AZ-104: Microsoft Azure Administrator

Course Overview

This course teaches students about being a Microsoft Azure Administrator. Topics covered include management tools and processes, storage, networking, compute, backup, and monitoring.

| Chapter 1 - Azure Identity Management Solutions | 1h 52m |
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| Instructor Introduction | |
| Course Introduction | |
| Azure Identity Management Solutions | |
| Topic A: Introduction to Azure AD | |
| What is Azure Active Directory | |
| AAD Terminology | |
| Demo - Examining Azure AD | |
| Other Identity Solutions | |
| Demo - Azure AD Licensing | |
| Eliminating AD DS | |
| AD Connect | |
| Demo - AD Connect and SSPR | |
| Topic B: Managing Users and Groups | |
| Azure AD Management | |
| Creating Users | |
| Demo - Working with Users | |
| Groups | |
| Demo - Managing Groups | |
| Additional Directories | |
| Topic C: Azure AD Management | |
| Subscriptions | |
| Resource Tags | |
| Understanding Azure Costs | |
| Demo - Subscription Access Control | |
| Demo - Cost Management | |
| Role-Based Access Control | |
| Understanding Roles | |
| Azure Built-In Roles | |
| Demo - Role-Based Access Control in Azure and Azure AD | |
| Topic D: Working with Azure Policies | |
| Azure Policy | |
| Management Groups | |
| Policy Definitions | |
| Chapter 1 Review | |
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Chapter 2 - Azure Management Tools and Processes

Azure Management Tools and Processes Topic A: Management Tools Azure Management Tools Azure Management Portal Demo - Overview of Azure Management Portal Azure Cloud Shell Demo - Azure Cloud Shell **Command Line Management** PowerShell Fundamentals Demo - Examining Command Line Tools Additional Tools Topic B: Azure Resource Manager Introduction to ARM ARM Terms **Resource Groups** Demo - Using Resource Groups Topic C: Using Templates **ARM Templates Template Fundamentals** Demo - Using Templates Chapter 2 Review

Chapter 3 - Azure Storage

Azure Storage Topic A: Overview of Azure Storage Overview of Azure Storage Storage Uses Storage Account Types Storage Account Types Azure Storage Replication Storage Services Demo - Creating Storage Accounts Topic B: Azure Storage Types Overview of Blob Storage Additional Blob Storage Options Demo - Working with Blob Storage Overview of Azure Files Demo - Working with Azure File Shares Azure File Sync File Sync Terminology Demo - Configuring Azure File Sync Topic C: Managing Azure Storage Storage Explorer Demo - Azure Storage Explorer Moving Data to Azure Topic D: Securing Azure Storage Overview of Storage Security Authorization to Azure Storage Demo - Controlling Access to Azure Storage 1h 18m

Storage Service Encryption Best Practices Chapter 3 Review

Chapter 4 - Azure Networking

Azure Networking Topic A: Virtual Networking Fundamentals Introduction to Virtual Networking Virtual Networks Network Components Demo - Working with VNets Azure DNS Demo - Adding a Custom Domain Azure DNS Components Demo - Configure Azure DNS Topic B: Connecting Virtual Networks Virtual Network Connection Types **VNet Peering** Demo - Configure VNet Peering Topic C: Securing Virtual Networks Network Security in Azure Network Security Groups Configuring NSGs Demo - Creating NSG Rules Azure Firewall **Firewall Rules** Demo - Azure Firewall Topic D: Managing Remote Connections Connecting Remote Networks Introduction to VPN Gateways Site-to-Site Connections Demo - Configuring a VPN Gateway ExpressRoute Topic E: Controlling Network Traffic Network Routing **Routing Tables** Demo - Creating Custom Routing Tables Azure Load Balancer Demo - Azure Load Balancer Azure Application Gateway Application Gateway Routing Configuring the Application Gateway Chapter 4 Review

Chapter 5 - Azure Compute

Azure Compute Topic A: Designing and Planning for Azure Virtual Machines Designing and Planning Virtual Machines Designing Virtual Machines Designing Virtual Machines (cont.)

1h 46m

Demo - View Sizing Chart and Pricing Options for VMs Topic B: Creating Virtual Machines Creating Virtual Machines Demo - Creating and Connecting to Windows VMs Demo - Creating and Connecting to Linux VMs Topic C: Configuring Availability Understanding Availability Options Availability Sets Additional Options Availability Zones Scalability Demo - Implementing Availability and Scaling Topic D: Advanced Virtual Machine Management VM Extensions Custom Script Extensions **Desired State Configuration** Demo - Custom Script Extensions Topic E: Azure App Services and Service Plans Introduction to PaaS App Service Plans Demo - Working with App Service Plans App Services Benefits to App Services Demo - Create an App Service Deployment Slots Managing App Services Topic F: Additional PaaS Options Containers **Container Fundamentals** Docker **Kubernetes Service** Kubernetes Fundamentals Kubernetes Fundamentals (cont.) Chapter 5 Review

Chapter 6 - Azure Backup and Monitoring

Azure Backup and Monitoring Topic A: Disaster Recovery for Data Files Disaster Recovery Azure Backup Recovery Services Vault Demo - Creating a Recovery Services Vault On-Premises Backups Azure Backup Server Topic B: Disaster Recovery for Virtual Machines Disaster Recovery for Virtual Machines Demo - Backing up Azure VMs Demo - Configuring Azure Site Recovery Topic C: Using Azure Monitor and Alerts Proactive Monitoring 48m

Azure Monitor Service Demo - Using Azure Monitor Service Using Alerts Using Alert Rules Demo - Using Alerts Chapter 6 Review Course Closure

Total Duration: 9h 6m