

Mastering System Centre Virtual Machine Manager

Duration: 4 Days

Day 1: SCVMM Fundamentals and Host Management (8 Hours)

Module 1: Introduction to SCVMM and System Centre Ecosystem

- SCVMM architecture and components
- Licensing, editions, and supported scenarios
- Installation prerequisites and SCVMM installation
- SCVMM console overview
- Lab: Install SCVMM and explore the console

Module 2: Adding and Managing Hyper-V Hosts

- Discovering and adding Hyper-V hosts
- Configuring Run As accounts
- Creating and managing Host Groups
- Lab: Add and manage hosts using SCVMM

Module 3: Understanding SCVMM Job System and Permissions

- Job management and history
- Delegation and user roles
- Integration with Active Directory
- Lab: Configure user roles and permissions

Day 2: Network and Storage Configuration (8 Hours)

Module 4: Configuring Networking in SCVMM

- Logical networks, IP pools, MAC address pools
- Uplink port profiles and logical switches
- VM networks, isolation, and VLANs
- Network virtualization concepts
- Lab: Create and configure logical networks and virtual switches

Module 5: Configuring Storage in SCVMM

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

- Lab: Configure storage pools and assign to hosts

Module 6: Performance Optimization and Resource Balancing

- Dynamic optimization and resource control
- Placement rules and affinity settings
- Lab: Configure dynamic optimization and test placement logic

Day 3: VM Libraries and Virtual Machine Deployment (8 Hours)

Module 7: Library Management and VM Templates

- SCVMM library server roles
- Managing ISO, VHD, scripts, and other resources
- Creating Guest OS Profiles and Hardware Profiles
- Creating VM templates for standardization
- Lab: Set up a library server and build a VM template

Module 8: Deploying Virtual Machines

- 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
- Lab: Deploy VMs using templates with custom settings

Module 9: Managing VMs and Services

- Managing VMs: Power, checkpoints, and settings
- Creating multi-tier services
- Lab: Deploy and manage a service template

Day 4: Monitoring, Troubleshooting, and Best Practices (8 Hours)

Module 10: Monitoring and Reporting in SCVMM

- Health monitoring using the SCVMM console
- Integration with SCOM for deeper insights
- Performance metrics and alerts
- Lab: Monitor VMs and hosts; configure alerts

Module 11: Troubleshooting and Logs

- Common SCVMM issues and resolutions
- Viewing and analyzing job logs
- SCVMM event logs and diagnostics
- Lab: Simulate and troubleshoot VM deployment issues

Module 12: Backup, Recovery, and Best Practices

- SCVMM backup strategies
- Disaster recovery options
- Security best practices and hardening SCVMM
- Recap and course Q&A
- Final Lab: Perform SCVMM health check and export configuration