

# Course 6418C:

## Deploying Windows Server 2008

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### Course Details

#### Course Outline

#### Module 1: Installing and Configuring Microsoft Windows Server 2008 R2

This module describes the installation options and requirements for Windows Server 2008 R2.

#### Lessons

- Lesson 1: Planning Windows Server 2008 R2 Installations
- Lesson 2: Performing a Windows Server 2008 R2 Installation
- Lesson 3: Configuring Windows Server 2008 R2 Following Installation
- Lesson 4: Automating Server Activation Using Microsoft Volume Activation

#### Lab : Lab A: Planning to Install Windows Server 2008 R2

- Exercise: Using the Microsoft Assessment and Planning (MAP) Toolkit

#### Lab : Lab B: Installing Windows Server and Configuring Post-Installation Settings

- Exercise 1: Installing Windows Server 2008 R2
- Exercise 2: Configuring Server Core
- Exercise 3: Enabling Remote Management

#### Lab : Lab C: Managing Roles and Features

- Exercise 1: Adding the DNS and DHCP Server Roles
- Exercise 2: Managing Server Core

#### Lab : Lab D: Configuring Windows Server 2008 R2 Licensing

- Exercise: Planning Volume Activation

After completing this module, students will be able to:

- Plan Windows Server 2008 R2 installations.
- Perform a Windows Server 2008 R2 installation.
- Configure Windows Server 2008 R2 following installation.

- Automate server activation using Microsoft Volume Activation.

## Module 2: Implementing Deployment Technologies

This module describes the various deployment technologies available for use with Windows Server 2008 R2 and Windows 7.

### Lessons

- Lesson 1: Selecting a Deployment Strategy
- Lesson 2: Using the Windows Automated Installation Kit
- Lesson 3: Working with Images
- Lesson 4: Working with Unattended Answer Files

### Lab : Deploying Windows Server 2008 with an Answer File

- Exercise 1: Verifying the Configuration of WAIK
- Exercise 2: Creating an Answer File

After completing this module, students will be able to:

- Select a suitable deployment strategy.
- Describe the Windows Automated Installation Kit (WAIK).
- Describe the different types of images.
- Perform an unattended Windows Server 2008 R2 installation.

## Module 3: Using Windows Deployment Services

This module explains how to create and deploy custom system images by using Windows Deployment Services and images.

### Lessons

- Lesson 1: Overview of Windows Deployment Services (WDS)
- Lesson 2: Implementing Deployment with WD
- Lesson 3: Maintaining Images

### Lab : Using WDS to Deploy Windows Server

- Exercise 1: Installing and configuring WDS
- Exercise 2: Creating Operating System Images with WDS
- Exercise 3: Using an Unattended File with WDS
- Exercise 4: Configuring Custom Computer Naming for Large-Scale Deployments
- Exercise 5: Deploying Images with WDS

After completing this module, students will be able to:

- Describe the important features and functionality of WDS.
- Configure WDS in Windows Server 2008 R2.
- Perform deployments with WDS.

#### Module 4: Implementing the Microsoft Deployment Toolkit

This module explains how to deploy and create custom system images for common server configurations by using the Microsoft Deployment Toolkit.

##### Lessons

- Lesson 1: Introducing the Microsoft Deployment Toolkit
- Lesson 2: Using the Microsoft Deployment Toolkit
- Lesson 3: Maintaining Images with Microsoft Deployment Toolkit

##### Lab : Implementing the Microsoft Deployment Toolkit

- Exercise 1: Installing MDT 2010
- Exercise 2: Configuring MDT 2010
- Exercise 3: Creating an MDT 2010 Build
- Exercise 4: Creating Deployment Points
- Exercise 5: Performing a Lite-Touch Deployment

After completing this module, students will be able to:

- Describe the MDT.
- Use the MDT for low and zero-touch deployments.
- Use MDT to maintain image files.

#### Module 5: Migrating Active Directory Directory Service

This module explains how to upgrade and migrate Active Directory directory service from Windows 2000 Server or Windows Server 2003 to Windows Server 2008 R2.

##### Lessons

- Lesson 1: Overview of Upgrading Windows Server 2008 R2 Active Directory
- Lesson 2: Upgrading Domain Controllers to Windows Server 2008 R2

##### Lab : Migrating Active Directory

- Exercise 1: Preparing the Existing Forest
- Exercise 2: Deploying a Windows Server 2008 R2 DC
- Exercise 3: Removing Legacy Domain Controllers

- Exercise 4: Enabling New Active Directory Features

After completing this module, students will be able to:

- Describe the considerations and changes resulting from the Active Directory upgrade.
- Upgrade a legacy forest.

## Module 6: Migrating File, Print, and Web Services

This module provides guidance for upgrading and migrating file and print servers from Microsoft Windows 2000 Server or Windows Server 2003 to Windows Server 2008 R2. This module also includes guidance for upgrading and migrating application and Web servers from Windows Server 2003 to Windows Server 2008 R2.

### Lessons

- Lesson 1: Introducing the Windows Server Migration Tools
- Lesson 2: Migrating File and Print Servers
- Lesson 3: Migrating Web and Application Servers

### Lab : Lab A: Migrating Windows Server 2003 File and Print Services

- Exercise 1: Installing and Configuring the File and Print Server Roles
- Exercise 2: Enabling Windows Server Migration Tools
- Exercise 3: Migrating File and Print Services
- Exercise 4: Verifying the migration of file and print services

### Lab : Lab B: Lesson 3: Migrating Web and Application Servers

- Exercise 1: Installing the Required Roles on Windows Server 2008 R2
- Exercise 2: Installing the Migration Tools
- Exercise 3: Migrating the Application
- Exercise 4: Verifying the Migration

After completing this module, students will be able to:

- Describe the Windows Server Migration Tools.
- Upgrade file and print servers.
- Upgrade Web and application servers.

## Module 7: Deploying Branch Office and Remote Access Services

This module provides guidance for upgrading and migrating branch offices and Remote Access Services to Windows Server 2008 R2.

### Lessons

- Lesson 1: Implementing Read-Only Domain Controllers
- Lesson 2: Implementing Remote Infrastructure

Lab : Lab A: Deploying an RODC to a Branch Office

- Exercise 1: Enabling the Forest to Support RODC Deployment
- Exercise 2: Deploying the RODC Role on Server Core
- Exercise 3: Creating the Branch Office Site
- Exercise 4: Securing the RODC

Lab : Lab B: Implementing Branch Cache

- Exercise 1: Configuring BranchCache on a Server
- Exercise 2: Configuring Client-Side BranchCache Settings
- Exercise 3: Verify BranchCache Functionality

After completing this module, students will be able to:

- Implement read-only domain controllers (RODC) to support branch offices.
- Implement remote infrastructure features to support branch offices.

Module 8: Migrating Workloads to Microsoft Virtual Machines

This module provides guidance for migrating existing workloads to a virtual machine environment using the Hyper-V Server 2008 R2 Hyper-V role.

Lessons

- Lesson 1: Overview of Microsoft Virtualization
- Lesson 2: Installing Hyper-V
- Lesson 3: Migrating workloads to Hyper-V

Lab : Lab: Migrating Workloads to Microsoft Virtual Machines

- Exercise 1: Planning to Migrate Workloads
- Exercise 2: Deploying the Hyper-V Role
- Exercise 3: Creating Virtual Machines, Virtual Networks, and Virtual Hard Disks

After completing this module, students will be able to:

- Describe Microsoft server virtualization solutions.
  - Install and configure Hyper-V.
  - Plan the migration of workloads to Microsoft virtual machines.
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