Course duration

5 days

Course Benefits

- 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.

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. Implement VMs for Windows and LinuxI
 - 1. Select Virtual Machine Size
 - 2. Configure High Availability
 - 3. Implement Azure Dedicated Hosts
 - 4. Deploy and Configure Scale Sets
 - 5. Configure Azure Disk Encryption
- 2. Automate Deployment and Configuration of Resources
 - 1. Azure Resource Manager Templates
 - 2. Save a Template for a VM
 - 3. Evaluate Location of New Resources
 - 4. Configure a Virtual Hard Disk Template
 - 5. Deploy from a Template
 - 6. Create and Execute an Automation Runbook
- 3. Implement Virtual Networking
 - 1. Virtual Network Peering
 - 2. Implement VNet Peering
- 4. Implement Load Balancing and Network Security

- 1. Implement Azure Load Balancer
- 2. Implement an Application Gateway
- 3. Understand Web Application Firewall
- 4. Implement Azure Firewall
- 5. Implement Azure Front Door
- 6. Implementing Azure Traffice Manager
- 7. Implement Network Security Groups and Application Security Grou
- 8. Implement Azure Bastion
- 5. Implement Storage Accounts
 - 1. Storage Accounts
 - 2. Blob Storage
 - 3. Storage Security
 - 4. Managing Storage
 - 5. Accessing Blobs and Queues using AAD
 - 6. Configure Azure Storage Firewalls and Virtual Networks
- 6. Implement Azure Active Director
 - 1. Overview of Azure Active Directory
 - 2. Users and Groups
 - 3. Domains and Custom Domains
 - 4. Azure AD Identity Protection
 - 5. Implement Conditional Access
 - 6. Configure Fraud Alerts for MFA
 - 7. Implement Bypass Options
 - 8. Configure Trusted IPs
 - 9. Configure Guest Users in Azure AD
 - 10. Manage Multiple Directori
- 7. Implement and Manage Azure Governance
 - 1. Create Management Groups, Subscriptions, and Resource Groups
 - 2. Overview of Role-Based Access Control (RBAC)
 - 3. Role-Based Access Control (RBAC) Roles
 - 4. Azure AD Access Reviews
 - 5. Implement and Configure an Azure Policy
 - 6. Azure Blueprints
- 8. Implement and Manage Hybrid Identities
 - 1. Install and Configure Azure AD Connect
 - 2. Configure Password Sync and Password Writeback
 - 3. Configure Azure AD Connect Health
- 9. Manage Workloads in Azure
 - 1. Migrate Workloads using Azure Migrate
 - 2. VMware Agentless Migration
 - 3. VMware Agent-Based Migration
 - 4. Implement Azure Backup
 - 5. Azure to Azure Site Recovery
 - 6. Implement Azure Update Management
- 10. Implement Cloud Infrastructure Monitoring
 - 1. Azure Infrastructure Security Monitoring
 - 2. Azure Monitor

- 3. Azure Workbooks
- 4. Azure Alerts
- 5. Log Analytics
- 6. Network Watcher
- 7. Azure Service Health
- 8. Monitor Azure Costs
- 9. Azure Application Insights
- 10. Unified Monitoring in Azure
- 11. Manage Security for Applications
 - 1. Azure Key Vault
 - 2. Azure Managed Identity
- 12. Implement an Application Infrastructure
 - 1. Create and Configure Azure App Service
 - 2. Create an App Service Web App for Containers
 - 3. Create and Configure an App Service Plan
 - 4. Configure Networking for an App Service
 - 5. Create and Manage Deployment Slots
 - 6. Implement Logic Apps
 - 7. Implement Azure Functions
- 13. Implement Container-Based Applications
 - 1. Azure Container Instances
 - 2. Configure Azure Kubernetes Service
- 14. Implement NoSQL Databases
 - 1. Configure Storage Account Tables
 - 2. Select Appropriate CosmosDB APIs
- 15. Implement Azure SQL Databases
 - 1. Configure Azure SQL Database Settings
 - 2. Implement Azure SQL Database Managed Instances
 - 3. High-Availability and Azure SQL Database

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.