Windows Server 2012, Part 2 of 6: Remote Management and Storage

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Meet the expert: JC Mackin (MCSA, MCSE) is a writer, analyst, and trainer who has specialized in Windows networks since Windows NT 4.0. He has authored or co-authored more than 10 books about Windows administration and certification, including many Microsoft Training Kits and the Exam Ref for Exam 70-417.

Prerequisites: The course assumes that students have some familiarity with Microsoft Windows, basic networking concepts, and a fundamental understanding of computer hardware.

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Course description: Today, server administration is often performed remotely, away from the servers you are managing. In this course we're going to take a look at the two technologies used for remote server management in Windows Server 2012. We'll cover which type of remote management is enabled by default in Windows Server 2012 and the steps you need to take to enable remote management of older servers. We'll look at the tasks you'll be able to perform out of the box, and which kinds of tasks require you to open firewall ports. Windows Server 2012 can run in the cloud, but if you'll be deploying the OS on a physical server, you'll have to configure its hardware too. Some features in Windows Server 2012 let you manage aspects of that hardware in a way that adds flexibility, resilience, and fault tolerance. These features include NIC Teaming, the GPT partition style, dynamic disks, the new ReFS format type, and Storage Spaces.

Course outline:

WinRM
- Introduction
- Managing Remote Servers
- WinRM
- What is WinRM?
- Demo: WinRM
- Re-enabling on Server 2012
- Enabling on Older Servers
- WinRM with Windows PowerShell
- Server Manager
- Demo: Server Manager
- WinRS
- Demo: WinRS
- Summary

DCOM
- Introduction
- Managing Remote Servers
- Demo: Computer Management
- Opening Ports with PowerShell
- Firewall with Advanced Security
- Remote Desktop
- Remotely Enable Remote Desktop
- Summary

NIC Teaming
- Introduction
- NIC Teaming
- Demo: Config in Server Manager
- NIC Team: Configuring
- Demo: NIC Team 1
- Summary

Concepts
- Introduction
- Storage Concepts
- Demo: Partition Styles
- Partition Styles
- Demo: Disk Types
- Disk Types: Basic Disks
- Disk Types: Dynamic Disks
- Demo: Volume Types
- Volume Types: Simple
- Volume Types: Mirrored
- Demo: Mirrored Volume
- Volume Types: Striped
- Volume Types: RAID-5
- Demo: Striped and RAID-5
- Demo: Format Types
- Format Types
- Summary

Spaces
- Introduction
- Storage Spaces
- Primordial Pool
- Steps
- Demo: Storage Pool
- Creating Virtual Disks
- Demo: Virtual Disk
- Virtual Disks: Storage Layout
- Summary