

# Microsoft Azure - managing virtual servers and their migration in detail

Course code: GOC244

Three-day instructor-led training prepares students for tasks of managing virtual machines and especially server operating systems in the Microsoft Azure cloud infrastructure including their migration from VMWare and other platforms as well as configuring their basic security settings.

## For whom the course is intended

The course is intended for administrators and architects of security and IT infrastructure primarily built on Active Directory (AD DS) and Azure Active Directory (AAD).

## Assumed entry knowledge

Knowledge in the range of courses listed in the sections **Previous courses** and **Related courses**

Good knowledge of TCP/IP and DNS technologies

## Course outline

Network connectivity for VM

- Networks, subnets

- IP Addresses

- Load Balancing

- Firewall

- Routing

Options for creating VMs in Azure, assigning networks, disks, addresses

- VM Family sizing

- Disks and their performance

- Connectivity management for VM

Secure VM

- Defender for Servers

- Defender for Cloud - JIT, PIM

- Azure Bastion

- Network Security Groups, Application Security Groups

VM performance scaling

- VM Scale Set

High availability of VM

- High availability of VMs in Azure

- Availability Zones

- Availability Sets

- Site Recovery

- Storage Redundancy

- VM in cluster

Backup and Disaster recovery VM

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Site recovery

Backup vault

Recovery vault

VM migration from an on-prem environment

Hyper-V and migration to Azure

Azure Migration and Modernization for VMWare

## Preparation for certification exams

For Microsoft certification exams, apart from MCM certifications, participation in the official MOC course is not a necessary condition for passing the exam

Microsoft's official MOC courses as well as our own GOC courses are a suitable part of the preparation for Microsoft certification exams such as MTA, MCP, MCSA, MCSE, or MCM

However, the primary goal of the course is not directly preparation for certification exams, but the mastery of theoretical principles and the acquisition of practical skills necessary to work effectively with the given product

MOC courses usually cover almost all areas required for the corresponding certification exams. However, their discussion in the course is not always given exactly the same time and emphasis as required by the certification exam

For example, books from MS Press (so-called Self-paced Training Kit) and electronic self-test software can be used as additional preparation for certification exams.

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