Azure Virtual Machines Workshop Training

Duration: **1 Day**

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Azure Virtual Machines Workshop is a **one-day immersive, hands-on programme** focused on creating, configuring, managing and maintaining virtual machines within Microsoft Azure.

Throughout the workshop, participants explore the lifecycle of an Azure Virtual Machine from initial planning through deployment and ongoing operations. The course covers key considerations before creating a VM, configuration, remote connectivity, network protection, reliability, scaling, monitoring and maintenance.

Its practical format allows learners to go beyond understanding Azure VM concepts and gain experience of how virtual machines are deployed and managed as part of a cloud environment.

Prerequisites

Participants should have a **fundamental understanding of Microsoft Azure** before attending the workshop.

MFA Requirement

Multi-Factor Authentication (MFA) is required during the course. Participants should install and prepare the required MFA application on their device before attending.

Who Should Attend

This workshop is suitable for:

- Individuals seeking a practical understanding of Azure Virtual Machines
- Azure Administrators or professionals preparing for Azure administration roles
- IT teams responsible for deploying and managing Azure virtual machines
- Systems administrators involved in VM operations and maintenance
- IT professionals who want hands-on exposure to Azure compute infrastructure

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What You Will Learn

By the end of the workshop, participants will be able to:

- Explain the overall lifecycle of an Azure Virtual Machine
- Consider key planning requirements before VM deployment
- Create Virtual Machines within Azure
- Manage fundamental VM configuration options
- Understand remote connectivity to Azure VMs
- Consider network protection and security controls for virtual machines
- Understand reliability considerations for VM-based workloads
- Explain the purpose of Virtual Machine Scale Sets
- Monitor Azure VM resources
- Develop foundational skills for the ongoing management and maintenance of Azure Virtual Machines

Training Outline

1. Azure Virtual Machines and the VM Lifecycle

Begin with an introduction to Azure Virtual Machines and the key stages involved in operating them.

- Introduction to Azure Virtual Machines
- Understanding the VM lifecycle
- Creation, management and maintenance
- Core responsibilities involved in Azure VM administration

2. Planning Considerations

Explore important factors to consider before deploying a new virtual machine.

- Identifying VM requirements
- Pre-deployment planning
- Considering suitable configurations for workloads
- Reviewing operational and management requirements

3. Virtual Machine Creation

Work through the fundamental process of creating a Virtual Machine within Azure.

- VM creation workflow
- Core deployment options
- Preparing a VM for use
- Reviewing deployed VM resources

4. Virtual Machine Configuration

Explore the configuration activities required after a virtual machine has been created.

- Managing VM settings

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- VM configuration options
- Configuring machines for operational requirements
- The role of configuration in ongoing administration

5. Remote Connectivity

Understand how administrators connect remotely to Azure Virtual Machines.

- Remote connectivity concepts
- Connecting to Azure VMs
- Administrative remote access
- Key considerations when managing remote connections

6. Network Protection and Security

Explore fundamental approaches to protecting virtual machines at the network level.

- VM network security
- Network protection considerations
- Controlling access to virtual machines
- Supporting secure connectivity within Azure VM environments

7. Reliability

Review key considerations for maintaining reliable VM-based workloads.

- VM reliability concepts
- Supporting service continuity
- Resilience considerations for virtual machine infrastructure
- Maintaining operational availability

8. Virtual Machine Scale Sets

Explore **Virtual Machine Scale Sets** and their role in managing scalable groups of Azure virtual machines.

- Introduction to Scale Sets
- Building scalable VM infrastructure
- Common Scale Set use cases
- Managing VM capacity

9. Monitoring and Maintenance

Conclude by examining how Azure Virtual Machines can be monitored and maintained throughout their operational lifecycle.

- VM monitoring
- Tracking virtual machine status
- Routine maintenance activities
- Operational management of VM resources
- Supporting the ongoing VM lifecycle

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Hands-On Learning

The course is delivered as a **hands-on workshop**, giving participants practical exposure to the main stages of Azure Virtual Machine management—from initial creation and configuration through secure connectivity, monitoring and ongoing maintenance.