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.