

Module 6 – Remote Access

Module 6 discusses the details of configuring remote access and network authentication. Topics include; configuring a Remote Access server to use Dial-up and VPN connections, configuring client connections, configuring a VPN using SSTP, and using CMAK to manage remote access.

Section 6.1: Remote Access Concepts

Summary

Students will learn concepts of the Remote Access process. Details include:

- Remote access connections
 - Point-to-point (PPP) for a dial-up connection
 - Virtual Private Network (VPN) use a tunneling protocol that wraps and protect packets in transit
 - VPN protocols supported by Windows Server 2008 and Vista
 - Point-to-Point Tunneling Protocol (PPTP)
 - Layer Two Tunneling Protocol (L2TP)
 - Secure Socket Tunneling Protocol (SSTP)
- Authentication protocols:
 - Password Authentication Protocol (PAP)
 - Challenge Handshake Authentication Protocol (CHAP)
 - Microsoft Challenge Handshake Authentication Protocol version 2 (MS-CHAP v2)
 - Extensible Authentication Protocol-Transport Layer Security (EAP-TLS)
- The role of remote access authorization
- Remote access is allowed or denied based on components of network policies:
 - Conditions
 - Constraints
 - Permissions
 - Settings

Configuring Server 2008 Network Infrastructure Objectives

- 301. Configure remote access.
 - Remote Access Policy
 - VPN protocols such as Secure Socket Tunneling Protocol (SSTP) and IKEv2
 - RAS authentication by using MS-CHAP, MS-CHAPv2, EAP

Log into LabSim and complete the tasks listed under Resources for each of the items listed below. As you complete them Checkoff the boxes:



Video/Demo

Time

 6.1.1 Remote Access Connections

3:35

CIST2413 Microsoft Network Infrastructure

<input type="checkbox"/>  6.1.3 Remote Access Authentication	4:39
<input type="checkbox"/>  6.1.5 Remote Access Authorization	<u>2:59</u>
<i>Total</i>	<i>11:13</i>

Number of Exam Questions: 5 questions

Total Time: About 25 minutes

Section 6.2: Dial-up and VPN

Summary

This section explores configuring a Remote Access server to use Dial-up and VPN connections. Details include:

- Configuration tasks on the server to allow a remote client to connect to a remote access server:
 - Enable remote access
 - Configure ports
 - Configure addressing
 - Configure network policies
- Comparison of configuration settings for dial-up and VPN client connections:
 - General tab
 - Options tab
 - Security tab
 - Networking tab
 - Sharing tab



Students will learn how to:

- Enable remote access on a Windows Server 2008 server.
- Configure VPN ports on a server.
- Control remote access by configuring network access policies.
- Create a client dial-up connection.
- Configure a client VPN connection.

Configuring Server 2008 Network Infrastructure Objectives

- 301. Configure remote access.
 - Dial-up
 - VPN reconnect

Log into LabSim and complete the tasks listed under Resources for each of the items listed below. As you complete them Checkoff the boxes:

Video/Demo	Time
<input type="checkbox"/>  6.2.1 Configuring a Remote Access Server	14:52
<input type="checkbox"/>  6.2.9 Creating Client Connections	<u>9:57</u>

CIST2413 Microsoft Network Infrastructure

Total

24:49

Lab/Activity

- Configure a Remote Access Server
- Reconfigure a Server for Remote Access
- Configure a VPN Server
- Configure VPN Ports
- Create a Network Access Policy 1
- Create a Network Access Policy 2

Number of Exam Questions:11 questions

Total Time:About 75 minutes

Section 6.3: SSTP

Summary

This section examines using Secure Socket Tunneling Protocol (SSTP) to establish a VPN connection. Details include:

- SSTP features
- SSTP client requirements
- SSTP server requirements

Students will learn how to:

- Request a server certificate for SSTP.
- Configure a remote access server to allow SSTP connections.
- Configure a VPN connection on a client computer to use SSTP.



Configuring Server 2008 Network Infrastructure Objectives

- 301. Configure remote access.
 - VPN protocols such as Secure Socket Tunneling protocol (SSTP) and IKEv2

Log into LabSim and complete the tasks listed under Resources for each of the items listed below. As you complete them Checkoff the boxes:

Video/Demo

Time

<input type="checkbox"/>  6.3.1 SSTP	1:56
<input type="checkbox"/>  6.3.2 Configuring SSTP	<u>5:56</u>
<i>Total</i>	<u>7:52</u>

Number of Exam Questions: 2 questions

Total Time: About 10 minutes

Section 6.4: CMAK

Summary

This section provides an overview of how the Connection Manager Administration Kit (CMAK) is used to manage remote access for larger deployments. Connection Manager is used to configure client remote access connections. Connection settings are stored in profiles for either VPN or dial-up connections. Details include:

- Components of the Connection Manager:
 - Connection Manager Administration Kit (CMAK)
 - Connection Point Services

Configuring Server 2008 Network Infrastructure Objectives

- 301. Configure remote access.
 - Connection Manager

Log into LabSim and complete the tasks listed under Resources for each of the items listed below. As you complete them Checkoff the boxes:

Video/Demo

Time

 6.4.1 Connection Manager Administration Kit (CMAK)

1:15

Number of Exam Questions: 2 questions

Total Time: About 5 minutes