

KOENIG SOLUTIONS • COURSE OUTLINE

Mastering System Centre Virtual Machine Manager

Learn to deploy and manage virtual machines, networks, storage, and services using System Centre Virtual Machine Manager.

4 Days

32 HOURS

12

MODULES

38

TOPICS

12

HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course covers System Centre Virtual Machine Manager, starting with its architecture, installation, and management of Hyper-V hosts, job history, and role-based permissions. It then addresses configuring logical networks, virtual switches, storage pools, and performance optimisation through dynamic resource balancing. The course proceeds to library management, VM templates, and deploying and managing virtual machines and multi-tier services. It concludes with monitoring, troubleshooting job logs and events, and backup, recovery, and security best practices.

WHO THIS COURSE IS FOR

Virtualization Administrators

System Administrators

Infrastructure Engineers

Data Centre Administrators

IT Operations Staff

LEARNING OBJECTIVES

- Explain SCVMM architecture, licensing, and installation prerequisites
- Configure Hyper-V hosts, Run As accounts, and host groups
- Manage job history, delegation, and Active Directory integration
- Configure logical networks, uplink port profiles, and VM networks
- Configure storage pools and storage providers such as SMB and iSCSI
- Apply dynamic optimization and placement rules for resource balancing
- Build VM templates using guest OS and hardware profiles
- Deploy and manage virtual machines and multi-tier services

12 Modules, 38 Topics

DAY 1**SCVMM Fundamentals and Host Management**

8 hours

01

Lab

Introduction to SCVMM and System Centre Ecosystem

TOPICS

- SCVMM architecture and components
- Licensing, editions, and supported scenarios
- Installation prerequisites and SCVMM installation
- SCVMM console overview

02

Lab

Adding and Managing Hyper-V Hosts

TOPICS

Discovering and adding Hyper-V hosts · Configuring Run As accounts · Creating and managing Host Groups

03

Lab

Understanding SCVMM Job System and Permissions

TOPICS

Job management and history · Delegation and user roles · Integration with Active Directory

DAY 2**Network and Storage Configuration**

8 hours

04

Lab

Configuring Networking in SCVMM

TOPICS

Logical networks, IP pools, MAC address pools · Uplink port profiles and logical switches · VM networks, isolation, and VLANs · Network virtualization concepts

05

Lab

Configuring Storage in SCVMM

TOPICS

- Storage architecture in SCVMM
- Storage classifications and storage pools
- Adding and managing storage providers (SMB, iSCSI, SAN)

06**Lab**

Performance Optimization and Resource Balancing

TOPICS

Dynamic optimization and resource control · Placement rules and affinity settings

DAY 3

VM Libraries and Virtual Machine Deployment

8 hours

07**Lab**

Library Management and VM Templates

TOPICS

- SCVMM library server roles
- Managing ISO, VHD, scripts, and other resources
- Creating Guest OS Profiles and Hardware Profiles
- Creating VM templates for standardization

08**Lab**

Deploying Virtual Machines

TOPICS

- Creating VMs from scratch and from templates
- Customizing CPU, memory, storage, and networking
- VM deployment options and host selection
- Post-deployment configurations and software installation

09**Lab**

Managing VMs and Services

TOPICS

- **Managing VMs:** Power, checkpoints, and settings
- Creating multi-tier services

10

Lab

Monitoring and Reporting in SCVMM

TOPICS

Health monitoring using the SCVMM console ·
Integration with SCOM for deeper insights ·
Performance metrics and alerts

11

Lab

Troubleshooting and Logs

TOPICS

Common SCVMM issues and resolutions · Viewing and
analyzing job logs · SCVMM event logs and diagnostics

12

Final Lab

Backup, Recovery, and Best Practices

TOPICS

SCVMM backup strategies · Disaster recovery options · Security best practices and hardening SCVMM

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
01	Introduction to SCVMM and System Centre Ecosystem	Lab: Install SCVMM and explore the console
02	Adding and Managing Hyper-V Hosts	Lab: Add and manage hosts using SCVMM
03	Understanding SCVMM Job System and Permissions	Lab: Configure user roles and permissions
04	Configuring Networking in SCVMM	Lab: Create and configure logical networks and virtual switches
05	Configuring Storage in SCVMM	Lab: Configure storage pools and assign to hosts
06	Performance Optimization and Resource Balancing	Lab: Configure dynamic optimization and test placement logic
07	Library Management and VM Templates	Lab: Set up a library server and build a VM template
08	Deploying Virtual Machines	Lab: Deploy VMs using templates with custom settings
09	Managing VMs and Services	Lab: Deploy and manage a service template

#	MODULE	ACTIVITY
10	Monitoring and Reporting in SCVMM	Lab: Monitor VMs and hosts; configure alerts
11	Troubleshooting and Logs	Lab: Simulate and troubleshoot VM deployment issues
12	Backup, Recovery, and Best Practices	Final Lab: Perform SCVMM health check and export configuration

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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