Verify Directory Synchronization

This guide provides setup requirements and steps to demonstrate how to verify directory synchronization is working after running Azure AD Connect using Express Settings.

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## Pre-Requisites

This section lists the pre-requisites required for this demonstration.

* An Azure subscription

## Setup

Estimated time: 30 minutes

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| 1. Open a browser to <https://github.com/Azure/azure-quickstart-templates/tree/master/active-directory-new-domain>. 2. Click the **Deploy to Azure** button. 3. In the Parameters blade, accept the default values except for the following:    1. Set **NEWSTORAGEACCOUNTNAME** to **adconnexp001**. Note, if this storage account name is taken then increase the number at the end of the name until you find one that is available.    2. Set **LOCATION** to a region close to where you will be demonstrating.    3. Set the **ADMINPASSWORD** to **P@ssword1**.    4. Set **DOMAINNAME** to **adconnexpress.com**.    5. Set **ADDNSNAME** to **adconnexpress001**. Note, if this DNS name is already used then increase the number at the end of the name until you find one that is available. 4. Click **OK**. 5. Set **Create a new resource group** to **adconnectexpress**. 6. Accept the Legal terms. 7. Click **Create**. |  |
| 1. Sign-in to the Azure Management Portal at <https://manage.windowsazure.com>. 2. Click **+NEW > APP SERVICES > ACTIVE DIRECTORY > DIRECTORY > CUSTOM CREATE**.    1. Set **DIRECTORY** to Create new directory.    2. Set **NAME** to **AD Connect (express)**.    3. Set **DOMAIN NAME** to **adconnexp01**. Note, if this DNS name is already used then increase the number at the end of the name until you find one that is available.    4. Click the check mark button.   Wait for the directory to be created before continuing. |  |
| 1. Click on **ACTIVE DIRECTORY** in the left navigation. 2. Click on the **AD Connect (express)** directory name. 3. Click on the **DIRECTORY INTEGRATION** tab at the top of the page. 4. Set **DIRECTORY SYNC** to **ACTIVATED**. 5. Click the **SAVE** button at the bottom of the screen. 6. Download Azure Active Directory Connect by clicking the link shown in step 2 under the deploy and manage section. Save it to your Downloads folder. Click the number “2” to show the download link if you don’t see it. |  |
| 1. Click on the **USERS** tab for the AD Connect (express) directory. 2. Click the **ADD USER** button at the bottom of the page.    1. Set **TYPE OF USER** to **New user in your organization**.    2. Set **USER NAME** to **john@adconnexp01.onmicrosoft.com**.    3. Set **FIRST NAME** to **John**.    4. Set **LAST NAME** to **Doe**.    5. Set **DISPLAY NAME** to **John Doe (GA)**. Note: GA is just there to give you hint that this will be a “Global Administrator” in the directory.    6. Set **ROLE** to **Global Admin**.    7. Set **ALTERNATE EMAIL ADDRESS** to your email address or the email address of the service account for the Azure subscription. It really doesn’t matter for this demo.    8. Click the right-arrow in the lower-right corner.    9. Click the green **create** button to create the user.    10. Copy the **NEW PASSWORD** to your clipboard.    11. Click the check mark button in the lower-right corner of the page. |  |
| 1. Open a new **InPrivate** browsing session in IE. 2. Navigate to <https://myapps.microsoft.com>. 3. Sign-in using with user name **john@adconnexp01.onmicrosoft.com** and the temporary password you copied to your clipboard. Note: If prompted to choose between a Work/School account and a Microsoft Account, choose Work/School account. 4. Enter the temporary password. 5. Set the **permanent password** to **P@ssword1**. 6. Click **Update password and sign in**. 7. In the Access Panel, click on John Doe’s user name in the upper right corner and select **Sign out**. 8. Close the InPrivate browsing session in IE.   Make sure the deployment you started in step 1 is complete. If it is not, then wait for it to complete before continuing. |  |
| 1. Sign in to the Azure portal at <https://portal.azure.com>. 2. Click **Browse All > Resource Groups**. 3. Click on **adconnectexpress**. 4. In the adconnectexpress resource group blade, click on the **adDC** in the Summary part. 5. In the adDC virtual machine blade click the **Connect** button in the toolbar. 6. Sign with the following credentials:    1. Username is **.\adAdministrator**    2. Password is **P@ssword1** 7. Open **Windows PowerShell ISE** as an Administrator.    1. Paste the following script into the script editor and run it.   Add-WindowsFeature –Name RSAT-ADDS  $UserPassword = "P@ssword1" | ConvertTo-SecureString -AsPlainText -Force  New-ADUser -Name Jane -GivenName Jane -Surname Smith -DisplayName "Jane Smith" -UserPrincipalName jane@adconnexpress.com -AccountPassword @UserPassword -ChangePasswordAtLog $False -PasswordNeverExpires $True -Enabled $True  New-ADUser -Name Adam -GivenName Adam -Surname Rolater -DisplayName "Adam Rolater" -UserPrincipalName adam@adconnexpress.com -AccountPassword @UserPassword -ChangePasswordAtLog $False -PasswordNeverExpires $True -Enabled $True  $financeGroupName = "Finance"  New-ADGroup -Name $financeGroupName -DisplayName "Finance Group" -Description "Users in the Finance Dept." -GroupScope Global -OutVariable $groupFinance  $userJane = Get-ADUser -Identity Jane  Add-ADGroupMember -Identity $financeGroupName -Members $userJane |  |
| 1. Copy the AD Connect MSI you downloaded to your local machine to the Desktop folder of this virtual machine. 2. Right-click on **AzureADConnect** and select **Install**.    1. On the **Welcome** screen click the check box to agree to the terms.    2. Click the green button to **Use Express Settings**.    3. In the Connect to Azure AD page set **USERNAME** to **john@adconnexp01.onmicrosoft.com** and **PASSWORD** to **P@ssword1**.    4. Click **Next**.    5. In the Connect to AD DS page set **USERNAME** to **ADCONNEXPRESS.COM\adAdministrator** and **PASSWORD** to **P@ssword1**.    6. Click **Next**.    7. In the Ready to configure page click **Install**.    8. In the Configuration complete page click **Exit**. |  |
| 1. Keep the RDP session open to this machine so you can come back to it quickly during the presentation. |  |

## Demo Steps

Estimated time: 5 minutes

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| 1. Return back to the RDP session to the adDC virtual machine. If it is closed, then reconnect to it from the virtual machine blade in the Azure portal. 2. In Server Manager, click on **Tools > Active Directory Users and Computers**. 3. Expand the **adconnexpress.com** directory. 4. Click on **Users**. 5. Show the two users that you added earlier in the demo setup instructions. 6. Show the **Finance** group that you also added. 7. Double-click on the Finance group to show that Jane Smith is a member of this group.   The purpose of these first few steps is simply to bring the audience up to speed on where you are in context with the previous demo and slides and to show what the on-premises environment looks like. |  |
| 1. Sign-in to the Azure Management Portal at <https://manage.windowsazure.com>. 2. Click on **ACTIVE DIRECTORY** in the left navigation. 3. Click on the **AD Connect (express)** directory name. 4. Click on the **DIRECTORY INTEGRATION** tab at the top of the page.    1. Point out that we’re now in **step 3** which is the verification process.    2. Show the **LAST SYNC** property which now shows the last time AD Connect synchronized. |  |
| 1. Click on the **USERS** tab at the top of the page. 2. Show the two users (Adam and Jane) that were synched from the on-premises directory. Point out the sourced from column for the two users showing they are sourced from the **Local Active Directory**.   Also point out the Synchronization Service Account that was created in the directory. This was added when configuring AD Connect. |  |
| 1. Click on the **GROUPS** tab at the top of the page. 2. Show the **Finance Group** that you referenced in the on-premises directory. 3. Click on the **Finance Group** and show that Jane is a member of this group. |  |
| 1. Return back to the RDP session for the **adDC** virtual machine. 2. On the Desktop, double-click on the **Azure AD Connect** icon. |  |
| 1. Click on **View Current Configuration** and then click **Next**. 2. Show a few of the settings, such as    1. User write back    2. Group write back    3. Password write back    4. Device writeback   Explain that these are default settings when using Express Settings for AD Connect. In the next demo you will show where these can be set.   1. Click the **Previous** button. |  |
| 1. Click on **Custom synchronization options** and then click **Next**. 2. In the In the Connect to Azure AD page set **USERNAME** to **john@adconnexp01.onmicrosoft.com** and **PASSWORD** to **P@ssword1**. 3. Click **Next**. 4. In the Connect to directories page show that this is where you could add new forests and domains that may have been created since you first installed AD Connect. Click **Next**. 5. In the Optional Features page show that this is where you can enable features that you didn’t get an opportunity to add using Express Settings. 6. Close the AD Connect tool. |  |

## Clean Up

To clean up after this demo perform the following steps:

1. In the Azure Management Portal (<https://manage.windowsazure.com>), go to the **DIRECTORY INTEGRATION** page for the **AD Connect (express)** directory.
2. Set **DIRECTORY SYNC** to **DEACTIVATED**.
3. Click **SAVE**.
4. Wait for the directory sync to complete deactivating before continuing.
5. Click on the **GROUPS** tab at the top of the page.
6. Click on each group and click **DELETE** to delete all the groups.
7. Click on the **USERS** tab at the top of the page.
8. Click on each user and click **DELETE** to delete all the users. Note: you won’t be able to delete the service account user.
9. Go back to the **ACTIVE DIRECTORY** page in the portal.
10. Highlight (don’t click on the name) the **AD Connect (express)** directory.
11. Click the **DELETE** button to remove the directory.
12. Open the Azure portal (<https://portal.azure.com>).
13. Select **Browse All > Resource Groups**.
14. Click on the **adconnectpexpress** resource group.
15. In the adconnectexpress resource group blade click the **Delete** button in the toolbar.
16. Verify the name of the resource group you are deleting and click **Delete** again.