

## Course Details

# Course 20414A

## Implementing an Advanced Server Infrastructure

Length: 5 Days

Published: September 21, 2012

Language(s): English

Audience(s): IT Professionals

Level: 300

Technology: Windows Server 2012

Type: Course

Delivery Method: Instructor-led (classroom)

## Prerequisites

Before attending this course, students must have:

- Understanding of TCP/IP and networking concepts.
- Understanding of Windows Server 2012 and AD DS, including planning, designing and deploying.
- Understanding of scripts and batch files.
- Understanding of security concepts such as authentication and authorization.
- Understanding of deployment, packaging, and imaging tools.
- Working in a team or a virtual team.
- Creating proposals and making budget recommendation.
- Have achieved the Windows Server 2012 MCSA certification as well as information in the course 20413A: Designing and Implementing an Enterprise Server Infrastructure.

## Course Outline

### Module 1: Planning and Implementing a Server Virtualization Strategy

- Overview of System Center 2012 Components
- Integrating System Center 2012 and Server Virtualization
- Planning and Implementing a Server Virtualization Host Environment

### Module 3: Planning and Deploying Virtual Machines

- Planning Virtual Machine Configuration
- Preparing for Virtual Machine Deployments with VMM
- Deploying Virtual Machines

### Module 2: Planning and Implementing Networks and Storage for Virtualization

- Planning a Storage Infrastructure for Virtualization
- Implementing a Storage Infrastructure for Virtualization
- Planning and Implementing a Network Infrastructure for Virtualization

### Module 4: Planning and Implementing a Virtualization Administration Solution

- Planning and Implementing Microsoft System Center Administration
- Planning and Implementing Self-Service with System Center
- Planning and Implementing Automation with System Center

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## Module 5: Planning and Implementing a Server Monitoring Strategy

- Planning Monitoring in Windows Server 2012
- Overview of System Center Operations Manager
- Planning and Configuring Monitoring Components
- Configuring Integration with VMM

## Module 7: Planning and Implementing a Highly Available Infrastructure Using Failover Clustering

- Planning a Failover Clustering Infrastructure
- Implementing Failover Clustering
- Integrating Failover Clustering with Server Virtualization
- Planning a Multi-Site Failover Cluster

## Module 9: Planning and Implementing a Business Continuity Strategy

- Overview of Business Continuity Planning
- Planning and Implementing Backup Strategies
- Planning and Implementing Recovery
- Planning and Implementing Virtual Machine Backup and Recovery

## Module 11: Planning and Implementing an Identity Federation Infrastructure

- Planning and Implementing an AD FS Server Infrastructure
- Planning and Implementing AD FS Claim Providers and Relying Parties
- Planning and Implementing AD FS Claims and Claim Rules

## Module 6: Planning and Implementing High Availability for File Services and Applications

- Planning and Implementing Storage Spaces
- Planning and Implementing DFS
- Planning and Implementing Network Load Balancing

## Module 8: Planning and Implementing an Server Updates Infrastructure

- Planning and Implementing a Windows Server Update Services (WSUS) Deployment
- Planning Software Updates with System Center 2012 Configuration Manager
- Planning and Implementing Updates in a Server Virtualization Infrastructure

## Module 10: Planning and Implementing an Public Key Infrastructure

- Planning and Implementing a Certification Authority Deployment
- Planning and Implementing Certificate Templates
- Planning and Implementing Certificate Distribution and Revocation
- Planning and Implementing Key Archival and Recovery

## Module 12: Planning and Implementing an Information Rights Management Infrastructure

- Planning and Implementing an AD RMS Cluster
- Planning and Implementing AD RMS Templates and Policies
- Planning and Implementing External Access to AD RMS Services
- Planning and Implementing AD RMS Integration with Dynamic Access Control (DAC)