

Virtual Labs



Microsoft®  
**Exchange Server** 2010

**Exchange Server 2010 (Beta) Setup and  
Deployment**

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# Exchange Server 2010 (Beta) Setup and Deployment

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## Objectives

After completing this lab, you will be better able to:

- Install Exchange Server 2010 using the User Interface.
- Understand basic server role configuration.

## Scenario

Northwind Traders, a small gourmet food distribution company, has made a decision to transition from Exchange Server 2007 to Exchange Server 2010. They wish to install Exchange Server 2010 on a single server. Northwind Traders must make sure that the server is adequately prepared and that their network environment meets the prerequisites for a new Exchange installation.

You currently have Exchange Server 2007 installed in your organization. In this lab, you will install your first Exchange Server 2010 server.

The following prerequisite software has been installed to prepare the Exchange server and organization for Exchange Server 2010. These prerequisites may change between now and the release of Exchange Server 2010. Before installing Exchange, verify your Exchange Server 2010 server and organization meets the current prerequisites.

## Estimated Time to Complete This Lab

90 Minutes

## Computers used in this Lab



**DC01**



**Ex2007**



**Ex2010**



**Client01**


The password for the Administrator account on all computers in this lab is: **pass@word1**.

# Exercise 1

## Installing Exchange Server 2010 using the User Interface

### Scenario

In this exercise, you will install a new Exchange Server 2010 server on a single server. You will use Exchange setup to check prerequisites and then install all Exchange roles.

| Tasks  | Detailed Steps  |
|--|---|
|  <p><b>1. Connect to EX2010 and install Exchange Server 2010.</b></p> | <p>a. Click <b>Start</b> and then click <b>Windows</b> Explorer.</p> <p>b. Navigate to the <b>D:\EX2010</b> directory and then double-click <b>Setup.exe</b>.</p> <p>c. On the Exchange Server 2010 Installation wizard, notice the five steps listed under Install:</p> <ul style="list-style-type: none"> <li>▪ <b>Step 1: Install .NET Framework 3.5-Installed</b></li> <li>▪ <b>Step 2: Install Windows Remote Management 2.0-Installed</b></li> <li>▪ <b>Step 3: Install Windows PowerShell v2-Installed</b></li> <li>▪ <b>Step 4: Install Microsoft Exchange</b></li> <li>▪ <b>Step 5: Get Critical Updates for Microsoft Exchange</b></li> </ul> <p>d. Notice that steps 1 through 3: Install .NET Framework 3.5, <b>Install Windows Remote Management 2.0</b>, and <b>Install Microsoft Windows PowerShell v2</b> links are grayed out. These prerequisite components have already been installed for you.</p> <p>e. On the Exchange Server 2010 Installation wizard, under <b>Install</b>, click <b>Step 4: Install Microsoft Exchange</b>.</p> <p><i>Note: Wait for files to be copied to the temp directory.</i></p> <p>f. In the Exchange Server 2010 Setup wizard, on the Introduction page, click <b>Next</b>.</p> <p>g. On the Language Files Location page, verify <b>Continue setup without language files</b> is selected and then click <b>Next</b>.</p> <p>h. On the Language Pack Confirmation page, click <b>Next</b>.</p> <p>i. On the License Agreement page, click <b>I accept the terms in the license agreement</b>, and then click <b>Next</b>.</p> <p>j. On the Error Reporting page, verify that <b>No</b> is selected, and then click <b>Next</b>.</p> <p>k. On the Installation Type page, select <b>Custom Exchange Server Installation</b> and then click <b>Next</b>.</p> <p>l. On the Server Role Selection page, select the <b>Mailbox Role, Client Access Role, Hub Transport Role and the Unified Messaging Role</b> checkboxes and then click <b>Next</b>.</p> <p>m. On the Customer Experience Improvement Program page, click <b>I don't want to join the program at this time</b> and then click <b>Next</b>.</p> <p><i>Note: Readiness Checks may take up to 4 minutes to complete. Review any warnings and report any errors to a proctor.</i></p> <p>n. On the Readiness Checks page, wait for the Prerequisites check to complete and then click <b>Install</b>.</p> <p><i>Note: This may take up to 25 minutes.</i></p> |

## Exchange Server 2010 (Beta) Setup and Deployment




| Tasks | Detailed Steps   |
|-------|--|
|       | <ul style="list-style-type: none"><li data-bbox="505 197 1357 260">o. Once all roles have been installed, verify the <b>Finalize installation using the Exchange Management Console</b> checkbox is selected and then click <b>Finish</b>.</li><li data-bbox="505 268 1305 296">p. Switch to the Exchange Server 2010 Installation wizard and click <b>Close</b>.</li><li data-bbox="505 304 976 331">q. In the <b>Confirm Exit</b> dialog box, click <b>Yes</b>.</li><li data-bbox="505 340 813 367">r. Close Windows Explorer.</li></ul> |


## Exercise 2

### Reviewing the Mailbox Server Role

#### Scenario

In this exercise you will learn to review new features in Management Console, the E14 databases locations, create a new mailbox on Exchange Server 2010 (beta), log onto Exchange Server 2010 (beta) mailbox using Outlook Web Access, send message to an Exchange Server 2007 mailbox, and review if Exchange Server 2007 mailbox received email using Outlook 14.

| Tasks   | Detailed Steps   |
|---|--|
| <p><b>Complete the following tasks on:</b></p>  <b>Ex2007</b> <p>1. On Ex2007, make Exchange Trusted Subsystem domain security group a member of the local Administrators group.</p> | <ol style="list-style-type: none"> <li>a. On <b>Ex2007</b>, click <b>Start</b> and then click <b>Server Manager</b>.</li> <li>b. In Server Manager, in the Navigation pane, expand <b>Configuration</b>, and then expand <b>Local Users and Groups</b> and then click <b>Groups</b>.</li> <li>c. In the Details pane, double-click <b>Administrators</b>.</li> <li>d. In the Administrators Properties dialog box, click <b>Add...</b></li> <li>e. On the Select Users, Computers, or Groups window, in the <b>Enter the object names to select</b> field, type <b>Exchange Trusted Subsystem</b> and then click <b>Check Names</b>.</li> <li>f. Click <b>OK</b> to close Select Users, Computers, or Groups.</li> <li>g. Click <b>OK</b> to close Administrator Properties.</li> <li>h. Close Server Manager.</li> </ol>  |
|  <b>Ex2010</b> <p>2. On Ex2010, view server configuration in Exchange Management Console.</p>  | <ol style="list-style-type: none"> <li>a. On <b>EX2010</b>, switch to the <b>Exchange Management Console</b>.</li> <li>b. In the Navigation pane, expand <b>Microsoft Exchange On-Premise</b> and then click <b>Server Configuration</b>.</li> </ol> <p><i>Note: If an error connecting to EX2007 message appears, click <b>OK</b> and continue. This is expected.</i></p> <ol style="list-style-type: none"> <li>c. If the Microsoft Exchange licensing dialog box appears, click <b>OK</b>.</li> <li>d. In the Details pane, under <b>Server Configuration</b>, right click <b>Ex2010</b> and then click <b>Properties</b>.</li> <li>e. What roles have been installed?</li> <li>f. Click <b>Cancel</b>.</li> <li>g. In the Actions pane, click <b>Manage Diagnostic Logging Properties</b>.</li> <li>h. Review available logging and then click <b>Cancel</b>.</li> <li>i. In the Actions pane, under <b>EX2010</b>, click <b>Manage Mailbox Role</b>.</li> <li>j. Has a database been created?</li> <li>k. Leave Exchange Management Console running.</li> </ol> |
|  <b>Ex2010</b> <p>3. On EX2010, use ADSIEdit to view location of databases.</p>  | <ol style="list-style-type: none"> <li>a. On <b>EX2010</b>, click <b>Start</b>, click <b>Run</b>, type <b>adsiedit.msc</b> and then pres <b>ENTER</b>.</li> <li>b. In the Navigation pane, right-click <b>ADSIEdit</b> and then click <b>Connect to</b>.</li> <li>c. On the Connection Settings page, under <b>Connection Point</b>, in the <b>Select a well known Naming Context</b> drop-down menu, select <b>Configuration</b> and then click <b>OK</b>.</li> <li>d. In the Navigation pane, expand <b>Configuration</b>.</li> <li>e. Navigate to <b>Configuration\CN=Configuration,DC=NWTraders,DC=com\CN=Services\CN=Micr</b></li> </ol>  |

| Tasks   | Detailed Steps  |
|---|---|
|   | <p><b>rosoft Exchange\CN=First Organization\CN=Administrative Groups\CN=Exchange Administrative Group\CN=Servers\CN=Ex2010\CN=Information Store</b> and notice there is no information in the Details pane.</p> <p><b>Note:</b> <i>There is no information store listed because information stores are no longer bound to a server. An information store can be active on any Exchange Server in the Organization.</i></p> <p>f. In ADSIEdit, navigate to <b>Configuration\CN=Configuration,DC=NWTraders,DC=com\CN=Services\CN=Microsoft Exchange\CN=First Organization\CN=Administrative Groups\CN=Exchange Administrative Group\CN=Servers\CN=Ex2007\CN=Information Store\CN=First Storage Group</b> and notice there is a database listed in the Details pane, (<b>CN=Mailbox Database</b>).</p> <p><b>Note:</b> <i>Previous versions of Exchange have information store databases associated directly with the server.</i></p> <p>g. In ADSIEdit, navigate to <b>Configuration\CN=Configuration,DC=NWTraders,DC=com\Services\CN=Microsoft Exchange\CN=First Organization\CN=Administrative Groups\CN=Exchange Administrative Group\CN=Databases</b> and notice there is a database listed in the Details pane.</p> <p><b>Note:</b> <i>The mailbox database for EX2010 is defined here.</i></p> <p>h. Close <b>ADSIEdit</b>.</p> <p>i. Switch to the <b>Exchange Management Console</b>.</p> <p>j. In the Navigation pane, expand <b>Organization Configuration</b> and then click <b>Mailbox</b>.</p> <p>k. In the results pane, click <b>Database Management</b>. Notice the Mailbox Database listed here.</p> |
|  <b>Ex2010</b><br><b>4. On EX2010, ensure that the new installation complies with best practices (Optional).</b> | <p>a. On <b>EX2010</b>, in the Exchange Management Console, in the Navigation pane, click <b>Toolbox</b>.</p> <p>b. In the Details pane, double-click <b>Best Practices Analyzer</b>.</p> <p>c. On the Update and Customer Feedback page, select <b>Do not check for updates on startup</b>, select <b>I don't want to join the program at this time</b>, and then at the bottom of the page click <b>Go to Welcome Screen</b>.</p> <p>d. On the Welcome page, click <b>Select Options for a new scan</b>.</p> <p>e. On the Connect to Active Directory page, click <b>Connect to the Active Directory server</b>.</p> <p>f. On the Start a New Best Practices Scan page, under <b>Specify the scope for this scan</b>, click <b>Unselect all</b>.</p> <p>g. Under <b>Specify the scope for this scan</b>, select <b>EX2010</b>.</p> <p>h. Verify <b>Health Check</b> is selected and then click <b>Start Scanning</b>.</p> <p>i. Wait for the Best Practices Analyzer tool to scan Ex2010 (Approximately 4 minutes).</p> <p>j. When the scan has completed, click <b>View a report of this Best Practices scan</b>.</p> <p>k. In View Best Practices Report, click the <b>All Issues</b> tab. Browse through the issues.</p> <p><b>Note:</b> <i>Did the scan report any critical issues?</i></p> <p>l. Click <b>Export Report</b>.</p> <p>m. In the Export Report window, in the <b>File Name</b> field, type <b>C:\NWTraders-Post-Install-report</b> and select a file type of <b>HTML</b>, and then click <b>Save</b>.</p>   |



| Tasks | Detailed Steps  |
|-------|---|
|       | <ul style="list-style-type: none"><li>n. Click the <b>Informational Items</b> tab and review the detailed information gathered.</li><li>o. Open Windows Explorer, navigate to C:\ and then double-click <b>NWTraders-Post-Install-report.html</b>.</li><li>p. View the report, and then close Internet Explorer and Windows Explorer.</li><li>q. Close the Microsoft Exchange Best Practice Analyzer.</li><li>r. Leave the Exchange Management Console running.</li></ul> |


## Exercise 3

# Creating a New User and Testing Coexistence

### Scenario

In this exercise you will create a new user named Adam Barr with a mailbox on the Exchange Server 2010 (beta) server. You will then login to Client01 as Holly Holt and connect to Adam’s Exchange Server 2010 (beta) mailbox using Outlook Web Access. Adam will send a test message to Holly’s mailbox on Exchange Server 2007. Finally, you will open Outlook 14 to access Holly’s Exchange Server 2007 mailbox and verify the message from Adam was received.

| Tasks  | Detailed Steps  |
|--|---|
| <p><b>Complete the following tasks on:</b></p>  <b>Ex2010</b> | <ol style="list-style-type: none"> <li>a. On <b>EX2010</b>, in the Exchange Management Console, click <b>Recipient Configuration</b>.</li> <li>b. In the Actions Pane, click <b>New Mailbox</b>.</li> <li>c. On the Introduction page, verify that <b>User Mailbox</b> is selected and then click <b>Next</b>.</li> <li>d. On the User Type page, select <b>New user</b> and then click <b>Next</b>.</li> <li>e. On the User Information page, in the <b>First Name</b> field, type <b>Adam</b></li> <li>f. In the <b>Last Name</b> field, type <b>Barr</b></li> <li>g. In the <b>User logon name</b> field, type <b>Adam</b></li> <li>h. In the <b>Password</b> and <b>Confirm Password</b> fields, type <b>pass@word1</b> and then click <b>Next</b>.</li> <li>i. On the Mailbox Settings page, select the <b>Specify the mailbox database rather than using a database automatically</b> checkbox and then click <b>Browse</b>.</li> <li>j. In the Select a Mailbox Database window, verify <b>EX2010</b> is selected, click <b>OK</b>, and then click <b>Next</b>.</li> <li>k. On the New Mailbox page, click <b>New</b>.</li> <li>l. On the Completion page, verify the mailbox was created successfully and then click <b>Finish</b>.</li> <li>m. Close the Exchange Management Console.</li> </ol> |
|  <b>Client01 (user: Holly)</b>                              | <ol style="list-style-type: none"> <li>a. Click <b>Start</b> and then click <b>Internet Explorer</b>.</li> <li>b. In the Address field, type <b>https://ex2010.nwtraders.com/owa</b></li> <li>c. If warned about the Web site’s security certificate, click <b>Continue to this website</b>.</li> <li>d. On the Log in page, in the Domain\user name field, type <b>nwtraders\adam</b> in the Password field, type <b>pass@word1</b> and then click <b>Log In</b>.</li> <li>e. On the next page, click <b>OK</b> to accept English as the default language.</li> <li>f. In Outlook Web Access, click <b>New</b> to create a new message.</li> <li>g. In the Untitled Message page, click <b>Options</b>.</li> <li>h. On the Message Options page, select the <b>Request a delivery receipt for this message</b> and <b>Request a read receipt for this message</b> check boxes and then click <b>OK</b>.</li> <li>i. In the <b>To...</b> field, type <b>Holly Holt</b> and then press <b>CTRL-K</b> to resolver her e-mail address. Holly’s mailbox is on the Exchange Server 2007 server.</li> <li>j. In the <b>Subject</b> field, type <b>We have Exchange 2010!</b> and then click <b>Send</b>.</li> <li>k. Verify you receive the Delivery Receipt. You may have to refresh.</li> </ol>               |

| Tasks   | Detailed Steps   |
|---|--|
|  <p><b>Client (user: Holly)</b></p> <p><b>3. On Client01 (user: Holly), open Holly's Exchange Server 2007 mailbox.</b></p> | <ul style="list-style-type: none"> <li>a. On Client01, click Start and then click Microsoft Office Outlook.</li> <li>b. In Outlook, verify <b>Holly's</b> received the test message from Exchange Server 2010 user Adam Barr.</li> <li>c. Right click Adam Barr's message and then click <b>Reply</b>.</li> <li>d. Click <b>Yes</b> to send the Read Receipt.</li> <li>e. Type a message and then click <b>Send</b>.</li> <li>f. Switch to Adam Barr's mailbox in Outlook Web Access and verify Adam received the read receipt and Holly's reply message.</li> </ul> <p><i><b>Note:</b> Due to virtualization, it is possible that the delivery of this test message will take a few minutes.</i></p> <ul style="list-style-type: none"> <li>g. Close Internet Explorer.</li> <li>h. Close Outlook.</li> </ul> |