

# 55021 Configuring and Administering Hyper-V in Windows Server 2012

## Course Overview

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This is a 3-day class

Students will learn the history of Virtualization as it pertains to Microsoft technologies. Students will learn the new features of Hyper-V in Windows Server 2012.



## Who Should Attend

This course is intended for Network Administrators who are responsible for virtualization in their environment specifically Hyper-V.

## Course Outline

### 1 Planning for Virtualization

Overview of Microsoft Virtualization  
Assessment of Virtualization Candidates  
Planning for Virtualization  
Lab 1: Assessing the Environment for Virtualization

### 2 Implementing Server Virtualization with Hyper-V

Implementing Hyper-V  
Managing Virtual Machine Storage  
Managing Virtual Networks  
Lab 1: Installing and Configuring the Hyper-V Server Role

### 3 Creating and Configuring Virtual Hard Disks and Virtual Machines

Creating and Configuring Virtual Hard Disks  
Creating and Configuring Virtual Machines  
Managing Virtual Machine Snapshots  
Virtual Machine Import  
Lab 1: Creating Virtual Hard Disks and Virtual Machines

### 4 Configure Networking in Hyper-V

Advanced features of Virtual Network Adapters  
Hyper-V Network Virtualization  
Hyper-V Extensible Switch  
Lab 1: Configuring Network Settings

### 5 Scale-up Virtual Machines

Overview of Scale-up options in Windows Server 2012  
Non-uniform memory access (NUMA)  
Hyper-v Scale Comparison  
Lab 1: Configuring NUMA

### 6 Hyper-V Replica and Disaster Recovery

Overview of Hyper-V Replica  
Configuring Hyper-V Replica  
Hyper-V Replica Failover Operations  
Hyper-V Backup  
Lab 1: Configuring Hyper-V Replica and Backups



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## 7 Hyper-V Migration

Live Migration Overview

Storage Migration Overview

Live Migration Security

Live Migration using SMB

Lab 1: Implementing Migration in Hyper-V