands-on experience with AWS core services and distributed architectures
- Knowledge of high availability, scalability, and resiliency concepts
- Advanced notions of cloud networking and security
- Understanding of DevOps principles and automation (asset)

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