

Directory Sync Pro Intra-Forest sIDHistory Stage Migration

Quick Start Guide



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Legend

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

 **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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Introduction

Directory Sync Pro supports sIDHistory migration when migrating users and groups in an inter-forest migration scenario. However, by default, Microsoft does not support the migration of sIDHistory in an intra-forest configuration. Migrating sIDHistory in an intra-forest environment is not possible as duplicate ObjectSID cannot exist in the same forest. The recommended process involves moving the objects from the source domain to the target domain within the same forest. However, this approach may not be ideal when device migration is part of the scope as it often necessitates simultaneous cutover of both users and devices.

To address this limitation, Quest has developed a process that enables sIDHistory migration using a staged migration concept. This step-by-step guide provides instructions on how to perform sIDHistory migration in an intra-forest environment by utilizing a staging forest.

Topics

This guide covers the following topics:

- Requirements
- Intra-Forest sIDHistory Migration High-Level Process
- Implementation Process
- Migrating the sIDHistory
- FAQ

Requirements

Following are the high-level requirements needed to configure the sIDHistory Intra-Forest Staged Migration using Directory Sync Pro. For details and a complete list of requirements, please refer to the requirement documents of the product found at [Product Support - Migrator Pro for Active Directory \(quest.com\)](https://quest.com/Products/Directory-Sync-Pro-for-Active-Directory).

General

- Two dedicated Windows Servers for installation of Directory Sync Pro
- A dedicated SQL Server

Accounts

- Domain Administrators who have proper access/permission to perform Directory Sync and sIDHistory Migration

Staging Domain Forest

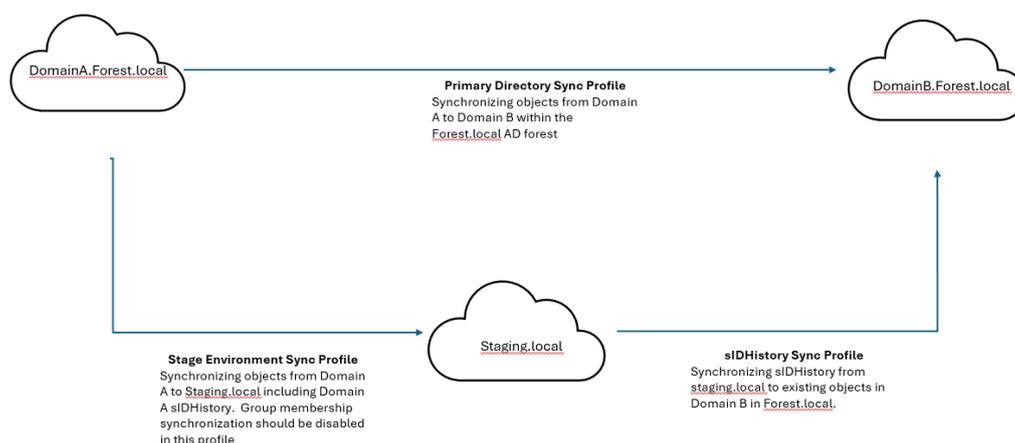
- A pre-configured staging domain forest

Intra-Forest sIDHistory Migration High-Level Process

By default, Microsoft does not support the migration of sIDHistory in an intra-forest configuration. The recommended process involves moving the objects from the source domain to the target domain within the same forest. However, this approach may not be ideal when device migration is part of the scope as it often necessitates simultaneous cutover of both users and devices.

For the above reason, a staged migration approach should be used for Intra-Forest sIDHistory Migration. Migration Process:

1. Objects from the source domain should be synchronized to the target domain, but sIDHistory migration should not be enabled.
2. Objects from the source domain should be synchronized to the staged forest with sIDHistory migration enabled. For the Groups Synchronization, membership syncing should be disabled as we do not need to migrate the membership to the staged forest.
3. Objects from the staged forest should be synchronized to the existing objects in the target domain (created by Directory Sync) with sIDHistory migration enabled. For the Groups Synchronization, membership syncing should be disabled as we do not need to migrate the membership for sIDHistory.



Implementation Process

Directory Sync Profiles Configuration

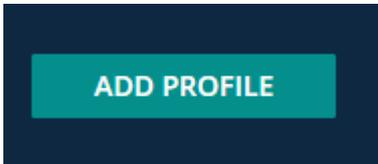
This section explains how to set up Directory Sync Profiles for Staged sIDHistory Migrations. The following Sync Profiles will be created as part of this Quick Start Guide:

- Primary Directory Sync Profile – This profile will be used to sync objects from the source domain to the target domain in the same Active Directory Forest.
- Stage Environment Profile – This profile will be used to sync objects from the source domain to the staging domain with sIDHistory Option enabled. Note, Group membership syncing should be disabled as we do not need to synchronize group members.
- sIDHistory Profile – This profile will be used to sync sIDHistory from the staging domain to target domain with sIDHistory Option enabled. Note, Group membership syncing should be disabled as we do not need to synchronize group members.

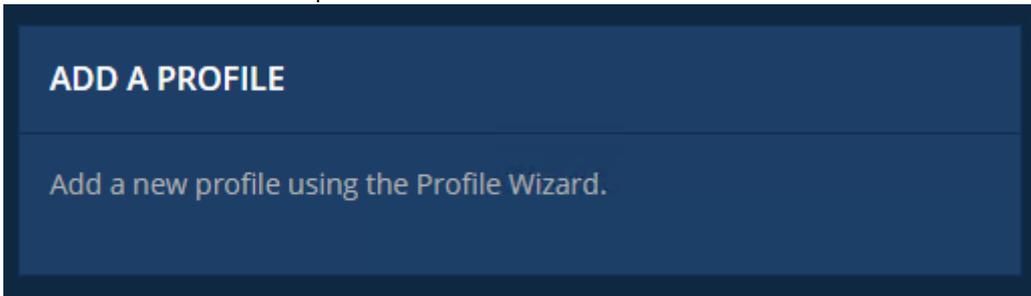
Setting up the Primary Directory Sync Profile

Follow these steps to setup the Primary Directory Sync Profile.

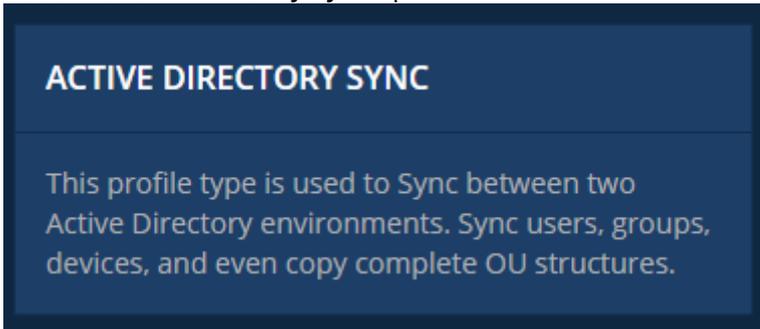
1. Launch the Directory Sync Pro web portal.
2. Click on the **Add Profile** button.



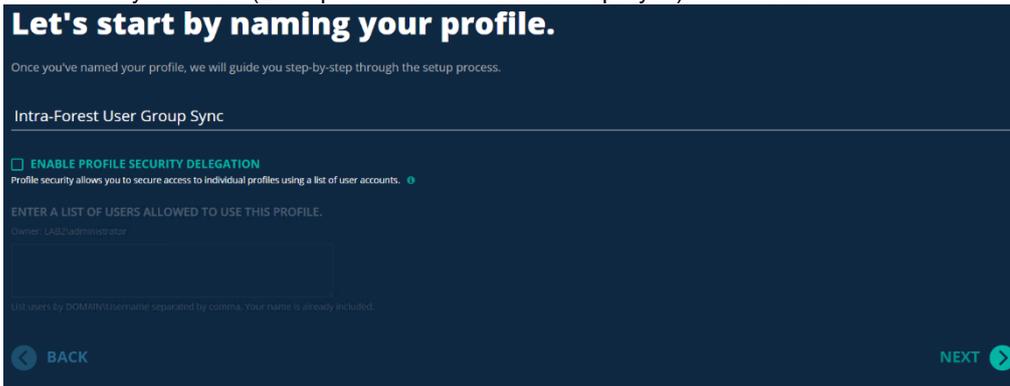
3. Click on the **Add A Profile** Option.



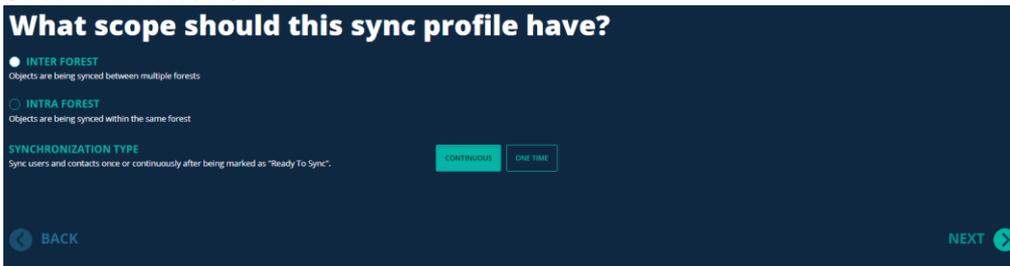
4. Select the **Active Directory Sync** Option.



5. Name the Sync Profile (Example Intra-Forest User Group Sync). Click **Next**.



6. Select **Inter Forest**. Click **Next**.



- Use the default Logging Level. Click **Next**.
- Use the default sync interval option. Click **Next**.
- Note, configure sync interval if you wish to run the sync profile automatically.
- Enter the source credential. Click **Next**.

Next we need source credentials.

The account chosen must have read access to all of the AD objects within the scope of the synchronization profile.

lab4administrator

.....

BACK NEXT

- Enter the source Global Catalog Server, click **Search** and then **Next**.

Enter the source Global Catalog server.

This is the IP address or fully qualified domain name (FQDN) of the source Global Catalog server you will be connecting to.

10.1.10.50 SEARCH

THE DOMAIN NAME ASSOCIATED WITH THIS SERVER IS:

lab4.leagueteam.local

BACK NEXT

- Click **Add DC** and configure the Global Catalog Server for the Source Domain. Click **Next**.

Let's select your source Domain Controllers.

You will need at least one DC for each domain within scope. Click the ADD DC button.

Domain	Name	FQDN	IP	Priority	Ping (ms)	Connection
lab4.leagueteam.local	LAB4-EX	Lab4-EX.lab4.leagueteam.local	fe80::eb57:4440:1c44:683%12			✓

ADD DC REMOVE PING CONNECT

BACK NEXT

- Click **Add OUs**, and select the Organizational Units for the source domain. Click **Next**.

Select your source Organizational Units.

These are the source OUs you wish to synchronize. Double-click on any OU for advanced filtering options.

Source OU	Sub OUs	Groups	Disabled Users	Non-Mail
OU=IntraSID,OU=DirSyncProObjects,DC=lab4,DC=leagueteam,DC=local	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

ADD OUS REMOVE OU

BACK NEXT

- Click **Select OU** and configure the Organizational Units for the target domain. Click **Next**.

Select your target OU options here.

This is the Organizational Unit where you plan to store any newly created objects.

OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local

SELECT OU

CREATE OUS IN TARGET
 Enable this to create OUs in the target OU otherwise objects will be created directly in the target OU.

SYNC EMPTY OUS
 Enable this to copy empty source OUs to the target

PROTECT OUS FROM DELETION
 Enable this to set 'Protect container from accidental deletion' on OUs in Target

SYNC OU PERMISSIONS
 Enable this to ensure users will have access to newly created target OUs.

How should OU permissions be synchronized?
 Recursive **Continuous**

SYNC INHERITED OU PERMISSIONS
 If enabled, inherited source permissions will be recreated in the target.

BACK NEXT

15. Enter the Default Password for new users. Click **Next**.

User password synchronization.

Note that the password policy on the source must meet or exceed the policy on the target.

SYNC PASSWORDS
If enabled, passwords will be copied to the target.

FOR ALL OBJECTS
If enabled, passwords for all objects will be synchronized. Otherwise, only passwords for objects created by Directory Sync Pro for Active Directory will be synchronized.

DEFAULT PASSWORD FOR NEW USERS: *****

CONFIRM PASSWORD: *****

BACK NEXT

16. Enable Automatic Sync. Click **Next**.

Next, a few sync options

These options affect how and when your objects are synchronized.

ATTRIBUTE DELTA SYNC
If enabled, only attributes changed on the source object will be synchronized. Otherwise, all attributes will be updated on the target object when the source object is modified.

AUTOMATIC SYNC
If enabled, objects will be automatically set to Ready To Sync. Otherwise, objects will not be synced until manually marked as Ready To Sync via the Active Directory Migrator console.

PROTECT TARGET OBJECTS FROM DELETION
If enabled, target objects will not be deleted if deleted in the source.

RECREATE DELETED TARGET OBJECTS
If enabled, an object that was previously synced to the target and then deleted will be recreated automatically. Otherwise, the target object will NOT be recreated.

BACK NEXT

17. Configure the Users Sync Options and Conflict Resolution. For this guide, the merge option can be used.
18. Configure the Group Sync Options and Conflict Resolution. For this guide, the merge option can be used. Do not check the **Do Not Sync Group Members** option for the primary sync profile.

DO NOT SYNC GROUP MEMBERS

Only the Group object and associated mapped fields will be synced, group members will be skipped.

19. For this guide, we will leave the **Synchronize Accompanying Groups** option unchecked. Click **Next**.

SYNCHRONIZE ACCOMPANYING GROUPS

Automatically syncs any groups in which a user is a direct member.

20. For this guide, we will leave the **Synchronize Members As Foreign Security Principals** option unchecked. Click **Next**.

SYNCHRONIZE MEMBERS AS FOREIGN SECURITY PRINCIPALS

Group members that cannot be matched in the target will be synchronized as Foreign Security Principals if trust relationships allow it and the target group is a Domain Local Security Group.

21. For this guide, we will skip Device Configuration. Click **Next**.

SKIP DEVICE CONFIGURATION

You can always set these options later from the profile dashboard.

22. Leave all options unchecked for Exchange Migration options. Click **Next**.

How would you like to configure your Exchange Migration?

TARGET PROXY ADDRESS OVERWRITE BEHAVIOR
If checked, target proxy addresses will always be overwritten with source values; if unchecked, target proxy address values will be set only if the target attribute is currently empty.

PROMOTE TARGET USER CONTACTS
Enable this feature to convert target contacts into mail-enabled users.

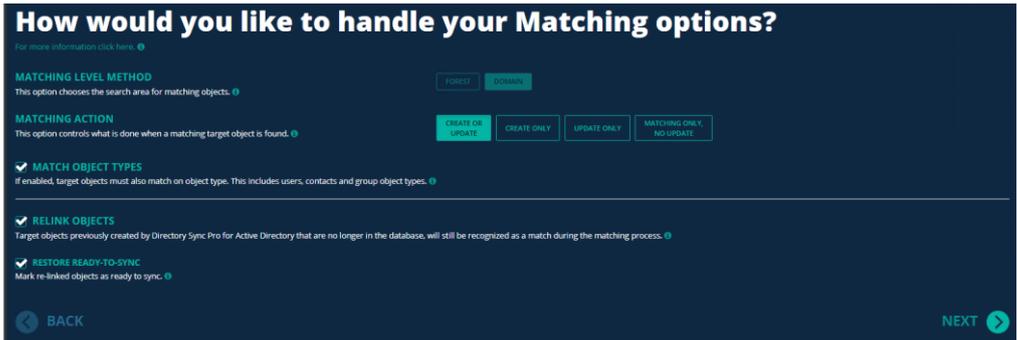
PROMOTE TARGET GROUP CONTACTS
Enable this feature to convert target contacts into mail-enabled groups.

UPDATE MAILBOX-ENABLED OBJECTS ONLY
If enabled, only mailbox enabled objects will be updated and no other objects will be modified.

BACK NEXT

23. Leave all options as default for Email Address Policy options. Click **Next**.

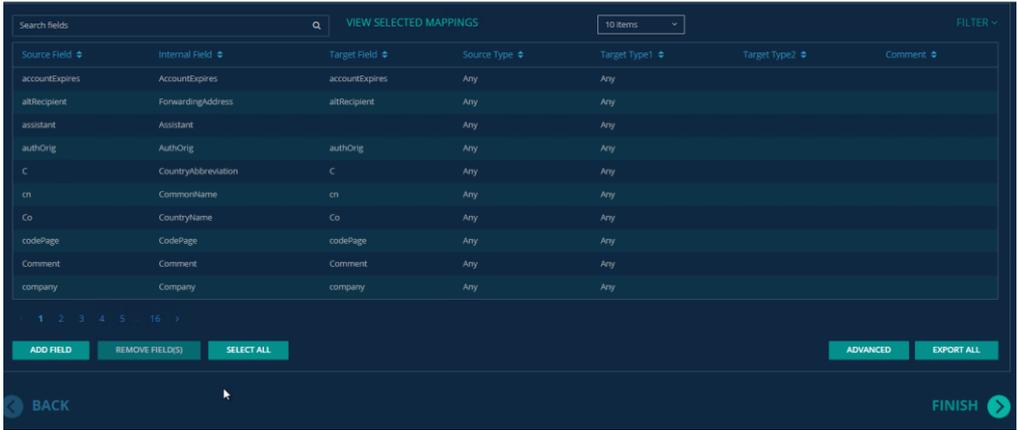
24. Leave all options as default for Matching options. Click **Next**.



25. Configure the Matching Attributes options. For this guide we will use the default selections. Click **Next**.



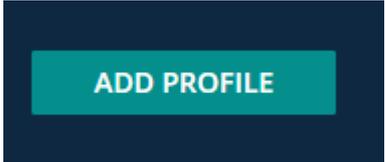
26. Review and configure the mapping attribute based on the project scope. Click **Finish** to complete the profile configuration for the Primary Profile.



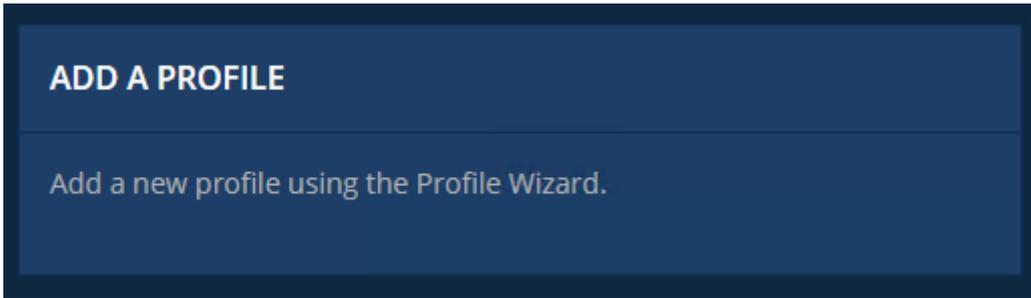
Setting up the Stage Environment Profile

Follow these steps to setup the Stage Environment Directory Sync Profile. Note, the Staging Environment Profile should be configured on a separate Directory Sync Console as stated in the requirement section.

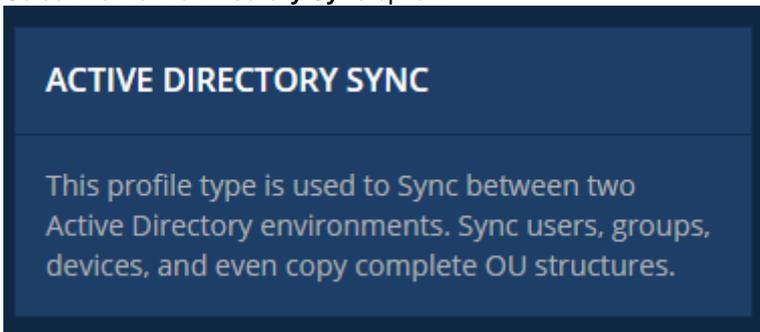
1. Launch the Directory Sync Pro web portal.
2. Click on the **Add Profile** button.



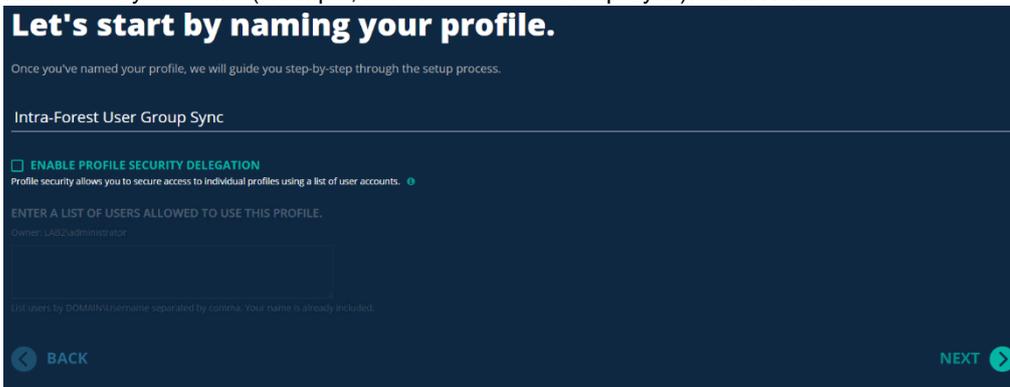
3. Click on the **Add A Profile** option.



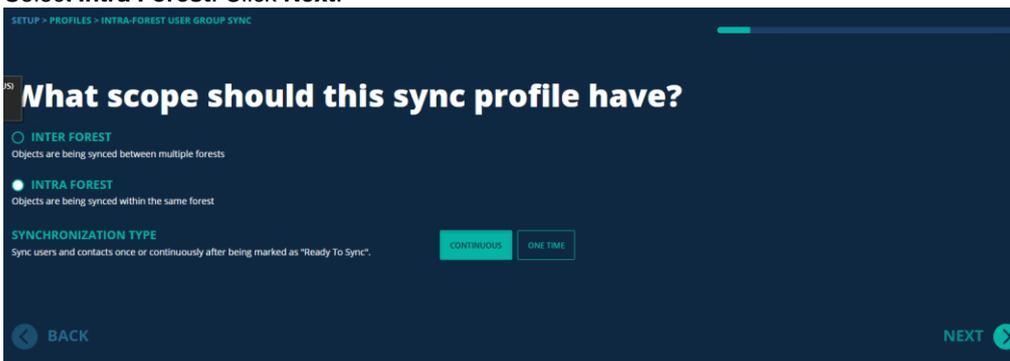
4. Select the **Active Directory Sync** option.



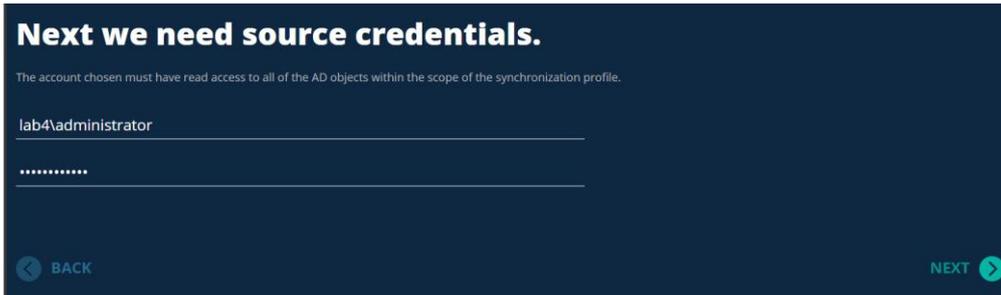
5. Name the Sync Profile (example, Intra-Forest User Group Sync). Click **Next**.



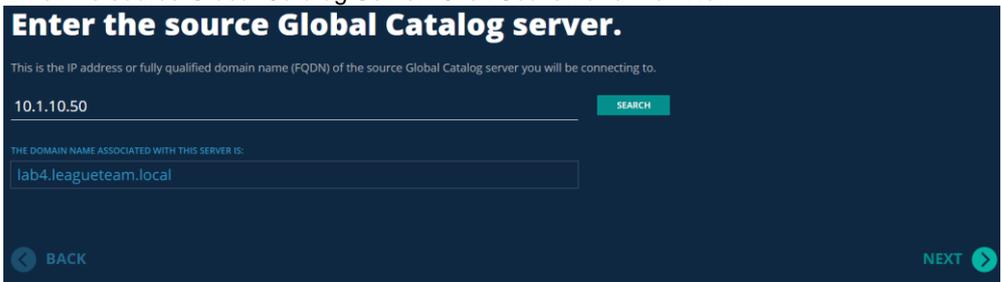
6. Select **Intra Forest**. Click **Next**.



7. Use the default Logging Level. Click **Next**.
8. Use the default sync interval option. Click **Next**.
9. Note, configure sync interval if you wish to run the sync profile automatically.
10. Enter the source credential. Click **Next**.



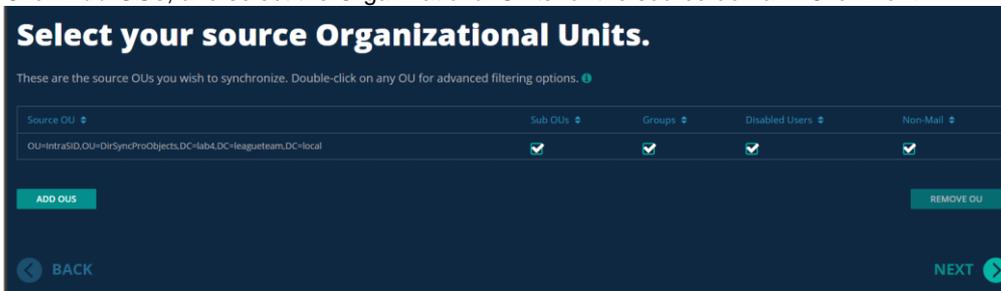
11. Enter the source Global Catalog Server. Click **Search** and then **Next**.



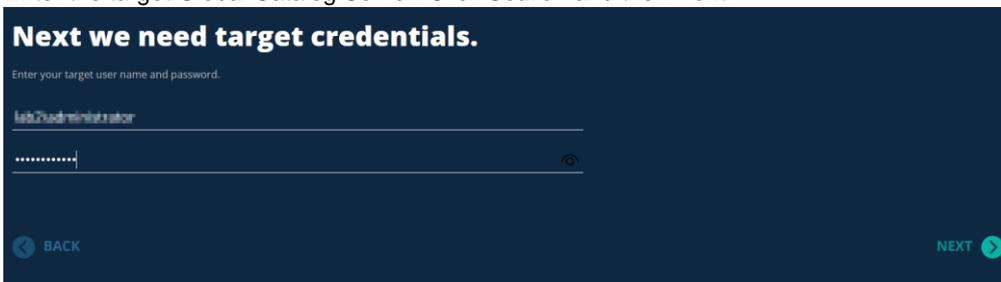
12. Click **Add DC** and configure the Global Catalog Server for the Source Domain. Click **Next**.



13. Click **Add OUs**, and select the Organizational Units for the source domain. Click **Next**.



14. Enter the target Global Catalog Server. Click **Search** and then **Next**.



15. Click **Add DC** and configure the Global Catalog Server for the target Domain. Click **Next**.

Enter the target Global Catalog server.

This is the IP address or fully qualified domain name (FQDN) of the target Global Catalog server you will be connecting to.

Enter a server name or IP address

THE DOMAIN NAME ASSOCIATED WITH THIS SERVER IS:

16. Enter the target Global Catalog Server. Click **Search** and then **Next**.
17. Click **Add DC** and configure the Global Catalog Server for the Target Domain. Click **Next**.
18. Click **Select OU** and configure the Organizational Units for the target domain. Click **Next**.

Select your target OU options here.

This is the Organizational Unit where you plan to store any newly created objects.

OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local

CREATE OUS IN TARGET
If enabled, the OUs synchronized from the source will be created in the target OU otherwise objects will be created directly in the target OU.

SYNC EMPTY OUS
Enable this to copy empty source OUs to the target.

PROTECT OUS FROM DELETION
Enable this to set "Protect container from accidental deletion" on OUs in Target.

SYNC OU PERMISSIONS
Enable this to ensure users will have access to newly created target OUs.
How should OU permissions be synchronized?

SYNC INHERITED OU PERMISSIONS
If enabled, inherited source permissions will be recreated in the target.

19. Enter the Default Password for new users. Click **Next**.

User password synchronization.

Note that the password policy on the source must meet or exceed the policy on the target.

SYNC PASSWORDS
If enabled, passwords will be copied to the target.

FOR ALL OBJECTS
If enabled, passwords for all objects will be synchronized. Otherwise, only passwords for objects created by Directory Sync Pro for Active Directory will be synchronized.

DEFAULT PASSWORD FOR NEW USERS

CONFIRM PASSWORD

20. Enable Automatic Sync. Click **Next**.

Next, a few sync options

These options affect how and when your objects are synchronized.

ATTRIBUTE DELTA SYNC
If enabled, only attributes changed on the source object will be synchronized. Otherwise, all attributes will be updated on the target object when the source object is modified.

AUTOMATIC SYNC
If enabled, objects will be automatically set to Ready To Sync. Otherwise, objects will not be synced until manually marked as Ready To Sync via the Active Directory Migrator console.

PROTECT TARGET OBJECTS FROM DELETION
If enabled, target objects will not be deleted if deleted in the source.

RECREATE DELETED TARGET OBJECTS
If enabled, an object that was previously synced to the target and then deleted will be recreated automatically. Otherwise, the target object will NOT be recreated.

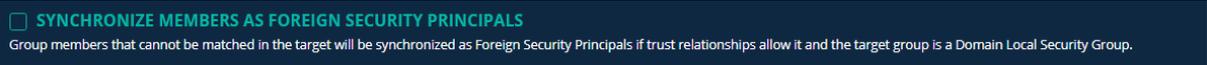
21. Configure the Users Sync Options and Conflict Resolution. For this guide, the merge option can be used.
22. Configure the Group Sync Options and Conflict Resolution. For this guide, a merger option can be used. Do not check the **Do Not Sync Group Members** option for the primary sync profile.

DO NOT SYNC GROUP MEMBERS
Only the Group object and associated mapped fields will be synced, group members will be skipped.

23. For this guide, we will leave **Synchronize Accompanying Groups** option unchecked. Click **Next**.

SYNCHRONIZE ACCOMPANYING GROUPS
Automatically syncs any groups in which a user is a direct member.

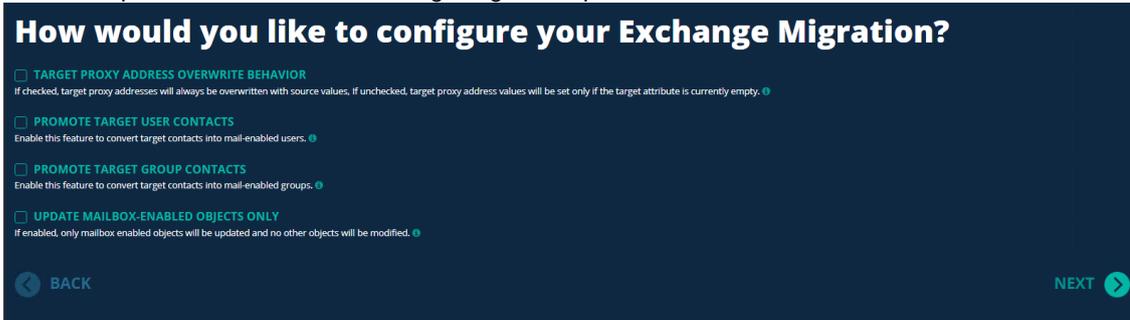
24. For this guide, we will leave **Synchronize Members As Foreign Security Principals** option unchecked. Click **Next**.



25. For this guide, we will skip Device Configuration. Click **Next**.

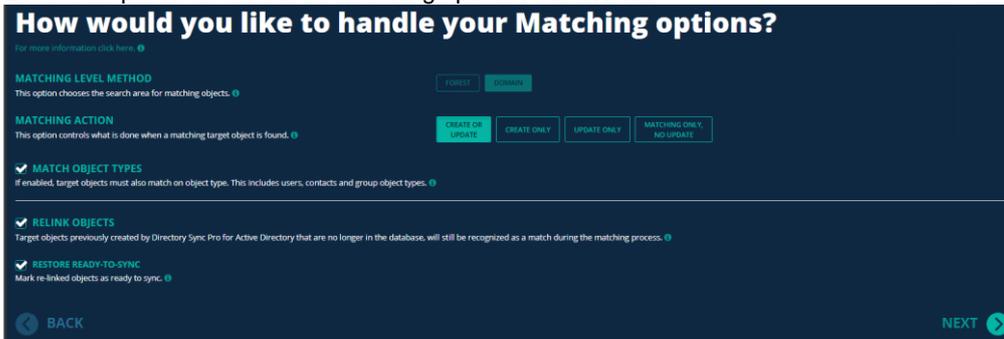


26. Leave all options unchecked for Exchange Migration options. Click **Next**.



27. Leave all options as default for Email Address Policy options. Click **Next**.

28. Leave all options as default for Matching options. Click **Next**.



29. Configure the Matching Attribute option. For this guide we will use the default selections. Click **Next**.



30. Review and configure the mapping attribute based on the project scope. Click **Finish** to complete the profile configuration for the Primary Profile.

Source Field	Internal Field	Target Field	Source Type	Target Type1	Target Type2	Comment
accountExpires	AccountExpires	accountExpires	Any	Any		
altRecipient	ForwardingAddress	altRecipient	Any	Any		
assistant	Assistant		Any	Any		
authOrig	AuthOrig	authOrig	Any	Any		
C	CountryAbbreviation	C	Any	Any		
cn	CommonName	cn	Any	Any		
Co	CountryName	Co	Any	Any		
codePage	CodePage	codePage	Any	Any		
Comment	Comment	Comment	Any	Any		
company	Company	company	Any	Any		

Setting up the sIDHistory Profile

Refer to the guidance for the Stage Environment and configure the sIDHistory Directory Sync Profile.

Migrating the sIDHistory

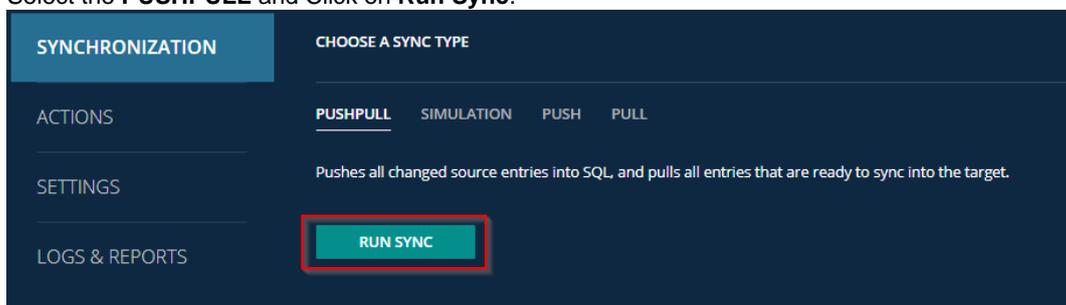
This section explains the step-by-step instructions on how to migrate sIDHistory in an Intra-Forest setup using the Directory Sync Profiles configured in the previous steps. The migration consists of three (3) steps:

1. Sync the objects from the source domain to the target domain within the same forest using the “Primary Directory Sync” Profile.
2. Pre-Stage the source objects in the staging forest with sIDHistory option enabled using the “Stage Environment” Profile.
3. Migrate the sIDHistory for the in-scope objects using the “sIDHistory” Profile.

Migrating the objects to the intra-forest domain

Follow these steps to migrate objects to the target intra-forest domain.

1. Launch the Directory Sync Pro web portal.
2. Select the Primary Directory Sync Profile and Click on **Manage**.
3. Click on **Synchronization**.
4. Select the **PUSHPULL** and Click on **Run Sync**.



5. Click on **Logs and Reports** and click on **Sync Logs** to review the log.
6. Verify the profile was synced successfully and there should be no errors. Some of the examples logging we expect to see are listed below.

The screenshot displays the 'SYNCHRONIZATION' logs in the Directory Sync Pro web portal. The logs table shows several entries, with two specific entries highlighted by red boxes:

- Log ID 26289: Status 'Pull complete'.
- Log ID 26282: Info level message: 'Adding member 'CN=Lab4Intra1,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local' to group 'CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local''.

A detailed view of the log entry for Log ID 26276 is shown below the logs table:

- LOG ID:** 26276
- ACTIVITY ID:** 638502494479516800
- TIME:** 05/02/2024 8:24 AM
- LEVEL:** Info
- MESSAGE:** Successfully created group CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local

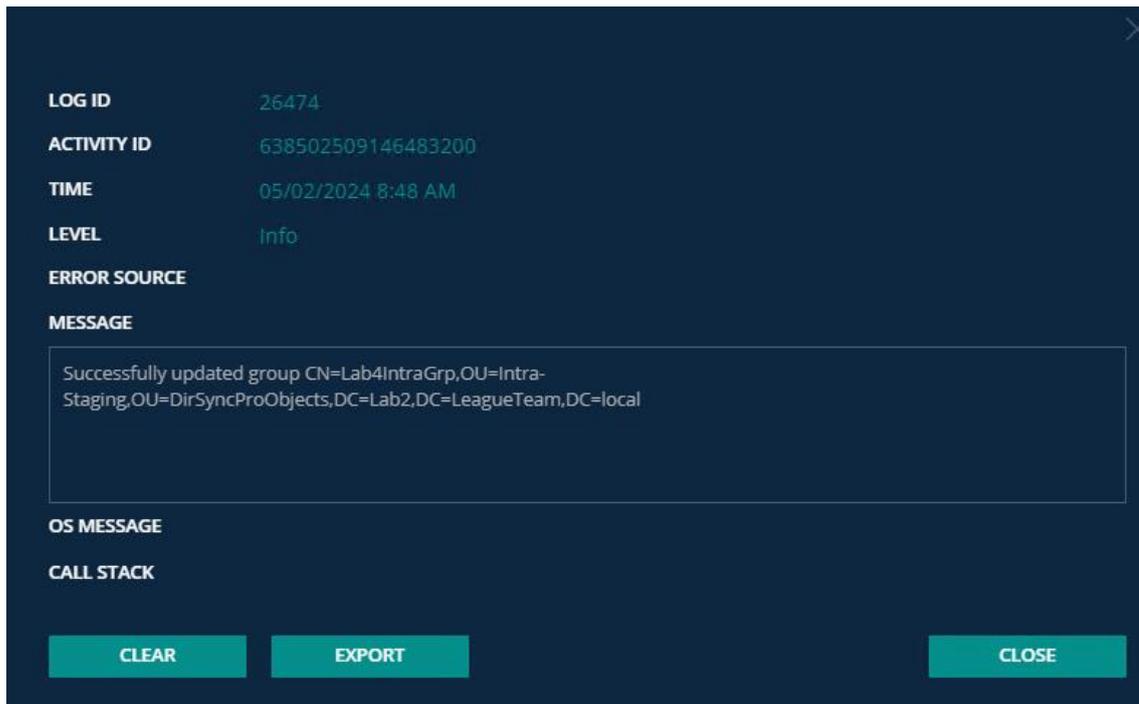
Buttons for 'CLEAR', 'EXPORT', and 'CLOSE' are visible at the bottom of the detailed log view.

7. Verify the objects are created as expected in the target child domain via the Domain Controller. sidHistory should not be migrated to these objects from their source domain in the same forest at this point.

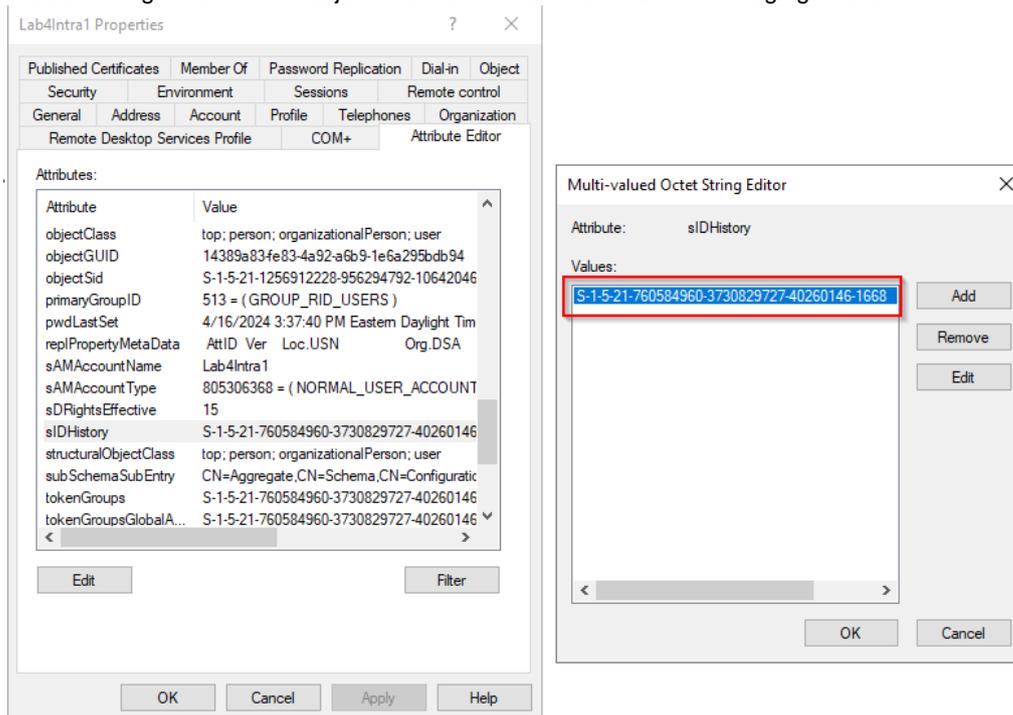
Migrating the objects to the staging forest

Follow these steps to migrate the sidHistory to the staging forest.

1. Launch the Directory Sync Pro web portal.
2. Select the **Stage Environment** Profile and click on **Manage**.
3. Click on **Synchronization**.
4. Select the **PUSHPULL** and click on **Run Sync**.
5. Click on **Logs and Reports** and click on **Sync Logs** to review the log.
6. Verify the profile was synced successfully and there should be no errors. Some of the examples of logging we expect to see are listed below.



7. Verify the objects are created as expected in the staging forest via the Domain Controller. sIDHistory should be migrated to these objects from their source domain to the staging forest.

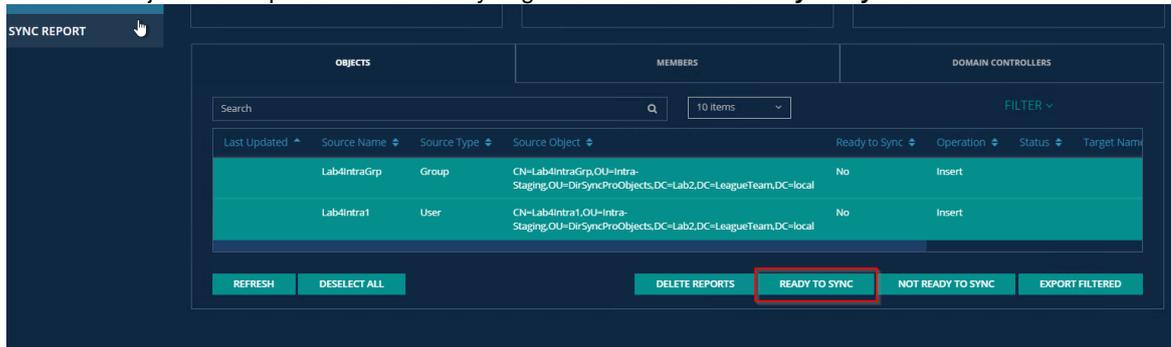


Migrating the sIDHistory from the staging forest to the target domain

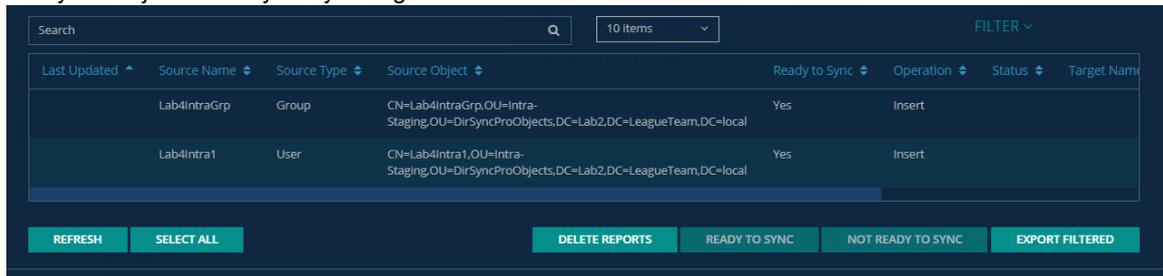
Follow these steps to migrate the sIDHistory from the staging forest to intra-forest target domain.

1. Launch the Directory Sync Pro web portal.
2. Select the **sIDHistory** Profile and click on **Manage**.

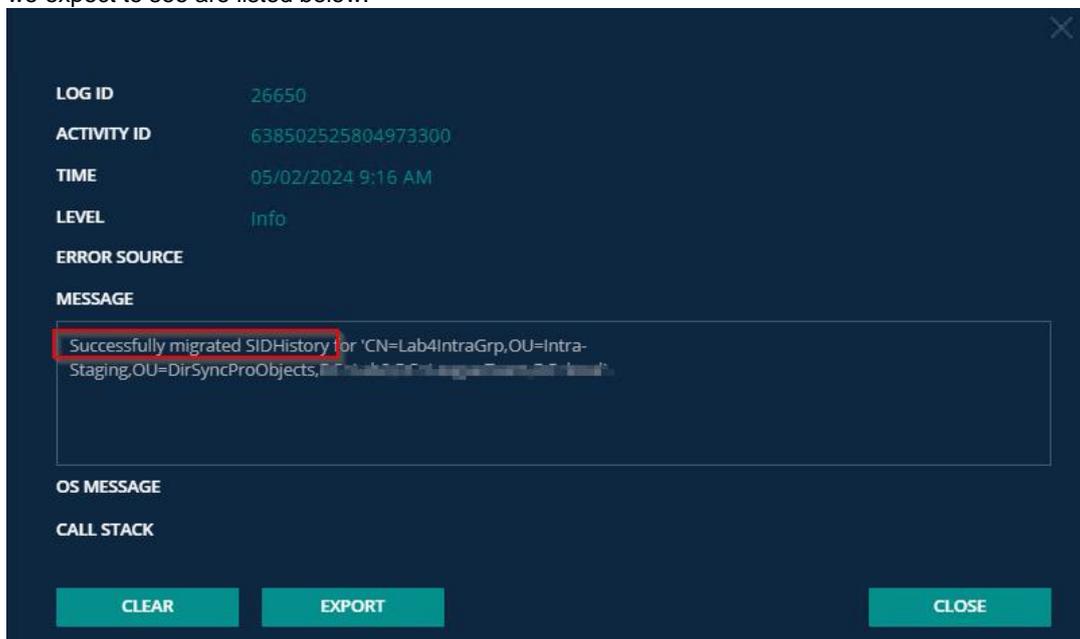
- Click on **Synchronization**.
- Select the **PUSHPULL** and click on **Run Sync**.
- Click on the Sync Report after the sync is completed.
- Select the objects in-scope for the sIDHistory migration and click on **Ready to Sync**.



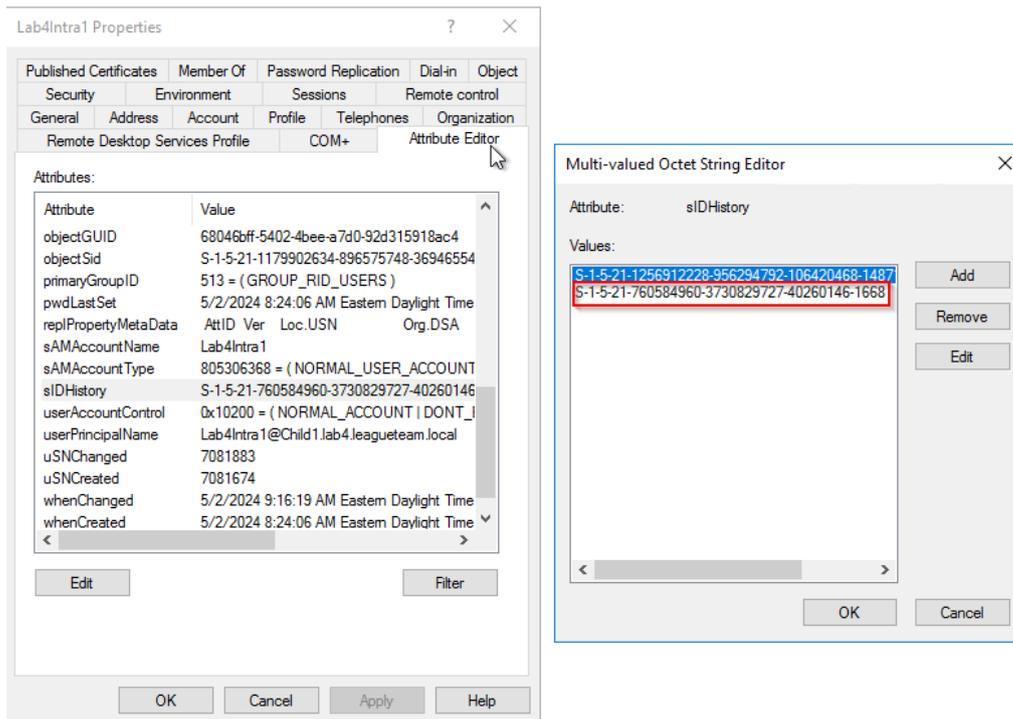
- Verify the object's Ready to Sync flag are set to Yes.



- Click on **Synchronization**.
- Select the **PUSHPULL** and click on **Run Sync**.
- Click on Logs and Reports and click on **Sync Logs** to review the log.
- Verify the profile was synced successfully and there should be no errors. Some of the examples of logging we expect to see are listed below.



- Verify the objects are created as expected in the target child domain via the Domain Controller. sIDHistory should be migrated to these objects from their source domain to the staging forest.



FAQ

Question: How do I promote the staging forest; is there an automated method?

Refer to the below high-level steps to configure the staging forest. Assuming you have a fresh installation of Windows Server 2019 with the default Server installation. This server is intended to be the first domain controller in a new Active Directory forest used as the staging forest. Prior to attempting to promote this server to a domain controller, complete the following configuration:

- Install all the available Windows Updates.
- Configure the system time zone.
- Configure the computer name.
- Configure a static IP address.
- Install the Active Domain Service Feature using below PowerShell Command.
`Install-WindowsFeature -Name AD-Domain-Services`
- Configure the Safe Mode Admin Password.
`$Password = Read-Host -Prompt 'Enter SafeMode Admin Password' -AsSecureString`
- Install and configure the domain.
`Install-ADDSForest -CreateDnsDelegation:$false -DatabasePath C:\Windows\NTDS -DomainMode WinThreshold -DomainName staging.local -DomainNetbiosName staging -ForestMode WinThreshold -InstallDns:$true -LogPath C:\Windows\NTDS -NoRebootOnCompletion:$true -SafeModeAdministratorPassword $Password -SysvolPath C:\Windows\SYSVOL -Force:$true`

Question: Why do we need to disable Group Membership Syncing for the Staging Profile and sIDHistory Profile?

Group Membership Syncing is time consuming as it needs to read every member in the group. For the purpose of sIDHistory Migration, Group membership is not required, and we can save time by disabling the group membership syncing option.

Question: Can I setup the sync profile to sync sIDHistory automatically to the target based on my user migration schedule?

Yes, you may configure the Staging and sIDHistory profile to process only objects that were migrated using an LDAP filter. Assuming you have migrated your users, you may update your source objects with 'Migrated' value in one of the AD attributes (ExtensionAttribute1), the Staging and sIDHistory profiles can be configured to only process objects with 'Migrated' stamped in ExtensionAttribute1.

Question: After I migrate the sIDHistory, should I do anything to my source objects; will there be a problem if the sID exists in both objects in the same forest?

You need to delete the source objects that are migrated after sIDHistory are copied.

Question: Can I pre-stage my objects in the staging forest before my user cutover events?

Yes, you may pre-stage your users and groups from the source domain in the staging forest ahead of your migration cutover event.

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