



MFE-IT

Reference: FD/EN/HV

Hyper-V Virtualisation Training Course

Deploy, Manage and Secure Your Windows Server Virtual Machines

Duration: 2 Days | Hours: 14 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

In a context where performance, flexibility and resource rationalisation are essential, Hyper-V stands out as a robust virtualisation solution integrated into the Windows Server ecosystem. After the recent VMware licensing changes, many organisations have re-evaluated Hyper-V as a credible enterprise alternative — especially for Microsoft-centric shops where it ships at no extra cost with Windows Server.

This Hyper-V training course will enable you to master the fundamentals of virtualisation with Hyper-V, create and manage virtual machines, and configure virtual networks, storage and high availability scenarios. Hands-on labs cover the full lifecycle: from initial installation to live migration, replication and clustering for production workloads.

LEARNING OBJECTIVES

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

- Understand the basic concepts of virtualisation and Hyper-V architecture
- Install, configure and administer Hyper-V on Windows Server
- Create and manage virtual machines and their virtual disks
- Manage resources, storage, snapshots and virtual networks
- Implement high availability strategies with Hyper-V Cluster
- Monitor and maintain virtualised environments

PREREQUISITES

- Basic knowledge of Windows Server administration
- Understanding of network architectures (IP, VLAN, DNS)
- Recommended experience in physical server management

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

System administrators, infrastructure managers and IT technicians migrating to virtualised architectures or evaluating Hyper-V as an alternative to VMware.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Introduction to Virtualisation and Hyper-V

- Virtualisation concepts and business use cases
- Hyper-V architecture and component overview
- Licensing options and editions

Module 2 – Installing and Configuring Hyper-V

- Hyper-V role on Windows Server: GUI and Core installation
- Hyper-V Manager and Windows Admin Center
- PowerShell for Hyper-V automation

Module 3 – Virtual Machine Management

- VM creation and configuration
- Virtual disks: VHDX format and dynamic vs fixed
- Checkpoints, import and export

Module 4 – Virtualised Networks and Storage

- Virtual switches: external, internal, NAT, isolated
- Bandwidth management and QoS
- Shared storage and SMB 3.0 file shares

Module 5 – High Availability and Replication

- Hyper-V clustering and live migration
- Hyper-V Replica for disaster recovery
- Backup, restore and monitoring strategies

Module 6 – Optimisation and Best Practices

- VM performance tuning and dynamic memory
- Automation scripts and templates
- Security baselines and host hardening

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts