



## How to Setup a Federated Connection to Apple Business Manager



Contents

What is Federated Authentication? ..... 3

Can I link Google Workspace or Microsoft Azure Active Directory to  
Apple Business Manager using Federated Authentication? ..... 3

What are the requirements? ..... 3

Section 1: Verify the Domain ..... 4

Section 1: Integrate Microsoft Azure Active Directory into Apple Business Manager ..... 7

Section 3: Directory Sync ..... 12

Section 4: Test a federated account..... 19

Addendum: SCIM user attribute mapping ..... 22

## What is Federated Authentication?

Federated authentication is a method of linking a user's identity across multiple separate identity management systems. For businesses embracing a work-from-anywhere policy, federated authentication offers a secure, flexible way to reduce IT overhead. With federated authentication, a single digital identity unlocks an employee's access to different services and authenticates them without additional passwords. Federated authentication further reduces the risk of Bring-Your-Own Device (BYOD) in the workplace. In addition, IT admins can set policies and controls over what, where, and when users can access data. They can grant or revoke employee access at a moment's notice when employees join the team or leave for another job.

## Can I link Google Workspace or Microsoft Azure Active Directory to Apple Business Manager using Federated Authentication?

Yes, you can! In Apple Business Manager, you will need to use federated authentication to link Google Workspace or Microsoft Azure Active Directory (Azure AD) with Apple Business Manager. When Apple Business Manager and Google Workspace or Azure AD are linked, users who sign-in to Apple Business Manager using their Google Workspace or Azure AD user name and password have those same credentials become their Managed Apple ID automatically. If a user is removed from Google Workspace or Azure AD, that user can be removed from Apple Business Manager.

NOTE: You can link to only Google Workspace or Azure AD, but not at the same time.

## What are the requirements?

You will need the following to connect a cloud identity to Apple Business Manager:

- You will need to verify the domain your are using. This will let Apple know you own the Domain and are able to make changes to DNS records.
- An account with Google Workspace or Microsoft Azure Active Directory configured.

The minimum requirements for devices:

- Google Workspace: iOS 15.5, iPadOS 15.5, MacOS 12.4
- Microsoft Azure Active Directory: iOS 11.3, iPadOS 13.1, MacOS 10.13.4

## Links

Azure AD sync requirements with Apple Business Manager

<https://support.apple.com/guide/apple-business-manager/azure-ad-sync-requirements-axmd88331cd6/web>

Sync users from Azure AD into Apple Business Manager

<https://support.apple.com/guide/apple-business-manager/sync-users-from-azure-ad-axm3ec7b95ad/1/web/1>

What was used in this guide:

- Apple Business Manager
- Microsoft Azure Active Directory (Azure AD)

In this guide, we will show:

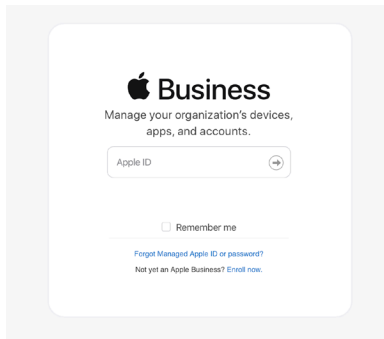
- How to verify your domain in Apple Business Manager
- Use federated authentication to link to Azure Active Directory (Azure AD) to Apple Business Manager
- Use Directory Sync to Import users



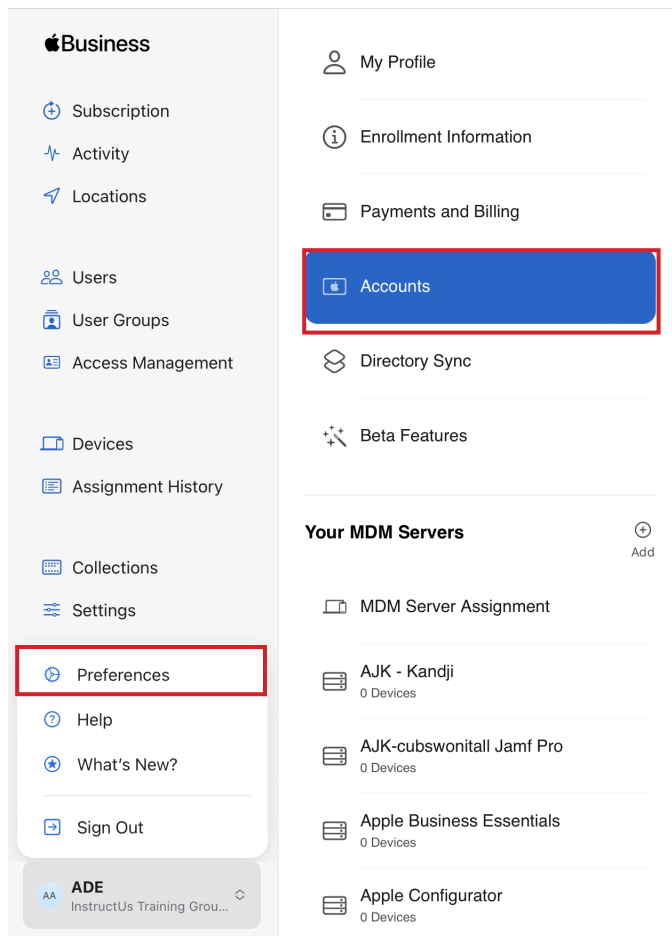
## Section 1: Verify the Domain

Before you begin, you must verify the domain you are about to federate. This ensures that your organization is the one that has authority to modify the domain name service (DNS) records for your domain.

1. Log in to Your Apple Business Manager, with Administrator credentials.

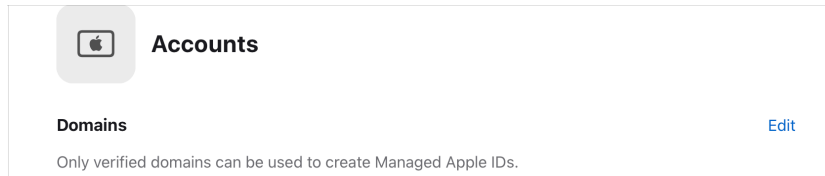


2. Click your name at the bottom of the sidebar, click Preferences.
3. Click Accounts.

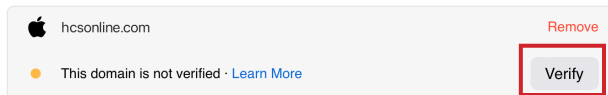




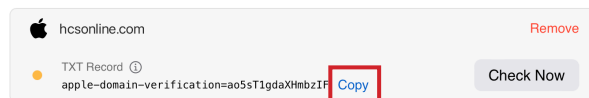
4. Click Edit in the Domains section.



5. Click Verify next to the domain.



6. In the TXT record field, click Copy.



7. Open TextEdit, open a new blank document if necessary, and paste in the copied TXT record. You'll need this for a later step.

8. Create a DNS TXT record at your domain registrar. This procedure will vary depending on your domain registrar. If you are using one of the following services, see their documentation for creating a TXT record in a zone file, or contact your DNS administrator:

- Google: [Verify your domain with a TXT record](#)
- GoDaddy: [Add a TXT record](#)
- Microsoft Azure: [Add a TXT record for verification](#)
- Network Solutions: [Managing Advanced DNS Records](#)
- NameCheap: [How do I add TXT record for my domain?](#)

If you have a different domain registrar, contact them for information on how to add a TXT record to your DNS zone file.

As an example, this guide uses Site Ground.

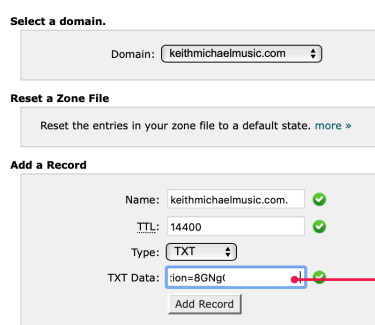
9. After you log in to Site Ground, go to the cPanel for DNS settings.

10. Select Advanced DNS Zone Editor.



10. Create a TXT record. Paste in the value that you copied in step 6.

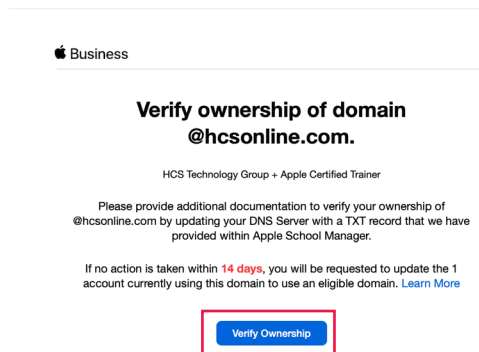
11. Log out of your domain registrar.



Paste in the value that you copied in step 5



12. Check the email account that is tied to the Apple Business Manager account that you signed in with. In the verification email message, click Verify Ownership.



13. To test your DNS TXT record, Open Terminal then enter the following command:

```
dig -t txt yourdomaingoeshere.com
```

The results will return the TXT record you created at your domain registrar.

NOTE: It can take up to 24 hours for the new DNS record to propagate across the internet.

```
rgoon --zsh -- 108x16
Last login: Sun Mar  5 15:23:26 on console
rgoon@rgoons-iMac ~ % dig -t txt hconline.com
; <<> Dig 9.10.6 <<> -t txt hconline.com
;; global options: +cmd
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 32227
;; flags: qr rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 1

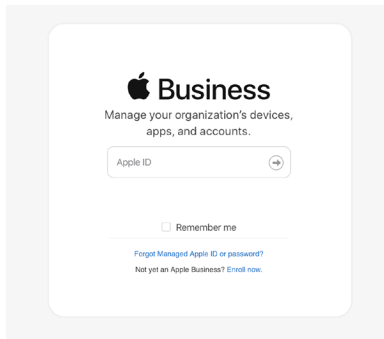
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;hconline.com.                IN      TXT
... ANSWER SECTION:
hconline.com.                3600   IN      TXT    "apple-domain-verification=ltxovkWmdPpjZnip"
```



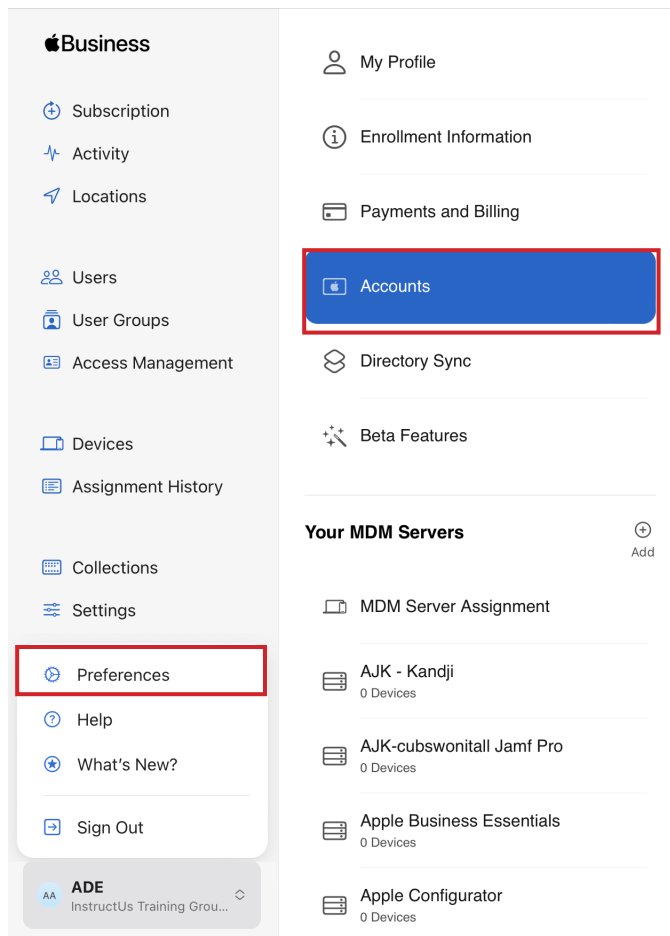
## Section 1: Integrate Microsoft Azure Active Directory into Apple Business Manager

After the Domain has been verified, you may proceed to start integrating Microsoft Azure Directory into Apple Business Manager. You will need administration credentials for your Microsoft account.

1. Log in to Your Apple Business Manager, with Administrator credentials.



2. Click your name at the bottom of the sidebar, click Preferences,
3. Click Accounts .







4. Click Edit in the Federated Authentication section.

**Federated Authentication** Edit

Federated authentication allows your users to sign in to their Managed Apple ID by signing into their Google or Microsoft account.

 Allow users to sign in using their Google Workspace credentials. [Learn More](#)

 Allow users to sign in using their Microsoft Azure Active Directory credentials. [Learn More](#)

5. Select Microsoft Azure AD.

6. Click Connect.

**Federated Authentication** Done

Federated authentication allows your users to sign in to their Managed Apple ID by signing into their Google or Microsoft account.

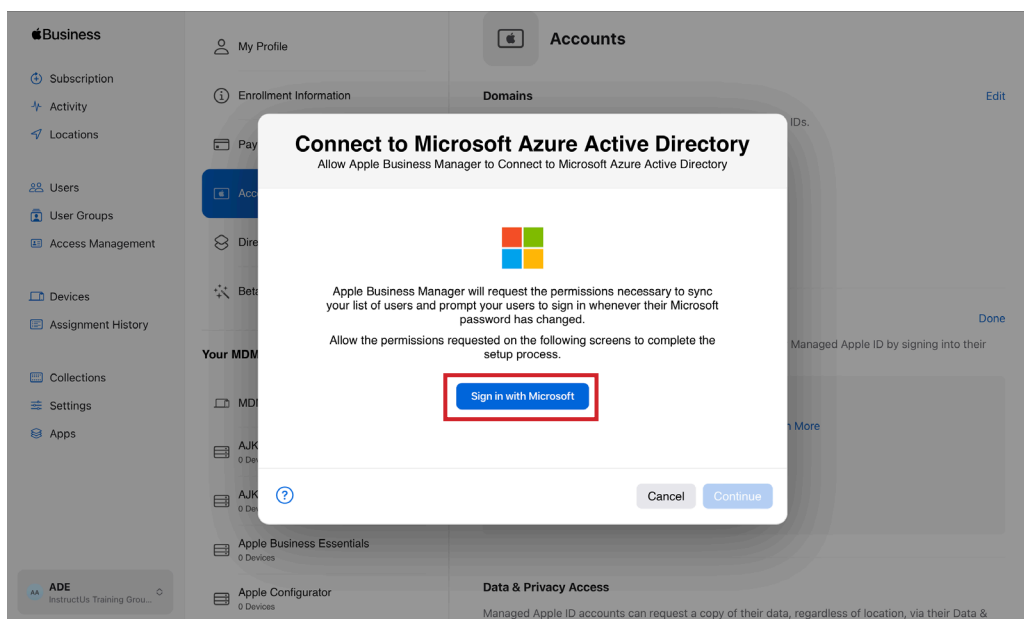
**Ready to connect**  
All your accounts are ready to be federated. [Learn More](#)

Google Workspace


Microsoft Azure AD

Connect

7. Click Sign in with Microsoft



**Connect to Microsoft Azure Active Directory**  
Allow Apple Business Manager to Connect to Microsoft Azure Active Directory



Apple Business Manager will request the permissions necessary to sync your list of users and prompt your users to sign in whenever their Microsoft password has changed.

Allow the permissions requested on the following screens to complete the setup process.

Sign in with Microsoft

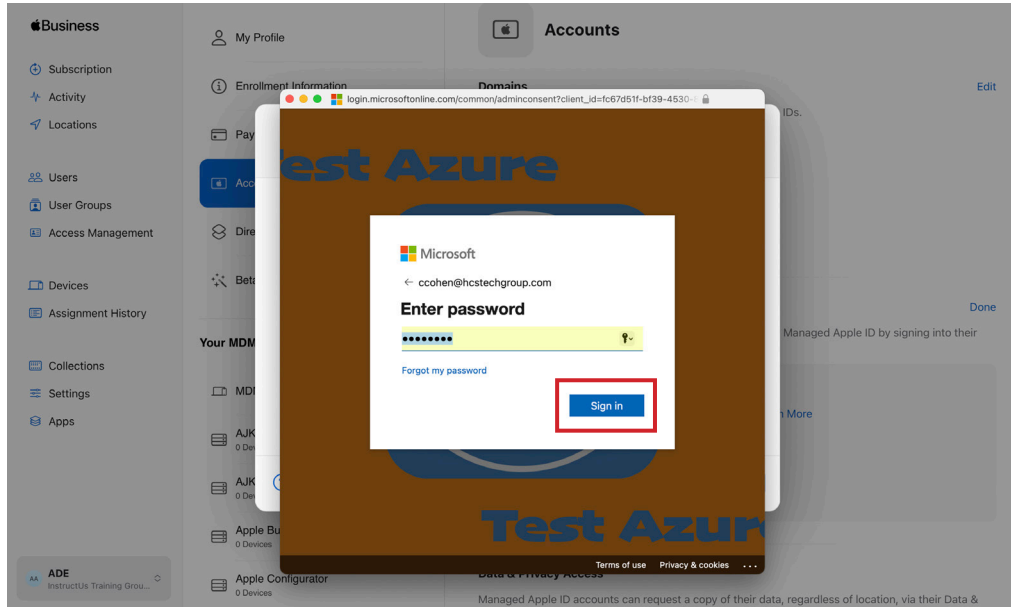
Cancel Continue



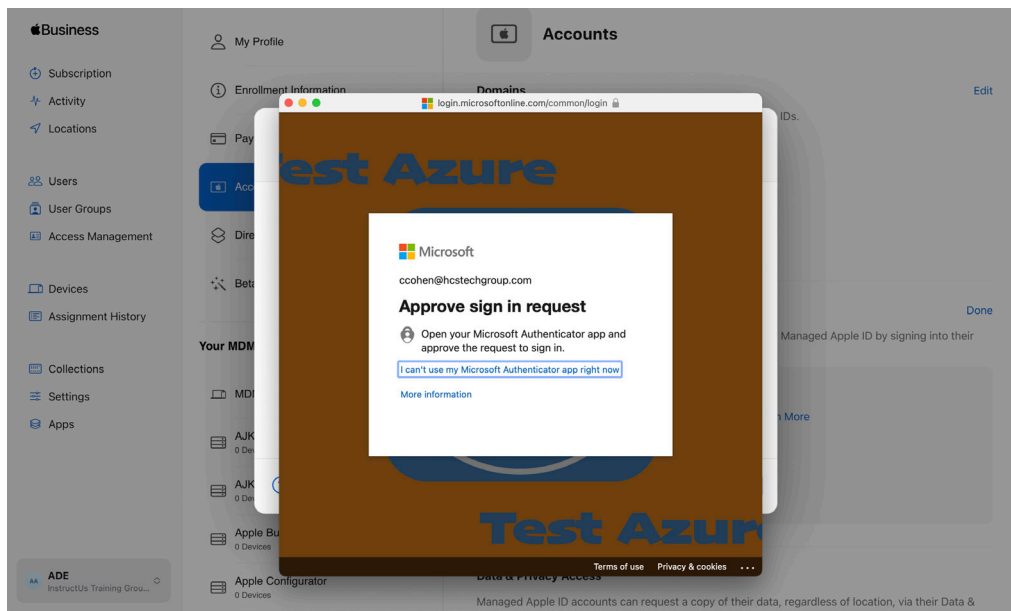


## How to Setup a Federated Connection to Apple Business Manager

8. Enter the administrator credentials for your Microsoft account. Click Sign in.



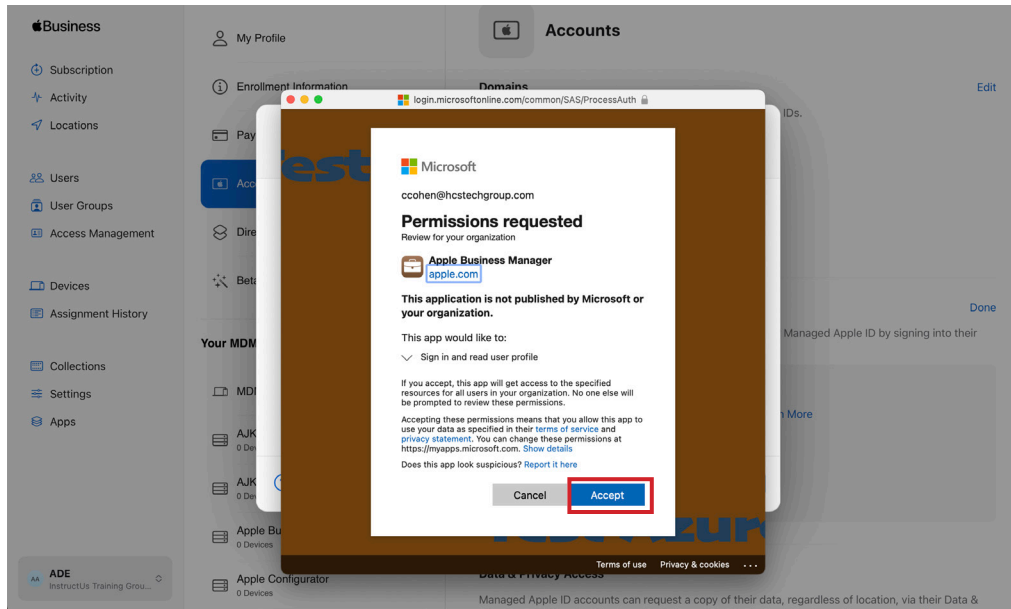
9. If multi-factor authentication is turned on, use the multi-factor app to allow access.



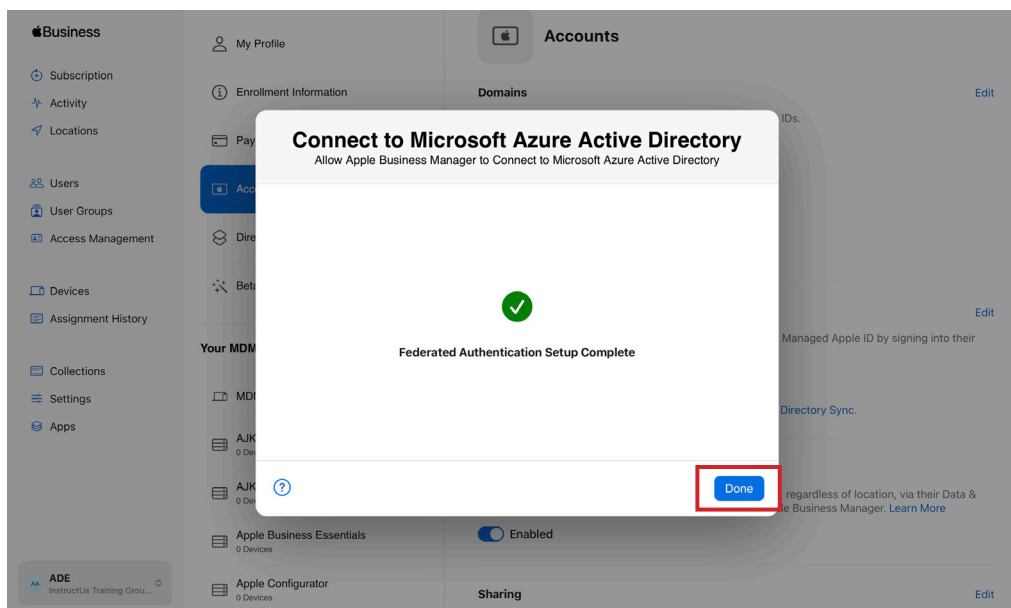


## How to Setup a Federated Connection to Apple Business Manager

10. Click Accept.



11. Click Done.





## 12. Confirm Microsoft Azure Active Directory has been configured.

The screenshot displays the Apple Business Manager interface. On the left is a navigation sidebar with categories like Business, Users, Devices, and Collections. The main content area is divided into two columns. The left column contains 'My Profile' and 'Your MDM Servers' sections. The right column is titled 'Accounts' and includes 'Domains', 'Federated Authentication', 'Data & Privacy Access', and 'Sharing' sections. The 'Federated Authentication' section is highlighted with a red border and shows a green checkmark next to 'Microsoft Azure Active Directory Configured'. Below this, there is a note about enabling automatic creation of Managed Apple IDs by turning on 'Directory Sync'.

**Accounts**

**Domains** [Edit](#)

Only verified domains can be used to create Managed Apple IDs.

- acncamp.com
- hcsonline.com
- hcsonlinecom1.appleid.com

**Federated Authentication** [Edit](#)

Federated authentication allows your users to sign in to their Managed Apple ID by signing into their Google or Microsoft account.

✔ **Microsoft Azure Active Directory Configured**

To enable automatic creation of Managed Apple IDs, turn on [Directory Sync](#).

**Data & Privacy Access**

Managed Apple ID accounts can request a copy of their data, regardless of location, via their Data & Privacy page, if enabled to do so by their organization in Apple Business Manager. [Learn More](#)

Enabled

**Sharing** [Edit](#)



## Section 3: Directory Sync

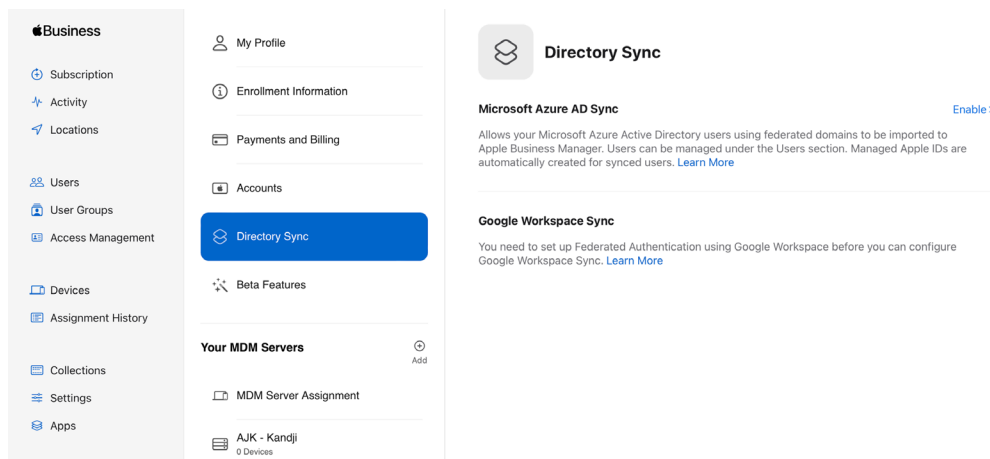
You can use the System for Cross-domain Identity Management (SCIM) to import users into Apple Business Manager. Using this system, you merge Apple Business Manager properties (such as roles) with user account data imported from Microsoft Azure Active Directory (Azure AD). When a user is copied from Azure AD using SCIM to Apple Business Manager, the default role is Staff. After the sync is complete, only the Roles user attribute can be edited.

NOTE: You have only 4 calendar days to complete the token transfer to Azure AD and successfully establish a connection, or you must begin the process again.

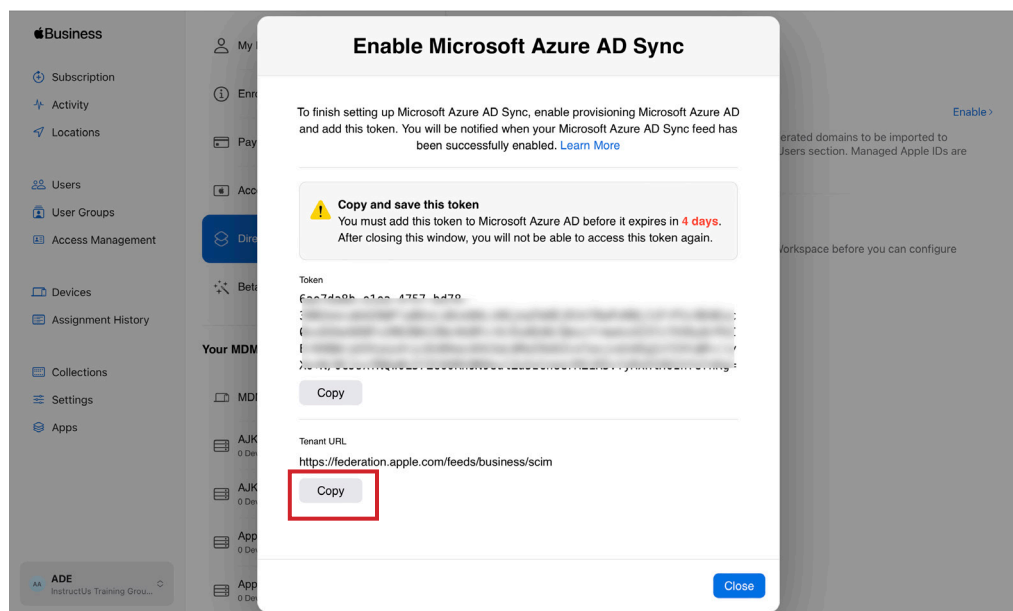
Please review the article on Azure AD sync requirements with Apple Business Manager:

<https://support.apple.com/guide/apple-business-manager/azure-ad-sync-requirements-axmd88331cd6/web>

1. Click Directory Sync.
2. Click Enable.

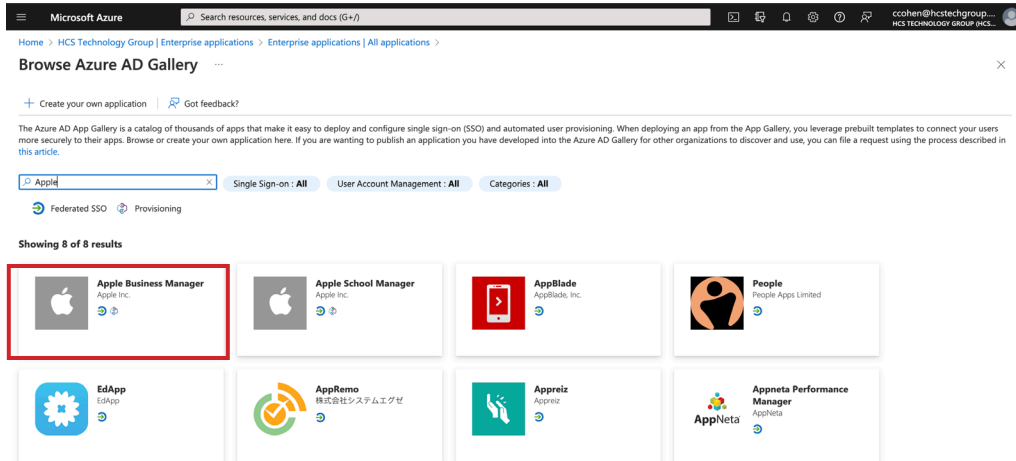


3. Click Copy for Tenant URL: <https://federation.apple.com/feeds/business/scim>  
NOTE: Keep this window open.

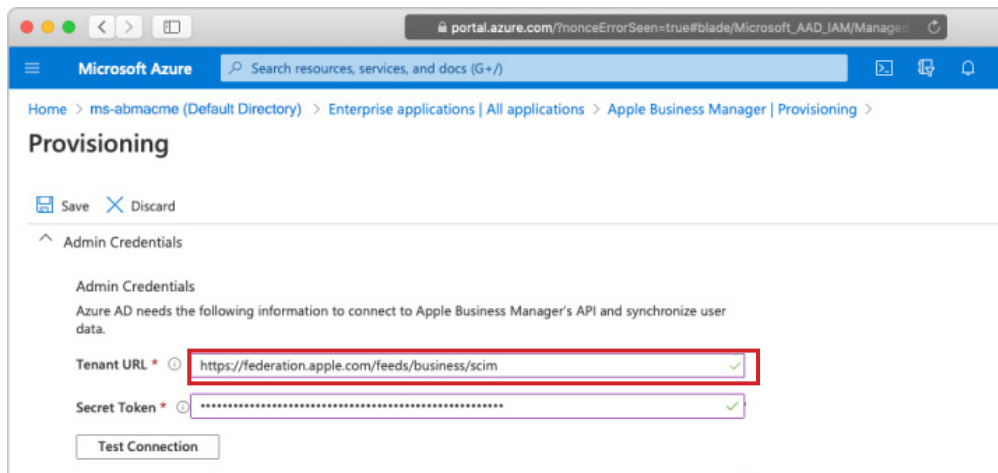




4. In a new browser window, log in to your Azure web portal: (<https://portal.azure.com>).
5. Click Enterprise applications.
6. Search for Apple Business Manager.
7. After the search is complete, click Apple Business Manager.

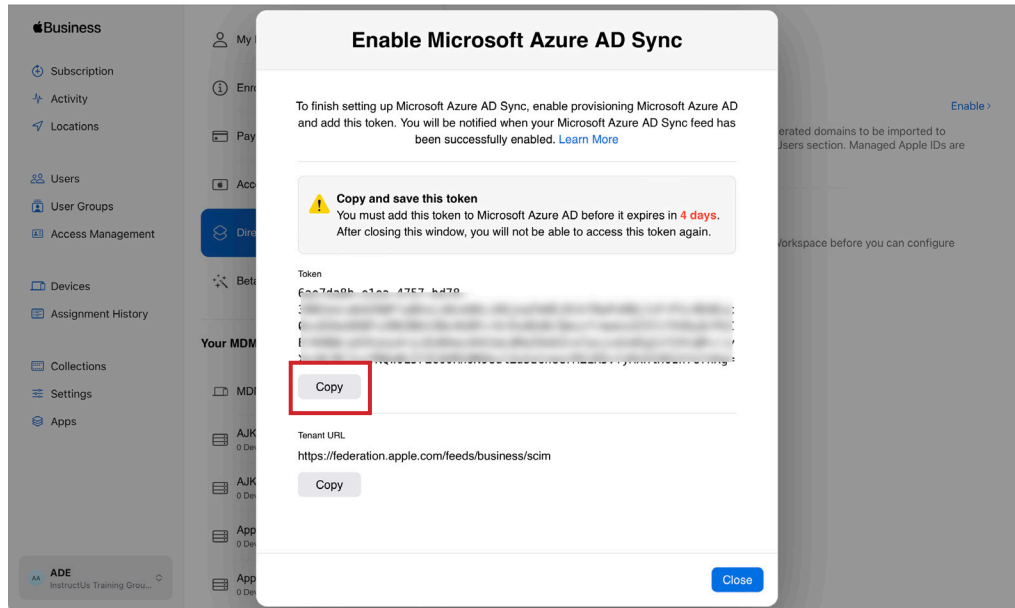


8. In the Apple Business Manager Azure AD app, delete any content in the Tenant URL field, then paste in the tenant URL from Apple Business Manager.

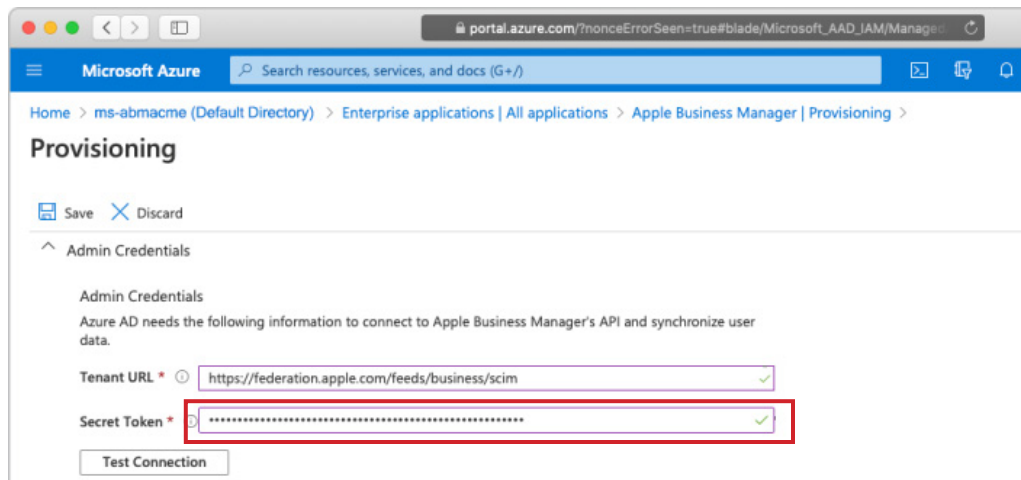




9. Click Copy for Token.



10. In the Apple Business Manager Azure AD app, paste the copied token from Apple Business Manager into the Secret Token field.





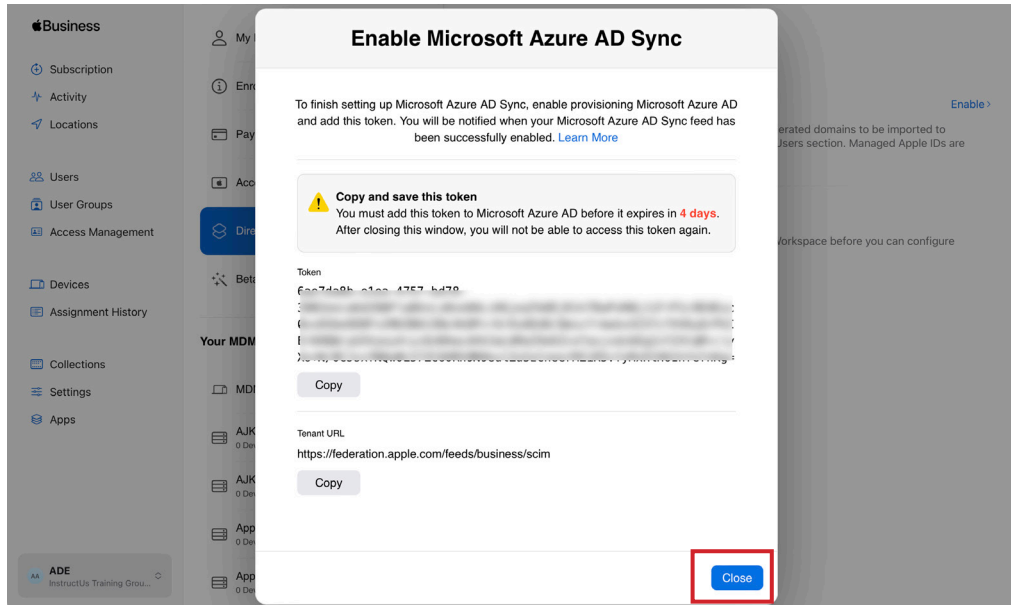
10. Click Save
11. Click Test Connection. If the connection is successful, Apple Business Manager shows the SCIM connection as active. It can take up to 60 seconds to reflect the latest connection status.
12. In the Settings section, enter the email address of an Apple Business Manager Administrator or People Manager,
13. Select the "Send an email notification when a failure occurs" checkbox so they receive any provisioning error notifications.
14. Add additional mappings if required. By default: First Name, Last Name, UPN, Object ID, Department and Employee ID is created. Only use attributes listed by Apple otherwise it may break the SCIM connection. Also do not add user attributes during provisioning.  
NOTE: Please see Addendum on how the attributes are mapped and what is required.
15. Select the scope of users you want to sync:

Sync only assigned users and groups	This option syncs only the accounts that appear in the Apple Business Manager Azure AD app to Apple Business Manager. When using this method to sync, Azure AD accounts must have the role of user to sync to Apple Business Manager.
Sync all users and groups	This option syncs all accounts (syncing groups isn't supported) that appear in the Azure AD User tab to Apple Business Manager and creates Managed Apple IDs for all federated Azure AD accounts, even if you intend to use only a specific number of accounts.

The screenshot shows the 'Provisioning' page in the Microsoft Azure portal. The page title is 'Provisioning' and the breadcrumb trail is 'Home > ms-abmacme (Default Directory) > Enterprise applications | All applications > Apple Business Manager | Provisioning >'. The page contains several sections: 'Admin Credentials' with fields for 'Tenant URL' (https://federation.apple.com/feeds/business/scim) and 'Secret Token' (masked with dots), a 'Test Connection' button, and a 'Notification Email' field (peoplemanager@acme.com). Below this is a checkbox for 'Send an email notification when a failure occurs'. The 'Mappings' section is collapsed. The 'Settings' section includes a 'Provisioning Status' toggle set to 'On' and a 'Scope' dropdown menu currently set to 'Sync only assigned users and groups'. At the bottom, there is a 'Current Status' section showing 'Incremental cycle completed' and a 'Statistics to date' bar chart for 'Users' showing a count of 10,000.



16. Go back to Apple Business Manager. Click Close.



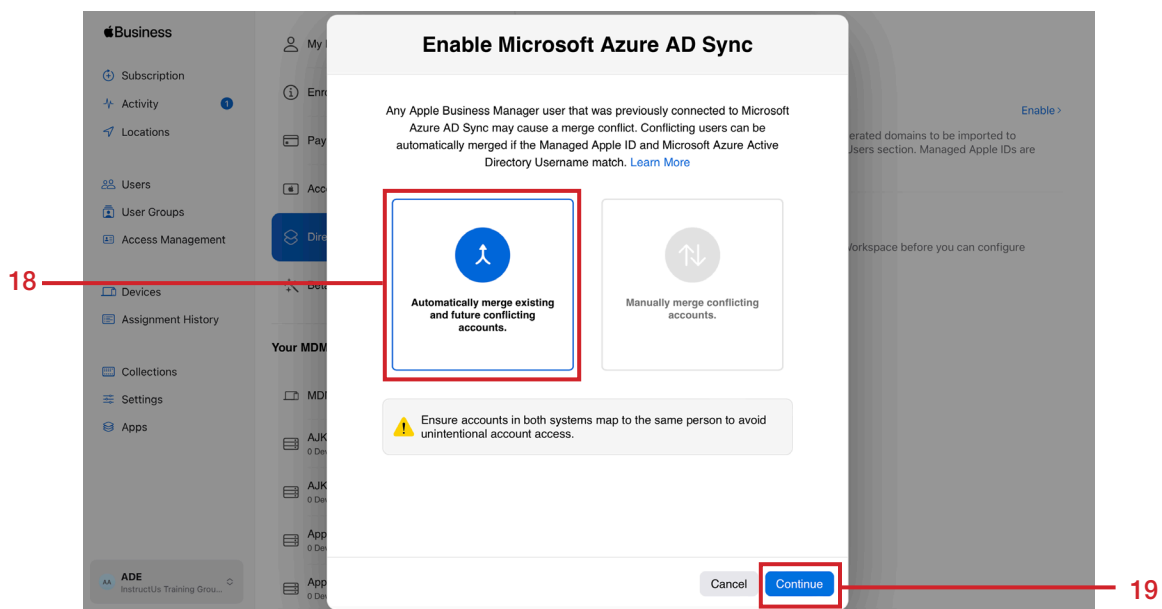
17. Turn on federated authentication, if it isn't turned on already.

18. If automatic merge is turned on, new accounts are merged with existing accounts in Apple Business Manager. When you have automatic merge turned off, all user account conflicts will need to be resolved manually. This guide will use automatic merge.

For more info, please see:

<https://support.apple.com/guide/apple-business-manager/resolve-scim-user-account-conflicts-axm313013d12/1/web/1>

19. Click Continue.

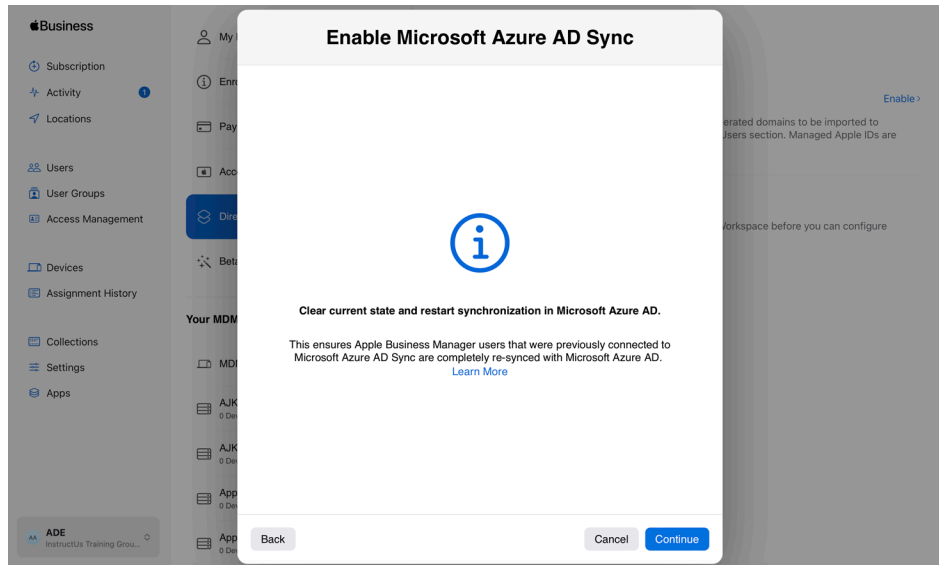




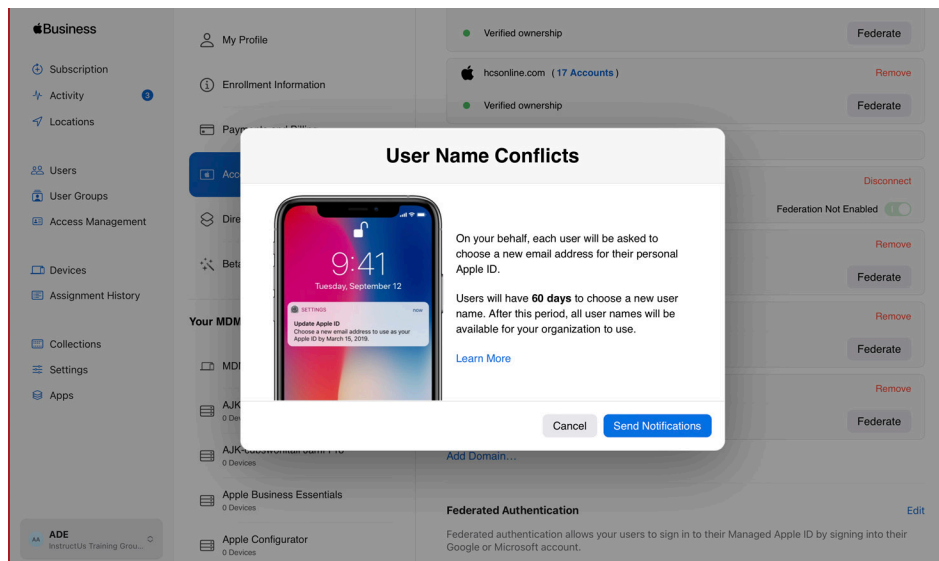


# How to Setup a Federated Connection to Apple Business Manager

20. Click Continue.

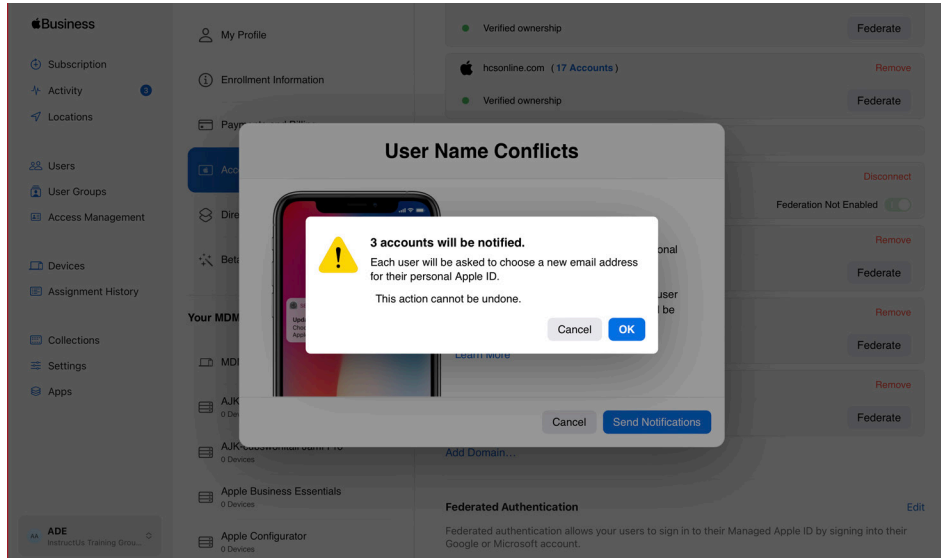


21. Confirm a message appears about User Name Conflicts. Click Send Notifications.





22. If there are any conflicts, you will receive a message on the number of conflicts. Click OK.



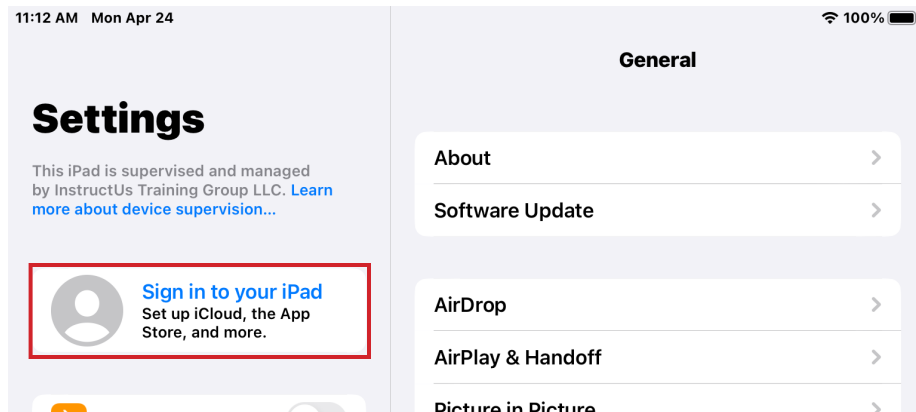


## Section 4: Test a federated account

1. On a device, go to Settings.

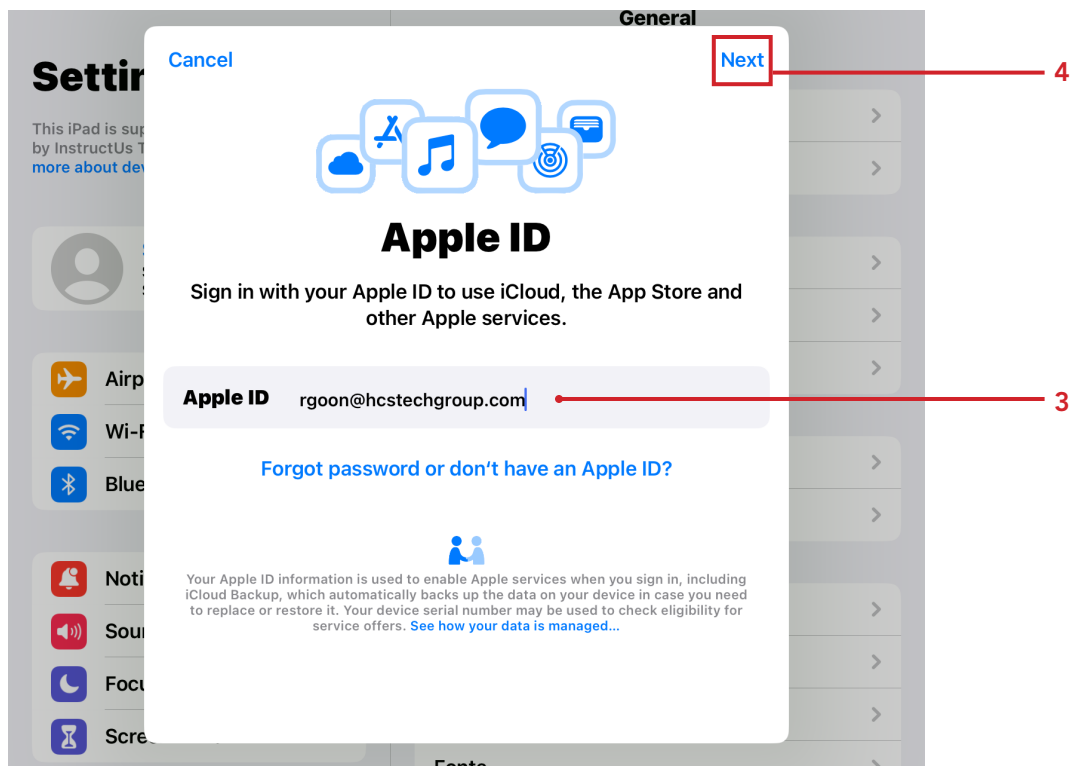


2. Tap Sign in to your iPad.



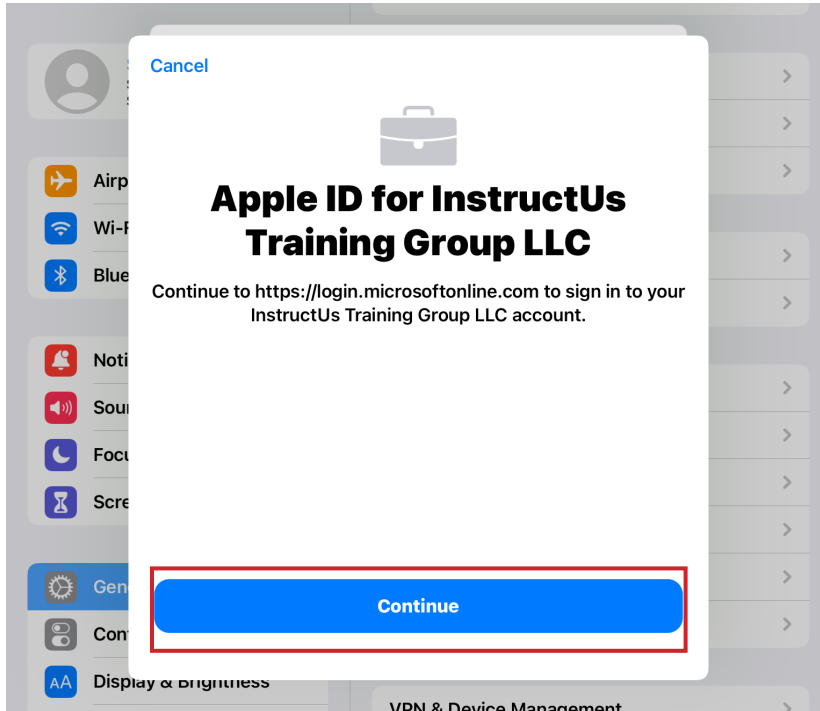
3. Enter the federated account name.

4. Tap Next.



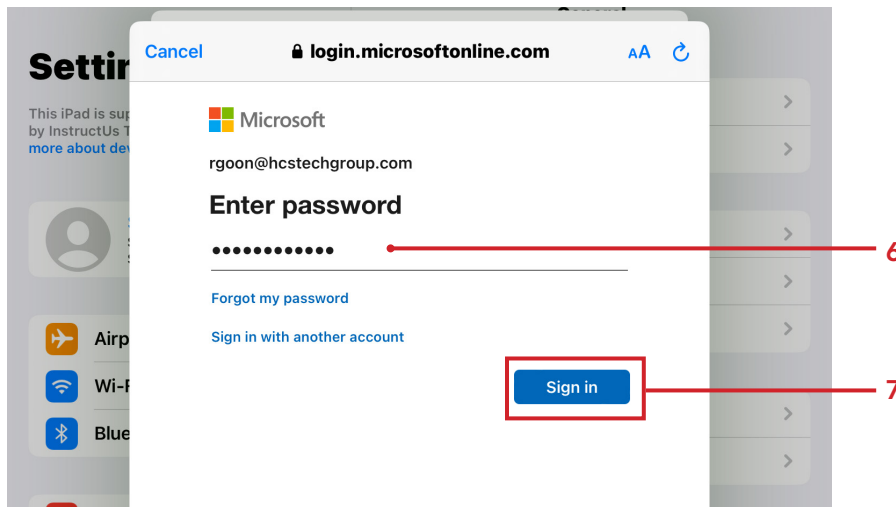


5. Tap Continue.



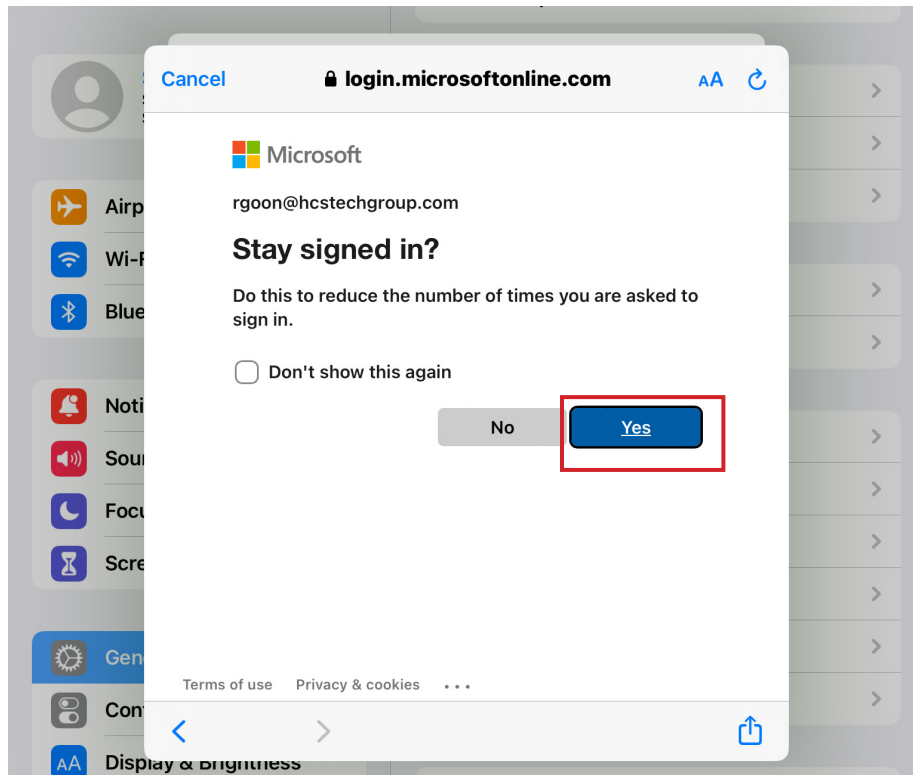
6. Enter the password for the federated account.

7. Tap Sign in.

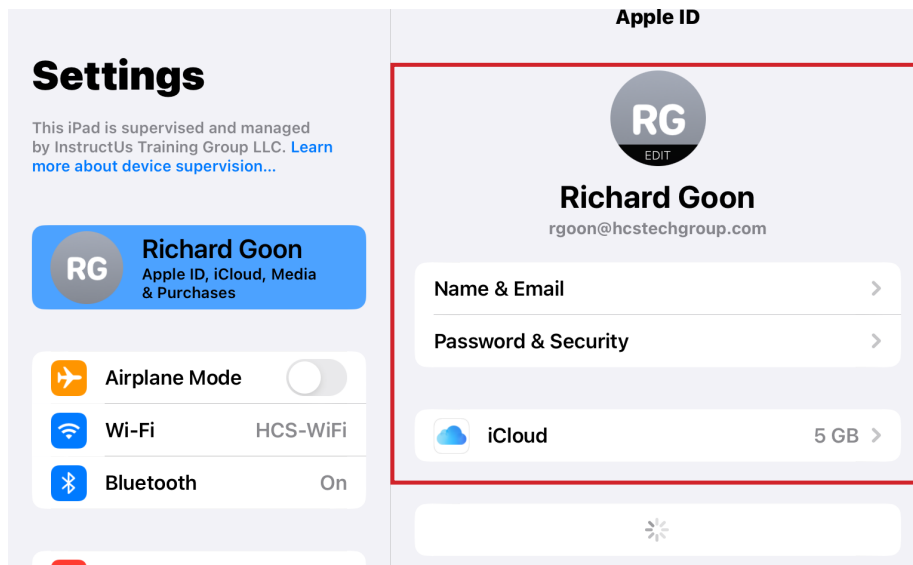




8. Tap Yes.



3. Confirm you are signed in with your federated - managed Apple ID.





### Addendum: SCIM user attribute mapping

When an account is copied from Azure AD using SCIM to Apple Business Essentials, the following user attributes are stored as read-only.

NOTE: Adding attributes not listed in the table breaks the SCIM connection.

Azure AD	Apple Business Essentials	Required
First Name	First Name	✓
Last Name	Last Name	✓
User Principal Name	Managed Apple ID and email address	✓
Object ID	(Not shown in Apple Business Essentials. This attribute is used to identify conflicting accounts.)	✓
Department	Department	✗
Employee ID	Person Number	✗
Custom attribute (must be created in the Apple Business Manager Azure AD app)	Cost Center	✗
Custom attribute (must be created in the Apple Business Manager Azure AD app)	Division	✗