# Module 12: Configuring user profiles

# Lab A: Configuring user profiles

# **Exercise 1: Configuring the User Profile Service Application**

- ► Task 1: Create a service account for the service application
- 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 Profile Service.
- 5. In the **User UPN logon** text box, type **ProfileService**, verify that the **User SamAccountName logon** text boxes have automatically populated with the corresponding domain and user name.
- 6. In the Password and Confirm password text boxes, type Pa\$\$w0rd.
- 7. Click Other password options, select Password never expires, and User cannot change password, and then click OK.
- ► Task 2: Grant the SPFarm user account the Replicating Directory Changes permission
- 1. Right-click Contoso (local), and then click Properties.
- 2. In the Contoso dialog box, in the Extensions panel, on the Security tab, click Add.
- 3. In the Select Users, Computers, Service Accounts, or Groups dialog box, in the Enter the object names to select text box, type SPFarm, and then click OK.
- 4. Under **Permissions for SPFarm**, locate the **Replicating Directory Changes** permission, in that row, select **Allow**, and then click **OK**.
- 5. Close the Active Directory Administrative Center.
- ► Task 3: Register the service account as a SharePoint managed account
- Switch to NYC-SP1, and on the Start screen, type SharePoint 2016 Central Administration, and then press Enter.
- 2. In the SharePoint 2016 Central Administration site, click **Security**, and then under **General Security**, click **Configure managed accounts**.
- 3. On the Managed Accounts page, click Register Managed Account.
- 4. On the **Register Managed Account** page, in the **User name** text box, type **CONTOSO\ProfileService**, in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
- ► Task 4: Start the User Profile Service instance
- 1. Click System Settings.
- 2. On the System Settings page, under Servers, click Manage services on server.
- 3. Locate the User Profile Service service, and then in that row, click Start.
- Check the status of the **User Profile Service** service, refresh the page, until the status changes to **Started**.

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- ► Task 5: Create a new User Profile Service Application instance
- 1. Click Application Management.
- On the Application Management page, under Service Applications, click Manage service applications.
- 3. On the Manage Service Applications page, on the ribbon, click New, and then click User Profile Service Application.
- In the Create New User Profile Service Application dialog box, in the Name text box, type Contoso UPSA.
- 5. In the Application pool name text box, type ContosoUPSAAppPool.
- In the Select a security account for this application pool list, select CONTOSO\ProfileService, and then click Create.
- 7. In the Create New User Profile Service Application dialog box, click OK.
- 8. Refresh the **Manage Service Applications** page, and then verify that the list of service applications includes the **Contoso UPSA** service application and **Contoso UPSA** service application proxy.

**Results**: After completing this exercise, you should have created a new instance of the User Profile Service Application.

# Exercise 2: Configuring directory import and synchronization

- ▶ Task 1: Configure the User Profile Service to use SharePoint Active Directory import
- 1. On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, and not in the User Profile Service Application Proxy row).
- If the Sorry, something went wrong page appears, click Back to Manage Service Applications (the Internet Explorer Back button), and repeat step 1.
  - Note: If this occurs more than once, wait for five minutes and then retry.
- 3. On the **Manage Profile Service: Contoso UPSA** page, under **Synchronization**, click **Configure Synchronization Settings**.
- On the Configure Synchronization Settings page, under Synchronization Options, make sure Use SharePoint Active Directory Import is selected, and then click OK.
- ► Task 2: Create a user profile connection to AD DS
- On the Manage Profile Service: Contoso UPSA page, under Synchronization, click Configure Synchronization Connections.
- 2. On the Synchronization Connections page, click Create New Connection.
- 3. On the Add new synchronization connection page, in the Connection Name text box, type Contoso Domain.
- 4. Under Connection Settings, in the Fully Qualified Domain Name text box, type contoso.com.
- 5. In the Account name text box, type CONTOSO\SPFarm.

- 6. In the Password and Confirm password text boxes, type Pa\$\$w0rd.
- 7. Under Containers, click Populate Containers, wait for the containers to load before you proceed to the next step.
- 8. Click **Select All**, and then, when the containers are selected, click **OK**.
- ► Task 3: Confirm that the synchronization timer job is enabled
- 1. Click Application Management.
- 2. On the Application Management page, under Service Applications, click Manage service applications.
- 3. On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, and not in the User Profile Service Application Proxy row).
- 4. On the Manage Profile Service: Contoso UPSA page, under Synchronization, click Configure Synchronization Timer Job.
- 5. On the **Edit Timer Job** page, if the timer job is disabled, click **Enable**, otherwise click **OK**.
- ► Task 4: Start a full profile synchronization
- 1. Click Application Management.
- 2. On the Application Management page, under Service Applications, click Manage service applications.
- On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, not the User Profile Service Application Proxy row).
- 4. On the Manage Profile Service: Contoso UPSA page, under Synchronization, click Start Profile Synchronization.
- 5. On the Start Profile Synchronization page, click Start Full Synchronization, and then click OK.
- 6. On the Manage Profile Service: Contoso UPSA page, under Profile Synchronization Settings, verify that the Profile Synchronization Status is set to Synchronizing. Periodically refresh the page until the status changes from Idle to Synchronizing.

Note: Depending on the speed of your host computer, you might not see the Synchronizing status; if the status is Idle, and the number of profiles is more than zero, you can continue.

- ► Task 5: Verify that user profiles are imported
- 1. On the Manage Profile Service: Contoso UPSA page, under People, click Manage User Profiles.
- 2. On the Manage User Profiles page, in the Find profiles text box, type Wilson, and then click Find.
- 3. Under Account name, click CONTOSO\Wilson, and then click Edit My Profile.
- 4. On the Edit User Profile page, note that the Work email field is not populated.

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▶ Task 6: Change the user profile property mapping for Work email

- 1. Click Application Management.
- 2. On the Application Management page, under Service Applications, click Manage service applications.
- On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, and not in the User Profile Service Application Proxy row).
- On the Manage Profile Service: Contoso UPSA page, under People, click Manage User Properties.
- 5. On the Manage User Properties page, click the Work email property, and then click Edit.
- On the Edit User Profile Property page, under Add New Mapping, in the Attribute text box, type mail, and then click Add.
- 7. On the Edit User Profile Property page, click OK.
- 8. Close Internet Explorer.
- ► Task 7: Change attributes in AD DS
- Switch to NYC-DC1, and on the Start screen, type Active Directory Administrative Center, and then press Enter.
- 2. In Active Directory Administrative Center, click Contoso (local).
- 3. Double click the **IT** container, and then select user object **Wilson Chew**.
- 4. In the **Tasks** pane, click **Properties**.
- 5. In the **Properties** dialog box, in the **E-mail** text box under **Organization**, type wilson@contoso.com, and then click **OK**.
- 6. Close the Active Directory Administrative Center.
- ► Task 8: Run an incremental profile synchronization
- 1. Switch to **NYC-SP1**, and on the **Start** screen, type **Central Administration**, and then press Enter.
- 2. In Central Administration, click **Application Management**.
- 3. On the **Application Management** page, under **Service Applications**, click **Manage service applications**.
- 4. On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, and not in the User Profile Service Application Proxy row).

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- On the Manage Profile Service: Contoso UPSA page, under Synchronization, click Start Profile Synchronization.
- 6. On the **Start Profile Synchronization** page, click **Start Incremental Synchronization**, and then click **OK**.
- 7. On the Manage Profile Service: Contoso UPSA page, under Profile Synchronization Settings, verify that the Profile Synchronization Status is set to Synchronizing. You might need to refresh the page. Periodically refresh the page and do not continue until the status returns to Idle. Depending on the speed of your host computer, you might not see the Synchronizing status; if the status is Idle, you can continue.

- Task 9: Verify the changes in the user profile
- On the Manage Profile Service: Contoso UPSA page, under People, click Manage User Profiles.
- 2. On the Manage User Profiles page, in the Find profiles text box, type Wilson, and then click Find.
- 3. Under Account name, click CONTOSO\Wilson, and then click Edit My Profile.
- 4. On the Edit User Profile page, note that the Work email field is populated with the previous change.
- 5. Close Internet Explorer.
- ► Task 10: Prepare for the next lab
- When you complete the lab, keep all 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 configured and validated a SharePoint Active Directory import.

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# Lab B: Configuring My Sites and audiences

# **Exercise 1: Configuring My Sites**

- ► Task 1: Configure a DNS record for the My Site web application
- 1. Switch to **NYC-DC1**, and on the **Start** screen, type **DNS**, and then press Enter.
- In DNS Manager, expand NYC-DC1 and then expand Forward Lookup Zones, and then click Contoso.com.
- 3. Right-click Contoso.com, and then click New Host (A or AAAA).
- 4. In the **New Host** dialog box, in the **Name** box, type **mysites**, in the **IP address** box, type **172.16.1.21**, and then click **Add Host**.
- 5. In the **DNS** dialog box, click **OK**.
- 6. In the **New Host** dialog box, click **Done**.
- 7. Close DNS Manager.
- ► Task 2: Create an application pool service account for the My Sites web application
- 1. 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.
- In the Create User dialog box, in the Full name box, type My Sites Web Application Service
  Account.
- 5. In the **User UPN logon** box, type **SPMySitesWebApp**, verify that the **User SamAccountName logon** boxes have automatically populated with the corresponding user name.
- 6. In the Password and Confirm password boxes, type Pa\$\$w0rd.
- 7. Click Other password options, select the Password never expires, and User cannot change password check boxes, and then click OK.
- 8. Close the Active Directory Administrative Center.
- ► Task 3: Register the service account as a SharePoint managed account
- 1. Switch to **NYC-SP1**, and on the **Start** screen, type **SharePoint 2016 Central Administration**, and then press Enter.
- 2. In SharePoint 2016 Central Administration, click Security.
- 3. On the Security page, under General Security, click Configure managed accounts.
- 4. On the Managed Accounts page, click Register Managed Account.
- On the Register Managed Account page, in the User name box, type
   CONTOSO\SPMySitesWebApp, in the Password box, type Pa\$\$w0rd, and then click OK.
- ► Task 4: Create and configure a new web application to host My Sites
- 1. Click Application Management.
- 2. On the Application Management page, under Web Applications, click Manage web applications
- 3. On the Web Applications Management page, on the ribbon, click New.

- 4. In the Create New Web Application dialog box, under IIS Web Site, in the Name box, type MySites - 80.
- 5. In the **Port** box, type **80**.
- 6. In the **Host Header** box, type **mysites.contoso.com**.
- 7. Under Application Pool, in the Application pool name box, type MySitesWebApp.
- 8. In the Select a security account for this application pool list, select CONTOSO\SPMySitesWebApp, and then click OK.
- 9. In the **Application Created** dialog box, click **OK**.
- ► Task 5: Create a managed path for My Sites
- 1. On the Web Application Management page, click MySites 80, and then on the ribbon, click Managed Paths.
- 2. In the Define Managed Paths dialog box, under Add a New Path, in the Path text box, type personal.
- 3. In the Type list, ensure Wildcard inclusion is selected, click Add Path, and then click OK.
- ► Task 6: Create a My Site host site collection
- 1. Click Application Management.
- 2. On the Application Management page, under Site Collections, click Create site collections.
- 3. On the **Create Site Collection** page, under **Web Application**, verify that http://mysites.contoso.com is selected. If it is not currently selected, click the current web application, click Change Web Application, and then click MySites - 80.
- 4. Under **Title and Description**, in the **Title** text box, type **MySite Host**.
- 5. Under **Web Site Address**, in the **URL** list, click **/**.
- 6. Under Template Selection, on the Enterprise tab, click My Site Host.
- 7. Under **Primary Site Collection Administrator**, in the **User name** text box, type **CONTOSO\Administrator**, and then click **OK**.
- 8. On the **Top-Level Site Successfully Created** page, click **OK**.
- ► Task 7: Enable Self-Service Site Creation for the My Site host web application
- 1. On the Application Management page, under Web Applications, click Manage web applications.
- 2. On the Web Applications Management page, click MySites 80, and then on the ribbon, click **Self-Service Site Creation**.
- 3. In the Self-Service Site Creation Management dialog box, under Site Collections, click On, and then click OK.
- ► Task 8: Configure My Site settings for the User Profile Service Application instance
- 1. Click Application Management.
- 2. On the Application Management page, under Service Applications, click Manage service applications.
- 3. On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, but not in the User Profile Service Application Proxy row).

- 4. On the Manage Profile Service: Contoso UPSA page, under My Site Settings, click Setup My Sites.
- 5. On the My Site Settings page, in the My Site Host Location text box, type http://mysites.contoso.com, and then click OK.
- ▶ Task 9: Confirm that the Contoso UPSA Activity Feed Job is enabled
- 1. Click Monitoring.
- 2. On the Monitoring page, under Timer Jobs, click Review job definitions.
- 3. On the Job Definitions page, click Contoso UPSA Activity Feed Job.
- 4. On the **Edit Timer Job** page, if the timer job is disabled, click **Enable** (if the timer job is already enabled, the page will contain a **Disable** button instead of the **Enable** button. If the job is already enabled, click **OK**).
- ► Task 10: Test My Site creation by using a non-administrative user account
- 1. Switch to NYC-DB1, and on the Start screen, click Internet Explorer.
- 2. In Internet Explorer, go to http://sharepoint.contoso.com.
- In the Windows Security dialog box, in the User name text box, type wilson@contoso.com, in the Password text box, type Pa\$\$w0rd, and then click OK.
- 4. On the **SharePoint** site, click **Wilson Chew**, then click **About Me**.
- 5. In the Windows Security dialog box, in the User name text box, type wilson@contoso.com, in the Password box, type Pa\$\$w0rd, and then click OK.
  - Note: Setting up a user's My Site can take a few minutes. When the task is complete, the We're almost ready! message disappears. If the message does not disappear after 5 minutes, click Newsfeed, wait for the newsfeed to set up, and then click About me. This finishes the user's My Site setup.
- 6. Close Internet Explorer.

**Results**: After completing this exercise, you should have configured My Sites and tested My Site creation for non-administrative users.

# **Exercise 2: Configuring audiences**

- ► Task 1: Create and configure a new audience
- 1. Switch to NYC-SP1, and on the **Start** screen, type **SharePoint 2016 Central Administration**, and then press Enter.
- 2. Click Application Management.
- On the Application Management page, under Service Applications, click Manage service applications.
- On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, but not in the User Profile Service Application Proxy row).

- 5. On the Manage Profile Service: Contoso UPSA page, under People, click Manage Audiences.
- 6. On the View Audiences page, click New Audience.
- 7. On the Create Audience page, in the Name text box, type Sales Team, in the Owner text box, type CONTOSO\Administrator, and then click OK.
- 8. On the Add Audience Rule: Sales Team page, in the Operator list, click Member Of, in the Value text box, type Sales, and then click OK.
- 9. On the View Audience Properties: Sales Team page, click Compile audience.
- 10. Verify that under **Audience Properties**, the **Last compilation** value is updated.
- 11. On the View Audience Properties: Sales Team page, click View membership.
- 12. On the View Audience Membership: Sales Team page, verify the Account Name CONTOSO\Ida is listed.
- ► Task 2: Create a compilation schedule
- 1. Click Application Management.
- 2. On the Application Management page, under Service Applications, click Manage service applications.
- 3. On the Manage Service Applications page, click Contoso UPSA (you must click the name in the User Profile Service Application row, and not in the User Profile Service Application Proxy row).
- 4. On the Manage Profile Service: Contoso UPSA page, under People, click Schedule Audience Compilation.
- 5. On the **Specify Compilation Schedule** page, ensure **Enable scheduling** is selected.
- 6. In the **Start at** list, ensure **1:00 AM** is selected, click **Every day**, and then click **OK**.
- 7. Close Internet Explorer.
- ► Task 3: Enable audience targeting for an announcements list
- 1. On the **Start** screen, click **Internet Explorer**.
- 2. In Internet Explorer, go to http://sharepoint.contoso.com.
- 3. In the Windows Security dialog box, in the User name box, type administrator, in the Password box, type Pa\$\$w0rd, and then click OK.
- 4. On the http://sharepoint.contoso.com site, in the current navigation, click Announcements.
- 5. On the **Announcements** page, on the ribbon, on the **LIST** tab, click **List Settings**.
- 6. On the List Settings page, click Audience targeting settings.
- 7. On the Modify List Audience Targeting Settings page, select Enable audience targeting, and then click **OK**.
- ► Task 4: Create an announcement that targets the sales team audience
- 1. On the http://sharepoint.contoso.com site, in current navigation, click Announcements.
- 2. On the Announcements page, click new announcement.
- 3. On the **New Item** page, in the **Title** text box, type **Sales Announcement**.
- 4. In the **Body** text box, type **This is a sales announcement**.
- 5. In the **Target Audiences** text box, type **Sales Team**, and then click **Save**.

### ► Task 5: Test the audiences

- 1. Close all Internet Explorer windows.
- 2. On the **Start** screen, click **Internet Explorer**.
- 3. In Internet Explorer, go to http://sharepoint.contoso.com.
- 4. In the **Windows Security** dialog box, in the **User name** text box, type **ida@contoso.com**, in the **Password** text box, type **Pa\$\$w0rd**, and then click **OK**.
- 5. On the SharePoint site, verify that the **Sales Announcement** appears on the home page.

**Results**: After completing this exercise, you should have created audiences and configured audience targeting.

## ► Task 6: Prepare for the next module

When you are finished with the lab, revert all virtual machines to their initial state:

- 1. On the host computer, start **Hyper-V Manager**.
- 2. In the Virtual Machines list, right-click 20339-1A-NYC-SP1-E, 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-E** and **20339-1A-NYC-DC1-E**.