Microsoft certified Associate: Azure Administrator (AZ-100 and AZ-101) Course Agenda

Exam AZ-100: Microsoft Azure Infrastructure and Deployment

1.Manage Subscriptions and Resources

Module 1: Managing Azure Subscriptions
Lessons
Overview of Azure Subscriptions
Billing
Azure Policy

Module 2: Access Management for Cloud Resources
Lessons
Azure Users and Groups
Role-based Access Control

Module 3: Monitoring and Diagnostics
Lessons
Exploring Monitoring Capabilities in Azure
Azure Alerts
Azure Activity Log

Module 4: Log Analytics
Lessons
Introduction to Log Analytics
Querying and Analyzing Log Analytics Data

Module 5: Azure Resource Manager
Lessons
    ARM templates
    Resource Groups

Module 6: Azure Tips, Tricks, and Tools
Lessons
    Azure Portal
    Azure Tools and Environment

2. Implementing and Managing Storage

Module 1: Overview of Azure Storage
Lessons
    Azure storage accounts
    Data replication
    Azure Storage Explorer

Module 2: Storage Services
Lessons
    Virtual machine storage
    Blob storage
    Azure files
    Structured storage

Module 3: Securing and Managing Storage
Lessons
    Shared access keys
    Azure backup
    Azure File Sync

Module 4: Storing and Accessing Data
Lessons
 Azure Content Delivery Network
 Import and Export service

Module 5: Monitoring Storage
Lessons
 Metrics and Alerts
 Activity Log

3.Deploying and Managing Virtual Machines

Module 1: Overview of Azure Machines
Lessons
 Azure Virtual Machines Overview
 Planning Considerations

Module 2: Creating Virtual Machines
Lessons
 Overview of the Virtual Machine Creation Overview
 Creating Virtual Machines in the Azure Portal
 Creating Virtual Machines (PowerShell)
 Creating Virtual Machines using ARM Templates

Module 3: Deploying Virtual Machine Images
Lessons
 Deploying Custom Images
 Deploying Linux Virtual Machines

Module 4: Configuring Virtual Machines
Lessons
     Overview of Virtual Machine Configuration
     Virtual Machine Networking
     Virtual Machine Storage

Module 5: Configuring Availability and Extensibility
Lessons
     Virtual Machine Availability
     Virtual Machine Scalability
     Applying Virtual Machine Extensions

Module 6: Managing and Monitoring Virtual Machines
Lessons
     Backup and Restore
     Monitoring Virtual Machines

4.Configuring and Managing Virtual Networks

Module 1: Azure Virtual Networks
Lessons
     Introducing Virtual Networks
     Creating Azure Virtual Networks
     Review of IP Addressing
     Network Routing

Module 2: Azure DNS
Lessons
     Azure DNS Basics
     Implementing Azure DNS

Module 3: Securing Virtual Network Resources
Lessons
      Introduction to Network Security Groups
      Implementing Network Security Groups and Service Endpoints

Module 4: Connecting Virtual Networks
Lessons
      Intersite Connectivity (VNet-to-VNet Connections)
      Virtual Network Peering

5. Manage Identities

Module 1: Managing Azure Active Directory
Lessons
      Azure Active Directory Overview
      Self-Service Password Reset
      Azure AD Identity Protection
      Integrating SaaS Applications with Azure AD

Module 2: Managing Azure Active Directory Objects
Lessons
      Azure Domains and Tenants
      Azure Users and Groups
      Azure Roles
      Managing Devices

Module 3: Implementing and Managing Hybrid Identities
Lessons
      Azure Active Directory Integration Options
      Azure AD Application Proxy

EXAM AZ-101: Microsoft Azure Integration and Security

1. Migrate Servers to Azure

    Module 1: Managing Azure Active Directory
    Lessons
        Overview of Cloud Migration
        Azure Migrate: The Process

    Module 2: Azure Site Recovery
    Lessons
        Overview of ASR
        Preparing the Infrastructure
        Completing the Migration Process

    Module 3: Additional Migration Scenarios
    Lessons
        VMWare Migration
        System Center VMM Migration: Video Walkthrough

2. Implementing and Managing Application Services

    Module 1: Introducing the Azure App Service Platform
    Lessons
        Introducing Azure App Service
        App Service Environments

Module 2: Managing and Securing Web Apps
Lessons
     Deploying Web Apps
     Managing Web Apps
     App Service Security

Module 3: Scaling and Performance
Lessons
     Scale Up and Scale Out
     Autoscale and Grow out
     Optimizing Bandwidth and Web Traffic

Module 4: Deploying Serverless Computing Solutions
Lessons
     Serverless Computing Concepts
     Managing Azure Functions
     Managing Event Grid
     Managing Service Bus
     Managing Logic App

3. Secure Identities

Module 1: Introduction to Identity Protection in Azure
Lessons
     Role-Based Access Control
     Azure Active Directory (Refresher)
     Protecting Privileged Access in the Environment

Module 2: Using Multi-Factor Authentication for Secure Access
Lessons
  Introducing Multi-Factor Authentication
  Implementing MFA

Module 3: Azure AD Privileged Identity Management
Lessons
  Getting Started with PIM
  PIM Security Wizard
  PIM for Directory Roles
  PIM for Role Resources

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