Course duration

4 days

Course Benefits

- 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 and 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

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

- 1. Design for Cost Optimization
 - 1. Recommend Solutions for Cost Management
 - 2. Recommended Viewpoints for Minimizing Costs
- 2. Design a Solution for Logging and Monitoring
 - 1. Azure Monitoring Services
 - 2. Azure Monitor
- 3. Design Authentication
 - 1. Recommend a Solution for Multi-Factor Authentication
 - 2. Recommend a Solution for Single-Sign On (SSO)
 - 3. Five Steps for Securing Identity Infrastructure
 - 4. Recommend a Solution for a Hybrid Identity
 - 5. Recommend a Solution for B2B Integration

- 4. Design Authorization
 - 1. Infrastructure Protection
 - 2. Recommend a Hierarchical Structure for Management Groups, Subscriptions and Resource Groups
- 5. Design Governance
 - 1. Recommend a Solution for using Azure Policy
 - 2. Recommend a Solution for using Azure Blueprint
- 6. Design Security for Applications
 - 1. Recommend a Solution using KeyVault
 - 2. Recommend a Solution using Azure AD Managed Identities
- 7. Design a Solution for Databases
 - 1. Select an Appropriate Data Platform Based on Requirements
 - 2. Overview of Azure Data Storage
 - 3. Recommend Database Service Tier Sizing
 - 4. Dynamically Scale Azure SQL Database and Azure SQL Managed Instances
 - 5. Recommend a Solution for Encrypting Data at Rest, Transmission, and In Use
- 8. Design Data Integration
 - 1. Recommend a Data Flow
 - 2. Recommend a Solution for Data Integration
- 9. Select an Appropriate Storage Account
 - 1. Understanding Storage Tiers
 - 2. Recommend a Storage Access Solution
 - 3. Recommend Storage Management Tools
- 10. Design a Solution for Backup and Recovery
 - 1. Recommend a Recovery Solution for Hybrid and On-Premises Workloads
 - 2. Design and Azure Site Recovery Solution
 - 3. Recommend a Solution for Recovery in Different Regions
 - 4. Recommend a Solution for Azure Backup Management
 - 5. Design a Solution for Data Archiving and Retention
- 11. Design for High Availability
 - 1. Recommend a Solution for Application and Workload Redundancy
 - 2. Recommend a Solution for Autoscaling
 - 3. Identify Resources that Require High Availability
 - 4. Identify Storage Tpes for High Availability
 - 5. Recommend a Solution for Geo-Redundancy of Workloads
- 12. Design a Compute Solution
 - 1. Recommend a Solution for Compute Provisioning
 - 2. Determine Appropriate Compute Technologies
 - 3. Recommend a Solution for Containers
 - 4. Recommend a Solution for Automating Compute Management
- 13. Design a Network Solution
 - 1. Recommend a Solution for Network Addressing and Name Resolution
 - 2. Recommend a Solution for Network Provisioning
 - 3. Recommend a Solution for Network Security
 - 4. Recommend a Solution for iInternete Connectivity and On-Premises Networks,
 - 5. Recommend a Solution for Automating Network Management
 - 6. Recommend a Solution for Load Balancing and Rraffic Routing

- 14. Design an Application Architecture
 - 1. Recommend a Microservices Architecture
 - 2. Recommend an Orchestration Solution for Deployment of Applications
 - 3. Recommend a Solution for API Integration
- 15. Design Migrations
 - 1. Assess and On-Premises Servers and Applications for Migration
 - 2. Recommend a Solution for Migrating Applications and VMs
 - 3. Recommend a Solution for Migration of Databases

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following is required for this Azure class:

- 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.