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## IMPLEMENTING AN ADVANCED SERVER INFRASTRUCTURE – EXAM 70-414

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This hands-on course provides students with knowledge and develops their skills to get experience necessary to implementing an Advanced Server Infrastructure.

During this course we will cover the knowledge and skills to plan and implement a secure infrastructure with focus on Active Directory Federation Service (AD FS), public key infrastructure (PKI), and Active Directory Rights Management Services (AD RMS). You will also learn planning and implementing a monitoring strategy that includes Microsoft System Center 2012 R2-Operations Manager.

This course is part five of five towards your MCSE: Windows Server Infrastructure credential.

NOTE: This course is designed for experienced IT professionals who are MCSA: Windows Server 2012 certified.

### COURSE OUTLINE:

#### **Overview of Management in an Enterprise Data Center**

- Overview of the Enterprise Data Center
- Overview of the Microsoft System Center 2012 R2 Components

#### **Planning and Implementing a Server Virtualization Strategy**

- Planning a VMM Deployment
- Planning and Implementing a Server Virtualization Host Environment

#### **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



- Planning and Implementing Network Virtualization

### **Planning and Deploying Virtual Machines**

- Planning a Virtual Machine Configuration
- Preparing for Virtual Machine Deployments with VMM
- Deploying Virtual Machines
- Planning and Implementing Hyper-V Replica

### **Planning and Implementing a Virtualization Administration Solution**

- Planning and Implementing Automation with System Center 2012
- Planning and Implementing System Center 2012 Administration
- Planning and Implementing Self-Service Options in System Center 2012
- Planning and Implementing Updates in a Server Virtualization Infrastructure

### **Planning and Implementing a Server Monitoring Strategy**

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

### **Planning and Implementing High Availability for File Services and Applications**

- Planning and Implementing Storage Spaces
- Planning and Implementing a DFS
- Planning and Implementing NLB

### **Planning and Implementing a High Availability Infrastructure Using Failover Clustering**

- Planning an Infrastructure for Failover Clustering
- Implementing Failover Clustering
- Planning and Implementing Updates for Failover Clusters
- Integrating Failover Clustering with Server Virtualization
- Planning a Multisite Failover Cluster



## **Planning and Implementing a Business Continuity Strategy**

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

## **Planning and Implementing an Public Key Infrastructure**

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

## **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
- Planning and Implementing Web Application Proxy

## **Planning and Implementing Data Access for Users and Devices**

- Planning and Implementing DAC
- Planning Workplace Join
- Planning Work Folders

## **Planning and Implementing an Information Rights Management Infrastructure**

- AD RMS Overview
- 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