Microsoft® Official Course

Module 4

Planning and Deploying Client Access Servers

Microsoft®

Module Overview

- Planning Client Access Server Deployment
- Configuring the Client Access Server Role
- Managing Client Access Services

Lesson 1: Planning Client Access Server Deployment

- What Is the Client Access Server Role?
- Hardware and Software Requirements for the Client Access Server
- Planning Client Access Server Deployment
- How Does a Client Access Server Work?
- How Does a Client Access Server Work with Multiple Sites?
- Planning Client Connectivity for Client Access Server

What Is the Client Access Server Role?

- Client Access server role handles client connections and server SMTP-based connections
- Clients do not communicate with Mailbox server directly
- Connections are routed through Client Access server
- Client Access server does not store any user data
- Client Access server provides services for messaging security through Front End Transport service

Hardware and Software Requirements for the Client Access Server

- General hardware and software requirements for Exchange Server 2013 apply to Client Access server
- Client Access server does not need dedicated storage
- Make sure that operating system volume is redundant
- Provide more than one Client Access server if possible
- Client Access server requires a fast network connection to Mailbox servers and global catalog servers

Planning Client Access Server Deployment

- Client Access server:
  - Must be deployed in each AD DS site that has Mailbox servers
  - Must have a fast connection to Mailbox servers and domain controllers
  - Needs to be accessible from the Internet using the client protocol in Internet-facing sites

- You deploy Client Access server:
  - On a single server with other Exchange Server roles
  - On a dedicated server to provide scalability
  - On multiple dedicated servers in NLB cluster

How Does a Client Access Server Work?
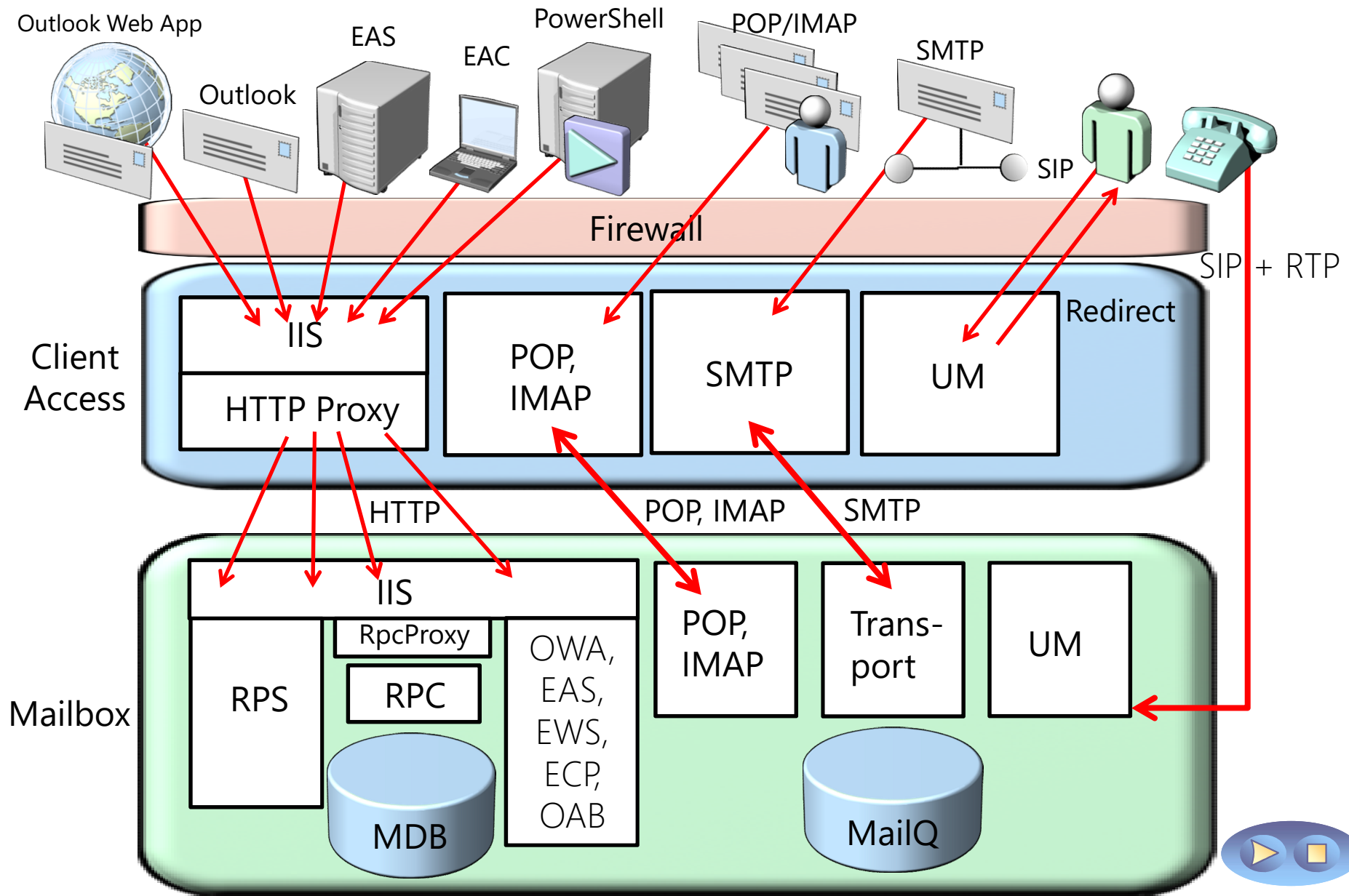
How Does a Client Access Server Work with Multiple Sites?

- In a pure Exchange 2013 environment, Client Access server will always proxy the client connection to the right Mailbox server

- In a mixed Exchange environment, Client Access server 2013 will proxy the connection to the Client Access Server 2007 or 2010 in the destination site

- POP3 and IMAP4 clients must connect directly to the Client Access server in their destination site

Planning Client Connectivity for Client Access Server

- Officially supported client platforms:
  - Outlook 2013
  - Outlook 2010 SP1 with April 2012 Cumulative Update
  - Outlook 2007 SP3 with July 2012 Cumulative Update
  - Entourage 2008 for Mac, Web Services Edition
  - Outlook for Mac 2011

- You can also connect from various POP3 and IMAP4 clients, and ActiveSync devices

Lesson 2: Configuring the Client Access Server Role

- Configuring Client Access Server Options
- Configuring Namespaces on a Client Access Server
- Configuring Certificates on the Client Access Server
- Demonstration: Creating a Certificate Request on a Client Access Server
- Securing a Client Access Server
- Configuring the Client Access Server for Internet Access
- Configuring POP3 and IMAP4 Client Access

Configuring Client Access Server Options

- On a Client Access server, you can configure following groups of options:
  - Virtual Directory settings
  - Certificates
  - Mobile device settings
  - Mail flow
  - Anti-malware protection
  - Outlook Anywhere options

Configuring Namespaces on a Client Access Server

- Multiple namespace support may be required when:
  - An organization uses multiple SMTP domains
  - An organization includes multiple AD DS domains or forests

- Recommendations:
  - Configure host names and Autodiscover DNS records for each SMTP domain
  - Include all domain names in the certificate subject alternative names
  - Consider configuring separate namespaces for each domain

Configuring Certificates on the Client Access Server

- When implementing Client Access certificates, consider:
  - Whether to use an internal or public CA – consider advantages and disadvantages of each approach
  - The client access protocols and services published to the Internet
  - The namespaces used by messaging clients to connect

Demonstration: Creating a Certificate Request on a Client Access Server

- In this demonstration, you will see how to make a certificate request on a Client Access server

Securing a Client Access Server

- To secure a Client Access server:
- Install server certificates, and ensure that SSL is required
- Configure authentication settings:
  - Integrated Windows authentication
  - Digest authentication
  - Basic authentication
  - Forms-based authentication
- Protect the server with an application layer firewall

Configuring the Client Access Server for Internet Access

- To enable Internet access to Client Access services:
  - Configure external URLs
  - Configure the external DNS names
  - Configure access to Client Access virtual directories
  - Implement SSL certificates with multiple subject alternative names
  - Plan for Client Access server access with multiple sites

Configuring POP3 and IMAP4 Client Access

Option	Description
Bindings	Configure local server addresses
Authentication	Configure authentication options
Connection settings	Configure server connection settings
Retrieval settings	Configure message formats and calendar retrieval settings
User access	Configure whether a user can use the protocol

Lesson 3: Managing Client Access Services

- Services Provided by the Client Access Server
- What Is Autodiscover?
- Configuring and Managing Autodiscover
- What Is the Availability Service?
- What Are Mailtips?
- Demonstration: Configuring MailTips

Services Provided by the Client Access Server

- Services provided by Client Access server role:
  - Autodiscover
  - Availability
  - MailTips
  - Offline Address Book download
  - Exchange Administration Center
  - Exchange Web Services
  - Outlook Anywhere

What Is Autodiscover?

- Autodiscover provides information that you can use to configure Outlook 2007 and newer client profiles

- Autodiscover process:
  1. Client Access Server registers the SCP
  2. Client uses LDAP query to AD DS to locate appropriate SCP
  3. Based on information in SCP, client locates the Autodiscover service on Client Access Server
  4. Client provides his SMTP address to the Autodiscover service and asks for appropriate configuration information
  5. The Client Access server responds by returning an XML file
  6. Outlook downloads the required configuration information from the Autodiscover service
  7. Outlook connects to the Exchange Server

Configuring and Managing Autodiscover

- To configure and manage Autodiscover settings you should:
    - Use the Exchange Management Shell
    - Configure site affinity for Exchange Servers in multiple sites
    - Configure DNS records for external clients
    - Use Outlook's Test E-mail AutoConfiguration feature to test
    - Use TestExchangeConnectivity website

What Is the Availability Service?

- The availability Service on Client Access server provides following:
  - Retrieve live free/busy information for mailboxes in local or other Exchange organization
  - View the working hours of attendees
  - Show meeting time suggestions
- Only Outlook 2007 or newer and Outlook Web App use the Availability service
- The Availability service is deployed by default on all Client Access servers
- The service does not need any configuration by default

What Are Mailtips?

- MailTips provide information about a message delivery before the message is sent
- Exchange Server 2013 provides:
    - Default MailTips
    - Custom MailTips

- The Client Access server provides the MailTips to the client

Demonstration: Configuring MailTips

- In this demonstration, you will see how to configure MailTips by using Exchange Administration Center

Lab: Deploying and Configuring a Client Access Server Role

- Exercise 1: Configuring Certificates for the Client Access Server

- Exercise 2: Configuring Client Access Services Options

- Exercise 3: Configuring Custom Mail Tips

Logon Information

20341A-LON-DC1

20341A-LON-CAS1

20341A-LON-MBX1

User name: Adatum\Administrator

Password: Pa$$w0rd

Estimated Time: 50 minutes

Lab Scenario

You are working as a messaging administrator in A. Datum Corporation. Your organization has decided to deploy Client Access servers so that the servers are accessible from the Internet for a variety of messaging clients. To ensure that the deployment is as secure as possible, you must secure the Client Access server, and also configure a certificate on the server that will support the messaging client connections. In addition, you have to verify options on the Client Access server, and configure Mailtips for a few users.

Lab Review

- Why is it recommended that a certificate be issued from an internal CA to Client Access server?
- Which service on the Client Access server supports certificate-based authentication?

Module Review and Takeaways

- Review Question
- Best Practices