

## Module 7 – Management

In Module 7 students will learn how to manage the server by implementing a patch management, optimizing server performance, and configuring event logs. They will also learn about using Server Manager to manage server configurations, enforcing auditing, delegating administrative authority, and troubleshooting GPOs.

### Section 7.1: WSUS

#### Summary

In this section students will learn about using Windows Server Update Services (WSUS) to allow a server on the intranet as a centralized point for updating software. Concepts covered include:

- Advantages of using WSUS
- Components that WSUS uses:
  - Microsoft Update
  - Windows Server Update Services (WSUS) server
  - Automatic Updates
- WSUS servers can be deployed as follows:
  - Single WSUS server
  - Multiple independent servers
  - Multiple synchronized servers
  - Disconnected WSUS server
- Implementing a WSUS solution
- Microsoft Update and WSUS support updating many Microsoft products
- Targeting

Students will learn how to:

- Install the WSUS role and configure a WSUS server to download updates from Microsoft Update.
- Synchronize and approve updates.
- Configure a child server as a replica of an upstream server.
- Create computer groups for targeting, and manually modify group membership.
- Configure targeting options on the WSUS server.
- Control client update behavior through Group Policy.

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- 301. Implement patch management strategy.

#### Video/Demo

 7.1.1 Patch Management




#### Time

5:03

 7.1.2 WSUS

12:07

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<input type="checkbox"/>	 7.1.4 Installing WSUS	7:47
<input type="checkbox"/>	 7.1.5 WSUS Management	6:11
<input type="checkbox"/>	 7.1.6 Configuring the WSUS Server	6:12
<input type="checkbox"/>	 7.1.9 Configuring WSUS Clients	<u>8:28</u>
	<i>Total</i>	<i>45:48</i>

### Lab/Activity

- Configure Server-side Targeting
- Configure a Downstream Server
- Configure Client-side Targeting

**Number of Exam Questions: 6 questions**

**Total Time: About 75 minutes**

## Section 7.2: Server Performance

### Summary

This section discusses server performance. Details include:

- Windows Reliability and Performance Monitor combines the functionality of the following components:
  - Resource Monitor
  - Reliability Monitor
  - Performance Monitor
  - Data Collector Sets
- Baseline
- The role of Windows System Resource Manager (WSRM)
- Features to configure resource allocation:
  - Process matching criteria
  - Resource allocation policies
  - Exclusion list
  - Scheduling
  - Conditional policy application
- WSRM built-in policies:
  - Equal\_Per\_Process
  - Equal\_Per\_User
  - Equal\_Per\_Session
  - Equal\_Per\_IISAppPool
  - Weighted Remote Sessions
- Facts about using WSRM




Students will learn how to:

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- View system real-time statistical displays.
- Add specific object counters to Performance Monitor for local or remote machines.
- Use the System Stability Chart to see historical system information.
- Add the Windows System Resource Manager feature.
- Configure resource allocation policies in WSRM.

### Windows Server 2008 Server Administrator

- 302. Monitor servers for performance evaluation and optimization.

Video/Demo	Time
<input type="checkbox"/>  7.2.1 Server Performance	7:41
<input type="checkbox"/>  7.2.2 Using Reliability and Performance Monitor	8:16
<input type="checkbox"/>  7.2.4 Using Windows System Resource Manager	<u>3:24</u>
<i>Total</i>	<i>19:21</i>

**Number of Exam Questions: 7 questions**

**Total Time: About 35 minutes**

## Section 7.3: Event Logs

### Summary

This section provides details of features available with event logs:

- Log Size
- Save Events
- File Events
- Custom Views
- Event Subscriptions
- Attach a Task
- Event Log Online Help



Students will learn how to:

- Create a custom view.
- Configure event log properties.
- Configure event subscriptions and view forwarded events.
- Attach a task to an event or log.

### Windows Server 2008 Server Administrator

- 302. Monitor servers for performance evaluation and optimization.

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Video/Demo	Time
<input type="checkbox"/>  7.3.1 Events	10:17
<input type="checkbox"/>  7.3.2 Using Events Logs and Subscriptions	<u>6:37</u>
<i>Total</i>	<i>16:54</i>

**Number of Exam Questions: 3 questions**

**Total Time: About 25 minutes**

### Section 7.4: Server Management

#### Summary

This section explores server management. Students will become familiar with:



- Remote management tools
  - Server Manager
  - Scripting Tools
  - Remote Desktop
  - Remote Desktop Services Gateway (RD Gateway)
  - Remote Server Administration Tools (RSAT)
  - MMC snap-ins
  - Windows Remote Shell

Students will learn how to:

- Use Server Manager to view and manage roles, role services, and features.
- Use Server Manager to view and manage the server configuration.
- Use ServermanagerCMD or Ocsetup to add server roles.

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- 201. Plan server management strategies.

Video/Demo	Time
<input type="checkbox"/>  7.4.1 Server Management	9:12
<input type="checkbox"/>  7.4.2 Using Server Manager	<u>5:10</u>

Total

14:22

Number of Exam Questions: 8 questions

Total Time: About 25 minutes

## Section 7.5: Auditing

### Summary

This section discusses the following details about auditing:

- Audit policies configurable through Group Policy:
  - Account logon
  - Account management
  - Directory service access
  - Logon
  - Object access
  - Policy change
  - Privilege use
  - Process tracking
  - System
- Configuring auditing
- Event IDs recorded when a change is made to an Active Directory object
  - 5136 - Modify
  - 5137 - Create
  - 5138 - Undelete
  - 5139 – Move
- Steps to design an audit policy
- Guidelines for designing auditing
- Advanced audit policy configuration
- Categories of the 53 new auditing settings:
  - Account Logon
  - Account Management
  - Detailed Tracking
  - DS Access
  - Logon/Logoff
  - Object Access
  - Policy Change
  - Privilege Use
  - System
  - Global Object Access Auditing

Students will learn how to:

- Use Group Policy to enforce auditing.



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- 303. Monitor and maintain security and policies.

### Video/Demo

### Time

<input type="checkbox"/>  7.5.1 Auditing	6:12
<input type="checkbox"/>  7.5.2 Configuring Active Directory Auditing	<u>3:14</u>
<i>Total</i>	<b>9:36</b>

### Lab/Activity

- Configure Auditing

**Number of Exam Questions: 5 questions**

**Total Time: About 30 minutes**

## Section 7.6: Administrative Delegation

### Summary

This section provides the following information about delegating administrative authority:

- The process of delegating administrative authority
- Management roles:
  - Active Directory object or property manager
  - DNS administrator
  - DHCP administrator
  - WSUS administrator
  - Certificate Services administrator
  - GPO administrator
  - DFS administrator
  - IIS administrator
- The role of built-in groups
- Built-in groups:
  - Account Operators
  - Administrators
  - Backup Operators
  - Event Log Readers
  - Network Configuration Operators
  - Performance Log Users
  - Performance Monitor Users
  - Print Operators
  - Server Operators
  - Users

Students will learn how to:

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- Use the Delegation of Control wizard to delegate administrative tasks for Active Directory objects.
- Edit the ACL of an Active Directory object to modify or remove delegated permissions.

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- 202. Plan for delegated administration.

#### Video/Demo

#### Time

<input type="checkbox"/>  7.6.1 Administrative Delegation	6:48
<input type="checkbox"/>  7.6.2 Delegating Control	<u>7:50</u>
<i>Total</i>	<i>14:38</i>

**Number of Exam Questions: 8 questions**

**Total Time: About 30 minutes**

## Section 7.7: GPO Troubleshooting

### Summary

This section explores troubleshooting GPO. Details include:

- Facts about troubleshooting GPO settings
- Tools to analyze Group Policy settings:
  - Group Policy Results
  - Group Policy Modeling
- Intervals when Windows refreshes effective Group Policy settings
- Manually refresh group policy settings using the **Gpupdate** command

Students will learn how to:



- Use the Group Policy Management Console to view and verify GPO settings.
- Run Group Policy Modeling and Group Policy Results to analyze GPO application.

### Windows Server 2008 Server Administrator

- 203. Plan and implement group policy strategy.

#### Video/Demo

#### Time

<input type="checkbox"/>  7.7.1 GPO Troubleshooting	5:31
<input type="checkbox"/>  7.7.2 Troubleshooting GPOs	<u>5:11</u>

*Total*

*10:42*

**Number of Exam Questions: 2 questions**

**Total Time: About 15 minutes**

## **Section 7.8: System Center**

### **Summary**

In this section students will learn about using System Center to simplify enterprise management of multiple computers and servers. Concepts covered include:

- System Center tools:
  - Configuration Manager
  - Data Protection Manager
  - Operations Manager
  - Virtual Machine Manager

### **Windows Server 2008 Server Administrator**

- 201. Plan server management strategies.

### **Video/Demo**

### **Time**

 7.8.1 Microsoft System Center Tools 2:42

**Number of Exam Questions: 4 questions**

**Total Time: About 10 minutes**