Module 13: Configuring Enterprise Search

Lab A: Configuring Enterprise Search

Exercise 1: Configuring the Search Service Application

- ► Task 1: Create service accounts for the Search service
- On NYC-DC1, on the Start screen, type Active Directory Administrative Center, and then press Enter
- 2. In Active Directory Administrative Center, click Contoso (local).
- 3. In the Tasks pane, under Managed Service Accounts, click New, and then click User.
- 4. In the Create User dialog box, in the Full name text box, type SPSearch.
- 5. In the **User UPN logon** text box, type **spsearch**.
- 6. In the Password text box, type Pa\$\$w0rd.
- 7. In the Confirm password text box, type Pa\$\$w0rd.
- 8. Under Password options, select Other password options, select Password never expires, select User cannot change password, and then click OK.
- 9. In the center pane, right-click Managed Service Accounts, point to New, and then click User.
- 10. In the **Create User** dialog box, in the **Full name** text box, type **SPSearchAdmin**.
- 11. In the User UPN logon text box, type spsearchadmin.
- 12. In the **Password** text box, type **Pa\$\$w0rd**.
- 13. In the Confirm password text box, type Pa\$\$w0rd.
- 14. Under Password options, select Other password options, select Password never expires, select User cannot change password, and then click OK.
- 15. In the center pane, right-click Managed Service Accounts, point to New, and then click User.
- 16. In the Create User dialog box, in the Full name text box, type SPSearchQuery.
- 17. In the User UPN logon text box, type spsearchquery.
- 18. In the **Password** text box, type **Pa\$\$w0rd**.
- 19. In the Confirm password text box, type Pa\$\$w0rd.
- 20. Under Password options, select Other password options, select Password never expires, select User cannot change password, and then click OK.
- 21. In the center pane, right-click Managed Service Accounts, point to New, and then click User.
- 22. In the Create User dialog box, in the Full name text box, type SPContentAccess.
- 23. In the User UPN logon text box, type spcontentaccess.
- 24. In the **Password** text box, type **Pa\$\$w0rd**.
- 25. In the Confirm password text box, type Pa\$\$w0rd.
- Under Password options, select Other password options, select Password never expires, select User cannot change password, and then click OK.

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► Task 2: Register the service accounts as managed accounts

- 1. Switch to **NYC-SP1**.
- 2. On the Start screen, type SharePoint 2016 Management Shell, and then press Enter.
- 3. At the command prompt, type the following command, and then press Enter:

New-SPManagedAccount

- 4. In the Windows PowerShell credential req... dialog box, in the User name text box, type CONTOSO\SPSearch.
- 5. In the **Password** text box, type **Pa\$\$w0rd**, and then press Enter.
- 6. At the command prompt, type the following command, and then press Enter:

New-SPManagedAccount

- 7. In the Windows PowerShell credential req... dialog box, in the User name text box, type CONTOSO\SPSearchAdmin.
- 8. In the **Password** text box, type **Pa\$\$w0rd**, and then press Enter.
- 9. At the command prompt, type the following command, and then press Enter:

New-SPManagedAccount

- 10. In the **Windows PowerShell credential req...** dialog box, in the **User name** text box, type **CONTOSO\SPSearchQuery**.
- 11. In the **Password** text box, type **Pa\$\$w0rd**, and then press Enter.
- 12. Close the SharePoint 2016 Management Shell window.
- ► Task 3: Provision a Search Service Application instance
- 1. On the Start screen, type SharePoint 2016 Central Administration, and then press Enter.
- In the SharePoint 2016 Central Administration site, under Application Management, click Manage service applications.
- 3. On the ribbon, on the **New** menu, click **Search Service Application**.
- 4. In the **Create New Search Service Application** dialog box, in the **Service Application name** text box, type **Contoso Search**.
- 5. In the **Search Service Account** drop-down list, click **CONTOSO\SPSearch**.
- In the Application Pool for Search Admin Web Service section, ensure Create new application pool is selected.

- 7. In the **Application pool name** text box, type **SharePointSearchAdmin**.
- 8. Under Select a security account for this application pool, in the Configurable drop-down list, click CONTOSO\SPSearchAdmin.
- 9. In the Application Pool for Search Query and Site Settings Web Service section, ensure Create new application pool is selected.
- 10. In the Application pool name text box, type SharePointSearchQuery.
- 11. Under Select a security account for this application pool, in the Configurable drop-down list, click CONTOSO\SPSearchQuery.

- 12. Click **OK**.
- 13. Verify that the Create New Search Service Application dialog box displays the message "The Search Service Application Contoso Search was created successfully," and then click **OK**.
- 14. On the Manage Service Applications page, verify that the Contoso Search and the WSS_UsageApplication service application, and their corresponding service application proxies are now included in the list of service applications.
- 15. Verify that the **Search Administration Web Service for Contoso Search** service application is also included in the list of service applications. This service application does not have a corresponding proxy.
- ► Task 4: Configure the default content access account
- 1. On the Manage Service Applications page, click Contoso Search (you must click the name in the Search Service Application row, and not in the Search Service Application Proxy row).
- 2. On the Contoso Search: Search Administration page, in the Default content access account row, click CONTOSO\SPSearch.
- 3. In the **Default Content Access Account** dialog box, in the **Account** text box, type CONTOSO\SPContentAccess.
- 4. In the Password text box, type Pa\$\$w0rd. In the Confirm Password text box, type Pa\$\$w0rd, and then click **OK**.

Results: After completing this exercise, you should have created three service account in Active Directory Domain Services (AD DS) and registered them in SharePoint as managed accounts. Then, you should have provisioned and configured a new Search Service Application instance in SharePoint 2016.

Exercise 2: Configuring a file share content source

- ▶ Task 1: Create a new content source
- 1. On the Contoso Search: Search Administration page, on the Quick Launch navigation menu, click **Content Sources.**
- 2. On the Contoso Search: Manage Content Sources page, click New Content Source.
- 3. On the Contoso Search: Add Content Source page, in the Name text box, type IT File Share.
- 4. In the Content Source Type section, select File Shares.
- 5. In the **Start Addresses** section, in the text box, type **\\NYC-DB1\\ITShare**.
- 6. Under Crawl Settings, ensure Crawl the folder and all subfolders of each start address is selected
- 7. In the Crawl Schedules section, under Incremental Crawl, click Create schedule.
- 8. In the **Manage Schedules** dialog box, in the **Type** section, ensure **Daily** is selected.
- 9. In the **Settings** section, in the **Starting time** drop-down list, click **3:00 AM**, and then click **OK**.
- 10. Under Full Crawl, click Create schedule.
- 11. In the **Manage Schedules** dialog box, in the **Type** section, select **Weekly**.
- 12. In the **Settings** section, select **Saturday**.

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- 13. In the Starting time drop-down list, click 2:00 AM, and then click OK.
- 14. On the Contoso Search: Add Content Source page, click OK.
- 15. Close Internet Explorer.
- ► Task 2: Grant access to the audit logs
- 1. Switch to **NYC-DB1**.
- 2. On the **Start** screen, type **Edit Group Policy**, and then press Enter.
- In the Local Group Policy Editor window, under Computer Configuration, expand Windows Settings, expand Security Settings, expand Local Policies, and then click User Rights Assignment.
- 4. In the list of policies, double-click Manage auditing and security log.
- 5. In the Manage auditing and security log Properties dialog box, click Add User or Group.
- 6. Type CONTOSO\SPContentAccess, click Check Names, and then click OK.
- 7. On the Manage auditing and security log Properties dialog box, click OK.
- 8. Close Local Group Policy Editor.
- ► Task 3: Configure permissions on the file share
- 1. On the **Start** screen, type **File Explorer**, and then press Enter.
- 2. Browse to the Allfiles (E:) drive.
- 3. Right-click ITShare, and then click Properties.
- 4. In the ITShare Properties dialog box, on the Security tab, click Edit.
- 5. In the **Permissions for ITShare** dialog box, click **Add**.
- In the Enter the object names to select text box, type CONTOSO\SPContentAccess, click Check Names, and then click OK.
- 7. In the **Permissions for ITShare** dialog box, click **OK**.
- 8. In the ITShare Properties dialog box, click OK.
- ► Task 4: Run a full crawl
- 1. Switch to NYC-SP1.
- 2. On the **Start** screen, type **SharePoint 2016 Central Administration**, and then press Enter.
- 3. In the SharePoint 2016 Central Administration site, under **Application Management**, click **Manage** service applications.
- 4. On the **Manage Service Applications** page, click **Contoso Search** (you must click the name in the **Search Service Application** row, and not in the **Search Service Application Proxy** row).
- On the Contoso Search: Search Administration page, on the Quick Launch navigation menu, click Content Sources.
- 6. On the IT File Share drop-down menu, click Start Full Crawl.
- 7. In the **Message from webpage** dialog box, click **OK**.
 - Note: The crawl might take two to three minutes to complete. Click **Refresh** periodically until the **Status** column shows **Idle**.

- 8. After the crawl completes, on the Quick Launch navigation menu, click Crawl Log.
- 9. On the Contoso Search: Crawl Log Content Source page, verify that the crawl of the IT File Share content source completed without errors.

Results: After completing this exercise, you should have configured a content source for a network file share.

Exercise 3: Configuring a local SharePoint content source

- ► Task 1: Configure the content source
- 1. On the **Contoso Search: Crawl Log Content Source** page, on the Quick Launch navigation menu, click Content Sources.
- 2. On the Contoso Search: Manage Content Sources page, on the Local SharePoint sites drop-down menu, click Start Full Crawl.
- 3. In the Message from webpage dialog box, click **OK**.
 - Note: The crawl might take two to four minutes to complete. Click Refresh periodically until the Current crawl duration column is empty.
- 4. On the Contoso Search: Manage Content Sources page, click Local SharePoint sites.
- 5. On the Contoso Search: Edit Content Source page, under Crawl Schedules, select Enable **Continuous Crawls.**
- 6. Under Full Crawl, click Create schedule.
- 7. In the Manage Schedules dialog box, in the Type section, select Weekly.
- 8. In the **Settings** section, select **Sunday**.
- 9. In the Starting time drop-down list, click 2:00 AM, and then click OK.
- 10. On the Contoso Search: Edit Content Source page, click OK.
- 11. On the Contoso Search: Manage Content Sources page, verify that the Local SharePoint sites content source displays the status **Crawling Continuous**.
 - Note: The crawl might take two to three minutes to complete. Click Refresh periodically until the Current crawl duration column is empty.
- 12. After the crawl completes, on the Quick Launch navigation menu, click Crawl Log.
- 13. On the Contoso Search: Crawl Log Content Source page, verify that the crawl of the Local **SharePoint sites** content source completed without errors.
- 14. Close Internet Explorer.

Results: After completing this exercise, you should have configured the default content source for local SharePoint sites to use continuous crawl.

- 1. On the Start screen, type SharePoint 2016 Central Administration, and then press Enter.
- 2. In the SharePoint 2016 Central Administration site, under **Application Management**, click **Manage** web applications.
- 3. On the **Web Application Management** page, in the list of web applications, select **SharePoint – sharepoint.contoso.com80**.
- 4. On the ribbon, in the **Manage** group, click **Managed Paths**.
- 5. In the **Define Managed Paths** dialog box, in the **Path** text box, type **search**.
- 6. On the **Type** drop-down menu, click **Explicit inclusion**.
- 7. Click Add Path, and then click OK.

► Task 2: Create a Search Center site collection

- 1. On the Quick Launch navigation menu, click **Application Management**.
- 2. Under Site Collections, click Create site collections.
- 3. On the **Create Site Collection** page, under **Web Application**, ensure **http://sharepoint.contoso.com/** is selected.
- 4. In the **Title** text box, type **Search Center**.
- 5. In the Description text box, type Search results from across the Contoso enterprise.
- 6. Under **URL**, on the drop-down menu, click /search.
- 7. Under Select a template, on the Enterprise tab, select Enterprise Search Center.
- 8. Under **Primary Site Collection Administrator**, in the **User name** text box, type **CONTOSO\Administrator**, and then click **OK**.
- 9. On the **Top-Level Site Successfully Created** page, click **OK**.

► Task 3: Test search functionality

1. In the Internet Explorer address bar, type **http://sharepoint.contoso.com/search**, and then press Enter.

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- If you are prompted for credentials, sign in as CONTOSO\Administrator with the password Pa\$\$w0rd.
- 3. In the search box, type **How do I connect to a printer**, and then press Enter.
- 4. Verify that the search returns a link to the **FAQs.docx** file in the file share that you configured.
- 5. In the search box, type **Password policy**, and then press Enter.
- Verify that the search returns a link to the IT Policies and Procedures.docx file in the file share you configured.
- 7. In the search box, type **Fabrikam contacts**, and then press Enter.
- 8. Verify that the search returns a link to the **Customer Contacts** list on the local SharePoint site.
- 9. Close Internet Explorer.

- Task 4: Prepare for the next lab
- When you are finished with the lab, keep all of the virtual machines running. The virtual machines in their current state are required for the next lab.

Results: After completing this exercise, you should have created a search center and tested your content source configuration.

Lab B: Optimizing the search experience

Exercise 1: Configuring a result source and query rule

- ► Task 1: Configure a result source
- 1. On NYC-SP1, on the **Start** screen, click **Internet Explorer**.
- 2. In the Internet Explorer address bar, type http://sharepoint.contoso.com/search.
- 3. If you are prompted for credentials, sign in as **CONTOSO\Administrator** with the password **Pa\$\$w0rd**.
- 4. On the **Settings** menu, click **Site settings**.
- 5. On the Site Settings page, under Site Collection Administration, click Search Result Sources.
- 6. On the Manage Result Sources page, click New Result Source.
- 7. On the Add Result Source page, in the Name text box, type IT Team Fileshare.
- 8. In the Description text box, type Files from the IT team network share.
- 9. In the **Query Transform** text box, type (or build) the following query transform:

{searchTerms} ContentSource="IT File Share"

- 10. Click Save.
- ► Task 2: Configure a query rule
- 1. On the **Settings** menu, click **Site settings**.
- 2. On the Site Settings page, under Site Collection Administration, click Search Query Rules.
- On the Site Collection Administration: Manage Query Rules page, on the Select a Result Source drop-down menu, click IT Team Fileshare.
- 4. Click New Query Rule.
- On the Site Collection Administration: Add Query Rule page, in the Rule name text box, type IT Policies.
- 6. Under Query Conditions, on the drop-down menu, click Advanced Query Text Match.
- Under Query Conditions, select Query contains one of these phrases (semi-colon separated), and then in the text box, type policy;password;acceptable use;guidelines;requisitions;hardware;software.
- 8. Select the following options:
 - o Entire query matches exactly
 - Start of query matches, but not entire query
 - End of query matches, but not entire query
- 9. Under Actions, click Add Promoted Result.
- 10. In the Add Promoted Result dialog box, in the Title text box, type IT Policies and Procedures.

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- 11. In the URL text box, type file://172.16.1.20/ITShare/IT Policies and Procedures.docx.
- 12. In the Description text box, type This document provides definitive guidance on all IT policies and procedures at Contoso.

- 13. Click Save.
- 14. On the Site Collection Administration : Add Query Rule page, click Save.

Results: After completing this exercise, you should have created a result source and a query rule.

Exercise 2: Customizing the search experience

- ► Task 1: Create a new search results page
- 1. On the **Settings** menu, click **Add a page**.
- 2. In the **Add a page** dialog box, type **itresults**, and then click **Create**.
- 3. On the itresults page, on the Search Results Web Part, on the drop-down menu, click Edit Web Part.
- 4. On the **Search Results** configuration pane, click **Change query**.
- 5. In the Select a query drop-down list, click IT Team Fileshare (Site Collection), and then click OK.
- 6. On the **Search Results** configuration pane, click **Apply**.
- 7. On the ribbon, click **Check In**.
- 8. In the Check In dialog box, type Search Results Web Part query changed to display results from the IT Team Fileshare, and then click Continue.
- 9. On the **Not published yet** banner at the top of the page, click **Publish it**.
- ► Task 2: Add a new tab to the search results
- 1. On the **Settings** menu, click **Site settings**.
- 2. On the Site Settings page, under Search, click Search Settings.
- 3. On the Site Settings: Search Settings page, in the Configure Search Navigation section, click Add Link.
- 4. In the **Navigation Link** dialog box, in the **Title** text box, type **IT**.
- 5. In the **URL** text box, delete any existing text, and then type /search/pages/itresults.aspx.
- 6. In the Description text box, type Search results from the IT team, and then click OK.
- 7. On the **Search Settings** page, click **OK**.
- ► Task 3: Verify that searches behave as expected
- 1. At the top of the **Site Settings** page, click **Search Center**.
- 2. On the **Search** page, type **Request new hardware**, and then press Enter.
- 3. Under the search box, click IT.
- 4. Verify that the page displays the IT Policies and Procedures item as a promoted result.

Results: After completing this exercise, you should have created and configured a search results page and customized the search navigation settings.

- ► Task 1: Examine why a thesaurus is necessary
- 1. On the **Search Center** page, click on **Everything**, and then in the search box, type **Painkillers**, and then press Enter. Notice that the search returns no results.
- 2. In the search box, type Analgesics, and then press Enter. Notice that the search returns a datasheet.
- 3. In the search box, type **Emergency aid**, and then press Enter. Notice that the search returns no results
- 4. In the search box, type First aid, and then press Enter. Notice that the search returns a datasheet.
- 5. In the search box, type **Indigestion remedy**, and then press Enter. Notice that the search returns no results.
- 6. In the search box, type **Digestive health**, and then press Enter. Notice that the search returns a datasheet.
- 7. Close Internet Explorer.
- ► Task 2: Create a .csv file in Excel
- 1. On the desktop, click File Explorer.
- 2. In the File Explorer window, browse to **E:\Labfiles\Mod13\Starter**, right-click **ContosoThesaurus.csv**, point to **Open with**, and then click **Notepad**.
- 3. Immediately after the line that reads **Key,Synonym,Language**, on a new line, add the following text:

Painkiller, Analgesic

4. Add the following text, using a new line for each comma-separated pair of values:

Analgesic, Painkiller
First aid, Emergency care
First aid, Emergency treatment
First aid, Emergency assistance
Emergency care, First aid
Emergency treatment, First aid
Emergency assistance, First aid
Indigestion, digestive health
Digestive health, indigestion
Indigestive health
Digestive health, Indigestion remedy

5. Save the file and close Notepad.

► Task 3: Import the thesaurus

- 1. On the Start screen, type SharePoint 2016 Management Shell, and then press Enter.
- 2. At the command prompt, type the following command, and then press Enter:

\$search = Get-SPEnterpriseSearchServiceApplication

3. At the command prompt, type the following command, and then press Enter:

 $Import-SPEnterprise Search The saurus - Search Application \\ search - Filename "\NYC-SP1\Starter\Contoso The saurus.csv"$

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4. Close the SharePoint 2016Management Shell.

- ► Task 4: Test the thesaurus
- 1. On the **Start** screen, type **Internet Explorer**, and then press Enter.
- 2. In the Internet Explorer address bar, type sharepoint.contoso.com/search, and then press Enter.
- 3. In the Windows Security dialog box, in the User name text box type CONTOSO\Administrator, in the Password text box type Pa\$\$w0rd, and then click OK.
- 4. In the search box, type **Painkiller**, and then press Enter. Notice that the search returns a datasheet that matches the term **Analgesic**.
- 5. In the search box, type **Emergency assistance**, and then press Enter. Notice that the search returns a datasheet that matches the term First aid.
- 6. In the search box, type Indigestion remedy, and then press Enter. Notice that the search returns a datasheet that matches the term **Digestive health**.
- 7. Close Internet Explorer.

Results: After completing this exercise, you should have created, imported and tested a thesaurus.

Exercise 4: Configuring entity extractors and refiners

- ► Task 1: Add entries to custom entity extraction dictionary
- 1. On the desktop, click **File Explorer**.
- 2. In the File Explorer window, browse to **E:\Labfiles\Mod13\Starter**, right-click ContosoBrandEntities.csv, point to Open with, and then click Notepad.
- 3. Immediately after the line that reads **Key, Display form**, on a new line, add the following text:

Contoso Pharm, Contoso Pharmaceuticals

4. Add the following text, using a new line for each comma-separated pair of values:

Contoso Pharma, Contoso Pharmaceuticals ContosoPharm, Contoso Pharmaceuticals Contoso Consumer Pharmaceuticals, Contoso Pharmaceuticals Contoso R&D, Contoso Research Contoso R & D, Contoso Research Contoso R and D, Contoso Research Contoso Laboratories, Contoso Research

5. Save the file and close **Notepad**.

Configuring Enterprise Search Task 2: Deploy a custom entity extraction dictionary On the Start screen, type SharePoint 2016 Management Shell, and then press Enter. 2. At the command prompt, type the following command, and then press Enter: \$search = Get-SPEnterpriseSearchServiceApplication 3. At the command prompt, type the following command, and then press Enter: Import-SPEnterpriseSearchCustomExtractionDictionary -SearchApplication \$search -Filename \\NYC-SP1\Starter\ContosoBrandEntities.csv -DictionaryName Microsoft.UserDictionaries.EntityExtraction.Custom.Word.2

4. Close SharePoint 2016 Management Shell.

Task 3: Configure a managed property for custom entity extraction

- On the Start screen, type SharePoint 2016 Central Administration, and then press Enter.
- 2. Under Application Management, click Manage service applications.
- On the list of service applications, select Contoso Search, and then on the ribbon, click Manage.
- On the Quick Launch navigation menu, under Queries and Results, click Search Schema.
- 5. In the **Filter** text box, type **body**, and then press Enter.
- 6. In the list of managed properties, click **body**.
- 7. On the Contoso Search: Edit Managed Property body page, under Custom entity extraction, select Word Extraction - Custom2, and then click OK.
- On the Quick Launch navigation menu, under **Crawling**, click **Content Sources**.
- 9. On the Local SharePoint sites drop-down menu, click Start Full Crawl.
- 10. In the Message from webpage dialog box, click OK.
- 11. Click **Refresh** periodically until the **Status** column shows **Idle**.
 - Note: The search crawl might take a few minutes to complete.
- 12. Close SharePoint 2016 Central Administration.
- ► Task 4: Configure a refiner in the Web Part
- 1. On the **Start** screen, type **Internet Explorer**, and then press Enter.
- 2. In the Internet Explorer address bar, type sharepoint.contoso.com/search, and then press Enter.
- In the Windows Security dialog box, in the User name text box, type CONTOSO\Administrator, in the Password text box, type Pa\$\$w0rd, and then click OK.
- 4. In the search box, type any text, and then press Enter.
 - Note: It does not matter what search text you type; this step is intended solely to take you to the search results page.
- 5. On the results page, on the **Settings** menu, click **Edit page**.
- 6. On the **Refinement** web part drop-down menu, click **Edit Web Part**.

- 7. In the Properties for Search Refinement pane, click Choose Refiners.
- 8. In the Available refiners list box, click WordCustomRefiner2, and then click Add.
- 9. In the **Selected refiners** list box, click **WordCustomRefiner2**.
- 10. In the Configuration for: WordCustomRefiner2 pane, in the Display name text box, type Contoso **Division**, and then click **OK**.
- 11. In the Properties for Search Refinement pane, click Apply.
- 12. On the ribbon, click Check In.
- 13. In the Check In dialog box, type a comment, and then click Continue.
- 14. On the Recent draft not published banner, click Publish this draft.
- 15. In the search box, type **ContentType:Invoice**, and then press Enter.
- 16. Verify that the **Contoso Division** refiner appears on the left side of the page.
- 17. Under Contoso Division, click Contoso Research.
- 18. Verify that the search results page displays a filtered list, and then click the title of one of the search results.
- 19. In the Microsoft Office dialog box, when asked if you want to open the file, click Yes.
- 20. In the Windows Security dialog box, in the User name text box, type CONTOSO\Administrator, in the Password text box, type Pa\$\$w0rd, and then click OK.
- 21. When the document opens, verify that the invoice is addressed to one of the terms that you mapped to Contoso Research in the custom entity extraction dictionary.
- 22. Close Word.
- 23. On the search results page, under Contoso Division, click All, and then click Contoso Pharmaceuticals.
- 24. Verify that the search results page displays a filtered list, and then click the title of one of the search
- 25. In the Microsoft Office dialog box, when asked if you want to open the file, click Yes.
- 26. In the Windows Security dialog box, in the User name text box, type CONTOSO\Administrator, in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
- 27. When the document opens, verify that the invoice is addressed to one of the terms you mapped to **Contoso Pharmaceuticals** in the custom entity extraction dictionary.
- 28. Close Word, and then close Internet Explorer.

Results: After completing this exercise, you should have configured entity extractors and refiners.

Exercise 5: Managing query spelling correction

- ► Task 1: Test spelling correction limitation
- 1. On the **Start** screen, type **Internet Explorer**, and then press Enter.
- 2. In the Internet Explorer address bar, type **sharepoint.contoso.com/search**, and then press Enter.
- 3. In the Windows Security dialog box, in the User name text box, type CONTOSO\Administrator, in the Password text box, type Pa\$\$w0rd, and then click OK.
- 4. In the search box, type **Analgesacs** (a deliberate misspelling of *analgesics*), and then press Enter. Verify that the search returns no results.
- 5. In the search box, type **Acetamophen** (a deliberate misspelling of *acetaminophen*), and then press Enter. Verify that the search returns no results.
- 6. Close Internet Explorer.
- ► Task 2: Add terms to the spelling dictionary
- 1. On the Start screen, type SharePoint 2016 Central Administration, and then press Enter.
- 2. Under Application Management, click Manage service applications.
- 3. In the list of service applications, click **Contoso Search**, and then on the ribbon, click **Manage**.
- 4. On the Quick Launch navigation menu, under **Queries and Results**, click **Search Dictionaries**.
- 5. On the Term Store Management Tool page, in the navigation pane, expand Search Dictionaries.
- 6. On the Query Spelling Inclusions drop-down menu, click Create Term.
- 7. Type Analgesic, and then press Enter.
- 8. Type **Acetaminophen**, and then press Enter.
- 9. Click the site logo to return to the SharePoint 2016 Central Administration site.
- ► Task 3: Force SharePoint to update custom dictionaries immediately
- 1. On the SharePoint 2016 Central Administration site, click Monitoring.
- 2. Under Timer Jobs, click Review job definitions.
- 3. On the Job Definitions page, click Search Custom Dictionaries Update.
- 4. On the Edit Timer Job page, click Run Now.
- 5. Close Internet Explorer.
- ► Task 4: Test the spelling dictionary updates
- 1. On the **Start** screen, type **Internet Explorer**, and then press Enter.
- 2. In the Internet Explorer address bar, type sharepoint.contoso.com/search, and then press Enter.
- 3. In the Windows Security dialog box, in the User name text box, type CONTOSO\Administrator, in the Password text box, type Pa\$\$w0rd, and then click OK.
- 4. In the search box, type **Analgesacs** (a deliberate misspelling of *analgesics*), and then press Enter.
- 5. Verify that the search results page displays the message **Did you mean Analgesic**?
- 6. Click **Analgesic**, and verify that the search results page returns a datasheet.
- 7. In the search box, type **Acetamophen** (a deliberate misspelling of *acetaminophen*), and then press Enter.

- 8. Verify that the search results page displays the message **Did you mean Acetaminophen?**
- Click **Acetaminophen**, and verify that the search results page returns a datasheet.
- 10. Close Internet Explorer.

Results: After completing this exercise, you should know the limitations of spelling correction and should have updated and tested a custom spelling dictionary.

- Task 5: Prepare for the next module
- On the host computer, start **Hyper-V Manager**.
- 2. In the Virtual Machines list, right-click 20339-1A-NYC-SP1-F, and then click Revert.
- 3. In the **Revert Virtual Machine** dialog box, click **Revert**.
- 4. Repeat steps 2 and 3 for 20339-1A-NYC-DB1-F and 20339-1A-NYC-DC1-F.