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.