

LABFEST OUTLINE

Module 1: Overview of Microsoft Exchange Server 2007 SP1

Introduction

This module introduces you to the most important new features of Microsoft® Exchange Server 2007. The clinic covers most of these features in more detail later. During the module, you are encouraged to think about the benefits to your organization of adopting Exchange Server 2007.

Objectives

After completing this module, you will be able to:

- Contrast the features of Exchange Server 2007 with earlier versions of the software.
- Compare the graphical user interface (GUI) method of installation to the command-line method of installation.
- Describe how to make the best use of the new features of the Exchange Server 2007 architecture.
- Describe how Exchange Server 2007 will benefit users.
- Summarize the most important new features of Exchange Server 2007.

Outline

Module Overview

Lesson: Introducing Exchange Server 2007

- Design Goals
- Hardware and Infrastructure Requirements
- De-Emphasized and Discontinued Features
- What Are Microsoft Exchange Hosted Services?

Lesson: Installing Exchange Server 2007

- Installing Exchange Server 2007 by Using the GUI
- Installing Exchange Server 2007 by Using the Command Line

Lesson: Introducing the Exchange Server 2007 Architecture

- Server Roles
- Active Directory Forest Topologies
- Store Enhancements
- Best Practices for Using the Exchange Server 2007 Architecture

Lesson: Introducing the Exchange Server 2007 User Experience

- Enterprise Content Management
- What Is Collaboration and the Information Workplace?



- What Is Anywhere Access?

Lesson: New Features in Exchange Server 2007 SP1

- New Exchange Management Console Features in Exchange 2007 SP1
- New High Availability Features in Exchange 2007 SP1
- New Client Access Features in Exchange 2007 SP1
- New Mailbox Features in Exchange 2007 SP1
- New Transport Features in Exchange 2007 SP1
- New Unified Messaging Features in Exchange 2007 SP1

Module Summary

Lab 1: Remote Client Access with Exchange Server 2007

Time estimated: 60 Minutes

Introduction

In this lab, you will explore several of the new Microsoft® Office Outlook® Web Access Calendar, Search, and Address Book features. You will also gain hands-on experience using a mobile device with Microsoft Exchange Server 2007.

Lab objectives

After completing this lab, you will be able to:

- Use the new Calendar, Search, and Address Book features of Outlook Web Access.
- Configure mobile e-mail for a Microsoft Windows Mobile®-powered device.

Module 2: Overview of Microsoft Exchange Server 2007 Administration

Introduction

This module describes new features of Microsoft® Exchange Server 2007 that have been designed to reduce the workload of administrators.

Objectives

After completing this module, you will be able to:

- Compare the Exchange Management Console to the Exchange Management Shell and evaluate which to use in a given situation.
- Evaluate how Exchange Server 2007 introduces efficiencies into the administration of recipients.
- List best practices for the administration of Exchange Server 2007.
- Compare Exchange Server 2007 client access servers with front-end servers in earlier versions of Exchange Server.
- Identify how the administration of Exchange Server 2007 requires less time than the administration of previous versions of Exchange Server.

Outline

Module Overview



Lesson: Introduction to Exchange Server 2007 Administration Tools

- The Exchange Management Console
- Exchange Management Shell and Windows Power Shell
- Best Practices for Using Administration Tools
- New Exchange Management Console Features in Exchange 2007 SP1

Lesson: Administering Recipients

- The Process of Creating and Moving Recipients

Lesson: Configuring Exchange Server 2007

- The Process of Configuring Server Roles
- The Process of Securing Servers
- Exchange Server 2007 Monitoring Tools
- Best Practices for Administering Exchange Server 2007

Lesson: Administering Client Access Servers

- The Process of Deploying Outlook Web Access
- ActiveSync Improvements

Module Summary

Lab 2: Using the Exchange Server 2007 Management Console and Shell

Time estimated: 60 minutes

Introduction

In this lab, you will use the SMBEX01 and Client01 virtual computers to gain hands-on experience using the Microsoft® Exchange Management Console and Exchange Management Shell.

Lab objectives

After completing this lab, you will be able to:

- Use the Exchange Management Console to perform common administrative tasks.
- Use the Exchange Management Shell prompt to view information about an Exchange server.
- Use the Exchange Management Shell to perform Exchange administrative tasks from the command line.
- Create reusable administrative scripts to automate routine administration tasks.

Module 3: Overview of Microsoft Exchange Server 2007 Architecture

Introduction

This module describes Microsoft® Exchange Server 2007 server roles and enables you to choose where to deploy a given server role. It also describes how Exchange Server can help you to comply with messaging regulations and how Exchange Server 2007 achieves high availability.

Objectives

After completing this module, you will be able to:



- Evaluate which Exchange server role is appropriate in a given scenario.
- Discuss how Exchange Server 2007 can improve your organization's security and compliance with corporate policies.
- Describe how you can achieve higher availability with Exchange Server 2007 than with earlier versions of Exchange Server.
- List the major improvements to the Exchange Server architecture and the advantages of each improvement.

Outline

Module Overview

Lesson: Introduction to Exchange Server Roles

- Transport, Routing, and Security
- New Transport Features in Exchange 2007 SP1
- Storage and Client Access
- New Client Access Features in Exchange 2007 SP1
- Unified Messaging
- Deployment Considerations

Lesson: Implementing Security, Compliance, and Archiving

- Policy Enforcement
- What Are Compliance and Messaging Records Management?
- Archiving
- Exchange Hosted Services

Lesson: High Availability

- What Is Local Continuous Replication?
- What Is Clustered Continuous Replication?
- What Is Standby Continuous Replication?
- Disaster Recovery

Module Summary

Lab 3a: Exchange Server 2007 Compliance and Retention

Time estimated: 60 minutes

Introduction

In this lab, you will use the SMBEX01 and CLIENT01 virtual computers to gain hands-on experience with compliance and retention features.

Lab objectives

After completing this lab, you will be able to:



- Create a new Messaging Records Management folder.
- Create Messaging Records Management content settings by using the Microsoft® Exchange Management Console.
- Create a Messaging Records Management mailbox policy and link it to the Managed Custom folder.
- Assign a Messaging Records Management mailbox policy to a user's Inbox.
- Enforce compliance by creating an ethical wall using Hub Transport Rules.
- Create a message classification.
- Create a Hub Transport Rule to act upon the message classification.
- Import message classifications into Microsoft Office Outlook® 2007.
- Work with message classifications in both Microsoft Outlook Web Access and Outlook 2007.

Optional Lab 3b: Managing and Administering Exchange Server 2007

Time estimated: 40 minutes

Introduction

In this lab, you will use the SMBEX01 virtual computer for Exercises 1 and 2 and you will use SMBEX01 and CLIENT01 for Exercise 3.

Lab objectives

After completing this lab, you will be able to:

- Use the Microsoft® Exchange Management Shell to balance mailboxes across multiple mailbox databases.
- Use the Exchange Server 2007 Toolbox, including the Best Practices Analyzer (ExBPA) and the Performance Troubleshooter (ExPA).
- Understand the AutoDiscover feature of Exchange Server 2007 with Outlook 2007.

Optional Lab 3c: Using Exchange Server 2007 Local Continuous Replication

Time estimated: 30 minutes

Introduction

In this lab, you will use the SMBEX01 virtual server to configure Local Continuous Replication (LCR).

Lab objectives

After completing this lab, you will be able to:

- Enable LCR on a Microsoft® Exchange Storage Group.
- Recover from a disk failure by using the copy taken by LCR.

Morning

Afternoon

Module 4: Overview of Unified Messaging in Exchange Server 2007

Introduction

This module describes Unified Messaging in Microsoft® Exchange Server 2007. You will learn how you can use Unified Messaging to give users unprecedented access to their messages, both in the office and at remote locations.



Objectives

After completing this lesson, you will be able to:

- List best practices for enabling users to access their messages.
- Summarize the features of Exchange Server 2007 Unified Messaging.
- Detail the features added to Unified Messaging in Service Pack 1 (SP1).

Outline

Module Overview

Lesson: Unified Messaging

- What Is Unified Messaging?
- The Process of Unified Messaging Management
- Best Practices for Administering Unified Messaging
- New Unified Messaging Features in Exchange 2007 SP1

Module Summary

Module 5: Overview of Microsoft Office Communications Server 2007

Time estimated: 60 Minutes

Introduction

This module introduces you to the most important new features of Office Communications Server 2007 (OCS), Office Communicator 2007 and Live Meeting 2007. It will help you identify the different server roles and topologies and will help you identify key deployment considerations for a new installation, migration from or co-existence with previous versions. Some components of OCS 2007 will be covered in more detail in later modules.

Objectives

After completing this module, you will be able to:

- Describe the various server roles and topologies (Standard versus Enterprise)
- Determine key planning considerations
- Describe the new features of Office Communications Server 2007
- Describe the Migration and/or Coexistence Options
- Describe the deployment path options
- Describe the steps for installing Office Communications Server 2007
- Describe Microsoft Office Communicator 2007
- Describe Microsoft Office Communicator 2007 Phone Edition
- Describe Microsoft Office Live Meeting 2007 Client
- Describe Microsoft Outlook Add-in.



Outline

Lesson: Introducing Office Communications Server 2007

- What is OCS 2007?
- OCS 2007 Standard Edition
- OCS 2007 Enterprise Edition
- Technical Overview of the New Features in OCS 2007
- Deploying OCS 2007 in a Multiple-Forest Environment

Lesson: Planning Your OCS 2007 Installation

- Planning Your OCS 2007 Installation: Overview
- Planning Your OCS 2007 Installation: Detailed Steps

Lesson: Deploying OCS 2007

- Migration vs. Coexistence
- Coexistence with Live Communication Server 2005 SP1
- Standard Edition Installation and Deployment

Lesson: Office Communications Server 2007 Client Applications

- Microsoft Office Communicator 2007
- Microsoft Office Communicator 2007 Phone Edition
- Microsoft Office Live Meeting 2007 Client
- Microsoft Outlook Add-in.

Lab 5: Office Communications Server 2007

After completing this lab, you will be able to:

- Enable and configure users for Office Communications Server 2007. (From old Lab 2)
- Use Office Communicator 2007 (From old Lab 2).
- Embedding presence information in web applications.

Module 6: Overview of the Enterprise Voice Features of Office Communications Server 2007

Time estimated: 60 Minutes

Introduction

Enterprise Voice is Microsoft's software-powered VoIP solution, a SIP-based implementation of IP telephony for the enterprise that does not rely on proprietary hardware investments. Enterprise Voice is a full-featured VoIP solution that includes connectivity with PSTN (Public Switched Telephone Network) gateways and interoperability with PBX (Private Branch Exchange) installations. Enterprise Voice, IM (instant messaging), group IM, enhanced presence, and audio-video conferencing together constitute Microsoft's Unified Communications solution.



Objectives

After completing this module, you will be able to:

- Review the architecture, components and call routing logic of Enterprise Voice (EV).
- Provide useful context for planning and deployment decisions.
- Describe the advantages of EV compared to hardware-based IP telephony options.
- Discuss the important pre-deployment considerations..
- Review the steps for deploying EV.
- Describe the important management tasks for administrating EV.

Outline

Lesson: Introducing Enterprise Voice

- What is Enterprise Voice?
- Enterprise Voice Technical Overview
- OCS 2007 Server Voice Components
- Voice Clients

Lesson: Planning for Enterprise Voice

- Step 1: Determining the Number and Distribution of Users
- Step 2: Selecting a Deployment Option
- Step 3: Plan for Media Gateways
- Step 4: Plan for Call Authorization and Routing
- Step 5: Plan for Exchange Server 2007 SP1 Unified Messaging
- Step 6: Plan to Move Users to Enterprise Voice

Lesson: Deploying and Managing Enterprise Voice

- Prerequisites
- Deploying Enterprise Voice
- Managing Enterprise Voice

Lab 6a: Building Voice Capabilities into Your Office Communications Server 2007 Deployment

After completing this lab, you will be able to:

- Install and activate a Mediation Server.
- Configure the Mediation Server.
- Configure certificates for the Mediation Server.



- List available supported gateways.

Lab 6b: Configuring the Voice Capabilities of Microsoft Office Communications Server 2007

After completing this lab, you will be able to:

- Define phone number normalization rules for outbound calls.
- Create phone usage records.
- Define a policy.
- Create and configure a location profile.
- Define outbound call routes.
- Configure users for enterprise voice.
- Configure Users for Voice.
- Make calls between Microsoft® Office Communicator 2007 soft phones.
- Make calls to an analog handset using Office Communicator 2007.
- Make calls from an analog handset to an Office Communicator 2007 soft phone.
- Configure Call Forwarding Settings.

Module 7: Advanced Features of Office Communications Server 2007

Time estimated: 60 Minutes

Introduction

This module goes into further detail about the different components and options available with Office Communications Server 2007. This includes integration with Exchange Server 2007 Unified Messaging, implementing compliance and usage analysis or call detail records (CDR), allowing external access (federation and public IM connectivity (PIC), planning for high availability and fault tolerance, Communicator Web Access (CWA), the new Address Book Server. You will also be introduced to the different Live Meeting offerings, server versus service. We will then go over the improved troubleshooting and reporting tools available with Office Communications Server 2007.

Objectives

After completing this module, you will be able to:

- Describe Exchange Server 2007 UM Integration
- Understand Compliance and CDR
- Plan for High Availability and Fault Tolerance
- Allow External Access (Federation and PIC)
- Deploy Communicator Web Access
- Understand the Address Book Server
- Describe the features of Live Meeting server and service



- Compare the advantages of offerings
- Describe the new troubleshooting and reporting tools of Office Communications Server 2007
- Introduce the Office Communications Server 2007 Resource Kit

Outline

Lesson: Expanding on the Features of Office Communications Server 2007

- Integration with Exchange Server 2007 Unified Messaging
- Archiving and CDR Server
- Planning for High Availability and Fault Tolerance
- Allowing External Access

Lesson: office Communications Server vs. Live Meeting Service

- Web Conferencing Requirements
- Choosing a Web Conferencing Solution

Lesson: Troubleshooting and Administering Office Communications Server 2007

- New Troubleshooting and Reporting Tools in Office Communications Server 2007
- Office Communications Server 2007 Resource Kit

Lab 7a: Configuring and Using Microsoft® Exchange Server 2007 Unified Messaging (Optional)

After completing this lab, you will be able to:

- Configure Unified Messaging and Microsoft® Office Communications Server 2007.
- Configure Personal Voice Mail Settings.
- Test Unified Messaging and Office Communications Server 2007 integration.
 - List available supported PBX systems.

Optional Lab 7b: Using the Management and Troubleshooting Tools in Office Communications Server 2007

After completing this lab, you will be able to:

- Use the built-in administration tools to troubleshoot Microsoft® Office Communications Server 2007.
- Install the Resource Kit tools.
- Use the Office Communications Server 2007 Logging Tool to review and analyze logs.
- Use the Validation wizard to validate and verify your environment.



Optional Lab 7c: Compliance and Archiving in Office Communications Server 2007

After completing this lab, you will be able to:

- Install and activate the archiving service.
- Associate the archiving service with the front-end server.
- Configure users for archiving.
- View archived messaging in the database.