AZ-1007: Deploy and administer Linux virtual machines on Azure

Course ID #: 7000-1065-ZZ-Z

Hours: 7

Course Content

Description:

In this course, you prepare for the Applied Skill, Deploy and administer Linux virtual machines on Microsoft Azure.

Prerequisites:
- Experience using the Azure portal and CLI to create resources.
- Familiarity with identity management and role-based access control.
- Experience creating and configuring Azure virtual machines.
- Working knowledge of administering operating systems based on the Linux kernel.

Target Audience:

Administrator

Topics:

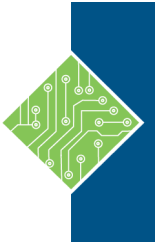**Lesson 1: Add and size disks in Azure virtual machines**
- Introduction
- Understand storage options for virtual machines (VMs)
- Exercise - Add a data disk to a VM
- Determine whether to use premium storage
- Resize virtual machine disks
- Exercise - Resize a VM disk
- Summary

Lesson 2: Monitor your Azure virtual machines with Azure Monitor
- Introduction
- Monitoring for Azure VMs
- Monitor VM host data
- Use Metrics Explorer to view detailed host metrics
- Collect client performance counters by using VM insights
- Collect VM client event logs
- Summary

Lesson 3: Protect your virtual machines by using Azure Backup
- Introduction
- Azure Backup features and scenarios
- Back up an Azure virtual machine by using Azure Backup
- Exercise - Back up an Azure virtual machine
- Restore virtual machine data
- Exercise - Restore Azure virtual machine data
- Summary

AZ-1007: Deploy and administer Linux virtual machines on Azure

Course ID #: 7000-1065-ZZ-Z

Hours: 7

Lesson 4: Manage virtual machines with the Azure CLI
- What is the Azure CLI?
- Exercise - Create a virtual machine
- Exercise - Test your new virtual machine
- Exercise - Explore other VM images
- Exercise - Sizing VMs properly
- Exercise - Query system and runtime information about the VM
- Exercise - Start and stop your VM with the Azure CLI
- Exercise - Install software on your VM
- Summary and cleanup

Lesson 5: Implement access management for Azure resources
- Introduction
- Assign Azure roles
- Configure custom Azure roles
- Create and configure managed identities
- Access Azure resources with managed identities
- Analyze Azure role permissions
- Configure Azure Key Vault RBAC policies
- Retrieve objects from Azure Key Vault
- Explore Microsoft Entra Permissions Management
- Knowledge check
- Summary and resources

Lesson 6: Configure Azure Files
- Introduction
- Compare storage for file shares and blob data
- Manage Azure file shares
- Create file share snapshots
- Implement soft delete for Azure Files
- Use Azure Storage Explorer
- Consider Azure File Sync
- Knowledge check
- Summary and resources

Lesson 7: Guided Project: Deploy and administer Linux virtual machines on Azure
- Introduction
- Exercise - Create and configure Linux virtual machines
- Exercise - Monitor virtual machines
- Exercise - Configure storage for virtual machines
- Exercise - Back up virtual machines
- Module assessment
- Summary and resources

Register for this class by visiting us at:
www.tcworkshop.com or by calling us at 800-639-3535

NASBA Information

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.
Recommended Field(s) of Study:
Recommended CPEs: 7.80

Policies: Course Registration, Cancellation, Refund, and Complaint Resolution
For more information regarding administrative policies such as complaint and program cancellation policies, please contact our offices at 800-639-3535 or visit us at: **www.tcworkshop.com**

Official National Registry Statement:
The Computer Workshop is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credits. Complaints regarding registered sponsors may be submitted to the National Registry of CPE Sponsors through its website: www.nasbaregistry.org

NOTE: Since our information is in multiple places on our website or in PDF format that is sent to clients, we have provided our normal course content with the NASBA Information added along with links to our policy page on the web. We will add our name to the Official National Registry Statement after we are approved.