



Course 20745A

Implementing a Software-Defined DataCenter

Course Length : 40 Hours
Professional Series : 5 Days
Academic Series : 6 Weeks

Module 1: Introduction to server virtualization

- Overview of Microsoft Virtualization
- Introduction to the software-defined datacenter
- Extending virtualization to the cloud

Module 2: Overview of Hyper-V virtualization

- Installing and configuring the Hyper-V role
- Creating and managing virtual hard disks and virtual machines
- Creating and using Hyper-V virtual switches
- Implementing failover clustering with Hyper-V

Module 3: Installing and configuring System Center 2016 Virtual Machine Manager

- Overview of System Center 2016 VMM
- Installing System Center 2016 VMM
- Adding hosts and managing host groups

Module 4: Managing storage fabric and fabric updates

- Overview of server virtualization storage technologies
- Managing storage fabric
- Managing fabric updates

Module 5: Configuring and managing the Virtual Machine Manager library and library objects

- Overview of the VMM library
- Preparing Windows for deployment in VMM
- Working with profiles
- Working with virtual machine templates

Module 6: Managing the networking fabric

- Networking concepts in VMM
- Managing Software-Defined Networking
- Understanding network function virtualization

Module 7: Creating and managing virtual machines by using Virtual Machine Manager

- Virtual machine management tasks
- Creating, cloning, and converting virtual machines

Module 8: Managing clouds in System Center 2016 Virtual Machine Manager

- Introduction to clouds
- Creating and managing a cloud
- Creating user roles in VMM

Module 9: Managing services in Virtual Machine Manager

- Overview of services in VMM
- Creating and managing services in VMM

Module 10: Monitoring a virtualization infrastructure by using System Center Operations Manager

- Operations Manager architecture and security
- Using Operations Manager for monitoring and reporting
- Integrating Operations Manager with VMM and DPM

Module 11: Implementing and managing Hyper-V Replica and Azure Site Recovery

- Implementing and managing Hyper-V Replica
- Implementing and managing Azure Site Recovery

Module 12: Protecting a virtualization infrastructure by using Data Protection Manager

- Overview of backup and restore options for virtual machines
- Configuring and managing