

MAZR-42 - MOC AZ-304T00 - MICROSOFT AZURE ARCHITECT DESIGN

Categoria: **Azure**

INFORMAZIONI SUL CORSO



Durata:
4 Giorni



Categoria:
Azure



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Analista



Produttore:
Microsoft

OBIETTIVI

After completing this course, students will be able to:

- Recommend solutions to minimize costs
- Recommend a solution for Conditional Access, including multi-factor authentication
- Recommend a solution for a hybrid identity including Azure AD Connect and Azure AD Connect
- Recommend a solution for using Azure Policy
- Recommend a solution that includes KeyVault
- Recommend a solution that includes Azure AD Managed Identities
- Recommend a storage access solution
- Design an Azure Site Recovery solution
- Recommend a solution for autoscaling
- Recommend a solution for containers
- Recommend a solution for network security
- Recommend a solution for migrating applications and VMs
- Recommend a solution for migration of databases

PREREQUISITI

Successful Azure Solution Architects start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

- 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.

CONTENUTI

Module 1: Design a Compute Solution

- Recommend a Solution for Compute Provisioning

- Determine Appropriate Compute Technologies
- Recommend a Solution for Containers
- Recommend a Solution for Automating Compute Management

Lab: Implementing Containers on Azure

- Implement containers running in Azure VMs
- Deploy containers to Azure Container Instances
- Deploy containers to Azure Kubernetes Service (AKS) clusters

Module 2: Design a Network Solution

- Recommend a Solution for Network Addressing and Name Resolution
- Recommend a Solution for Network Provisioning
- Recommend a Solution for Network Security
- Recommend a Solution for Internet Connectivity and On-Premises Networks
- Recommend a Solution for Automating Network Management
- Recommend a Solution for Load Balancing and Traffic Routing

Module 3: Design for Migration

- Assess and On-Premises Servers and Applications for Migration
- Recommend a Solution for Migrating Applications and VMs
- Recommend a Solution for Migration of Databases

Module 4: Design Authentication and Authorization

- Tips for Identity and Access Management
- Recommend a Solution for Multi-Factor Authentication
- Five Steps for Securing Identity Infrastructure
- Recommend a Solution for Single-Sign On (SSO)
- Recommend a Solution for a Hybrid Identity
- Recommend a Solution for B2B Integration
- Recommend a Hierarchical Structure for Management Groups

Lab: Managing Azure AD Authentication and Authorization

- Deploy an Azure VM hosting an AD DS domain controller
- Create and configure an Azure AD tenant
- Integrate an AD DS forest with an Azure AD tenant

Module 5: Design Governance

- Recommend a Solution for using Azure Policy
- Recommend a Solution for using Azure Blueprint

Module 6: Design a Solution for Databases

- Select an Appropriate Data Platform Based on Requirements
- Overview of Azure Data Storage
- Recommend Database Service Tier Sizing
- Dynamically Scale Azure SQL Database and Azure SQL Managed Instances
- Recommend a Solution for Encrypting Data at Rest, Transmission, and In Use

Module 7: Select an Appropriate Storage Account

- Understanding Storage Tiers

- Recommend a Storage Access Solution
- Recommend Storage Management Tools

Module 8: Design Data Integration

- Recommend a Data Flow
- Recommend a Solution for Data Integration

Module 9: Design a Solution for Logging and Monitoring

- Azure Monitoring Services
- Azure Monitor

Module 10: Design a Solution for Backup and Recovery

- Recommend a Recovery Solution for Hybrid and On-Premises Workloads
- Design and Azure Site Recovery Solution
- Recommend a Solution for Recovery in Different Regions
- Recommend a Solution for Azure Backup Management
- Design a Solution for Data Archiving and Retention

Module 11: Design for High Availability

- Recommend a Solution for Application and Workload Redundancy
- Recommend a Solution for Autoscaling
- Identify Resources that Require High Availability
- Identify Storage Types for High Availability
- Recommend a Solution for Geo-Redundancy of Workloads

Module 12: Design for Cost Optimization

- Recommend Solutions for Cost Management
- Recommended Viewpoints for Minimizing Costs

Module 13: Design an Application Architecture

- Recommend a Microservices Architecture
- Recommend an Orchestration Solution for Deployment of Applications
- Recommend a Solution for API Integration

Lab: Implement Azure Logic Apps Integration with Azure Event Grid

- Integrate Azure Logic Apps with Event Grid
- Trigger execution of Logic Apps in response to an event representing a change to a resource within a

Module 14: Design Security for Applications

- Security for Applications and Services
- Recommend a Solution using Key Vault
- Recommend Solutions using Azure AD Managed Identities

INFO

Esame: AZ-304 - Microsoft Azure Architect Design

Manuale: Materiale didattico ufficiale Microsoft in formato digitale

Prezzo manuale: 210 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)