

Azure-AD-Connect

Microsoft Azure Active Directory Connect

Welcome

Express Settings

Welcome to Azure AD Connect

Run this installation tool on the server where the synchronization service component will be installed.

Azure Active Directory Connect integrates your on-premises and online directories.

This installation tool will:

- Guide you in selecting a solution (for example, password hash synchronization or federation with AD FS)
- Install identity synchronization and other Microsoft software components required for deployment
- Enable application telemetry and component health data by default. You can change what data is shared with Microsoft by updating your [privacy settings](#).

[Learn more](#)

I agree to the [license terms](#) and [privacy notice](#).

Continue

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Express Settings

If you have a **single** Windows Server Active Directory forest, we will do the following:

- Configure synchronization of identities in the current AD forest of **l.f.local**
- Configure password hash synchronization from on-premises AD to Azure AD
- Start an initial synchronization
- Synchronize all attributes
- Enable Auto Upgrade

[Learn more about express settings](#)

If you would like different settings, click Customize.

l.f.local is not a routable domain. It is recommended to use custom settings to configure user sign-in options.
[Learn more about non-routable domains and user sign-in settings.](#)

Customize Use express settings

Microsoft Azure Active Directory Connect

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Required Components
User Sign-In

Install required components

No existing synchronization service was found on this computer. The Azure AD Connect synchronization service will be installed. ?

Optional configuration:

- Specify a custom installation location
- Use an existing SQL Server
- Use an existing service account
- Specify custom sync groups

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User sign-in

Select the Sign On method.

- Password Hash Synchronization ?
- Pass-through authentication ?
- Federation with AD FS ?
- Federation with PingFederate ?
- Do not configure ?

Select this option to enable single sign-on for your corporate desktop users:

- Enable single sign-on ?

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Select this option to enable single sign-on for your corporate desktop users:

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The screenshot shows the 'Microsoft Azure Active Directory Connect' window. The title bar includes the Microsoft logo and window controls. On the left is a navigation pane with the following items: Welcome, Express Settings, Required Components, User Sign-In, Connect to Azure AD, Sync, **Connect Directories** (highlighted), Azure AD sign-in, Domain/OU Filtering, Identifying users, Filtering, Optional Features, Single sign-on, and Configure. The main content area is titled 'Connect your directories' and contains the text 'Enter connection information for your on-premises directories or forests. ?'. Below this are two dropdown menus: 'DIRECTORY TYPE' set to 'Active Directory' and 'FOREST ?' set to '.local'. A green 'Add Directory' button is to the right of the forest dropdown. Below the dropdowns, it says 'No directories are currently configured.' At the bottom of the window are 'Previous' and 'Next' buttons.

The screenshot shows the 'AD forest account' dialog box. The title bar has the Microsoft logo and window controls. The main title is 'AD forest account'. The text reads: 'An AD account with sufficient permissions is required for periodic synchronization. Azure AD Connect can create the account for you. Alternatively, you may provide an existing account with the required permissions. [Learn more](#) about managing account permissions.' Below this, it says 'The first option is recommended and requires you to enter Enterprise Admin credentials.' There are two radio button options: 'Create new AD account' (selected) and 'Use existing AD account'. Below the options are two input fields: 'ENTERPRISE ADMIN USERNAME' containing '\Administrator' and 'PASSWORD' with masked characters. At the bottom are 'OK' and 'Cancel' buttons.

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Connect your directories

Enter connection information for your on-premises directories or forests. ?

DIRECTORY TYPE
Active Directory

FOREST ?
Add Directory

CONFIGURED DIRECTORIES
■ ■ ■ ■ (Active Directory) ✓ Remove

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Azure AD sign-in configuration

To sign-in to Azure with the same credentials as your on-premises directory, a matching Azure AD Domain is required. The following table lists the UPN suffixes for your on-premises environment and the status of the associated Azure AD Domain. ?

Active Directory UPN Suffix	Azure AD Domain
■ ■ local	Not Added ?
■ ■ ■ de	Verified

Select the on-premises attribute to use as the Azure AD username

USER PRINCIPAL NAME ?
userPrincipalName

Continue without matching all UPN suffixes to verified domains

Users will not be able to sign-in to Azure AD with on-premises credentials if the UPN suffix does not match a verified domain. [Learn more](#)

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Domain and OU filtering

Directory: Refresh Ou/Domain ?

Sync all domains and OUs
 Sync selected domains and OUs

- local
 - Builtin
 - Computers
 - Domain Controllers
 - ForeignSecurityPrincipals
 - Infrastructure
 - local
 - Groups
 - Hardware
 - Users
 - LostAndFound
 - Managed Service Accounts
 - Program Data
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Uniquely identifying your users

Select how users should be identified in your on-premises directories. ?

Users are represented only once across all directories.
 User identities exist across multiple directories. Match using:
 Mail attribute
 ObjectSID and msExchMasterAccountSID/msRTCSIP-OriginatorSID attributes
 SAMAccountName and MailNickName attributes
 A specific attribute

Select how users should be identified with Azure AD. ?

Let Azure manage the source anchor
 Choose a specific attribute

Azure will write back unique source anchors to your on-premises directory if mS-DS-ConsistencyGuid is currently unused by your organization. [Learn more](#)

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Filter users and devices

For a pilot deployment, specify a group containing your users and devices that will be synchronized. Nested groups are not supported and will be ignored.

Synchronize all users and devices

Synchronize selected ?

FOREST: local

GROUP:

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Optional features

Select enhanced functionality if required by your organization.

- Exchange hybrid deployment ?
- Exchange Mail Public Folders (Preview) ?
- Azure AD app and attribute filtering ?
- Password hash synchronization ?
- Password writeback ?
- Group writeback (Preview) ?
- Device writeback ?
- Directory extension attribute sync ?

[Learn more](#) about optional features.

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Azure AD apps

The information necessary to use the following apps will be exported to Azure AD. Remove an app only if required to meet strict organizational security policy.

AZURE AD APPS

- Office 365 ProPlus
- Exchange Online
- SharePoint Online
- Lync Online
- Azure RMS
- Intune
- Dynamics CRM
- 3rd party application

I want to restrict the list of applications. ?

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Azure AD attributes

These attributes will be exported to Azure AD based on the previously selected application. Remove an individual attribute only if required to meet string organizational security policy.

EXPORTED ATTRIBUTES

- accountEnabled
- accountName
- altRecipient
- assistant
- authOrig
- c
- cloudUserCertificate
- cloudUserSMIMECertificate
- cn
- co
- company
- countryCode

I want to further limit the attributes exported to Azure AD. ?

[View the list of attribute as comma-separated values](#)

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Directory extensions

Synchronize directory extension attributes from on-premises to Azure AD to make them available to cloud-based apps.

Available Attributes

- USNIntersite (group) [Integer]
- USNIntersite (user) [Integer]
- uSNSource (group) [LargeInteger]
- uSNSource (user) [LargeInteger]
- wbemPath (group) [String]
- wbemPath (user) [String]
- whenCreated (group) [DateTime]
- whenCreated (user) [DateTime]
- wwwHomePage (group) [String]
- wwwHomePage (user) [String]
- x121Address (user) [String]
- x500uniqueIdentifier (user) [Binary]

Selected Attributes

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Enable single sign-on

Enter a domain administrator account to configure your on-premises forest for use with single sign-on. ?

local Enter credentials ✓

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The screenshot shows the 'Ready to configure' screen in the Microsoft Azure Active Directory Connect application. On the left is a navigation pane with the following items: Welcome, Express Settings, Required Components, User Sign-In, Connect to Azure AD, Sync, Connect Directories, Azure AD sign-in, Domain/OU Filtering, Identifying users, Filtering, Optional Features, Azure AD Apps, Azure AD Attributes, Directory Extensions, Single sign-on, and Configure (highlighted in blue). The main content area has the heading 'Ready to configure' and the text 'Once you click Install, we will do the following:'. Below this are two bullet points: 'Configure synchronization services on this computer' and 'Enable single sign-on'. There are two checkboxes: the first is checked and labeled 'Start the synchronization process when configuration completes.', and the second is unchecked and labeled 'Enable staging mode: When selected, synchronization will not export any data to AD or Azure AD.'. At the bottom right are two buttons: 'Previous' (disabled) and 'Install' (active).

The screenshot shows the 'Configuration complete' screen in the Microsoft Azure Active Directory Connect application. The navigation pane on the left is identical to the previous screen, with 'Configure' highlighted. The main content area has the heading 'Configuration complete' and the text 'Azure AD Connect configuration succeeded. The synchronization process has been initiated.'. Below this are three informational messages, each with a colored bar on the left and a 'Learn more' link: 1. A green bar: 'The configuration is complete. You can now log in to the Azure or Office 365 portal to verify that user accounts from your local directory have been created. Then, do a test sign-on to the Azure portal. Learn more'. 2. An orange bar: 'The Active Directory Recycle Bin is not enabled for your forest (■■■.local) and is strongly recommended. Learn more'. 3. A blue bar: 'Azure Active Directory is configured to use AD attribute mS-DS-ConsistencyGuid as the source anchor attribute. Learn more'. At the bottom right are two buttons: 'Previous' (disabled) and 'Exit' (active).

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