

# Microsoft Azure Fundamentals Training

Duration

3 days ( 21 hours )

## Presentation

This course is intended for IT professionals, system administrator, or developers, who want to learn more about Microsoft Azure Cloud. Gethands-on instruction and practice implementing Microsoft Azure in this three-day session.

You will learn key Microsoft Azure Cloud concepts, including Azure Active Directory, governance management, mechanisms for resiliency, virtual machines, storage, virtual networks and databases.

## Key Objectives

- Understand Azure fundamental concepts
- Learn how to deploy, secure and manage your applications
- Understand Cloud native solutions and architectures

## Audience

- IT project manager
- Administrator
- Developer

## Prerequisites

- Basic system administration and networking

## Azure Cloud training program

Introduction to Microsoft Azure

- Understanding Cloud Computing basis
- Microsoft Azure philosophy and key concepts
- Migrating applications to Microsoft Azure
- Tools: Web Portal, Azure CLI, Infrastructure-as-Code with ARM

## Fundamentals and Governance

- Identity management with AAD
- Confidentiality, conformance and security
- Subscriptions, SLA and costs management

## Infrastructure Services

- Availability, resiliency and load balancing
- Understand and optimize storage
- Use virtual machines
- Configure and secure networks

## Data Management

- Understand and use databases
- Monitoring and log analytics

## Cloud Native Architectures

- Understand container orchestration with Azure Kubernetes Service (AKS) and Azure Container Instances (ACI)
- Message bus and serverless applications with App Services
- Introduction to Azure DevOps

## Additional module (+1 day)

## Microsoft Azure Compute

- Infrastructure and operating principle
- Possibilities to host applications
- IaaS vs PaaS, cloud architecture or hybrids?

- Cloud Services : Web Roles / Worker Roles
- Web Sites / Web Jobs

## SQL Azure Database

- How Azure SQL Database works
- Azure SQL Database vs SQL Server
- Administration of Azure SQL Database
- Azure SQL Database configuration
- API and tools

## Companies concerned

This training is intended for companies, small or large, wishing to train their teams to a new advanced computer technology.

## Pedagogical methods

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

## Organization

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

## Validation

At the end of the session, a multiple-choice questionnaire is used to verify the correct acquisition of skills.

## Sanction

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