Deploy and administer Linux virtual machines on Azure Training

Duration: **1 Day**

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Overview

This training provides a practical and comprehensive introduction to deploying and managing**Linux virtual machines (VMs)** on Microsoft Azure.

Through nine structured modules, participants will learn how to create, configure, monitor, and maintain Linux-based environments using Azure tools and services.

The course covers key topics such as Azure CLI automation, VM configuration, monitoring solutions, backup strategies, and identity management. With a strong hands-on focus, the training prepares participants to efficiently manage Linux workloads within Azure cloud environments.

Prerequisites

Participants should ideally have:

- Experience using the Azure Portal and Azure CLI
- Knowledge of identity management and Role-Based Access Control (RBAC)
- Familiarity with Linux server administration
- Basic understanding of Azure virtual machine management

Who Should Attend

This course is suitable for professionals such as:

- System administrators responsible for deploying and maintaining virtual machines
- Cloud administrators working with Linux-based cloud infrastructure
- IT professionals looking to expand their Azure expertise with Linux VM management

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What You Will Learn

By the end of this course, participants will be able to:

- Deploy and configure Linux virtual machines on Azure
- Monitor and scale Linux VMs using Azure monitoring tools
- Implement security practices including managed identities and RBAC
- Automate administrative tasks using Azure CLI
- Integrate services such as Azure Backup and Azure Monitor for VM management

Outline

Introduction to Linux on Azure

- Overview of Azure services for Linux environments
- Understanding IaaS and PaaS solutions for Linux workloads

Provisioning Linux Virtual Machines

- Creating Linux VMs using Azure CLI
- Infrastructure automation with Terraform and Bicep
- VM sizing and scaling best practices

Configuring Virtual Machines

- Storage and networking configuration
- Secure SSH access setup
- VM resizing and vertical scaling techniques

Monitoring with Azure Monitor

- Collecting performance metrics
- Configuring Azure Monitor dashboards
- Creating alerts and automated monitoring workflows

Backing Up VMs with Azure Backup

- Configuring backup policies for Linux VMs

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- Disaster recovery planning
- Restoring virtual machines from backups

Managing VMs with Azure CLI

- Starting, stopping, and resizing VMs
- Automating administration tasks with CLI commands

Identity and Role Management

- Securing VMs with managed identities
- Implementing role-based access control
- Assigning Azure roles for secure access management

Azure Files and File Sync Integration

- Mounting Azure Files within Linux virtual machines
- Managing shared storage across environments
- Synchronizing files with Azure File Sync

VM Scaling and Performance Optimization

- Identifying performance bottlenecks
- Troubleshooting VM performance issues
- Implementing vertical scaling strategies in Azure