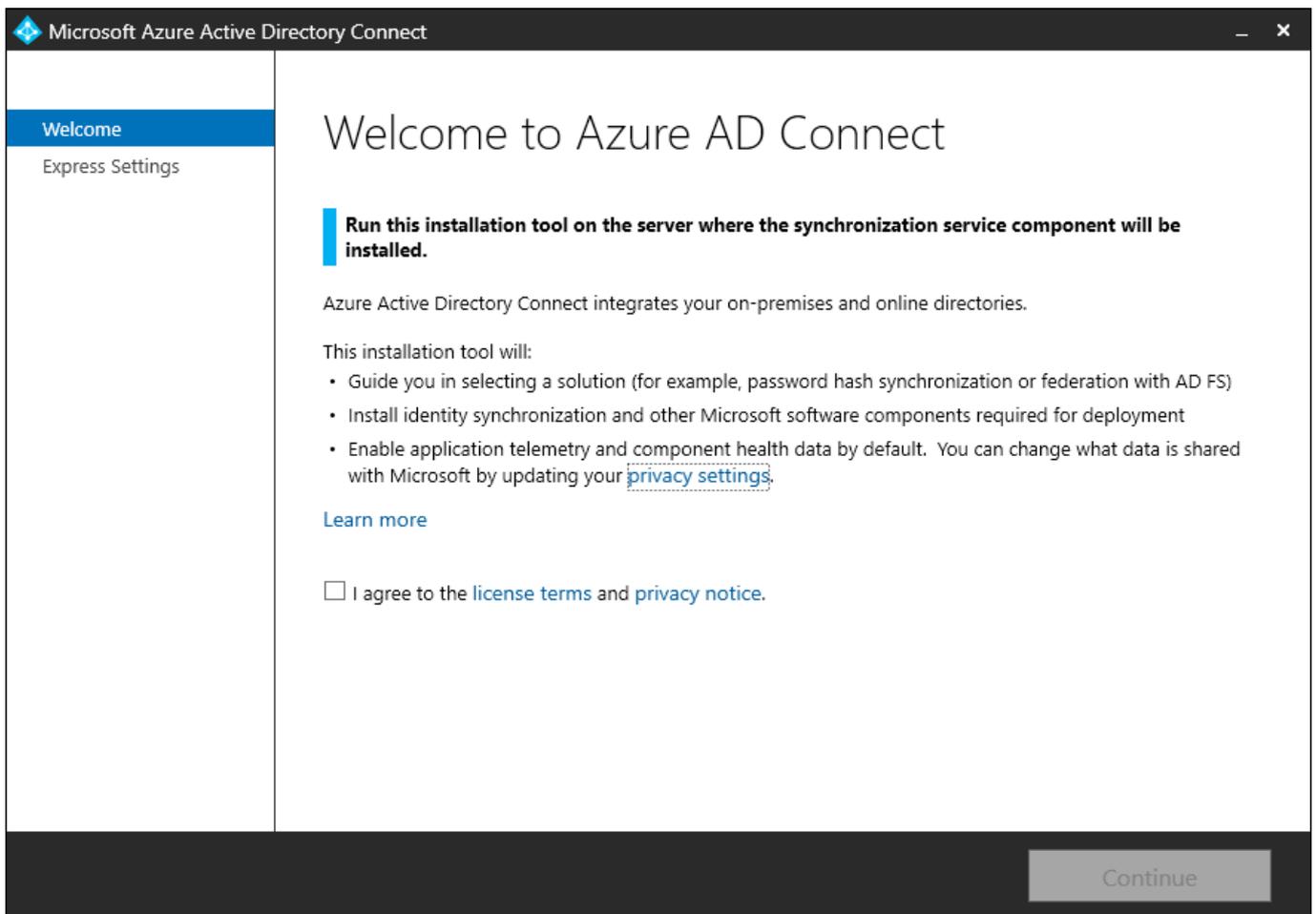


# Azure-AD-Connect (AD-Hybridmodus)

## Vorbereitende Maßnahmen

- Login-Domain mit Tenant verbinden und DNS-Einträge für alle zu nutzenden Dienste hinterlegen
- IDfix-Tool laufen lassen und empfohlene Maßnahmen durchführen

## AAD-Connect Installation



Microsoft Azure Active Directory Connect

Welcome

Express Settings

## 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 '  '
- 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.

 **.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

Welcome

Express Settings

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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Domain/OU Filtering  
Identifying users  
Filtering  
Optional Features  
Configure

## 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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The screenshot shows the 'Microsoft Azure Active Directory Connect' application window. The title bar includes the Microsoft logo and the text 'Microsoft Azure Active Directory Connect'. 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 in blue), 'Azure AD sign-in', 'Domain/OU Filtering', 'Identifying users', 'Filtering', 'Optional Features', 'Single sign-on', and 'Configure'. The main area is titled 'Connect your directories' and contains the instruction: '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, the text reads '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 contains the Microsoft logo and the text 'AD forest account'. The main heading is 'AD forest account'. Below the heading is a paragraph: '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.' This is followed by another paragraph: 'The first option is recommended and requires you to enter Enterprise Admin credentials.' Below this is the instruction 'Select account option.' and two radio button options: 'Create new AD account' (which is selected) and 'Use existing AD account'. There are two input fields: 'ENTERPRISE ADMIN USERNAME' containing 'Administrator' and 'PASSWORD' containing a series of dots. 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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Hier wäre zu prüfen, ob ein Logon über die Mailadresse des Users sinnvoll wäre. Siehe <https://docs.microsoft.com/de-de/azure/active-directory/hybrid/plan-connect-userprincipalname> .

The screenshot shows the 'Microsoft Azure Active Directory Connect' application window. The title bar reads 'Microsoft Azure Active Directory Connect'. 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** (highlighted), Identifying users, Filtering, Optional Features, Single sign-on, and Configure. The main content area is titled 'Domain and OU filtering'. It features a 'Directory:' dropdown menu set to 'local', a 'Refresh Ou/Domain' button with a question mark, and two radio button options: 'Sync all domains and OUs' (unselected) and 'Sync selected domains and OUs' (selected). Below these is a tree view of the local directory structure. The tree shows 'local' expanded, with sub-items: BuiltIn, Computers, Domain Controllers, ForeignSecurityPrincipals, Infrastructure, Groups (checked), Hardware (checked), Users (checked), LostAndFound, Managed Service Accounts, Program Data, System, and Users. At the bottom of the window are 'Previous' and 'Next' buttons.

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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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  - Azure AD Apps
  - Azure AD Attributes
  - Directory Extensions
- Single sign-on
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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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The screenshot shows the 'Enable single sign-on' configuration step in Microsoft Azure Active Directory Connect. The left sidebar contains a navigation menu with 'Single sign-on' selected. The main area displays the title 'Enable single sign-on' and a text prompt: 'Enter a domain administrator account to configure your on-premises forest for use with single sign-on.' Below this is a text input field containing 'local', followed by a green 'Enter credentials' button with a checkmark icon. At the bottom, there are 'Previous' and 'Next' navigation buttons.

The screenshot shows the 'Ready to configure' screen in Microsoft Azure Active Directory Connect. The left sidebar has 'Configure' selected. The main area features the title 'Ready to configure' and a list of actions: 'Once you click Install, we will do the following:'. The list includes 'Configure synchronization services on this computer' and 'Enable single sign-on'. Below the list are two checkboxes: 'Start the synchronization process when configuration completes.' (checked) and 'Enable staging mode: When selected, synchronization will not export any data to AD or Azure AD.' (unchecked). At the bottom, there are 'Previous' and 'Install' navigation buttons.

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**Configure**

# Configuration complete

Azure AD Connect configuration succeeded. The synchronization process has been initiated.

- 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](#)**
- The Active Directory Recycle Bin is not enabled for your forest (■■■■.local) and is strongly recommended. [Learn more](#)**
- Azure Active Directory is configured to use AD attribute `mS-DS-ConsistencyGuid` as the source anchor attribute. [Learn more](#)**
- Provide your users a single sign-on experience by configuring Seamless SSO through Group Policy. [Learn more](#)**

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