Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

Detalles de contacto

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Microsoft Azure Architect Technologies

CÓDIGO:	DURACIÓN:	Precio:
MCS_AZ300	40 Hours (5 días)	A consultar

Description

This five day course is aligned to Azure Exam: AZ-300, Azure Architect-Technologies contains the following:
•AZ-300T01: Deploying and Configuring Infrastructure
•AZ-300T02: Implementing Workloads and Security
•AZ-300T03: Understanding Cloud Architect Technology Solutions
•AZ-300T04: Creating and Deploying Apps
•AZ-300T05: Implementing Authentication and Secure Data
•AZ-300T06: Developing for the Cloud

Programa

Day 1:Module 1: Managing Azure Subscriptions and Resources

In this module you will explore Azure monitoring capabilities using Azure alerts, Azure activity logs, and Log Analytics. You will learn to query, analyze, and interpret the data viewed in Log Analytics. After completing this module, students will be able to:
•Managing Azure Subscriptions and ResourcesModule 2: Implementing and Managing Storage

In this module you will learn about Azure storage accounts, data replication, how to use Azure Storage Explorer, and monitor storage. After completing this module, students will be able to:
•Implementing and Managing StorageModule 3: Deploying and Managing Virtual Machines (VMs)

In this module you will learn how to do the following: • Create Virtual Machines (VM)s within the Azure Portal • Create Virtual Machines (VM)s using Azure PowerShell • Create Virtual Machines (VM)s using ARM templates • Deploy Linux Virtual Machines (VM)s • Monitor Virtual Machines (VM)s Additionally, you will learn how to protect data using backups at regular intervals, whether by snapshot, Azure Backup, or Azure Site Recovery.

After completing this module, students will be able to:•Deploying and Managing VMs
Module 4: Configuring and Managing Virtual Networks

In this module you will create and implement virtual networks using the Azure Portal as well as Azure PowerShell and CLI. You will receive and overview on how to assign IP addresses to Azure resources to communicate with other Azure resources, your on-premises network, and the Internet.
Lessons
•Network routing using routing tables and algorithms
•Inter-site connectivity using VNet-to-VNet connections and VPNs
•Virtual network peering for regional and global considerations
•Gateway transit
After completing this module, students will be able to:
•Configuring and Managing Virtual Networks Module 5: Managing Identities

This module covers Azure Active Directory (Azure AD) for IT Admins and Developers with a focus on the Azure AD multi-tenant cloud-based directory and identity management service.

Lessons
•Role-Based Access Control (RBAC)
•built-in roles
•Self-Service Password Reset (SSPR) After completing this module, students will be able to:
•authentication methods for password reset•Managing Identities using Azure Active Directory Day 2:

Module 1: Evaluating and Performing Server Migration to Azure

This module covers migrating workloads to a new environment, whether it be another datacenter, or to a public cloud, and setting clear goals for the migration. Goals include both technology-focused and business-focused goals for migrations, and the benefits to an organization's business. Activities include components of the Azure migration process: creating a project, creating a collector, assessing readiness, and estimating costs. Additionally, you will receive and overview of Azure Site Recovery (ASR) that includes and end-to-end scenarios.

After completing this module, students will be able to:
•Evaluating and Performing Server Migration to AzureModule 2: Implementing and Managing Application Services

This module includes the following topics: • Deploying Web Apps • Managing Web Apps • App Service Security • Serverless Computing Concepts • Managing Event Grid • Managing Service Bus • Managing Logic App

After completing this module, students will be able to:
•Implementing and Managing Application Services Module 3: Implementing Advanced Virtual Networking

This module includes the following topics: • Azure Load Balancer • Azure Application Gateway • Site-to-Site VPN Connections As well as an overview of ExpressRoute which allows companies to extend on-premises networks into the Microsoft cloud over a dedicated private connection facilitated by a connectivity provider.

After completing this module, students will be able to:
•Implementing Advanced Virtual Networking. Module 4: Securing Identities

This module includes the following topics with an emphasis on identity and roles: • Azure AD Identity Protection • Azure Domains and Tenants • Azure Users and Groups • Azure Roles As well as an overview of Azure AD integration options that focuses on Azure AD Connect to integrate on-premises directories with Azure Active Directory.

After completing this module, students will be able to:
•Securing Identities using Azure AD. Day 3:Module 1: Selecting Compute and Storage Solutions

This module includes the following topics: • Azure Architecture Center • Cloud design patterns • Competing consumers pattern • Cache-aside pattern As well as sharding patterns to divide a data store into horizontal partitions, or shards. Each shard has the same schema but holds its own distinct subset of the data.

After completing this module, students will be able to:
•Design and Connectivity Patterns
Module 2: Hybrid Networking This module includes the following topics: • Site-to-site connectivity • Point-to-site connectivity • Combining site-to-site and point-to-site connectivity • Virtual network–to–virtual network connectivity As well as connecting across cloud providers for failover, backup, or even migration between providers such as AWS.

After completing this module, students will be able to:
•Hybrid Networking Module 3: Measuring Throughput and Structure of Data Access

This module includes the following topics: • DTUs – Azure SQL Database • RUs – Azure Cosmos DB • Structured and unstructured data • Using structured data stores

After completing this module, students will be able to:
•Address Durability of Data and Caching
•Measure Throughput and Structure of Data Access Module 4: Creating Web Applications using PaaS

This module provides and overview of Azure App Service Web Apps for hosting web applications, REST APIs, and a mobile back end. Topics include the following: • Using shell commands to create an App Service Web App • Creating Background Tasks • Using Swagger to document an API As well as an explanation of how Logic Apps help to build solutions that integrate apps, data, systems, and services across enterprises or organizations by automating tasks and business processes as workflows.

After completing this module, students will be able to:
•Use shell commands to create an App Service Web App
•Create Background Tasks
•Use Swagger to document an API Module 5: Creating Apps and Services Running on Service Fabric

This module provides an overview of Azure Service Fabric as a distributed systems platform that makes it easy to package, deploy, and manage scalable and reliable microservices and containers. This module also addresses the challenges in developing and managing cloud native applications. Additional topics include: • Creating a reliable service • Creating a Reliable Actors app • Working with Reliable collections

After completing this module, students will be able to:
•Create a reliable service
•Create a Reliable Actors app
•Hands-on with Reliable collections Module 6: Using Azure Kubernetes Service This module focuses on the Azure

Kubernetes Service (AKS) for deploying and managing a Kubernetes cluster in Azure. Topics include how to reduce operational overhead of managing Kubernetes by offloading much of that responsibility to Azure, such as health monitoring and maintenance. Additional topics include: • Azure Container Registry • Azure Container Instances

After completing this module, students will be able to:
•Understand the Azure Container Registry
•Use Azure Container instances Day 4:Module 1: Implementing Authentication Topics for this module include:

Lessons
•Implementing authentication in applications (certificates, Azure AD, Azure AD Connect, token-based)
•Implementing multi-factor authentication
•Claims-based authorization
•Role-based access control (RBAC) authorization
After completing this module, students will be able to:
•Understand how to Implement authentication using certificates, Azure AD, Azure AD Connect, and tokens
•Implement Role-Based Access Control (RBAC) authorization

Lessons
•End-to-end encryption
•Implementing Azure confidential computing
•Implementing SSL and TLS communications
Module 2: Implementing Secure Data•Managing cryptographic keys in Azure Key Vault
After completing this module, students will be able to:
•Implement secure data for end-to-end encryption
•Implement secure data for implementing SSL and TLS communications.
•Use Azure Key Vault to manage cryptographic keys

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.