



Technology + Knowledge = Innovation

 Via Copenhagen, 10 Roma

 www.vivasoft.it

 info@vivasoft.it

Vivasoft

Consulting & Training



Vivasoft is a leading company in the technology sector, specializing in offering innovative solutions based on Microsoft. With years of experience in the market, we are proud to be certified Microsoft partners, committed to supporting the digital transformation of businesses. We provide a comprehensive range of Microsoft products and highly qualified training courses, designed to help companies optimize their processes, enhance productivity, and acquire advanced skills in the world of technology.

Module 1: Introduction to Microsoft Azure

What is Microsoft Azure: Overview and business use cases
Overview of key Azure services: Compute, Storage, Networking
Differences between IaaS, PaaS, and SaaS
Creating an Azure account and accessing the portal
Introduction to the Azure portal interface and subscription model
Overview of resource management in Azure and subscription management

Module 2: Creating and Managing Resources in Azure

Creating and managing resources through the Azure portal
Using ARM (Azure Resource Manager) templates for resource management
Managing resources via Azure CLI and PowerShell
Monitoring Azure resources with Azure Monitor
Introduction to the concept of "Resource Groups" and organizing resources into groups
Managing tags for resource classification

Module 3: Virtual Machines and Networking in Azure

Creating and managing virtual machines in Azure
Differences between Windows and Linux VMs in Azure
Configuring VM sizes and managing disks
Virtual Network (VNet) and subnets in Azure
Creating and managing Load Balancers, VPNs, and network gateways
Using Azure Bastion for remote access to VMs

Module 4: Storage in Azure

Introduction to the main types of storage in Azure: Blob Storage, File Storage, Queue Storage, and Table Storage
Creating and managing storage accounts in Azure
Using Azure Blob Storage for storing unstructured files
Managing access and permissions for storage data
Configuring replication and performance tiers for storage
Introduction to Azure Data Lake and Azure Disk Storage

Module 5: Identity and Security Management in Azure

Introduction to Azure Active Directory (Azure AD)
Creating and managing users and groups in Azure AD
Configuring security through Multi-Factor Authentication (MFA)
Managing identities and roles using RBAC (Role-Based Access Control)
Configuring security policies and governance via Azure Security Center
Introduction to Azure Key Vault for managing keys and secrets

Module 6: Azure App Services and Functions

Creating and managing Web Apps using Azure App Service
Configuring staging and production environments for applications
Creating and managing Azure Functions for serverless code execution
Introduction to Logic Apps for workflow automation
Configuring automatic application scaling on Azure
Managing continuous deployment with Azure DevOps

Module 7: Databases in Azure

Overview of the main databases offered by Azure: Azure SQL Database, Cosmos DB, MySQL, and PostgreSQL
Creating and managing Azure SQL Database instances
Configuring security and performance for an Azure database
Introduction to Cosmos DB for non-relational data management
Using Azure Database for MySQL and PostgreSQL
Backup and restore of databases in Azure

Module 8: Monitoring and Managing Resources in Azure

Using Azure Monitor for resource monitoring and diagnostics
Configuring alerts and notifications for specific resources
Introduction to Azure Log Analytics for log and data analysis
Creating custom dashboards to visualize monitoring data
Using Application Insights for real-time application monitoring
Managing capacity and resources with Azure Advisor

Module 9: DevOps and Automation in Azure

Introduction to DevOps concepts in Azure
Using Azure DevOps for project and development pipeline management
Creating and managing Continuous Integration and Continuous Deployment (CI/CD) pipelines
Automating resource management with Azure Automation and Runbooks
Managing provisioning processes with Azure Blueprints
Introduction to Terraform and Azure Resource Manager for Infrastructure as Code (IaC) management

Module 10: Azure Kubernetes Service (AKS)

Introduction to Kubernetes and Azure Kubernetes Service (AKS)
Creating and managing Kubernetes clusters on Azure
Deploying and managing containers on AKS
Scaling and managing containerized applications
Configuring networking and security in Kubernetes clusters
Monitoring and diagnosing AKS with Azure Monitor and Log Analytics

Module 11: Best Practices and Cost Optimization in Azure

Best practices for resource management in Azure
Managing resources effectively and securely
Optimizing Azure usage costs
Using Azure Cost Management for budget monitoring and planning
Cost reduction strategies through scalable resource usage
Managing licensing plans and subscriptions to optimize costs