

## AZ-030: Microsoft Azure technologies for AWS Architects

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Lisboa
- **Data:** 22 Nov. 2021 a 25 Nov. 2021
- **Preço:** 1500€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 28 horas

This course teaches Solutions Architects who have previously designed for Amazon Web Services how to translate business requirements into secure, scalable, and reliable solutions for Azure. Lessons include virtualization, automation, networking, storage, identity, security, data platform, and application infrastructure. This course outlines how decisions in each these area affects an overall solution.

At the end of this course, students will be able to:

- Secure identities with Azure Active Directory and users and groups.
- Implement identity solutions spanning on-premises and cloud-based capabilities
- Apply monitoring solutions for collecting, combining, and analyzing data from different sources.
- Manage subscriptions, accounts, Azure policies, and Role-Based Access Control.
- Administer Azure using the Resource Manager, Azure portal, Cloud Shell, and CLI.
- Configure intersite connectivity solutions like VNet Peering, and virtual network gateways.
- Administer Azure App Service, Azure Container Instances, and Kubernetes.

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### Destinatários

This course is for AWS Cloud Architects with expertise in designing and implementing solutions running on AWS who now want to design for Microsoft Azure.

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### Pré-requisitos

- Experience (>1year) as an AWS Architect designing secure and scalable AWS cloud solutions across storage structures, compute, networking, and the interaction with external resources/services.
- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.

- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.
- Understanding of programming fundamentals and use of a scripting language.

Candidates will benefit from familiarity with Azure administration, Azure development processes, and DevOps processes.

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## Programa

### **Introduction to Azure**

- Subscriptions and accounts
- Resource groups and templates in Azure Resource Manager

### **Azure global infrastructure**

- Azure regions
- Azure Availability Zones
- Comparison with AWS

### **Implement Azure Active Directory**

- Introduction to Azure Active Directory
- Domains and custom domains
- Safety features
- Guest users in Azure Active Directory
- Manage multiple directories
- Comparison with AWS

### **Implement and manage hybrid identities**

- Introduction to Azure AD Connect
- Comparison with AWS

### **Implement virtual networking**

- Azure Virtual Network and VNet peering
- VPN and ExpressRoute connections
- Comparison with AWS

### **Implement VMs for Windows and Linux**

- Configure high availability
- Comparison with AWS

### **Implement load balancing and network security**

- Implement Azure Load Balancer
- Implement an Azure Application Gateway
- Implement Azure Firewall
- Implement network security groups and application security groups
- Comparison with AWS

### **Implement container-based applications**

- Configure Azure Kubernetes Service
- Publish a solution on an Azure Container Instance
- Comparison with AWS

### **Implement an application infrastructure**

- Create an App Service plan
- Create and configure Azure App Service
- Configure networking for an App Service
- Introduction to Logic Apps and Azure Functions
- Comparison with AWS

### **Implement storage accounts**

- Azure Storage core concepts
- Managing the Azure Blob storage lifecycle
- Working with Azure Blob storage
- Comparison with AWS

### **Implement NoSQL databases**

- Introduction to Azure Cosmos DB
- Consistency
- Select appropriate CosmosDB APIs
- Set up replicas in CosmosDB
- Comparison with AWS DynamoDB

### **Implement Azure SQL databases**

- Configure Azure SQL database settings
- Implement Azure SQL Database managed instances
- Configure high availability for an Azure SQL database
- Comparison with AWS

### **Implement cloud infrastructure monitoring**

- Monitor security
- Monitor cost
- Configure a Log Analytics workspace
- Comparison with AWS

## **Implement and manage Azure governance solutions**

- Assign RBAC roles
- Configure management access to Azure
- Implement and configure an Azure Policy
- Comparison with AWS

## **Manage security for applications**

- Implement Azure Key Vault
- Implement and configure Azure AD Managed Identities
- Register and manage applications in Azure AD
- Comparison with AWS

## **Migration, backup, and disaster recovery management**

- Migrate workloads
- Implement Azure Backup for VMs
- Implement disaster recovery
- Comparison with AWS