

MAZR-37 - MOC AZ-303T00 - MICROSOFT AZURE ARCHITECT TECHNOLOGIES

Categoria: **Azure**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Azure



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Analista



Produttore:
Microsoft

OBIETTIVI

- 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.

PREREQUISITI

Successful Azure Architect students have prior experience with operating systems, virtualization, cloud infrastructure, storage structures, and networking:

- Understanding of on-premises virtualization technologies, including VMs and virtual networking
- 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, and domain controllers

If you are new to Azure and cloud computing, consider taking:

- Instructor-led course: AZ-900: Azure Fundamentals (<https://docs.microsoft.com/learn/certifications/courses/az-900t01>)
- Instructor-led course: AZ-104: Azure administrators (<https://docs.microsoft.com/en-us/learn/certifications/courses/az-104t00>)

CONTENUTI

Module 1: Implement Azure Active Directory

- Overview of Azure Active Directory
- Users and Groups
- Domains and Custom Domains
- Azure AD Identity Protection

- Implement Conditional Access
- Configure Fraud Alerts for MFA
- Implement Bypass Options
- Configure Guest Users in Azure AD
- Configure Trusted IPs
- Manage Multiple Directories

Module 2: Implement and Manage Hybrid Identities

- Install and Configure Azure AD Connect
- Configure Password Sync and Password Writeback
- Configure Azure AD Connect Health

Module 3: Implement Virtual Networking

- Virtual Network Peering
- Implement VNet Peering

Module 4: Implement VMs for Windows and Linux

- Select Virtual Machine Size
- Configure High Availability
- Implement Azure Dedicated Hosts
- Deploy and Configure Scale Sets
- Configure Azure Disk Encryption

Module 5: Implement Load Balancing and Network Security

- Implement Azure Load Balancer
- Implement an Application Gateway
- Understand Web Application Firewall
- Implement Azure Firewall
- Implement Azure Front Door
- Implementing Azure Traffic Manager
- Implement Network Security Groups and Application Security Groups
- Implement Azure Bastion

Lab : Implementing Highly Available Azure IaaS Compute Architecture

- Describe characteristics of highly available Azure VMs residing in the same availability set
- Describe characteristics of highly available Azure VMs residing in different availability zones
- Describe characteristics of automatic horizontal scaling of Azure VM Scale Sets
- Describe characteristics of manual vertical scaling of Azure VM Scale Sets

Module 6: Implement Storage Accounts

- Storage Accounts
- Blob Storage
- Storage Security
- Managing Storage
- Accessing Blobs and Queues using AAD

Lab : Implementing and Configuring Azure Storage File and Blob Services

- Implement authorization of Azure Storage blobs by leveraging shared access signatures
- Implement authorization of Azure Storage blobs by leveraging Azure Active Directory

- Implement authorization of Azure Storage file shares by leveraging access keys
- Configure Azure Storage Firewalls and Virtual Networks

Module 7: Implement NoSQL Databases

- Configure Storage Account Tables
- Select Appropriate CosmosDB APIs

Module 8: Implement Azure SQL Databases

- Configure Azure SQL Database Settings
- Implement Azure SQL Database Managed Instances
- High-Availability and Azure SQL Database
- In this module, you will learn how to
- Create an Azure SQL Database (single database)
- Create an Azure SQL Database Managed Instance
- Recommend high-availability architectural models used in Azure SQL Database

Module 9: Automate Deployment and Configuration of Resources

- Azure Resource Manager Templates
- Save a Template for a VM
- Evaluate Location of New Resources
- Configure a Virtual Hard Disk Template
- Deploy from a template
- Create and Execute an Automation Runbook

Module 10: Implement and Manage Azure Governance

- Create Management Groups, Subscriptions, and Resource Groups
- Overview of Role-Based Access Control (RBAC)
- Role-Based Access Control (RBAC) Roles
- Azure AD Access Reviews
- Implement and Configure an Azure Policy
- Azure Blueprints

Lab : Implementing and Configuring Azure Storage File and Blob Services

- Implement authorization of Azure Storage blobs by leveraging shared access signatures
- Implement authorization of Azure Storage blobs by leveraging Azure Active Directory
- Implement authorization of Azure Storage file shares by leveraging access keys

Lab : Managing Azure Role-Based Access Control

- Define a custom RBAC role
- Assign a custom RBAC role

Module 11: Manage Security for Applications

- Azure Key Vault
- Azure Managed Identity

Module 12: Manage Workloads in Azure

- Migrate Workloads using Azure Migrate
- VMware - Agentless Migration
- VMware - Agent-Based Migration

- Implement Azure Backup
- Azure to Azure Site Recovery
- Implement Azure Update Management

Lab : Protecting Hyper-V VMs by using Azure Site Recovery

- Configure Azure Site Recovery
- Perform test failover
- Perform planned failover
- Perform unplanned failover

Module 13: Implement Container-Based Applications

- Azure Container Instances
- Configure Azure Kubernetes Service

Module 14: Implement an Application Infrastructure

- Create and Configure Azure App Service
- Create an App Service Web App for Containers
- Create and Configure an App Service Plan
- Configure Networking for an App Service
- Create and Manage Deployment Slots
- Implement Logic Apps
- Implement Azure Functions

Lab : Configuring a Message-Based Integration Architecture

- Configure and validate an Azure Function App Storage Blob trigger
- Configure and validate an Azure Event Grid subscription-based queue messaging

Lab : Implementing an Azure App Service Web App with a Staging Slot

- Implement Blue/Green deployment pattern by using deployment slots of Azure App Service web apps
- Perform A/B testing by using deployment slots of Azure App Service web apps

Module 15: Implement Cloud Infrastructure Monitoring

- Azure Infrastructure Security Monitoring
- Azure Monitor
- Azure Workbooks
- Azure Alerts
- Log Analytics
- Network Watcher
- Azure Service Health
- Monitor Azure Costs
- Azure Application Insights
- Unified Monitoring in Azure

INFO

Manuale: Materiale didattico ufficiale Microsoft in formato digitale

Prezzo manuale: 250 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)