

KOENIG SOLUTIONS • COURSE OUTLINE

Configuring and Administering Hyper-V in Windows Server 2022

Learn to plan, configure and manage Hyper-V virtual machines, networking, storage, replication and migration in Windows Server 2022.

7

MODULES

24

TOPICS

COURSE OVERVIEW

This course covers planning for virtualization and assessing virtualization candidates before implementing server virtualization with Hyper-V, including virtual machine storage and networks. It then covers creating and configuring virtual hard disks and virtual machines, managing snapshots, and importing virtual machines, followed by configuring virtual network adapters, network virtualization and the Hyper-V Extensible Switch. Scale-up options, NUMA and Hyper-V scale comparisons are addressed alongside Hyper-V Replica for disaster recovery, including failover operations and backup. The course concludes with Hyper-V migration, covering live migration, storage migration and live migration security using SMB.

WHO THIS COURSE IS FOR

Virtualization Administrators

System Administrators

Infrastructure Engineers

Network Administrators

IT Professionals

LEARNING OBJECTIVES

- Explain virtualization concepts and assess virtualization candidates
- Plan a virtualization deployment for Windows Server 2022
- Implement Hyper-V and configure virtual machine storage and networks
- Create and configure virtual hard disks and virtual machines
- Manage virtual machine snapshots and import virtual machines
- Configure Hyper-V networking including the Extensible Switch
- Apply scale-up options such as NUMA to virtual machines
- Configure Hyper-V Replica and plan disaster recovery failover

7 Modules, 24 Topics

01

Planning for Virtualization

TOPICS

Overview of Microsoft Virtualization · Assessment of Virtualization Candidates · Planning for Virtualization

02

Implementing Server Virtualization with Hyper-V

TOPICS

Implementing Hyper-V · Managing Virtual Machine Storage · Managing Virtual Networks

03

Creating and Configuring Virtual Hard Disks and Virtual Machines

TOPICS

Creating and Configuring Virtual Hard Disks · Creating and Configuring Virtual Machines · Managing Virtual Machine Snapshots · Virtual Machine Import

04

Configure Networking in Hyper-V

TOPICS

Advanced Features of Virtual Network Adapters · Hyper-V Network Virtualization · Hyper-V Extensible Switch

05

Scale-up Virtual Machines

TOPICS

- Overview of Scale-up Options in Windows Server 2022
- Non-uniform Memory Access (NUMA)
- Hyper-V Scale Comparison

06

Hyper-V Replica and Disaster Recovery

TOPICS

Overview of Hyper-V Replica · Configuring Hyper-V Replica · Hyper-V Replica Failover Operations · Hyper-V Backup

07

Hyper-V Migration

TOPICS

Live Migration Overview · Storage Migration Overview · Live Migration Security · Live Migration using SMB

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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✉ info@koenig-solutions.com