

MS-100

Day 1: Directory Synchronization

Lab book

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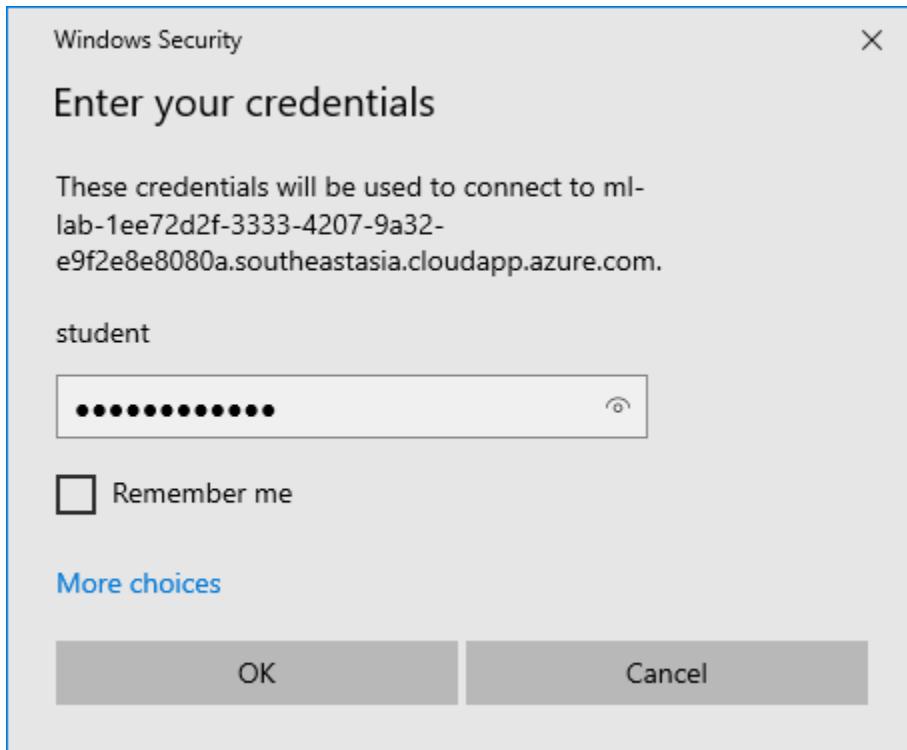
1 Start your lab VM

Sign in to <https://labs.azure.com>, and start your lab VM

The screenshot shows a web browser window titled "My virtual machines - Azure Lab". The address bar displays "labs.azure.com/virtualmachines". Below the header, there's a navigation bar with icons for back, forward, and search, followed by the text "Azure Lab Services". The main content area is titled "My virtual machines" and lists one item: "Microsoft 365". The card for "Microsoft 365" includes the Windows logo, a progress bar indicating "1.9 / 20 hour(s) used", a "Running" status indicator with a blue toggle switch, and a three-dot ellipsis menu icon.

Connect the VM as

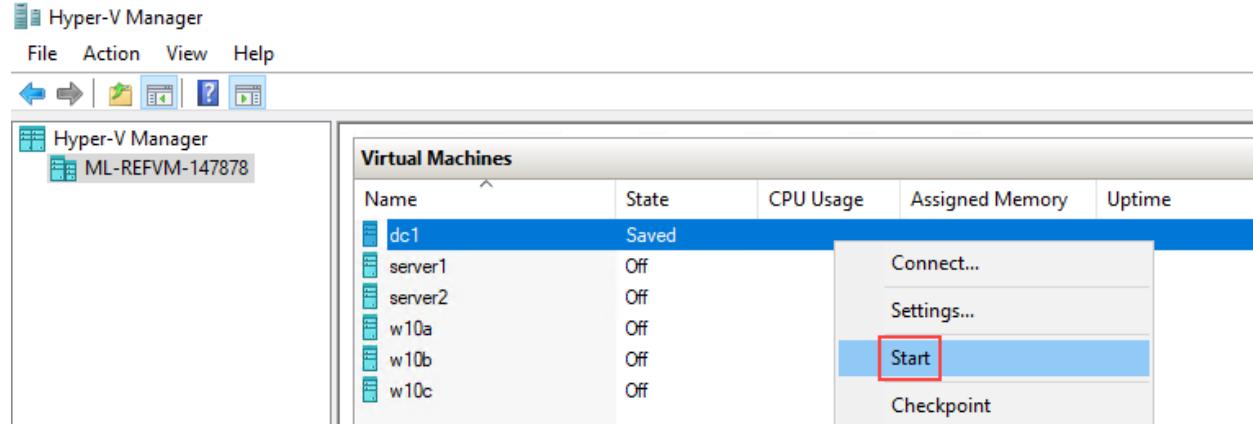
- Username = student
- Password = Password1234



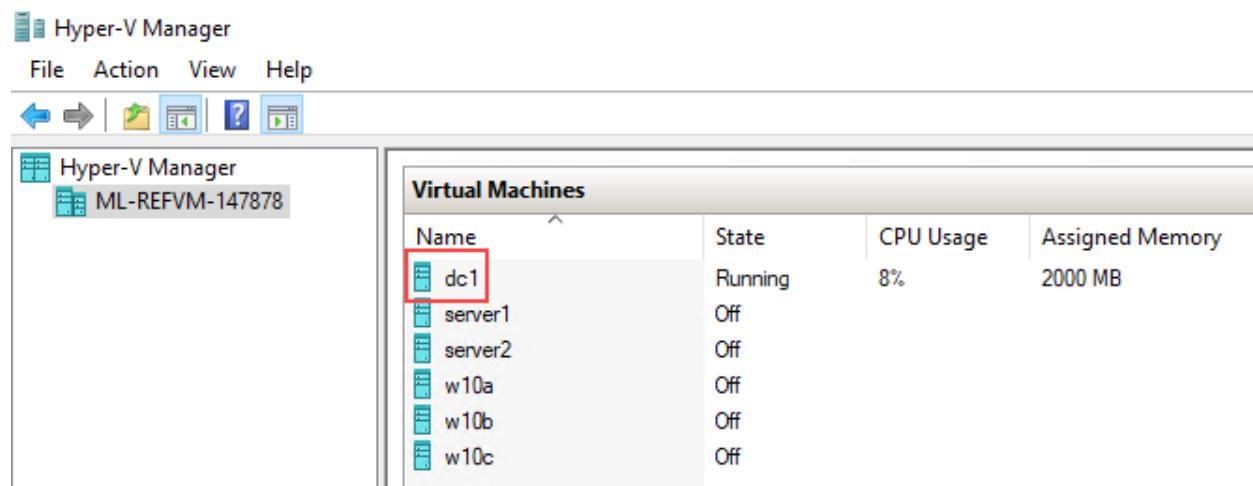
2 Directory synchronization

2.1 Run IdFix

1. On Hyper-V host, start dc1 (if it's not running)

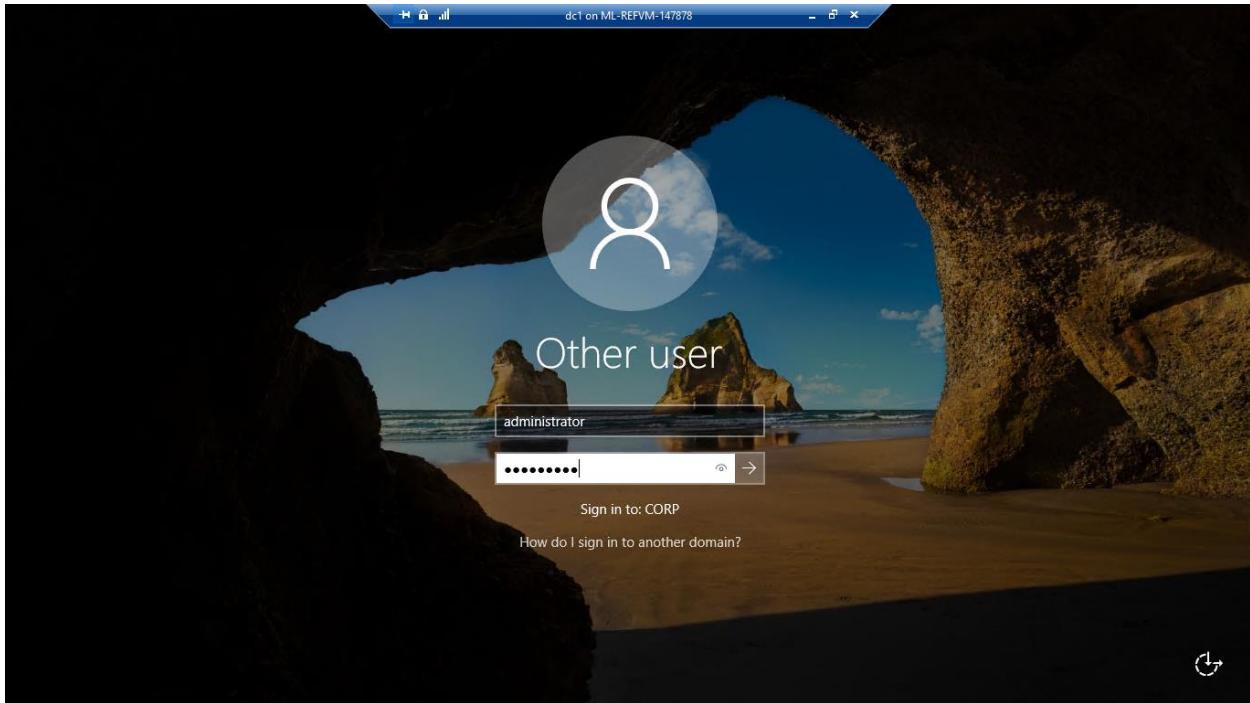


Connect dc1



2. On dc1, sign in as

- Username = Administrator
- Password = Password1



Install IdFix from <https://github.com/Microsoft/idfix>

IdFix : Directory Synchronization Error Remediation Tool

IdFix is used to perform discovery and remediation of identity objects and their attributes in an on-premises Active Directory environment in preparation for migration to Azure Active Directory. IdFix is intended for the Active Directory administrators responsible for directory synchronization with Azure Active Directory.

The purpose of IdFix is to reduce the time involved in remediating the Active Directory errors reported by Azure AD Connect. Our focus is on enabling the customer to accomplish the task in a simple expedient fashion without relying upon subject matter experts.

The Microsoft Office 365 IdFix tool provides the customer with the ability to identify and remediate object errors in their Active Directory in preparation for deployment to Azure Active Directory or Office 365. They will then be able to successfully synchronize users, contacts, and groups from the on-premises Active Directory into Azure Active Directory.

ClickOnce Launch

You can [launch](#) the application using the ClickOnce installer. Download and run the setup.exe file to install IdFix on your machine.

setup.exe

3. Click Query

Verify that IdFix detects user accounts those have non-routeable UPN

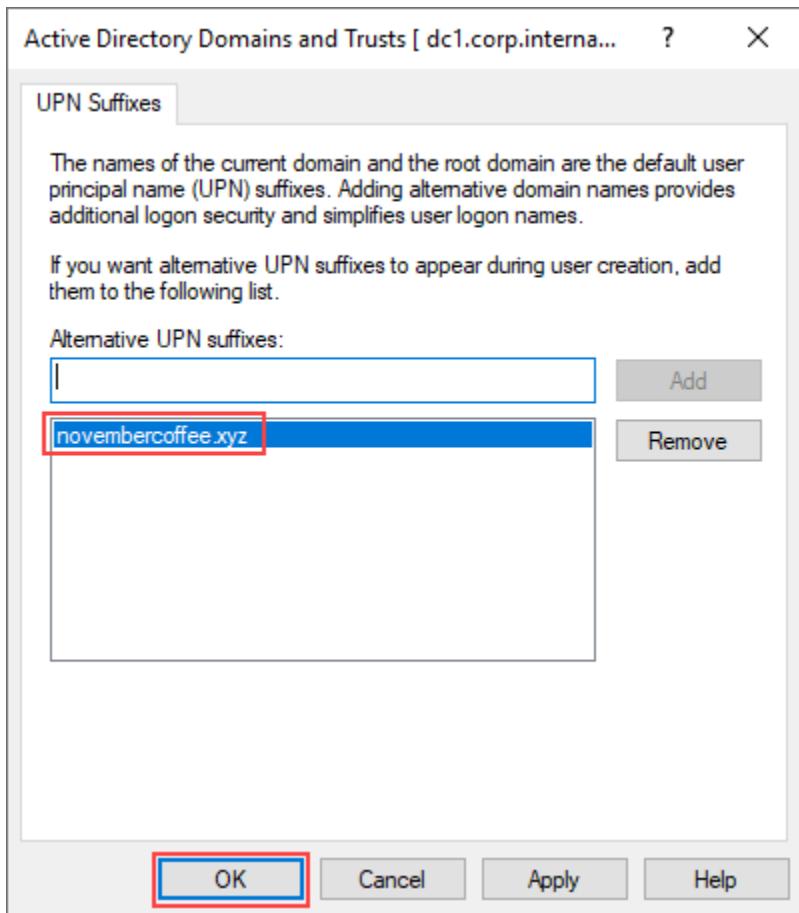
DISTINGUISHEDNAME	OBJECTCLASS	ATTRIBUTE	ERROR	VALUE	UPDATE	ACTION
CH=user1.O=All Users,DC=corp,DC=internal	user	userPrincipalName	TopLevelDomain	user1@corp.internal	user1@corp.internal	
CH=user2.O=All Users,DC=corp,DC=internal	user	userPrincipalName	TopLevelDomain	user2@corp.internal	user2@corp.internal	
CH=user3.O=All Users,DC=corp,DC=internal	user	userPrincipalName	TopLevelDomain	user3@corp.internal	user3@corp.internal	

2.2 Fix non-routable UPN issues

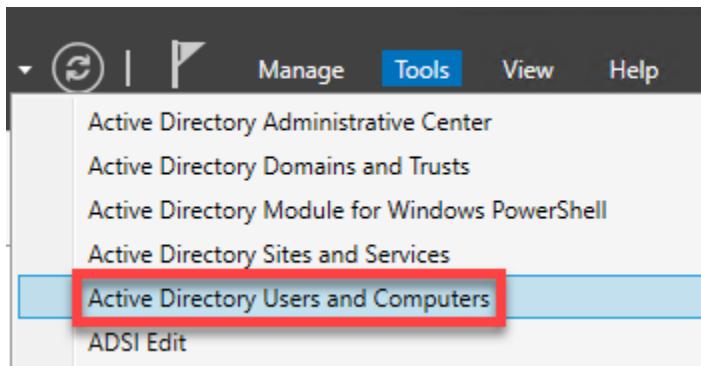
1. On dc1, open AD Domains and Trusts

Right click Properties

Add yourdomain.xyz, and click OK



2. Open AD Users and Computers



Select

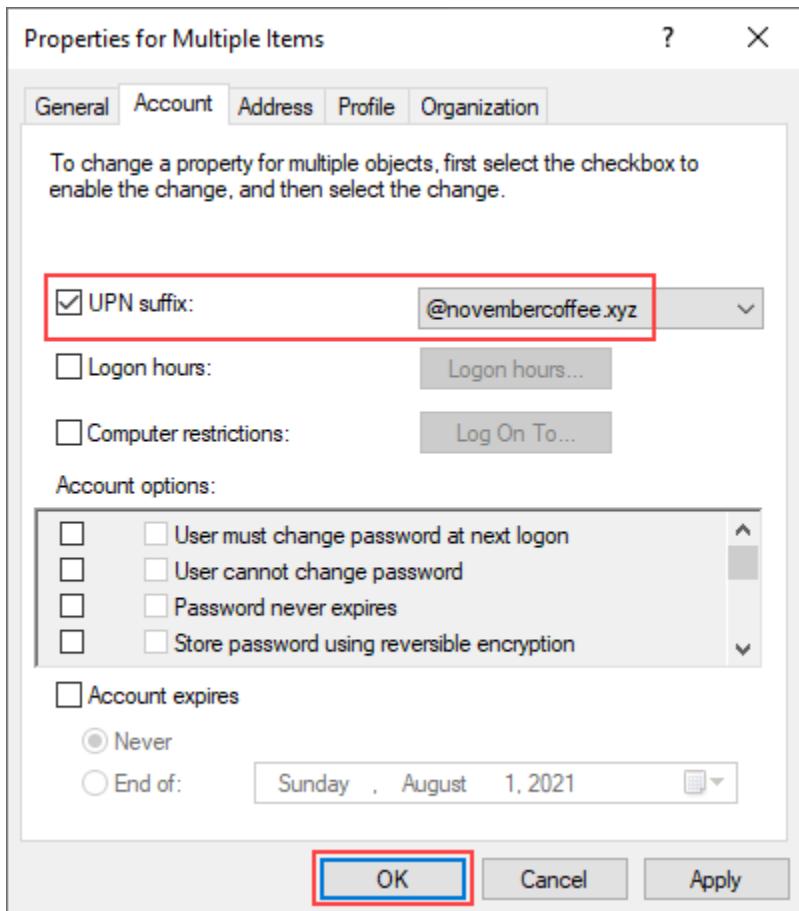
- User1
- User2
- User3

And open Properties

The screenshot shows the Windows Active Directory Users and Computers management console. The title bar reads "Active Directory Users and Computers" and "dc1 on ML-REFVM-147878". The left navigation pane shows the tree structure of the domain: "Active Directory Users and Computers [dc1.corp.internal]", "Saved Queries", and "corp.internal" which is expanded to show "All Clients", "All Groups", "All Servers", "All Users" (which is selected), "Builtin", "Computers", "Domain Controllers", "ForeignSecurityPrincipals", "Managed Service Accounts", and "Users". The main pane displays a table of users with three entries: "user1" (User), "user2" (User), and "user3" (User). A context menu is open over the "user1" row, listing options: "Add to a group...", "Disable Account", "Enable Account", "Move...", "Open Home Page", "Send Mail", "All Tasks", "Cut", "Delete", "Properties" (which is highlighted with a red box), and "Help".

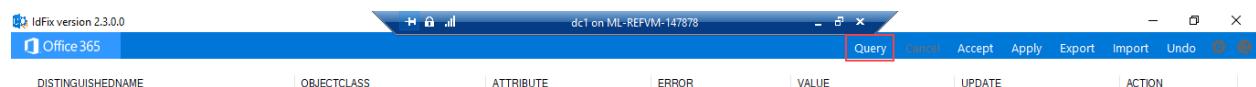
Name	Type	Description
user1	User	Add to a group... Disable Account Enable Account Move... Open Home Page Send Mail All Tasks > Cut Delete Properties Help
user2	User	
user3	User	

Assign @yourdomain.xyz as the new UPN suffix



3. On IdFix, click Query again

Verify non-routable UPN issues were resolved



2.3 Directory Synchronization

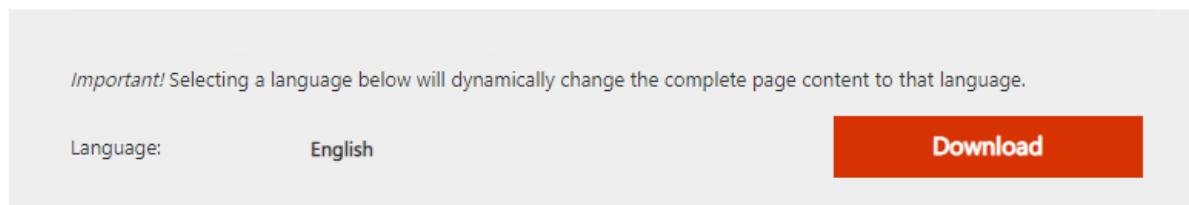
2.3.1 Install and configure Azure AD Connect

1. On dc1

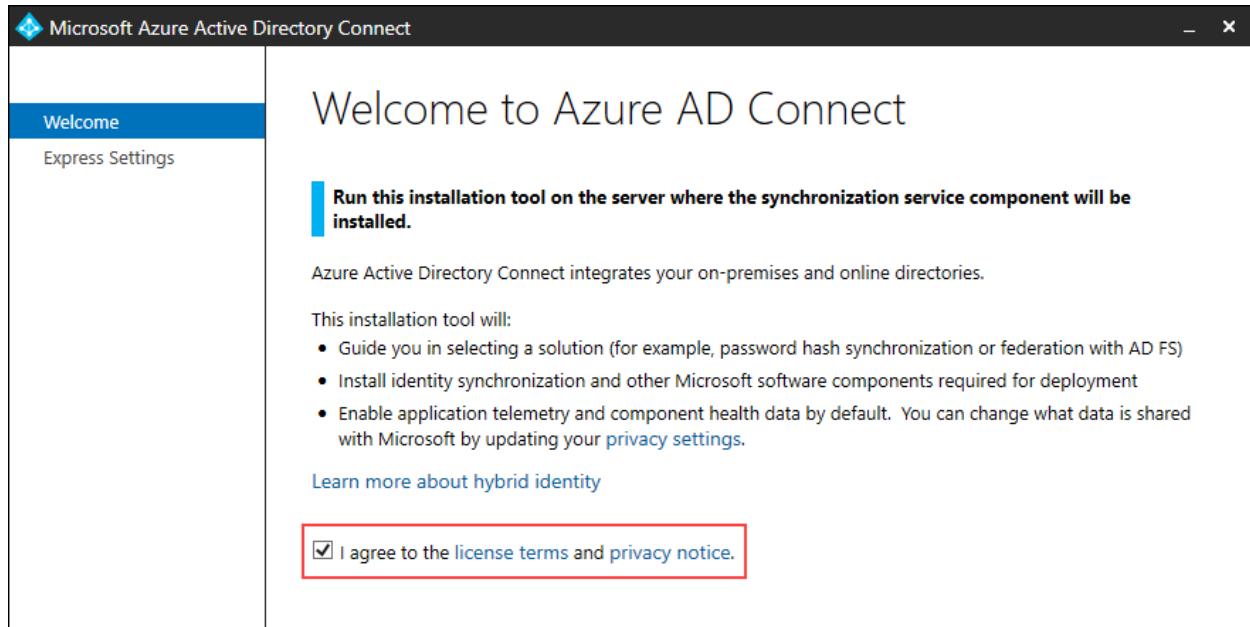
Download and install Azure Active Directory Connect from <https://www.microsoft.com/en-us/download/details.aspx?id=47594>

Note: It's not recommended to install Azure AD Connect on the DC !!!

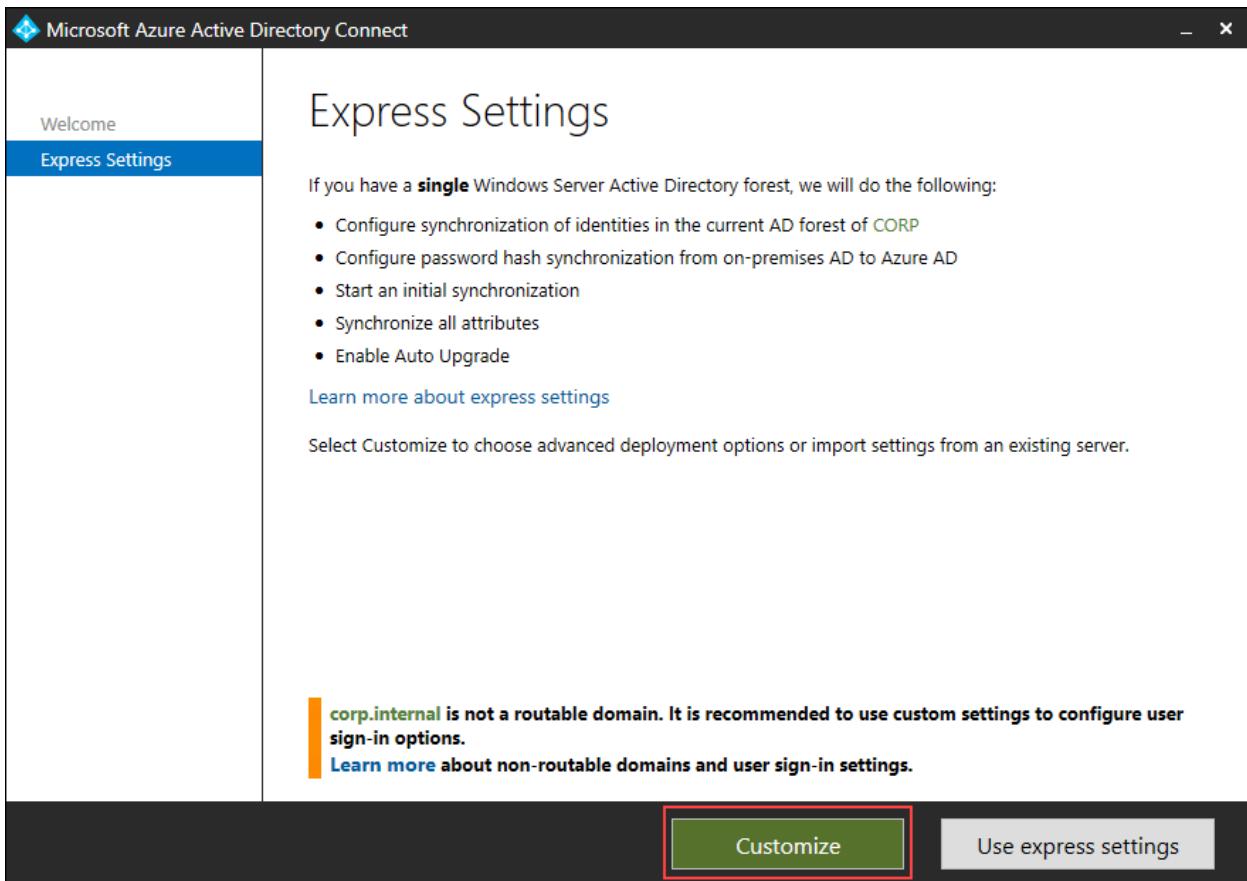
Microsoft Azure Active Directory Connect



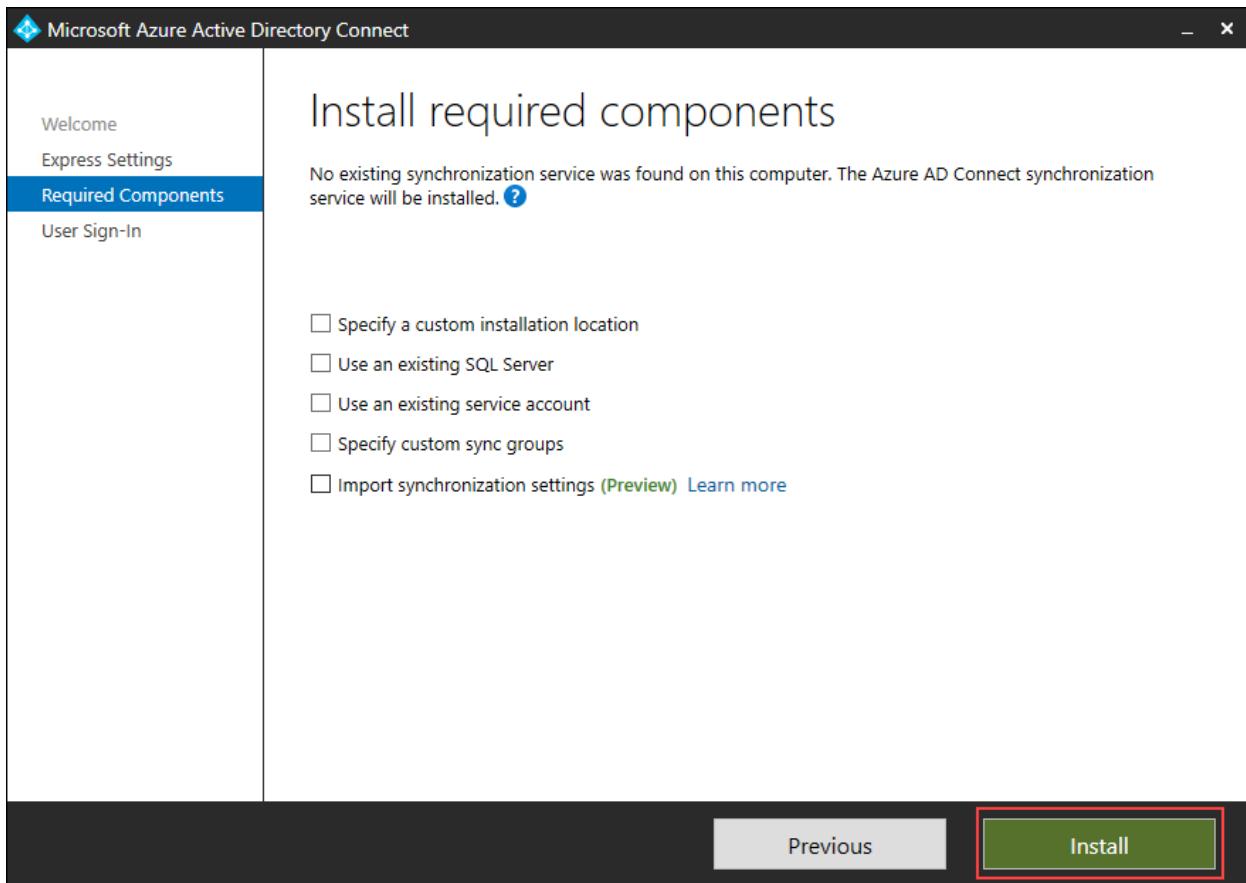
2. Agree the license terms, and click Next



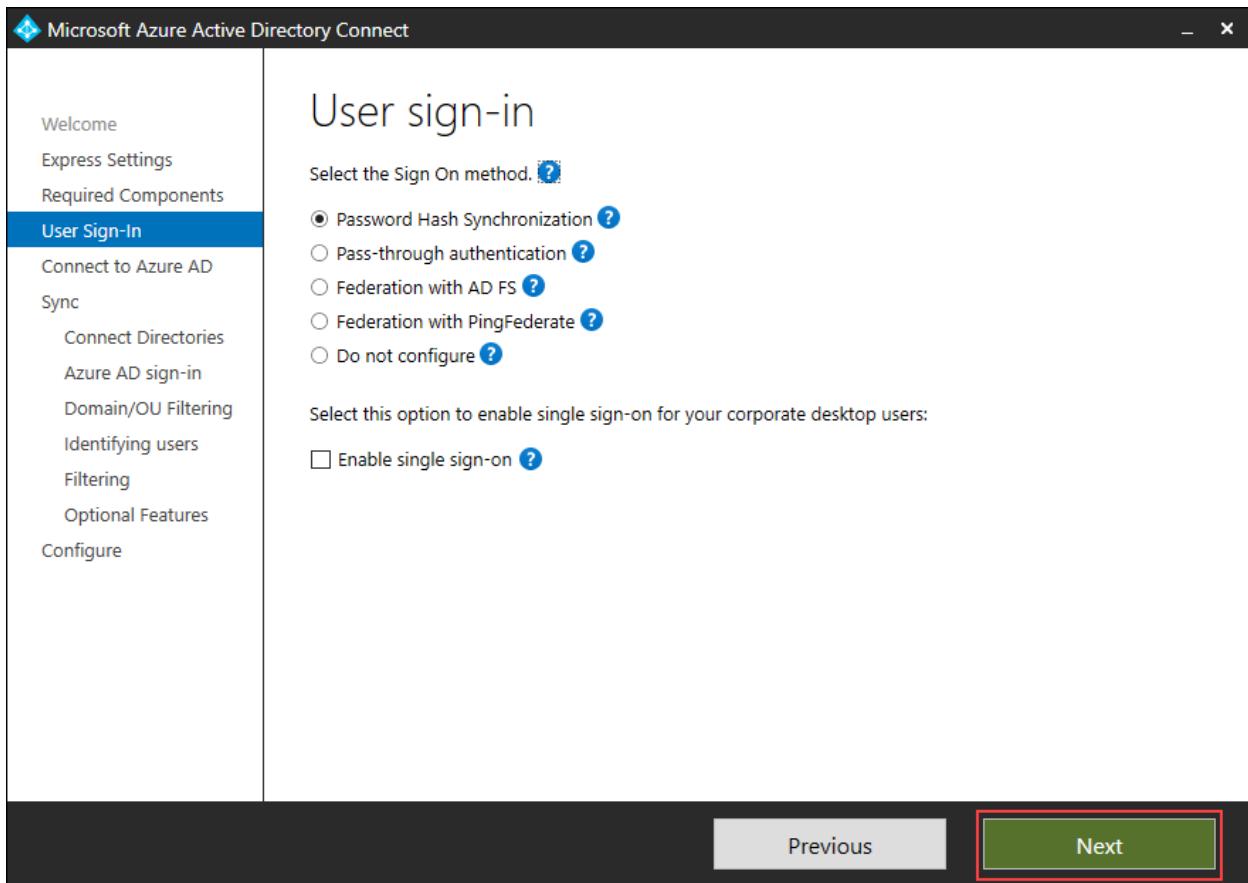
3. Click Customize



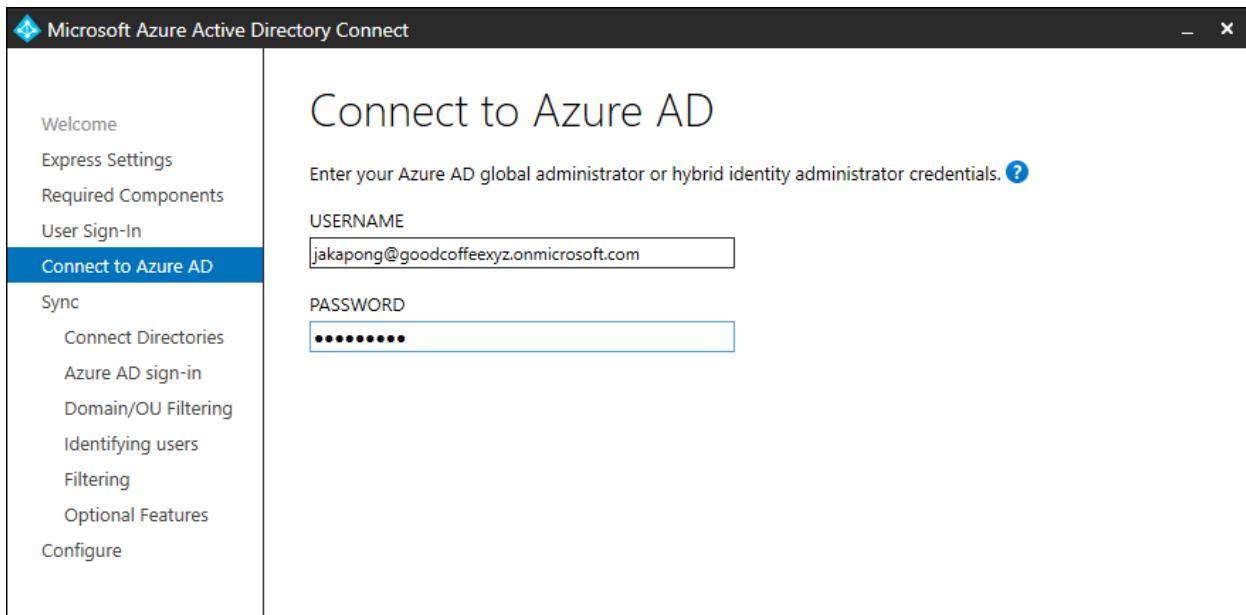
Click Next



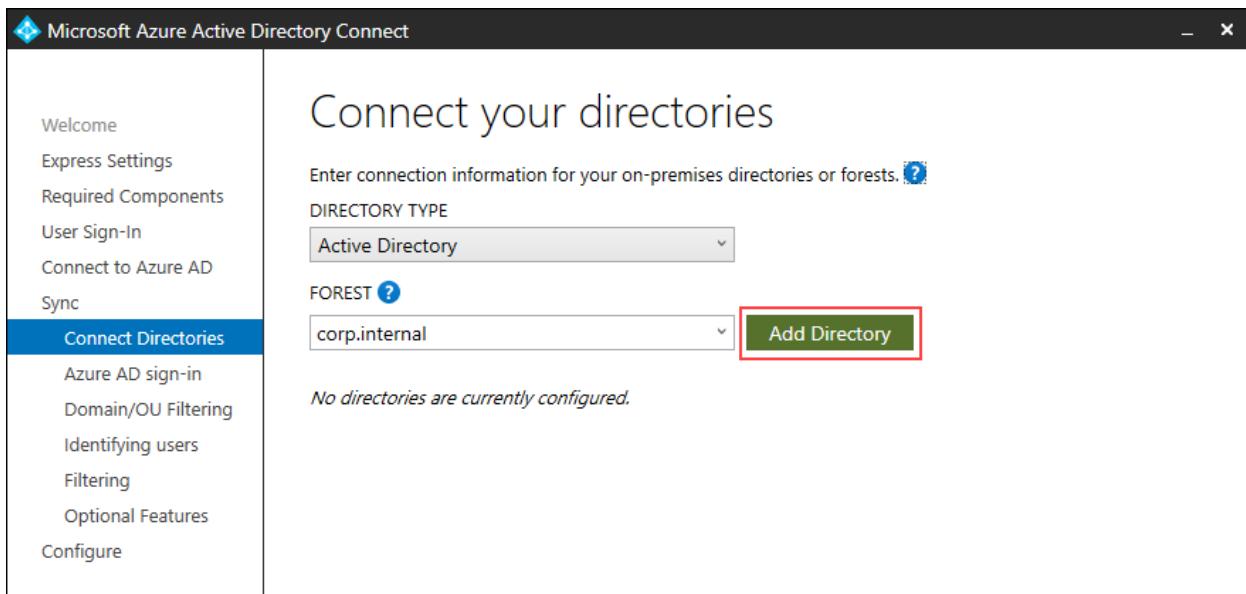
4. Select Password Hash Synchronization, and click Next



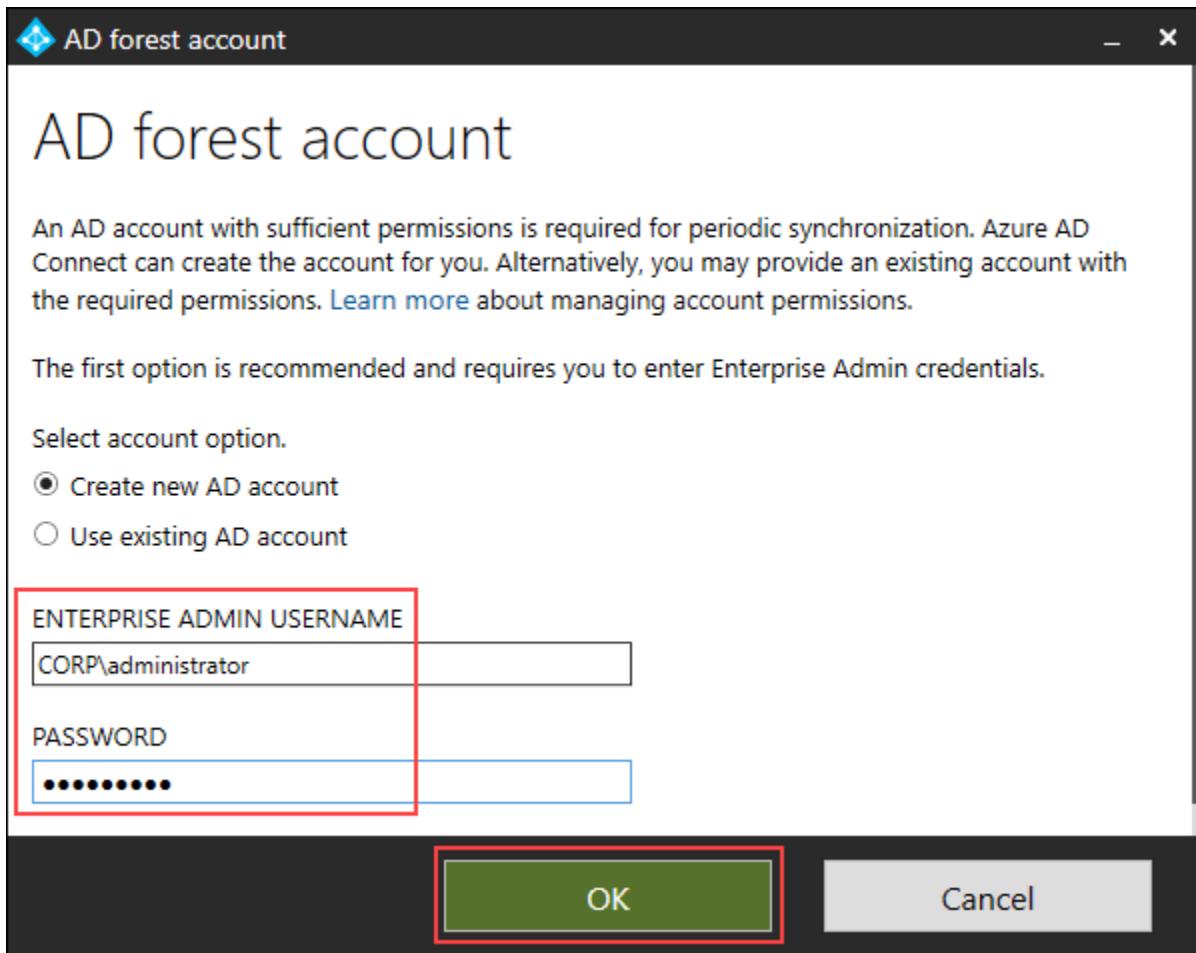
5. Enter your Azure AD global administrator (ex. yourname@yourdomainxyz.onmicrosoft.com)



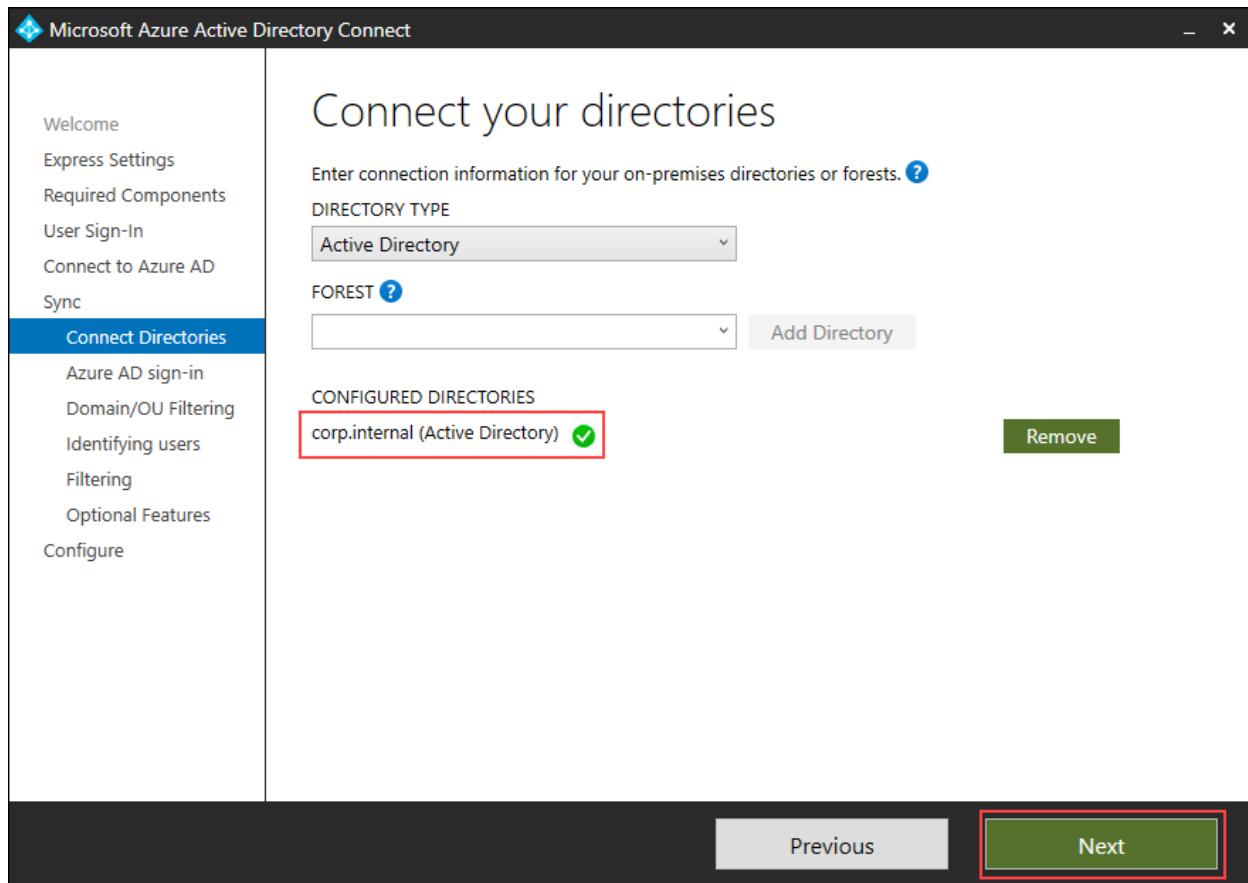
6. Add Directory



Enter your Enterprise Admin credential (corp\administrator with Password1)



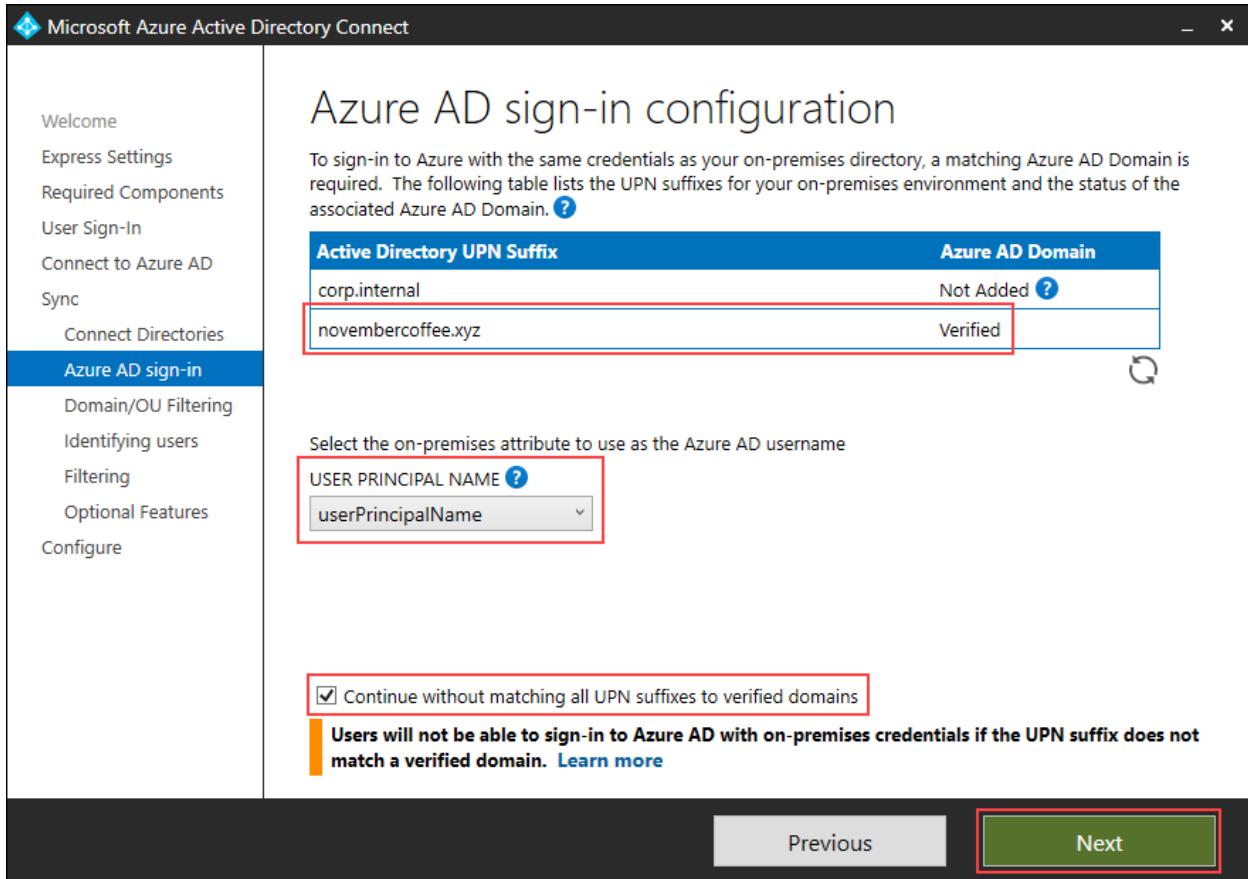
Verify corp.internal has been added, and click Next



7. Verify yourdomain.xyz has been verified in Microsoft 365

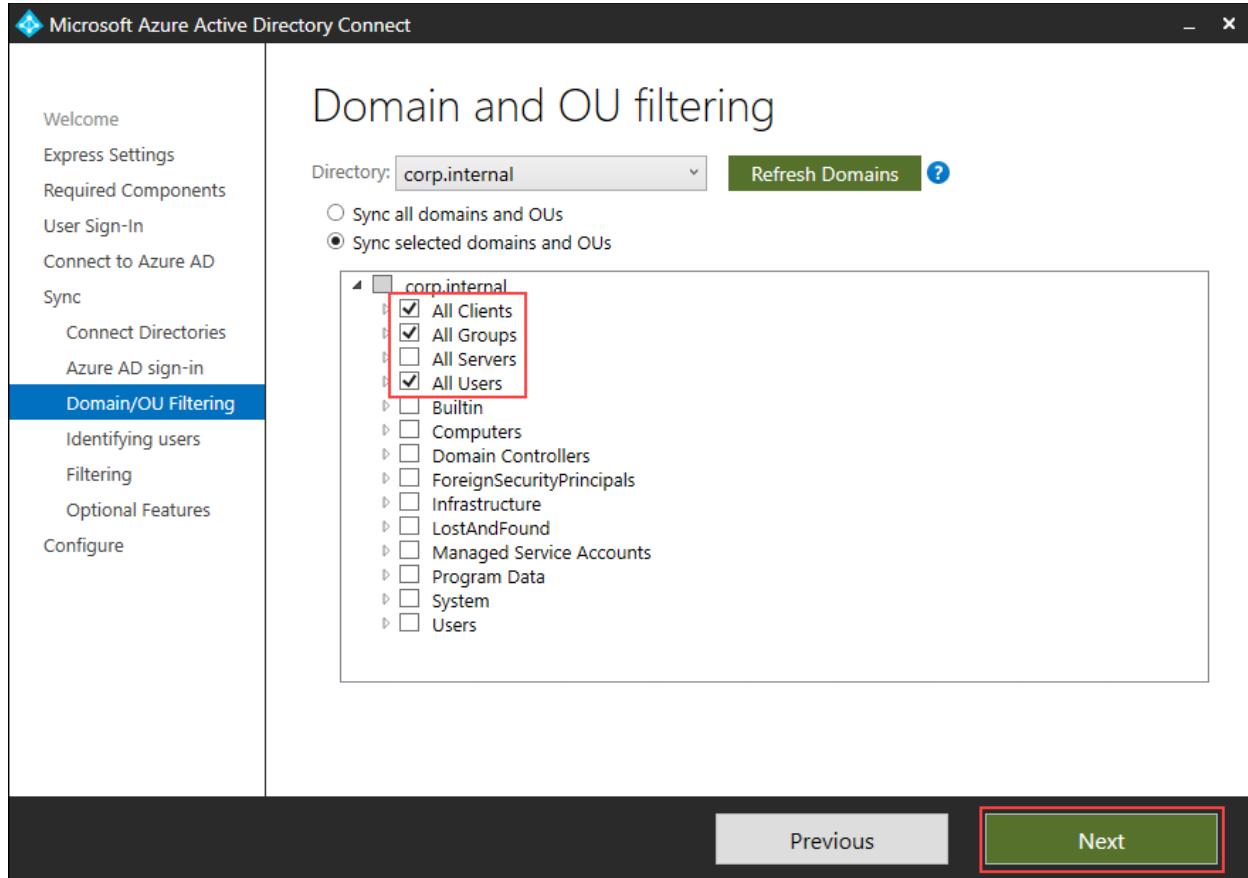
Use UPN to be the username in Azure AD

Select “Continue without matching all UPN suffixes to verified domains”, and click Next



8. Select the following OUs to be synchronized to Azure AD

- All Clients
- All Groups
- All Users



[Next](#)

The screenshot shows the Microsoft Azure Active Directory Connect wizard window. The title bar says "Microsoft Azure Active Directory Connect". The left sidebar has a blue header "Identifying users" and a list of options: Welcome, Express Settings, Required Components, User Sign-In, Connect to Azure AD, Sync, Connect Directories, Azure AD sign-in, Domain/OU Filtering, Identifying users (which is selected), Filtering, Optional Features, and Configure.

The main content area has a heading "Uniquely identifying your users". It asks "Select how users should be identified in your on-premises directories." There are two radio button options:

- 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

Below this, it asks "Select how users should be identified with Azure AD." There are also two radio button options:

- Let Azure manage the source anchor
- Choose a specific attribute

A note at the bottom states: "Azure will write back unique source anchors to your on-premises directory if mS-DS-ConsistencyGuid is currently unused by your organization. [Learn more](#)"

[Next](#)

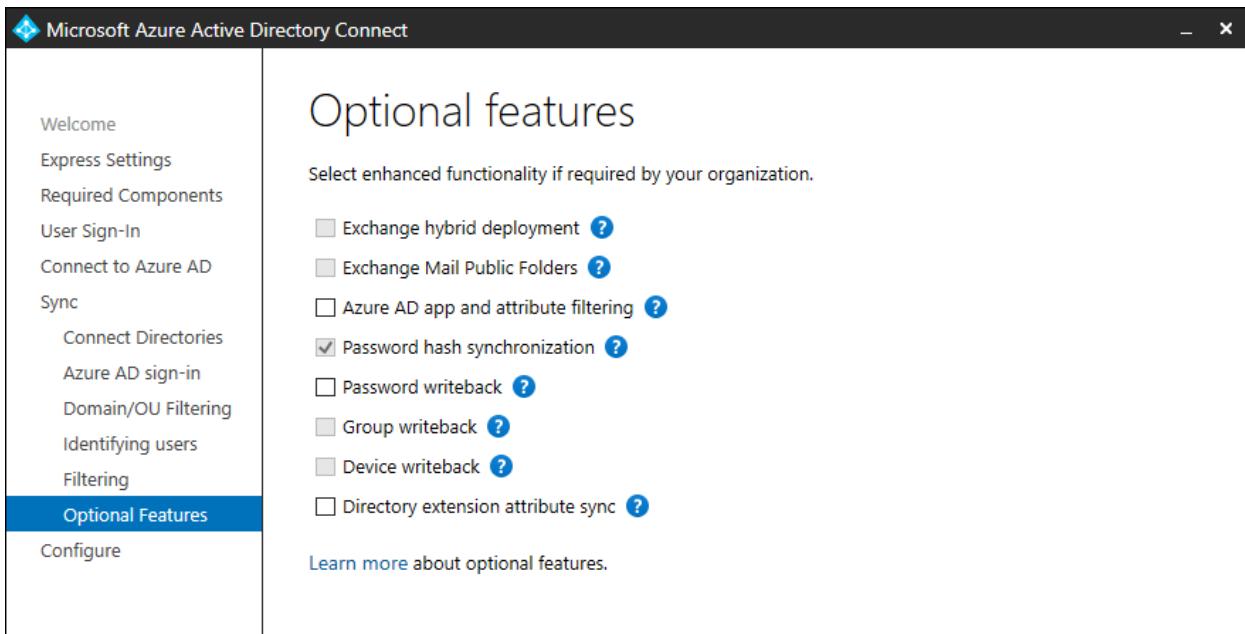
The screenshot shows the Microsoft Azure Active Directory Connect wizard window. The title bar says "Microsoft Azure Active Directory Connect". The left sidebar has a blue header "Filtering" and a list of options: Welcome, Express Settings, Required Components, User Sign-In, Connect to Azure AD, Sync, Connect Directories, Azure AD sign-in, Domain/OU Filtering, Identifying users, Filtering (which is selected), Optional Features, and Configure.

The main content area has a heading "Filter users and devices". It says "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." There are two radio button options:

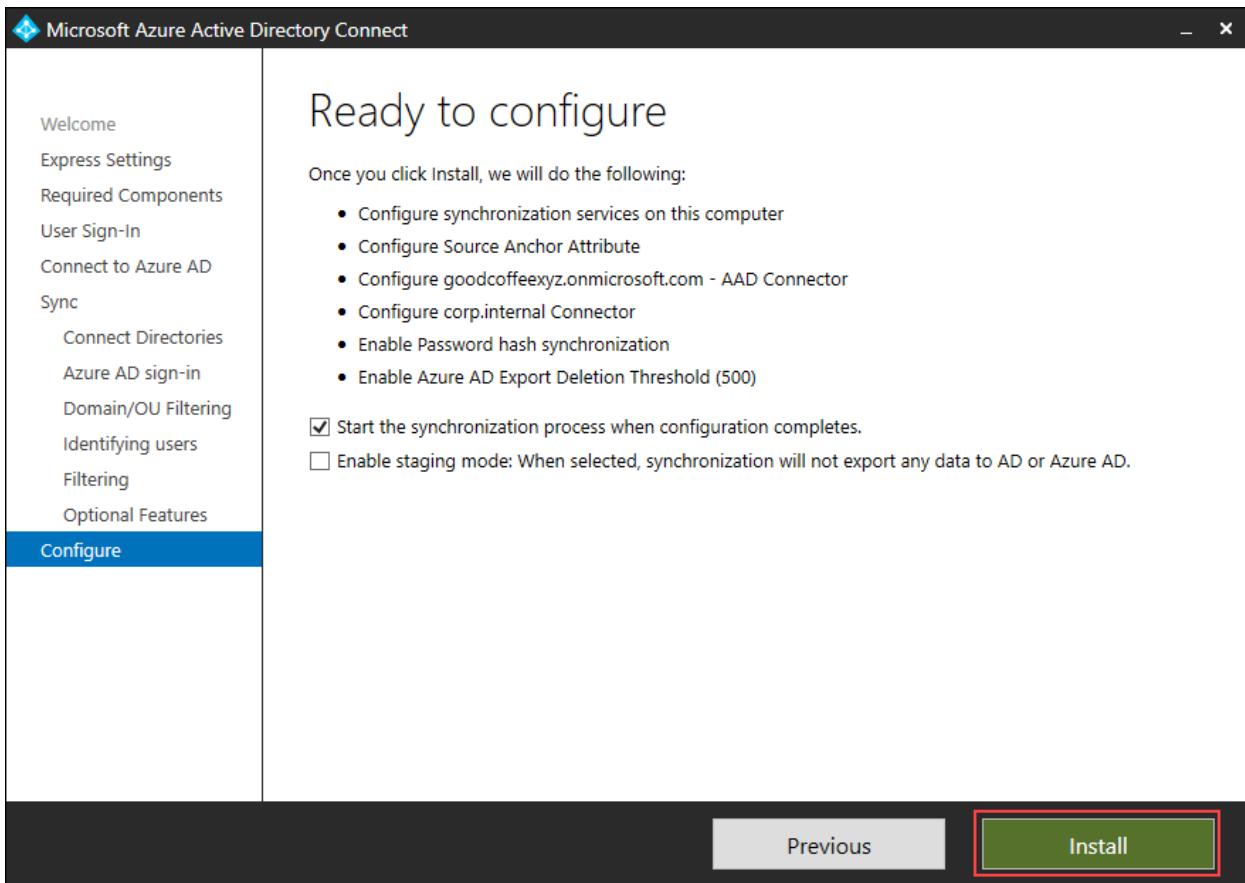
- Synchronize all users and devices
- Synchronize selected [?](#)

Below this, there are two input fields: "FOREST" with "corp.internal" and "GROUP" with an input field "Enter a name or DN of a group" and a "Resolve" button.

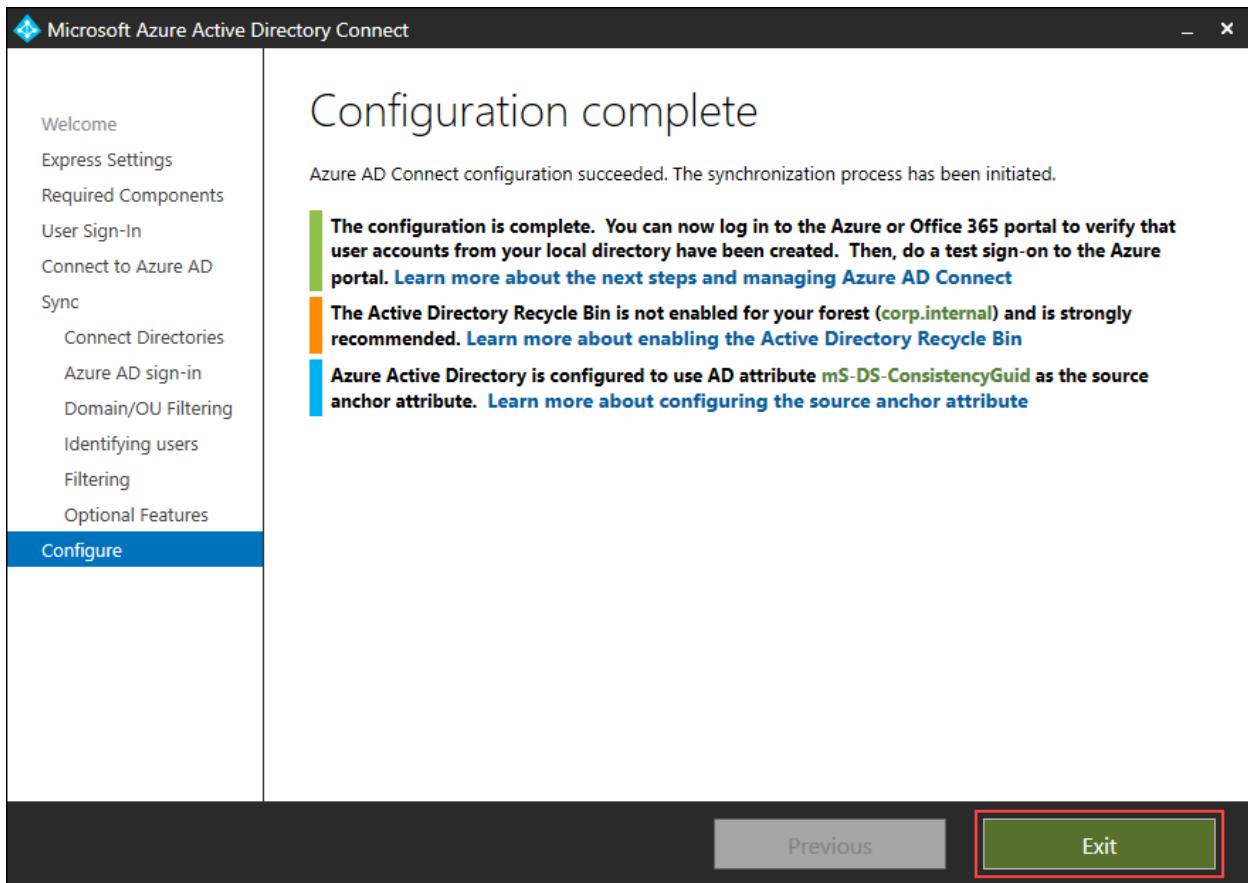
Next



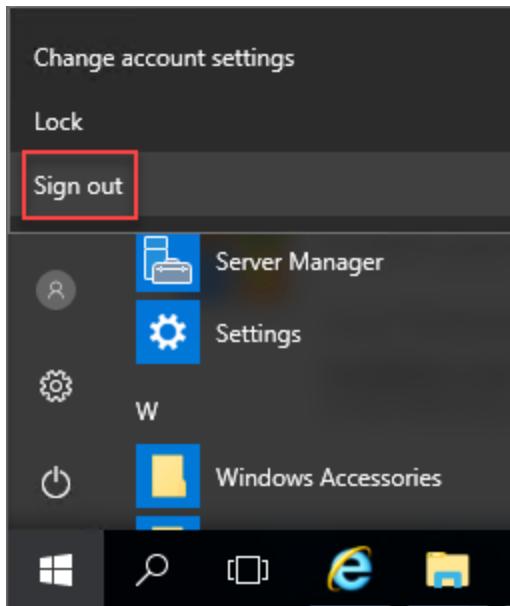
9. Click Install



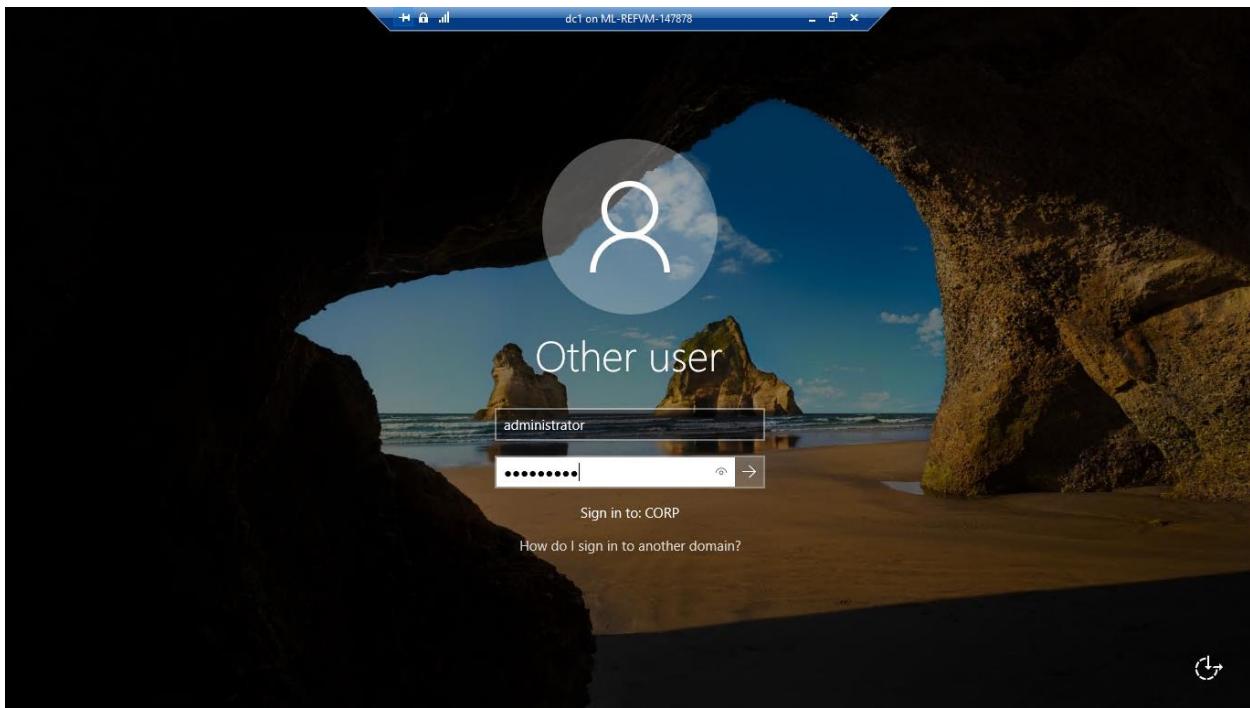
Click Exit



10. Sign out dc1

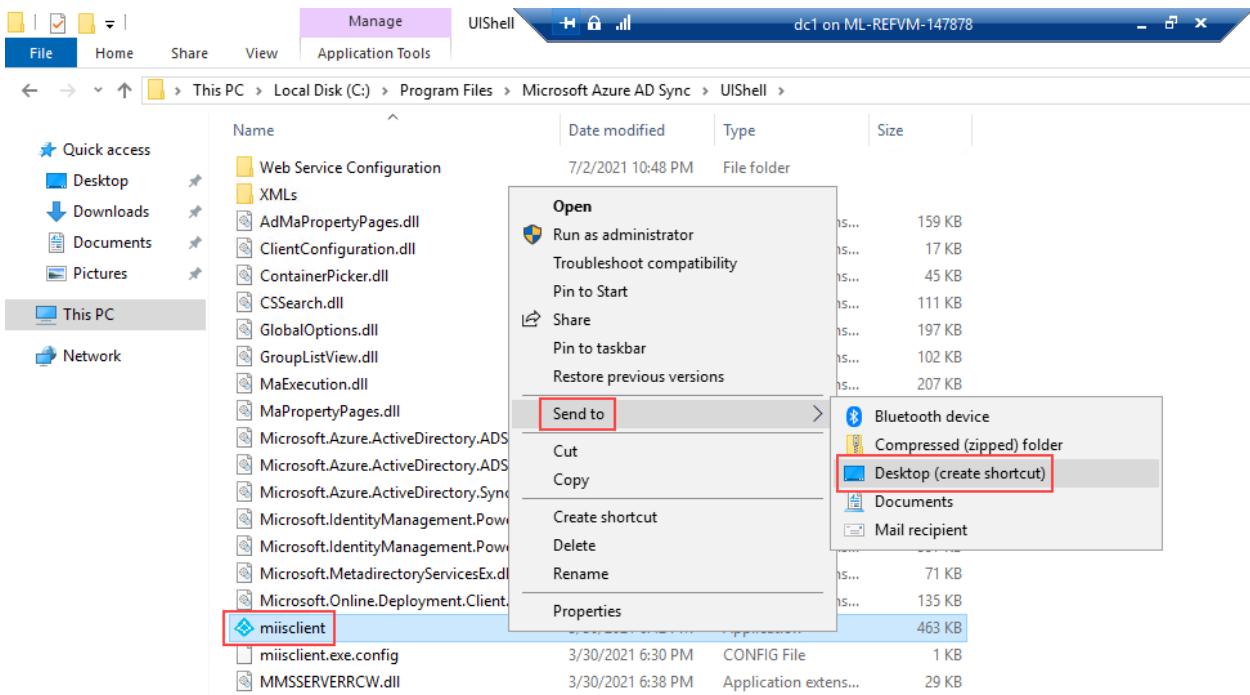


11. And sign in dc1 again

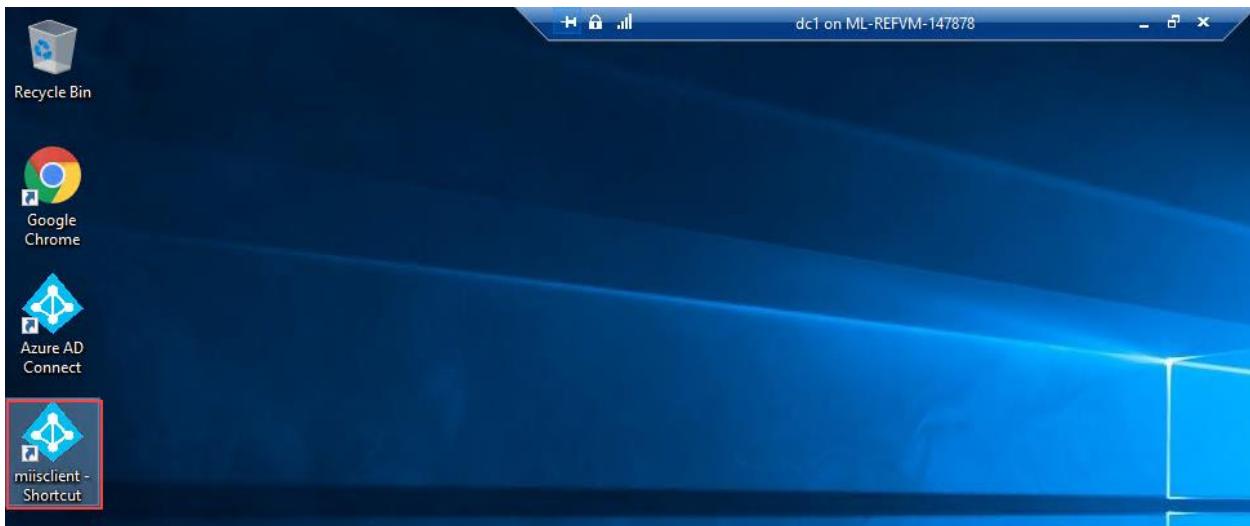


12. Open "C:\Program Files\Microsoft Azure AD Sync\UIShell" folder

And create a shortcut for miisclient



13. Open miisclient



14. Review there are 6 synchronization events were logged

Click Corp.internal > Full Import > Adds > 10

Verify objects those have been synchronized to Azure AD

Synchronization Service Manager on DC1

File Tools Actions Help

Operations Connectors Metaverse Designer Metaverse Search

Connector Operations

Name	Profile Name	Status	Start Time	End Time
corp.internal	Export	success	7/2/2021 11:04:43 PM	7/2/2021 11:04:43 PM
goodcoffeexyz.onmicrosoft.com	Export	success	7/2/2021 11:04:17 PM	7/2/2021 11:04:40 PM
goodcoffeexyz.onmicrosoft.com	Full Synchronization	success	7/2/2021 11:04:13 PM	7/2/2021 11:04:17 PM
corp.internal	Full Synchronization	success	7/2/2021 11:04:07 PM	7/2/2021 11:04:13 PM
goodcoffeexyz.onmicrosoft.com	Full Import	completed-no-objects	7/2/2021 11:03:56 PM	7/2/2021 11:04:06 PM
corp.internal	Full Import	success	7/2/2021 11:03:50 PM	7/2/2021 11:03:54 PM

Object Details

Total objects retrieved: 10

Distinguished Name

- DC=corp,DC=internal
- OU=All Users,DC=corp,DC=internal
- OU=All Groups,DC=corp,DC=internal
- CN=W10C,OU=All Clients,DC=corp,DC=internal
- CN=W10B,OU=All Clients,DC=corp,DC=internal
- CN=W10A,OU=All Clients,DC=corp,DC=internal
- OU=All Clients,DC=corp,DC=internal
- CN=user1,OU=All Users,DC=corp,DC=internal
- CN=user2,OU=All Users,DC=corp,DC=internal
- CN=user3,OU=All Users,DC=corp,DC=internal

Profile Name: Full Import User Name: CORP\ADSyncMSA_9030\$
Step Type: Full Import (Stage Only)
Start Time: 7/2/2021 11:03:50 PM

Synchronization Statistics

Staging	End Time
Unchanged	0
Adds	10
Updates	0
Renames	0
Deletes	0

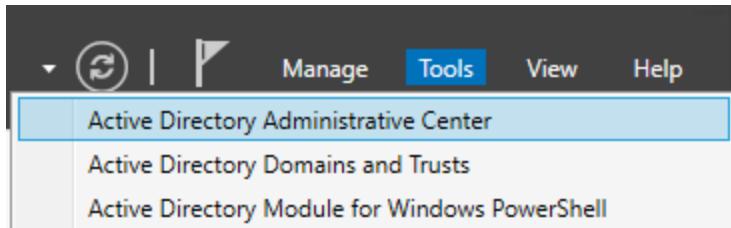
Discovery

Filtered Objects
183

Properties... Refresh Close

2.3.2 Enable AD Recycle Bin

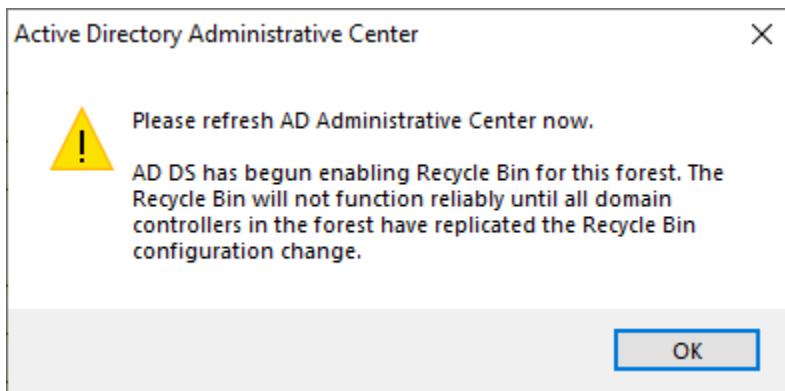
- On dc1, open AD Administrative Center



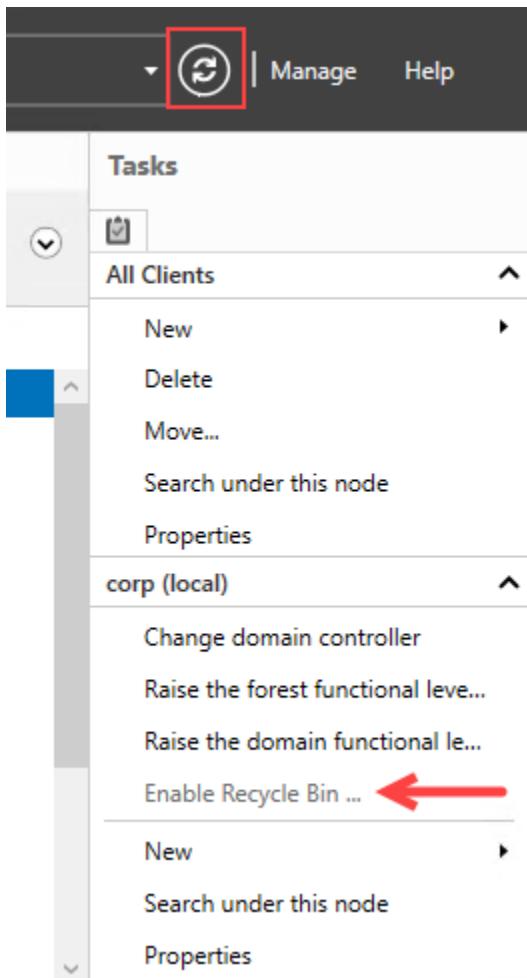
Enable Recycle Bin

This screenshot shows the 'corp (local)' container list in the Active Directory Administrative Center. A confirmation dialog box titled 'Enable Recycle Bin Confirmation' is displayed in the center, asking 'Are you sure you want to perform this action? Once Recycle Bin has been enabled, it cannot be disabled.' The 'OK' button is highlighted with a red box. On the right side, a 'Tasks' pane is open under 'corp (local)', showing options like 'New', 'Delete', and 'Enable Recycle Bin ...' (which is also highlighted with a red box).

Click OK



2. Refresh and verify “Enable Recycle bin” is gray color



2.3.3 Verify directory synchronization

In Microsoft 365 admin center, verify on-premises users have been synchronized to Office 365

Note: click Choose columns to see view more columns you need

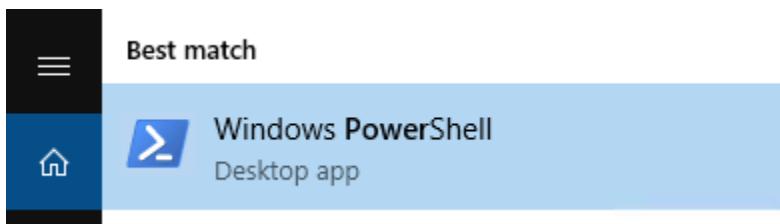
The screenshot shows the Microsoft 365 Admin Center interface. On the left, there's a navigation sidebar with Home, Users (selected), Groups, Billing, and Setup. Under Users, Active users is selected. The main area is titled "Active users". It has a search bar and several action buttons: Add a user, User templates, Add multiple users, Multi-factor authentication, Filter, and a "Search active users list" input field. Below these are four columns: Display name, Username, Licenses, and Sync status. The sync status column contains icons for cloud and on-premises. A "Choose columns" button is located at the top right of this section. A red box highlights this button. Another red box highlights the list of users: user1, user2, and user3.

Display name	Username	Licenses	Sync status
clouduser 01	clouduser01@novembercoffee.xyz	Office 365 E3	
On-Premises Directory Synchroniza...	Sync_DC1_9030f06d8000@goodcoffeexyz.onmicrosoft.com	Unlicensed	
poiu tyre	jakapong@goodcoffeexyz.onmicrosoft.com	Office 365 E3	
user1	user1@novembercoffee.xyz	Unlicensed	
user2	user2@novembercoffee.xyz	Unlicensed	
user3	user3@novembercoffee.xyz	Unlicensed	

2.4 Work with the synchronization schedule

2.4.1 View synchronization schedule

On dc1, open Windows PowerShell



Run

Get-ADSyncScheduler

Verify the synced scheduler is every 30 minutes

```
PS C:\> Get-ADSyncScheduler

AllowedSyncCycleInterval      : 00:30:00
CurrentlyEffectiveSyncCycleInterval : 00:30:00
CustomizedSyncCycleInterval    :
NextSyncCyclePolicyType       : Delta
NextSyncCycleStartTimeInUTC   : 7/2/2021 4:33:47 PM
PurgeRunHistoryInterval       : 7.00:00:00
SyncCycleEnabled               : True
MaintenanceEnabled            : True
StagingModeEnabled             : False
SchedulerSuspended             : False
SyncCycleInProgress            : False

PS C:\> ■
```

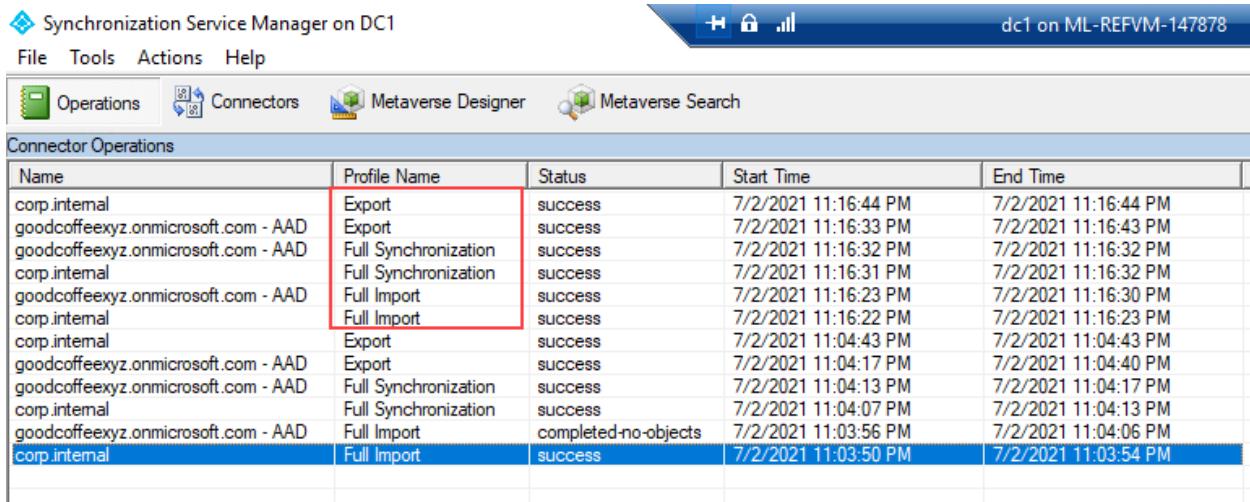
2.4.2 Force full synchronization

On dc1, run

```
Start-ADSyncSyncCycle -PolicyType Initial
```

```
PS C:\> Start-ADSyncSyncCycle -PolicyType Initial
Result
-----
Success
```

Verify there are 6 events were logged for FULL SYNC



The screenshot shows the Synchronization Service Manager interface on a server named dc1. The main window title is "Synchronization Service Manager on DC1". The top menu bar includes File, Tools, Actions, and Help. Below the menu is a toolbar with icons for Operations, Connectors, Metaverse Designer, and Metaverse Search. The main content area is titled "Connector Operations" and displays a table of log entries. The table has columns: Name, Profile Name, Status, Start Time, and End Time. The "Profile Name" column for the first six entries is highlighted with a red border. The log entries are as follows:

Name	Profile Name	Status	Start Time	End Time
corp.intemal	Export	success	7/2/2021 11:16:44 PM	7/2/2021 11:16:44 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:16:33 PM	7/2/2021 11:16:43 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization	success	7/2/2021 11:16:32 PM	7/2/2021 11:16:32 PM
corp.intemal	Full Synchronization	success	7/2/2021 11:16:31 PM	7/2/2021 11:16:32 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Import	success	7/2/2021 11:16:23 PM	7/2/2021 11:16:30 PM
corp.intemal	Full Import	success	7/2/2021 11:16:22 PM	7/2/2021 11:16:23 PM
corp.intemal	Export	success	7/2/2021 11:04:43 PM	7/2/2021 11:04:43 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:04:17 PM	7/2/2021 11:04:40 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization	success	7/2/2021 11:04:13 PM	7/2/2021 11:04:17 PM
corp.intemal	Full Synchronization	success	7/2/2021 11:04:07 PM	7/2/2021 11:04:13 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Import	completed-no-objects	7/2/2021 11:03:56 PM	7/2/2021 11:04:06 PM
corp.intemal	Full Import	success	7/2/2021 11:03:50 PM	7/2/2021 11:03:54 PM

2.4.3 Force incremental synchronization

On dc1, run

```
Start-adsyncsyncycle
```

```
PS C:\> Start-adsyncsyncycle
```

```
Result
```

```
-----
```

```
Success
```

```
PS C:\> ■
```

Verify there are 6 events were logged for DELTA SYNC

Synchronization Service Manager on DC1

File Tools Actions Help

Operations Connectors Metaverse Designer Metaverse Search

Connector Operations

Name	Profile Name	Status	Start Time	End Time
corp.intemal	Export	success	7/2/2021 11:17:45 PM	7/2/2021 11:17:45 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:17:36 PM	7/2/2021 11:17:45 PM
goodcoffeexyz.onmicrosoft.com - AAD	Delta Synchronization	success	7/2/2021 11:17:36 PM	7/2/2021 11:17:36 PM
corp.intemal	Delta Synchronization	success	7/2/2021 11:17:35 PM	7/2/2021 11:17:35 PM
goodcoffeexyz.onmicrosoft.com - AAD	Delta Import	success	7/2/2021 11:17:30 PM	7/2/2021 11:17:35 PM
corp.intemal	Delta Import	success	7/2/2021 11:17:29 PM	7/2/2021 11:17:29 PM
corp.intemal	Export	success	7/2/2021 11:16:44 PM	7/2/2021 11:16:44 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:16:33 PM	7/2/2021 11:16:43 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization	success	7/2/2021 11:16:32 PM	7/2/2021 11:16:32 PM
corp.intemal	Full Synchronization	success	7/2/2021 11:16:31 PM	7/2/2021 11:16:32 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Import	success	7/2/2021 11:16:23 PM	7/2/2021 11:16:30 PM
corp.intemal	Full Import	success	7/2/2021 11:16:22 PM	7/2/2021 11:16:23 PM
corp.intemal	Export	success	7/2/2021 11:04:43 PM	7/2/2021 11:04:43 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:04:17 PM	7/2/2021 11:04:40 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization	success	7/2/2021 11:04:13 PM	7/2/2021 11:04:17 PM
corp.intemal	Full Synchronization	success	7/2/2021 11:04:07 PM	7/2/2021 11:04:13 PM
goodcoffeexyz.onmicrosoft.com - AAD	Full Import	completed-no-objects	7/2/2021 11:03:56 PM	7/2/2021 11:04:06 PM
corp.intemal	Full Import	success	7/2/2021 11:03:50 PM	7/2/2021 11:03:54 PM

Profile Name: Full Import User Name: CORP\ADSyncMSA_9030f\$

Step Type: Full Import (Stage Only) **Partition:** DC=corp,DC=intemal
Start Time: 7/2/2021 11:03:50 PM **End Time:** 7/2/2021 11:03:54 PM **Status:** success

Synchronization Statistics

Staging	
Unchanged	0
Adds	10
Updates	0
Renames	0
Deletes	0

Discovery

Filtered Objects	183
------------------	-----

Connection Status

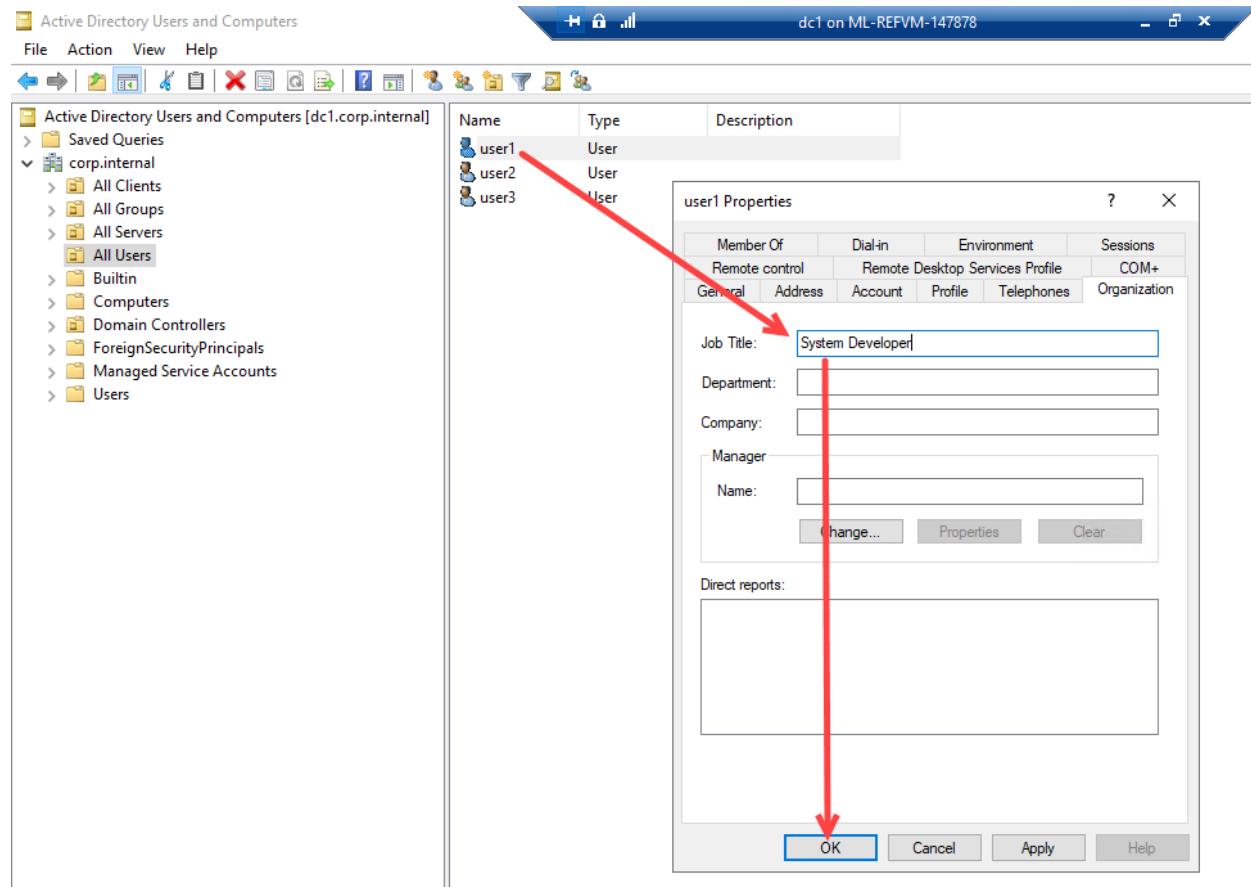
dc1.corp.intemal:389	success
----------------------	---------

Synchronization Errors

--

2.5 Test synchronization

1. On dc1, add Job title to User1



2. Run

```
Start-adsyncsynccycle
```

```
PS C:\> Start-adsyncsynccycle

Result
-----
Success

PS C:\>
```

3. Verify user1's job title is DELTA synced to Azure AD

User1's job title has been imported to the connector space

Synchronization Service Manager on DC1

File Tools Actions Help

Operations Connectors Metaverse Designer Metaverse Search

Connector Operations

Name	Profile Name	Status	Start Time	End Time
corp internal	Export	success	7/2/2021 11:20:34 PM	7/2/2021 11:20:34 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:20:24 PM	7/2/2021 11:20:34 PM
goodcoffeexyz.onmicrosoft.com - AAD	Delta Synchronization	success	7/2/2021 11:20:23 PM	7/2/2021 11:20:23 PM
corp internal	Delta Synchronization	success	7/2/2021 11:20:20 PM	7/2/2021 11:20:20 PM
goodcoffeexyz.onmicrosoft.com - AAD	Delta Import	success	7/2/2021 11:20:15 PM	7/2/2021 11:20:15 PM
corp internal	Delta Import	success	7/2/2021 11:20:14 PM	7/2/2021 11:20:14 PM
corp internal	Export	success	7/2/2021 11:17:45 PM	7/2/2021 11:17:45 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export			
goodcoffeexyz.onmicrosoft.com - AAD	Delta Synchronization			
corp internal	Delta Synchronization			
goodcoffeexyz.onmicrosoft.com - AAD	Delta Import			
corp internal	Delta Import			
goodcoffeexyz.onmicrosoft.com - AAD	Export			
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization			
corp internal	Full Synchronization			
goodcoffeexyz.onmicrosoft.com - AAD	Full Import			
corp internal	Full Import			

Profile Name: Delta Import User Name: CORP\ADSynchSA_90
Step Type: Delta Import (Stage Only)
Start Time: 7/2/2021 11:20:14 PM

Synchronization Statistics

Staging	Unchanged	Adds	Updates	Renames	Deletes
0	0	0	1	0	0

Discovery
Filtered Objects: 0

Object Details

Total objects retrieved: 1

Distinguished Name: CN=user1,OU=All Users,DC=corp,DC=internal

Modification type: none
Object type: user

Attribute information:

Changes	Attribute Name	Type	Value
none	cn	string	user1
none	countryCode	number	0
none	displayName	string	user1
none	givenName	string	user1
none	ms-DS-Consistent...	binary	B4 6B 7E 4B 3B 00 D2 4E BB 23 D0 21 99 C6 50 8B
none	objectGUID	binary	B4 6B 7E 4B 3B 00 D2 4E BB 23 D0 21 99 C6 50 8B
none	objectSid	binary	01 05 00 00 00 00 05 15 00 00 00 74 37 0C DA AE 33 3A 0C 6E 49 I
none	pwdLastSet	number	132643365868267769
none	sAMAccountName	string	user1
none	title	string	System Developer
none	userAccountControl	number	66048
none	userPrincipalName	string	user1@novembercoffee.xyz

Properties... Preview... Log... Close

And be exported to Azure AD

Synchronization Service Manager on DC1

File Tools Actions Help

Operations Connectors Metaverse Designer Metaverse Search

Connector Operations

Name	Profile Name	Status	Start Time	End Time
corp_internal	Export	success	7/2/2021 11:20:34 PM	7/2/2021 11:20:34 PM
goodcoffeexyz.onmicrosoft.com - AAD	Export	success	7/2/2021 11:20:24 PM	7/2/2021 11:20:23 PM
goodcoffeexyz.onmicrosoft.com - AAU	Delta Synchronization	success	7/2/2021 11:20:23 PM	7/2/2021 11:20:20 PM
corp_internal	Delta Synchronization	success	7/2/2021 11:20:20 PM	7/2/2021 11:20:15 PM
goodcoffeexyz.onmicrosoft.com - AAD	Delta Import	success	7/2/2021 11:20:15 PM	
corp_internal	Delta Import	success	7/2/2021 11:20:15 PM	
corp_internal	Export	success	7/2/2021 11:20:15 PM	
goodcoffeexyz.onmicrosoft.com - AAD	Delta Synchronization	success	7/2/2021 11:20:15 PM	
corp_internal	Delta Synchronization	success	7/2/2021 11:20:15 PM	
goodcoffeexyz.onmicrosoft.com - AAD	Delta Import	success	7/2/2021 11:20:15 PM	
corp_internal	Delta Import	success	7/2/2021 11:20:15 PM	
corp_internal	Export	success	7/2/2021 11:20:15 PM	
goodcoffeexyz.onmicrosoft.com - AAD	Full Synchronization	success	7/2/2021 11:20:15 PM	
corp_internal	Full Synchronization	success	7/2/2021 11:20:15 PM	
goodcoffeexyz.onmicrosoft.com - AAD	Full Import	success	7/2/2021 11:20:15 PM	
corp_internal	Full Import	success	7/2/2021 11:20:15 PM	

Profile Name: Export User Name: CORP\ADSyncMSA_9000f5
Step Type: Export Start Time: 7/2/2021 11:20:24 PM

Part 1 End 1

Conn

Properties... Close Help

Object Details

Total objects retrieved: 1

Distinguished Name: CN=(7447742B537A7341306B363745

Connector Space Object Properties

Awaiting Export Confirmation | Lineage |

Distinguished Name: CN=(7447742B537A7341306B36374539341686D635A5169773D3D)

Modification type: update
Object type: user

Attribute information:

Changes	Attribute Name	Type	Old Value	New Value
none	accountEnabled	boolean	true	true
none	cloudAnchor	string	User_bf19cf48f94a-40c6-9401-bdf1599b8...	User_bf19cf48f94a-40c6-9401-bdf1599b8...
none	cloudMastered	boolean	false	false
none	commonName	string	user1	user1
none	countryCode	number	0	0
none	displayName	string	user1	user1
none	dnsDomainName	string	corp_internal	corp_internal
none	givenName	string	user1	user1
none	lastPasswordChange	string	20210501095626.0Z	20210501095626.0Z
none	netBiosName	string	CORP	CORP
none	onPremiseSecurityIdentifier	binary	01 05 00 00 00 00 05 15 00 00 00 74 3...	01 05 00 00 00 00 05 15 00 00 00 74 3...
none	onPremisesDistinguishedName	string	CN=user1,OU=All Users,DC=corp,DC=internal...	CN=user1,OU=All Users,DC=corp,DC=internal...
none	onPremisesSamAccountName	string	user1	user1
none	sourceAnchor	string	tGt+SzsA0k67i9AhmcZQiw==	tGt+SzsA0k67i9AhmcZQiw==
add	title	string	System Developer	System Developer
none	userPrincipalName	string	user1@novembercoffee.xyz	user1@novembercoffee.xyz

Preview... Log... Close Help

3 Assign licenses

1. In Microsoft 365 admin enter, assign licenses to

- User1
- User2
- User3

The screenshot shows the Microsoft 365 Admin Center interface. On the left, there's a navigation sidebar with options like Home, Users (Active users selected), Groups, Billing, and Setup. The main area is titled 'Active users'. It displays a list of users with columns for Display name, Username, Licenses, Sync status, and Choose. Three users are selected: 'user1', 'user2', and 'user3'. A red box highlights the 'Manage product licenses' button in the top right corner of the user table.

Select appropriate license, and Save changes

This screenshot shows the 'Manage product licenses' dialog box overlaid on the Active users page. It says '3 users selected'. Under 'What would you like to do with the licenses for these users?', the 'Assign more' radio button is selected (highlighted with a red box). In the 'Licenses' section, 'Office 365 E3' is checked (highlighted with a red box). At the bottom right, the 'Save changes' button is also highlighted with a red box.

Click Done

The screenshot shows the Microsoft 365 admin center interface. On the left, there's a navigation sidebar with options like Home, Users (Active users selected), Groups, Billing, and Setup. The main area is titled 'Active users' and shows a list of users with columns for Display name, Username, and Licenses. A modal window titled 'Licenses assigned' is open, stating 'You've assigned licenses for 3 of 3 users.' It lists three users: user1, user2, and user3, each assigned 'Office 365 E3'. Below the modal, a 'Next Steps' section suggests reviewing unused product licenses. A large red box highlights the 'Done' button at the bottom right of the modal.

2. Verify the licenses have been assigned to User1, User2, and User3 successfully

The screenshot shows the Microsoft 365 admin center interface. The navigation sidebar is identical to the previous screenshot. The main area is titled 'Active users' and displays a list of users with columns for Display name, Username, Licenses, and Sync status. A red box highlights the 'Licenses' column for users user1, user2, and user3, which all show 'Office 365 E3'. The rest of the users in the list (cloudduser 01, On-Premises Directory Synchronization, and poiu ytre) have different license status or are unlicensed.

4 Test access to Exchange Online

4.1 Start Windows 10 client

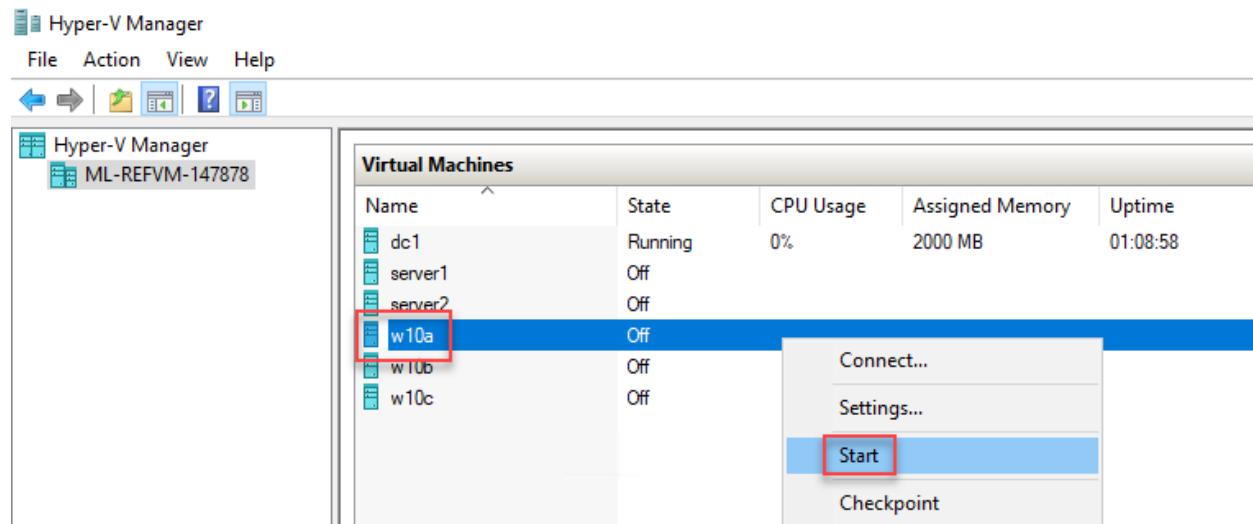
1. On Hyper-V host, run

```
Set-VMProcessor w10a -Count 2
```

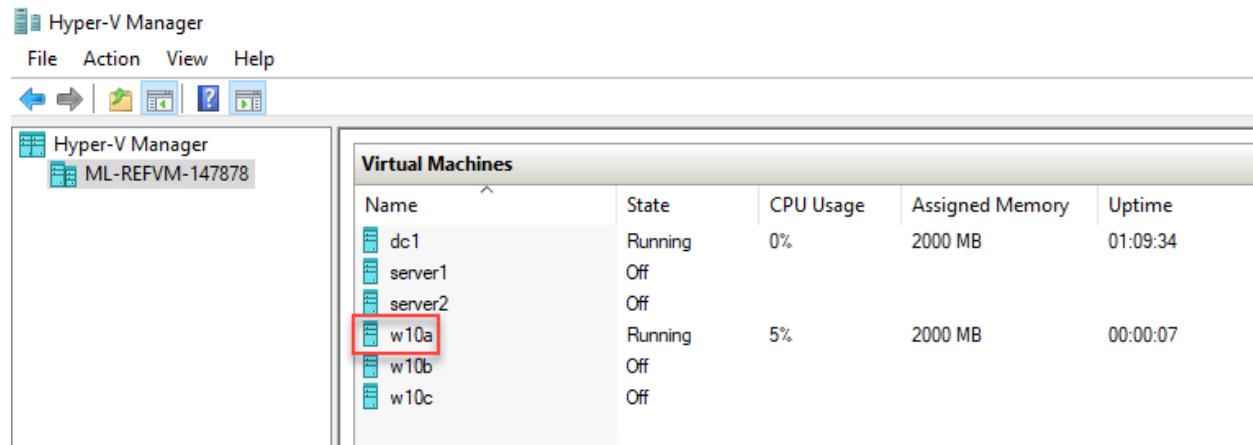
```
PS C:\> Set-VMProcessor w10a -Count 2
PS C:\> -
```

2. Start

- w10a

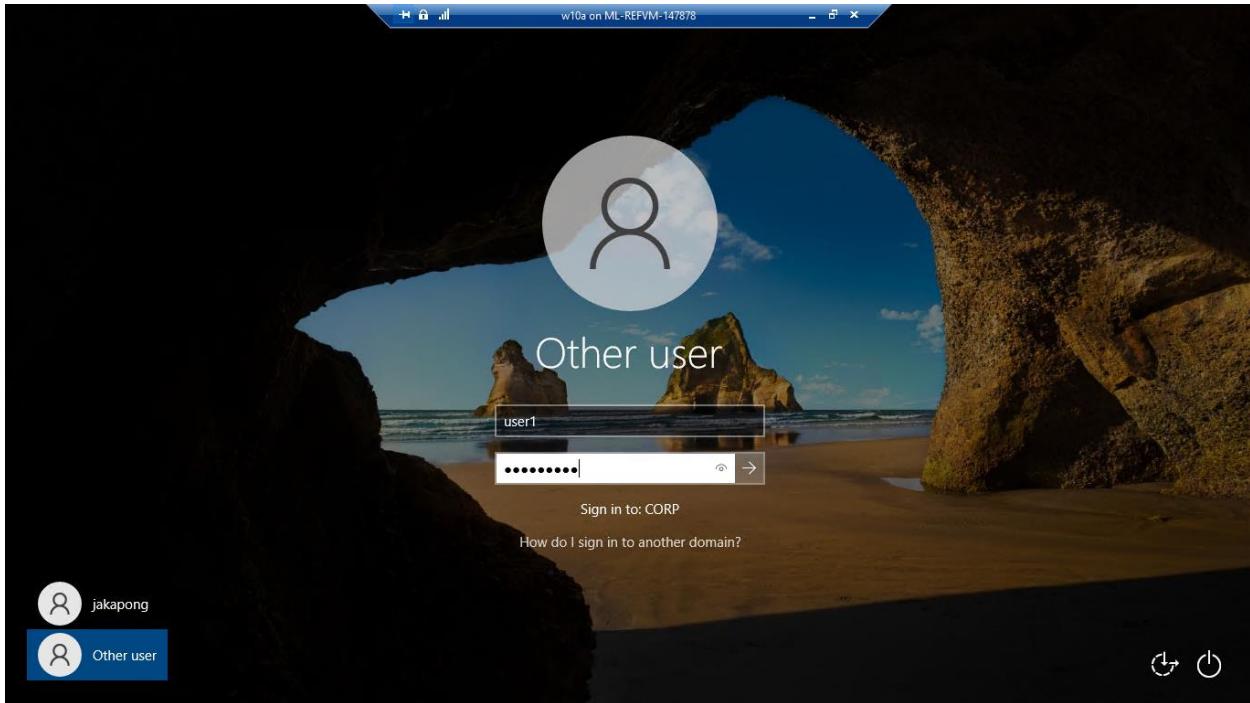


Connect w10a



3. On w10a, sign in as

- Username = user1
- Password = Password1

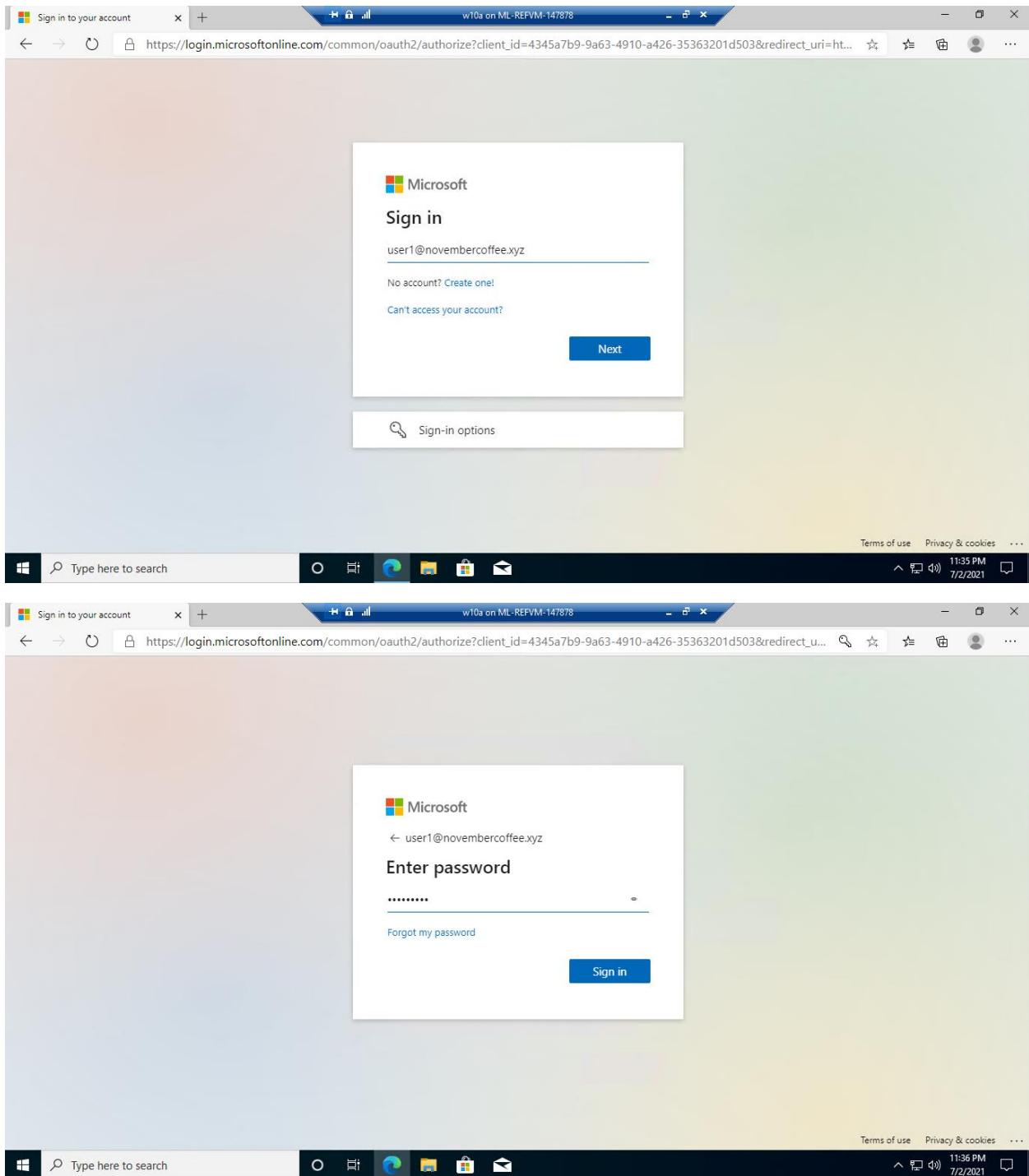


4.2 Install Office 365 apps

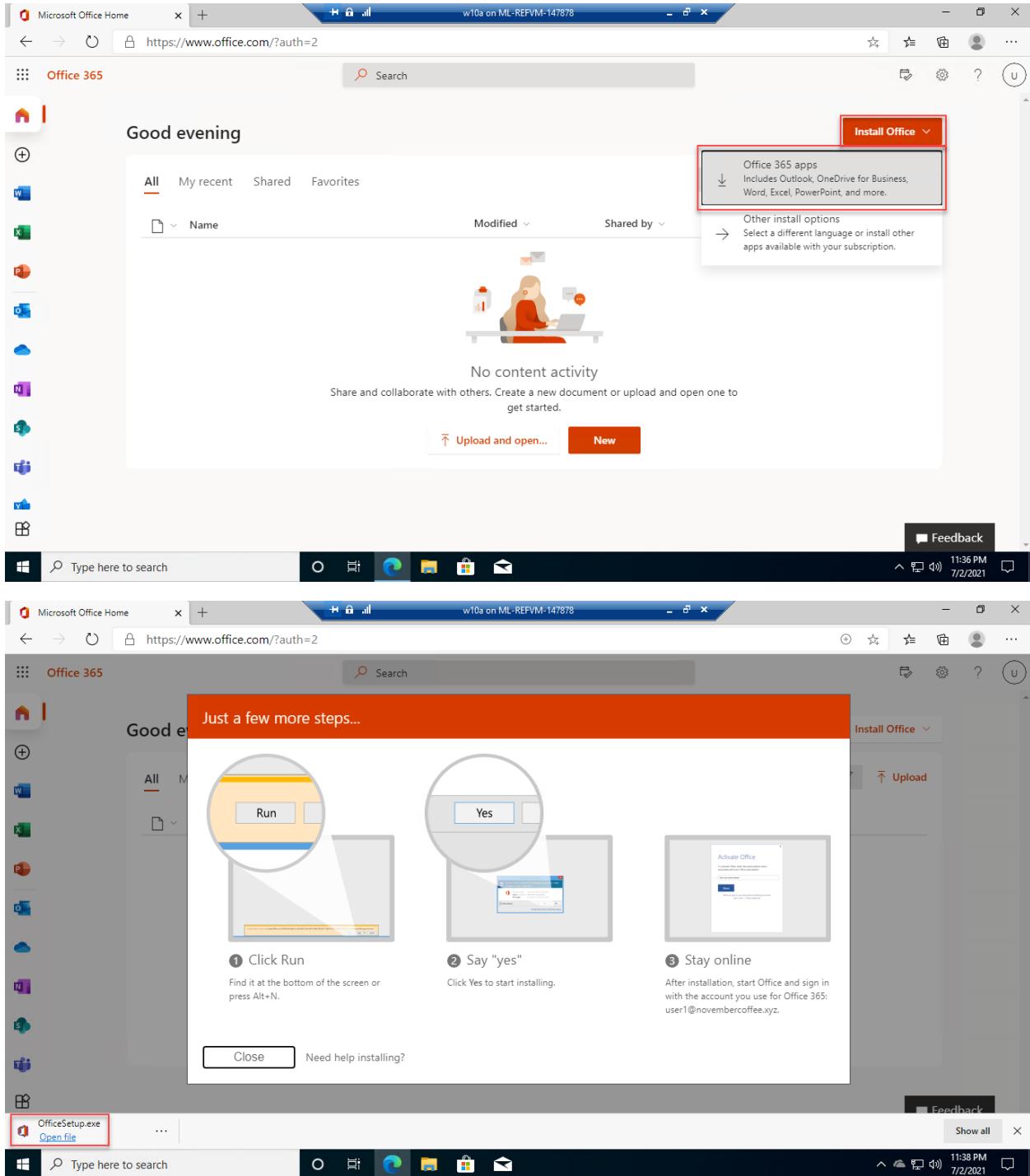
1. On w10a

Open <https://portal.office.com>, and sign in as

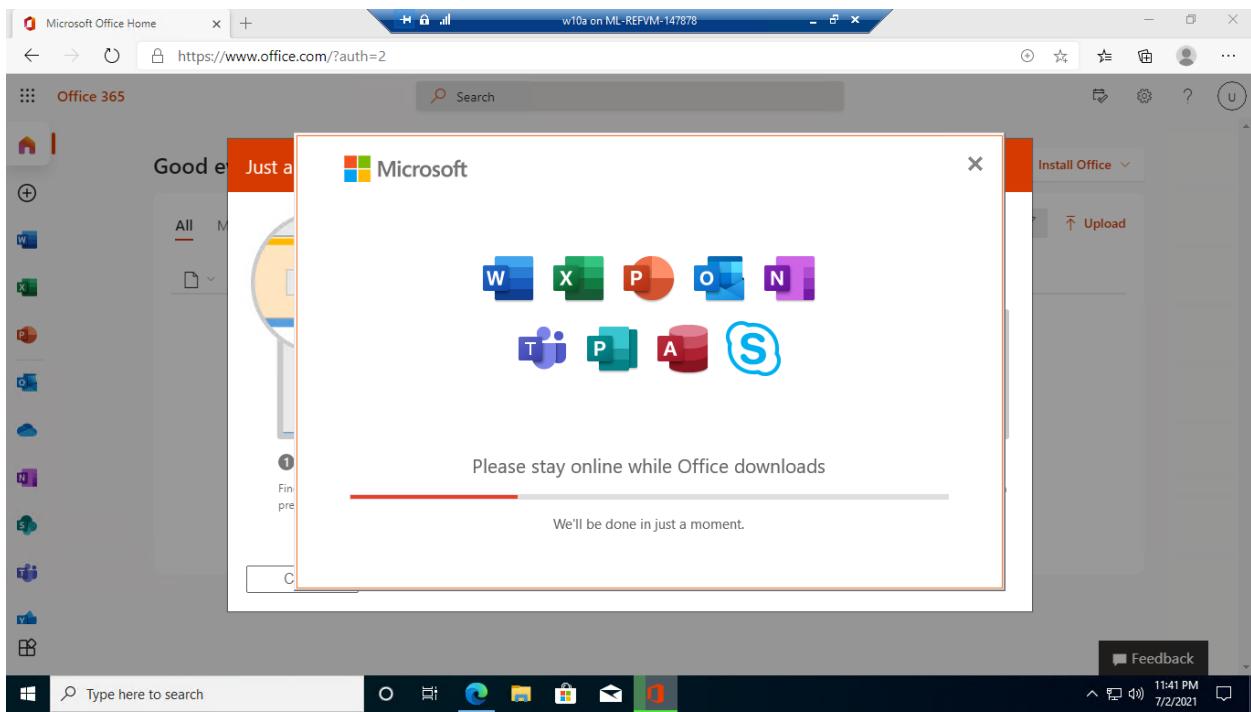
- Username = user1@yourdomain.xyz
- Password = Password1



2. Install Office 365 apps

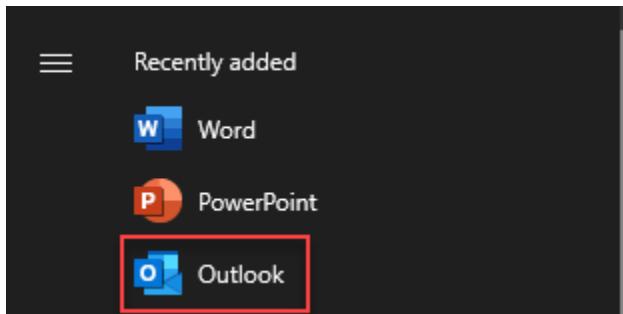


Wait until finish

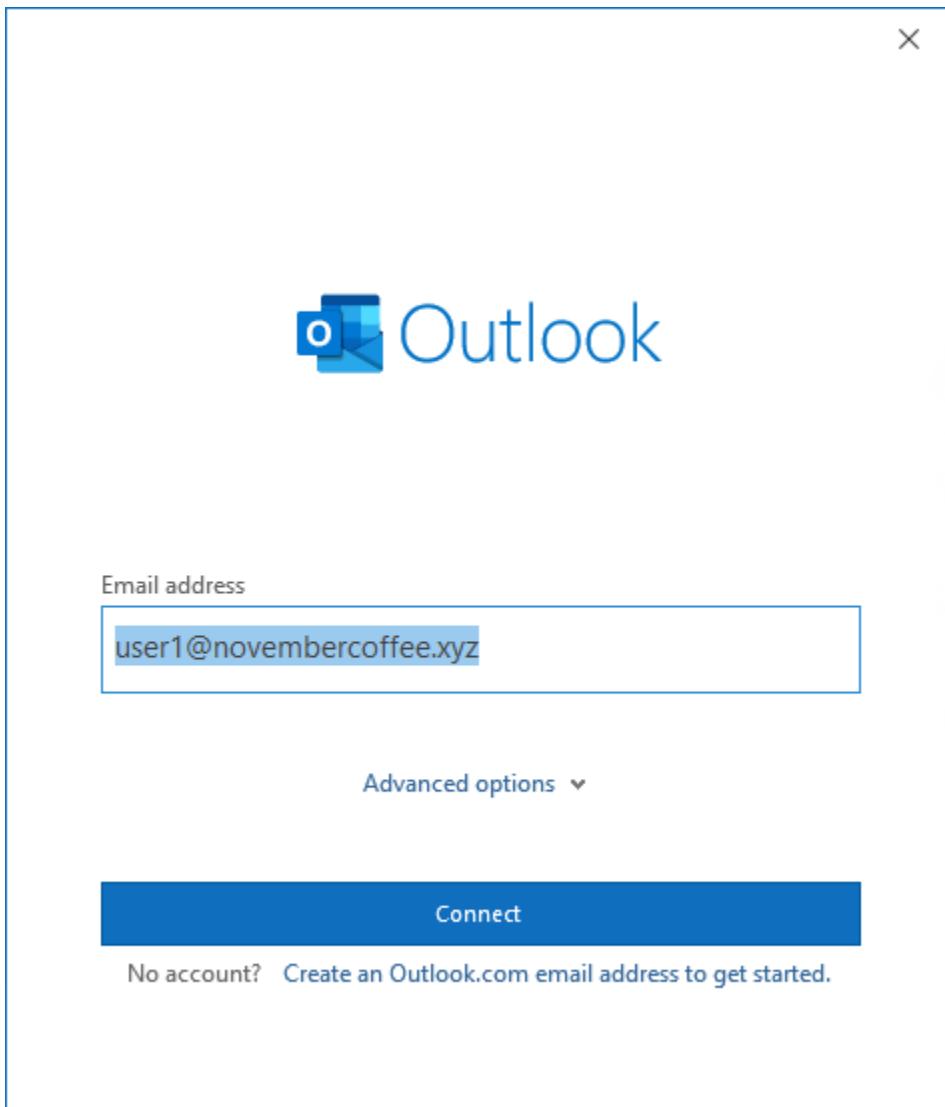


4.3 Access user1's mailbox via MS Outlook

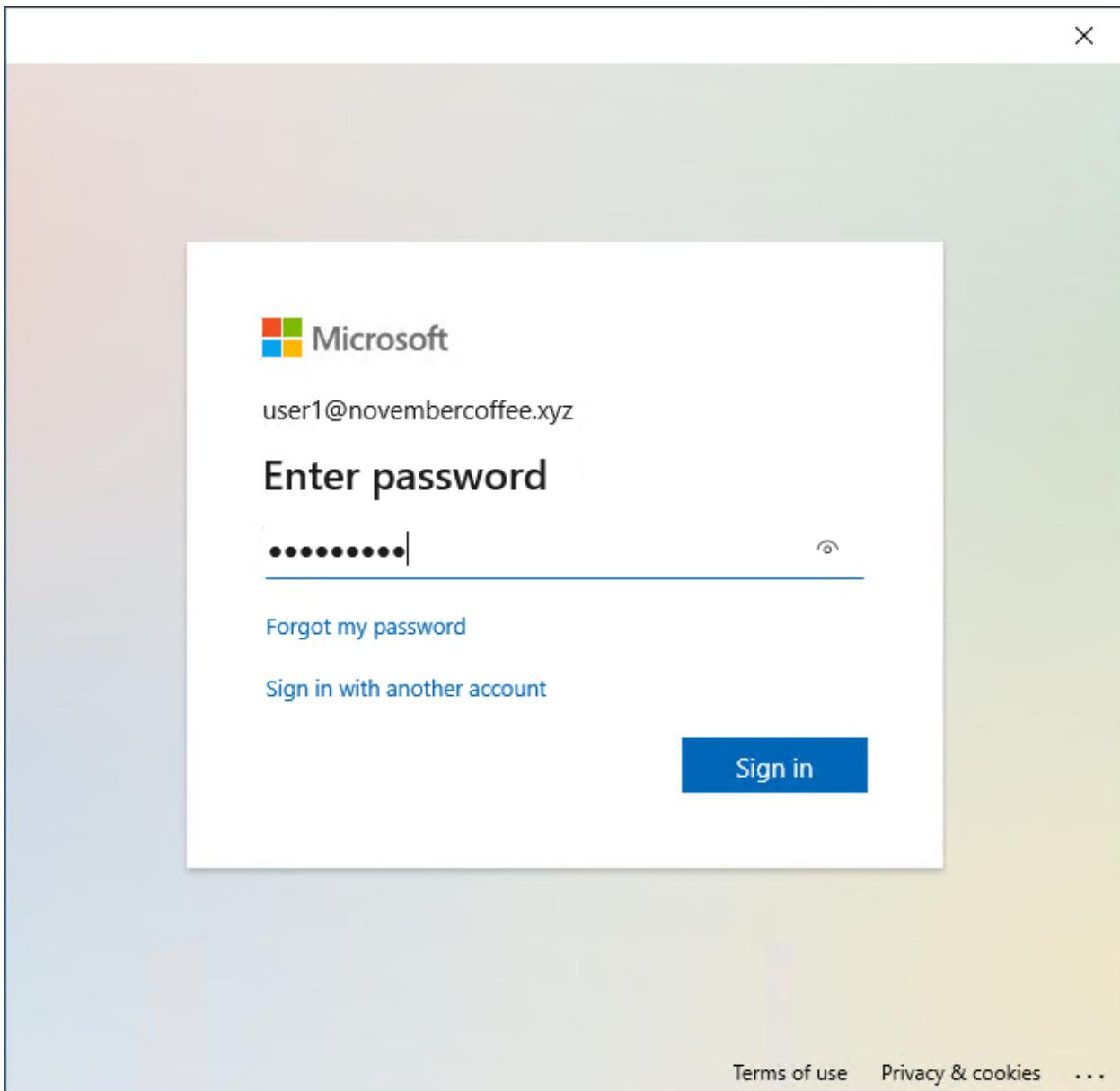
1. On w10a, open Outlook



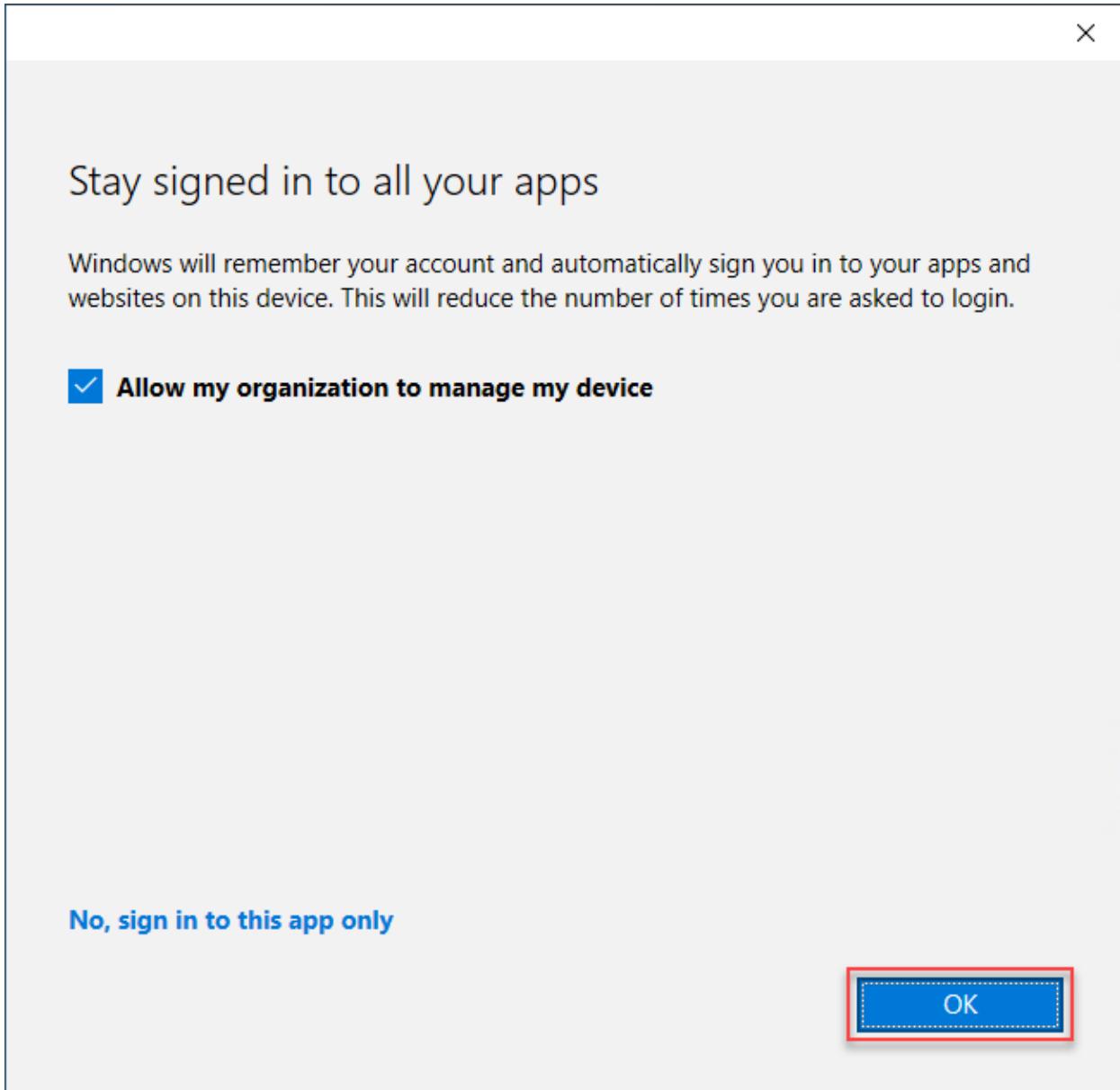
Click Connect



Password = Password1



Click OK

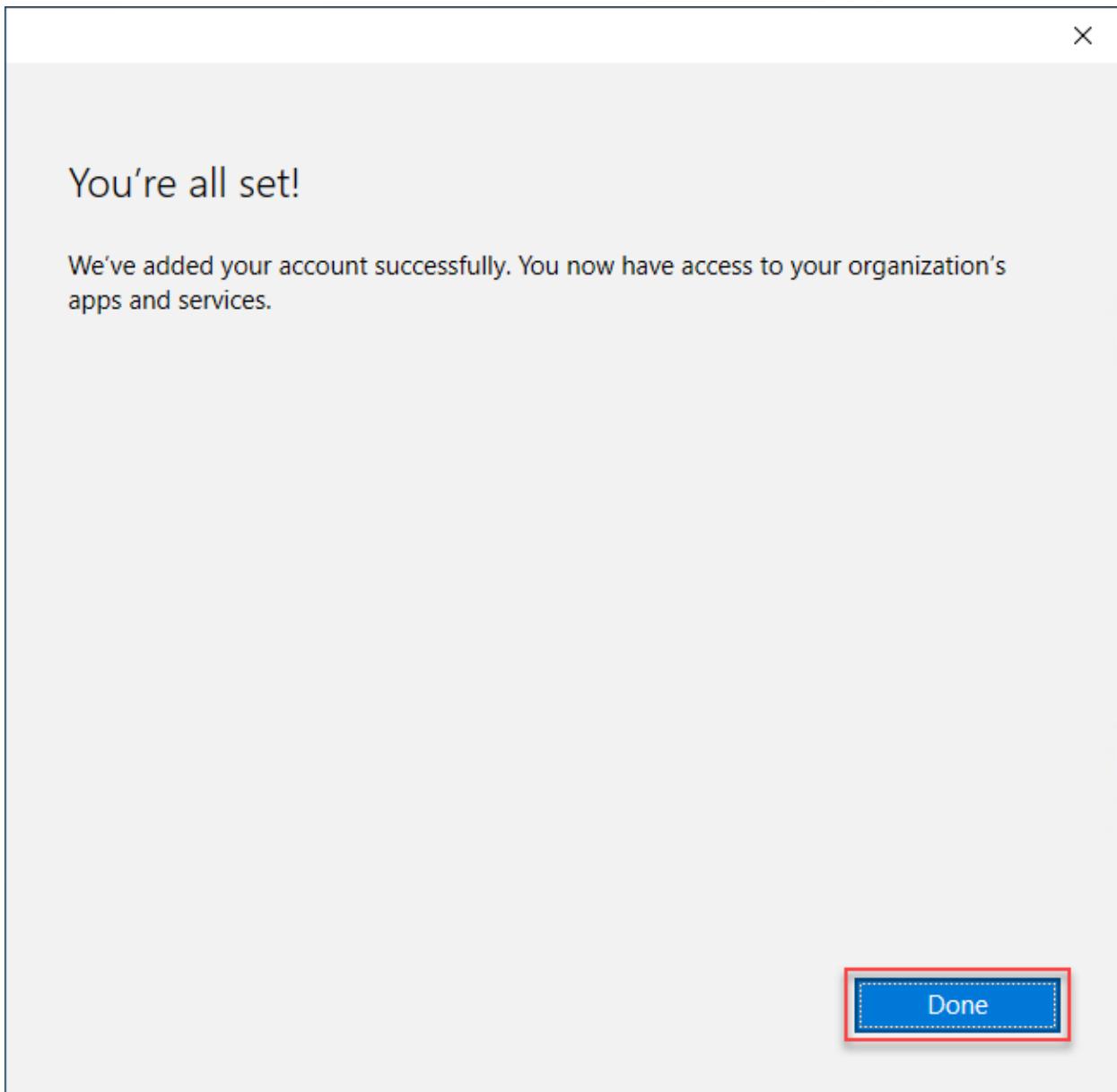


Note: “Allow my organization to manage my device” will perform Azure AD registration for the device in Azure AD

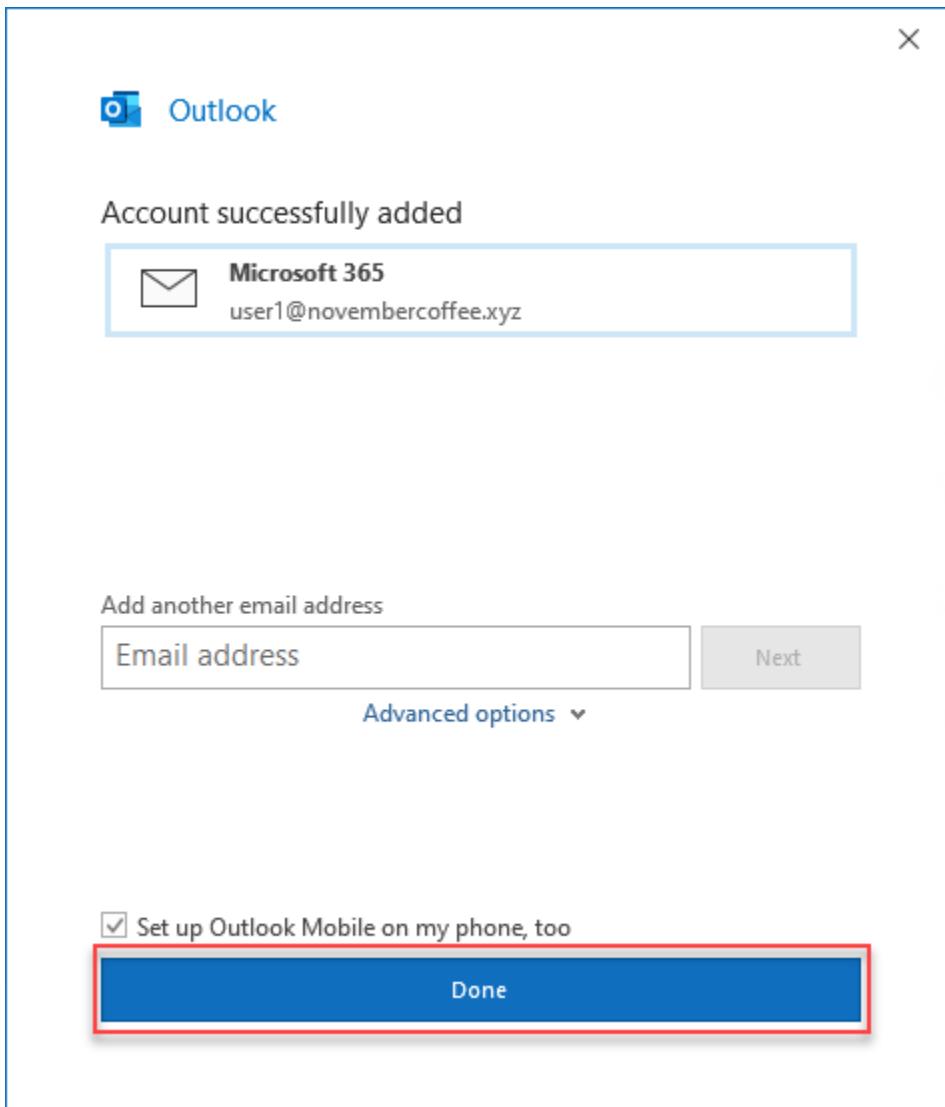
The screenshot shows the Microsoft Azure portal interface for managing devices. The top navigation bar includes the Microsoft Azure logo, a search bar, and a user profile for 'jakapong@goodcoffeeex... GOOD COFFEE (NOVEMBERCOFF...)'. Below the navigation is a breadcrumb trail: Home > Devices | All devices. The main title is 'Devices | All devices' under 'Good Coffee - Azure Active Directory'. On the left, a sidebar lists 'All devices' (selected), 'Device settings', 'BitLocker keys (Preview)', and 'Diagnose and solve problems'. Under 'Activity', there are links for 'Audit logs' and 'Bulk operation results (Preview)'. A 'Troubleshooting + Support' section includes a 'New support request' link. The main content area displays a table of devices. The table has columns: Name, Enabled, OS, Version, Join Type, Owner, MDM, and Com. One device is listed: 'w10a' (Enabled: Yes, OS: Windows, Version: 10.0.19042.928, Join Type: Azure AD registered, Owner: user1, MDM: None, Com: N/A). There are also buttons for 'Enable', 'Disable', 'Delete', 'Manage', 'Download devices (Preview)', 'Refresh', 'Columns', 'Preview features', and 'Got feedback?'. A note at the top right says 'This page includes previews available for your evaluation. View previews →'.

Name	Enabled	OS	Version	Join Type	Owner	MDM	Com
w10a	Yes	Windows	10.0.19042.928	Azure AD registered	user1	None	N/A

Click Done

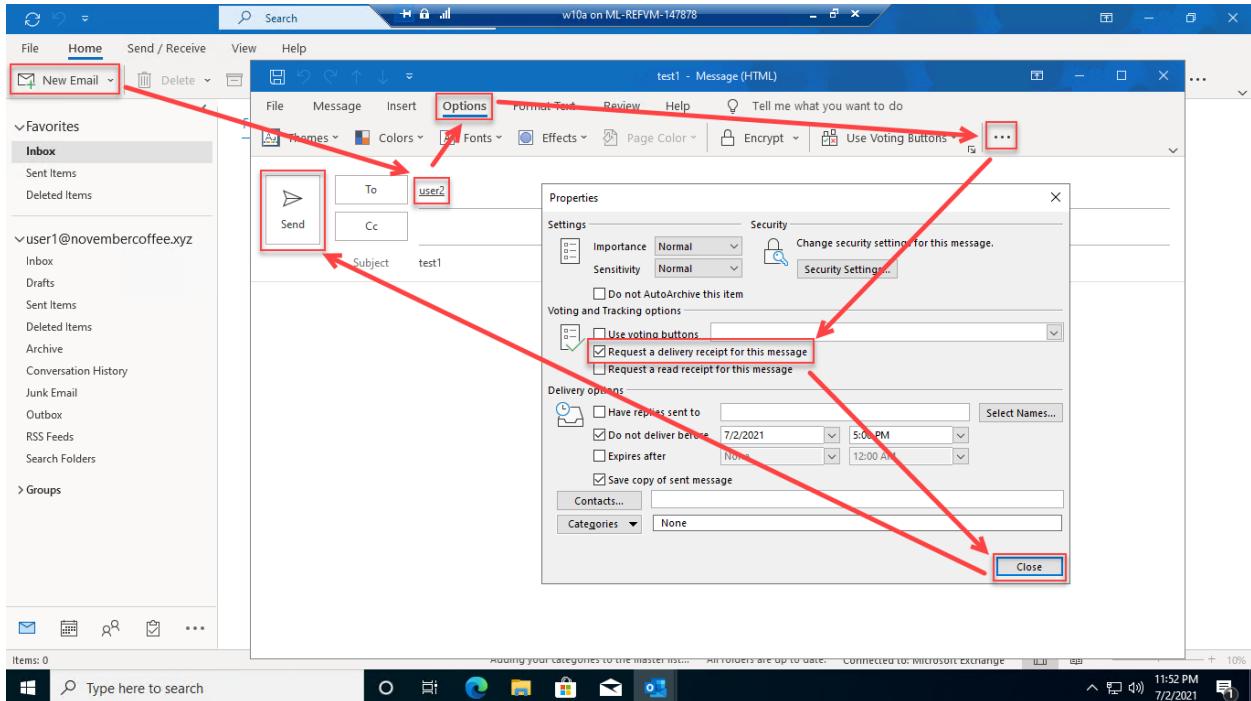


Click Done

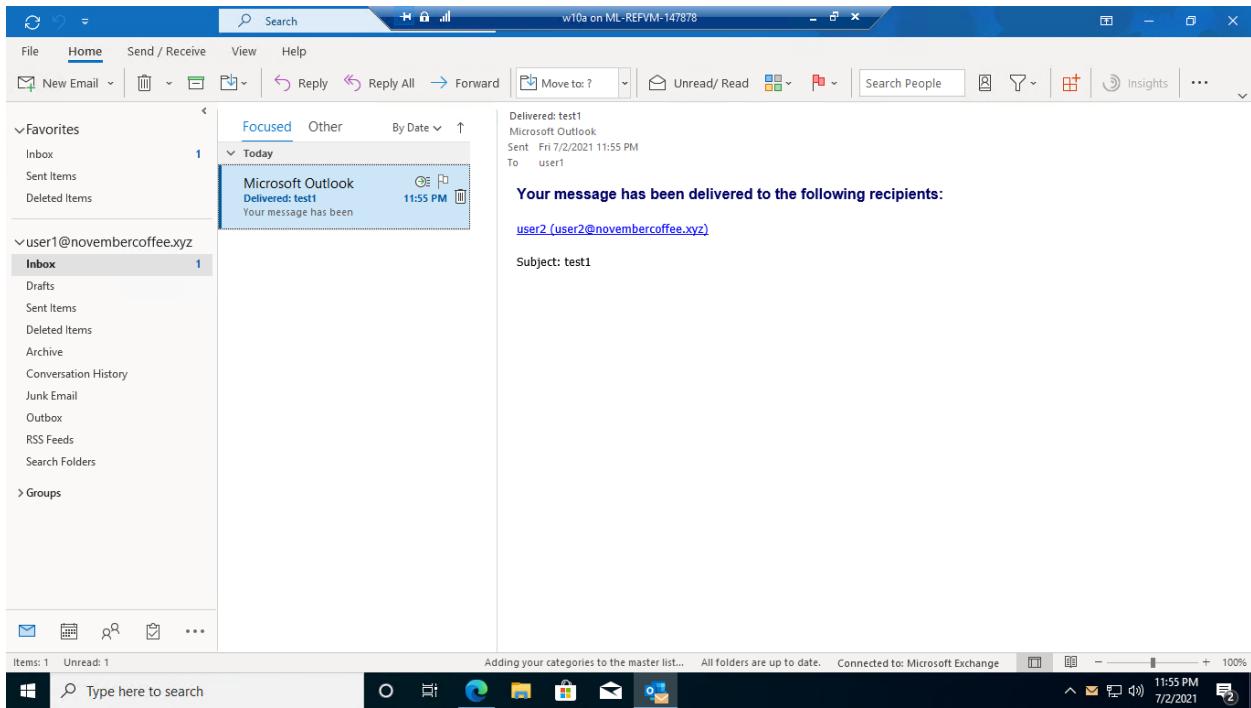


2. Send a tested email to user2

Also enable “Request a delivery request for this message”

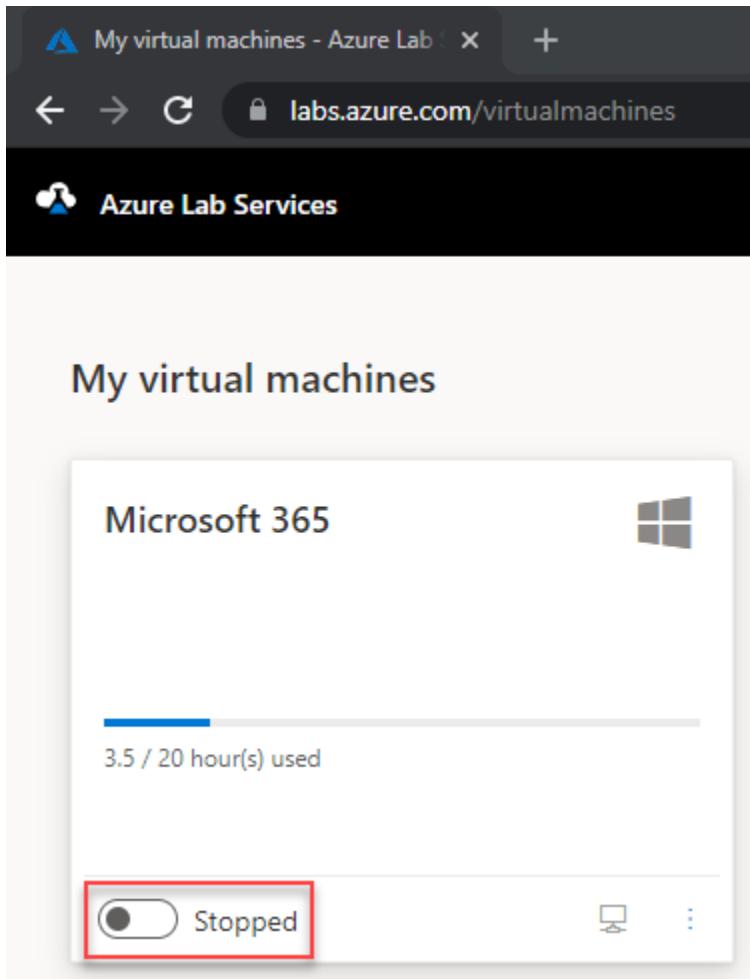


Verify user1 got a delivery receipt from the system



5 Stop your lab VM

In <https://labs.azure.com>, stop your lab VM to save hours



The screenshot shows a web browser window titled "My virtual machines - Azure Lab". The address bar displays "labs.azure.com/virtualmachines". Below the header, there's a section titled "Azure Lab Services". The main content area is titled "My virtual machines" and lists a single item: "Microsoft 365". To the right of the machine name is a small Windows logo icon. Below the machine name, there's a progress bar indicating usage: "3.5 / 20 hour(s) used". At the bottom of the card, there are three buttons: a red-bordered toggle switch labeled "Stopped", a monitor icon, and a vertical ellipsis icon.