



Quest® Directory Sync Pro 20.11.5

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

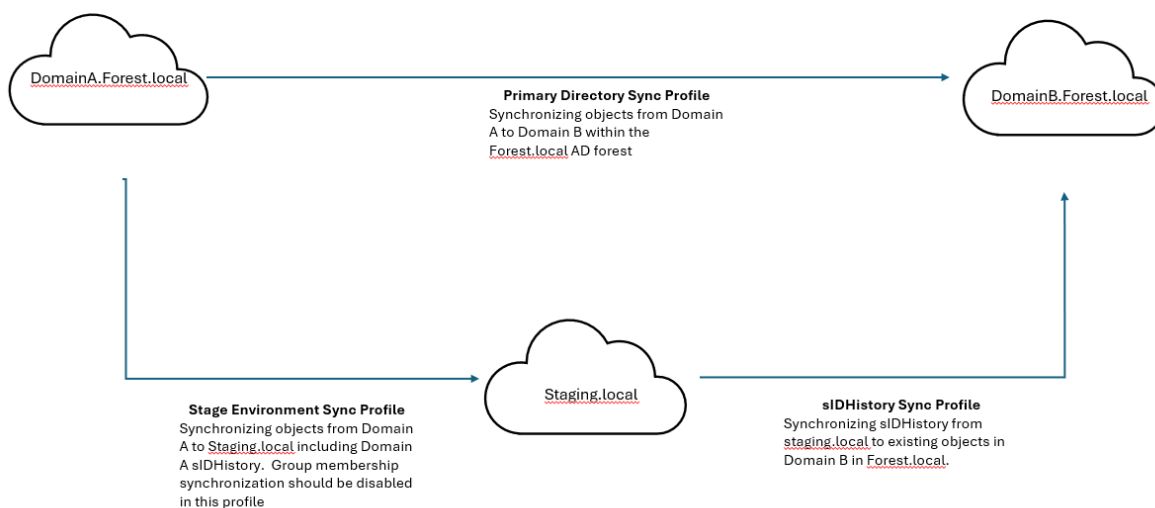
- A pre-configured staging domain forest

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

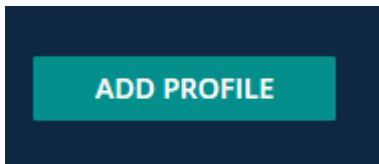
This section explains how to set up Directory Sync Profiles for Staged sIDHistory Migrations. The following Sync Profiles will be created as part of this Quick Start Guide:

- 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.

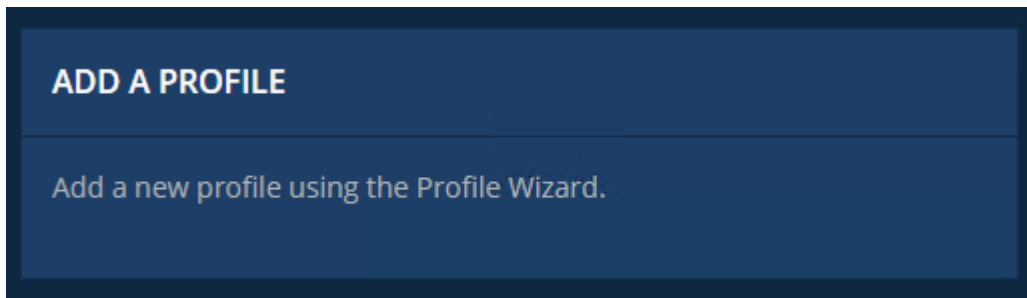
Setting up the Primary Directory Sync Profile

Follow these steps to setup the Primary Directory Sync Profile.

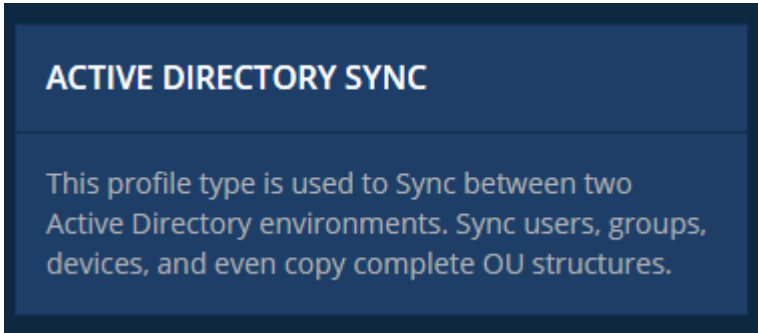
1. Launch the Directory Sync Pro web portal.
2. Click on the Add Profile button.



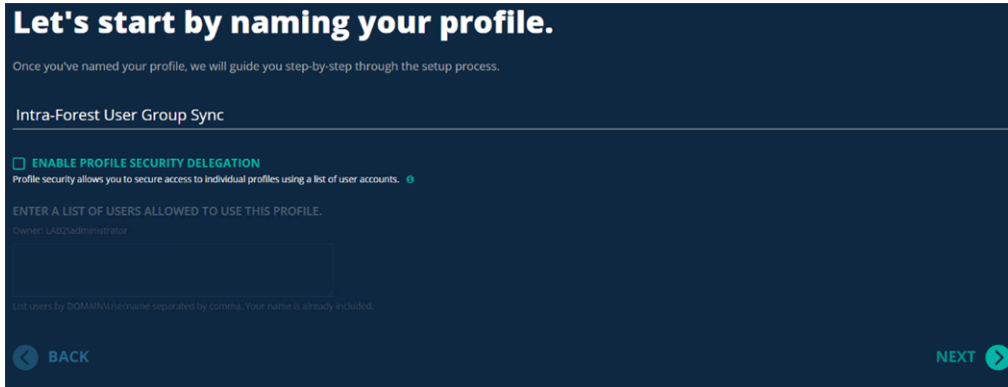
3. Click on the Add A Profile Option.



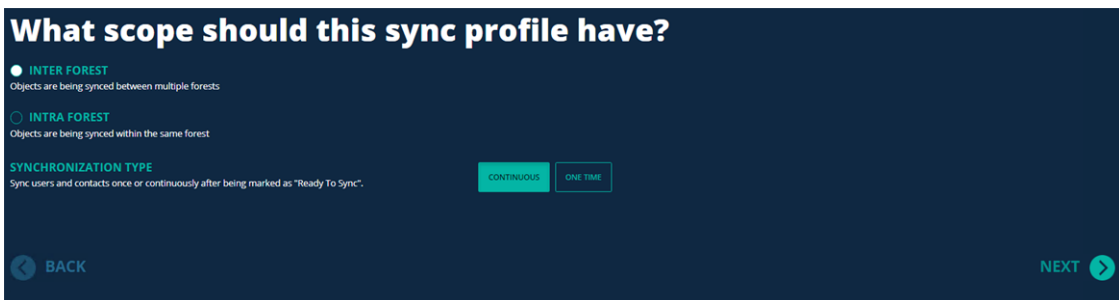
4. Select the Active Directory Sync Option.



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



6. Select Inter Forest. Click Next.



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.

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.

lab4\administrator

.....

BACK

NEXT

11. 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

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NEXT

12. 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::eb57:4440:1c44:683f%12			✓

ADD DC

REMOVE

PING

CONNECT

BACK

NEXT

13. 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"/>

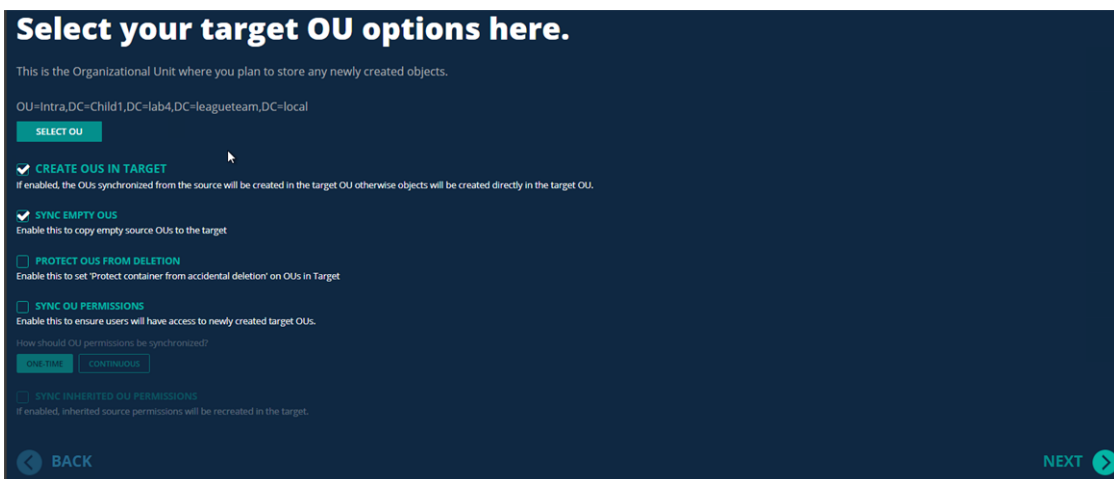
ADD OUS

REMOVE OU

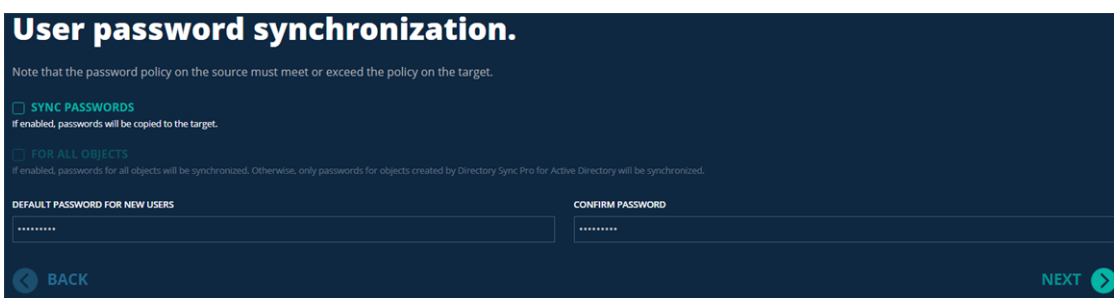
BACK

NEXT

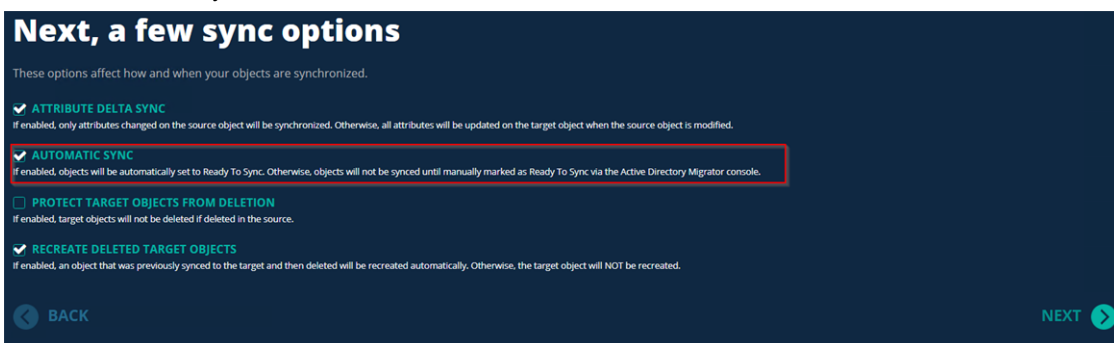
14. Click Select OU and configure the Organizational Units for the target domain. Click Next.



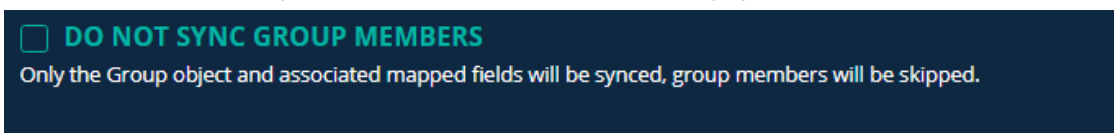
15. Enter the Default Password for new users. Click Next.



16. Enable Automatic Sync. Click 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.



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.

How would you like to handle your Matching options?

For more information click here.

MATCHING LEVEL METHOD
This option chooses the search area for matching objects.

FOREST DOMAIN

MATCHING ACTION
This option controls what is done when a matching target object is found.

CREATE OR UPDATE CREATE ONLY UPDATE ONLY MATCHING ONLY, NO UPDATE

MATCH OBJECT TYPES
If enabled, target objects must also match on object type. This includes users, contacts and group object types.

RELINK OBJECTS
Target objects previously created by Directory Sync Pro for Active Directory that are no longer in the database, will still be recognized as a match during the matching process.

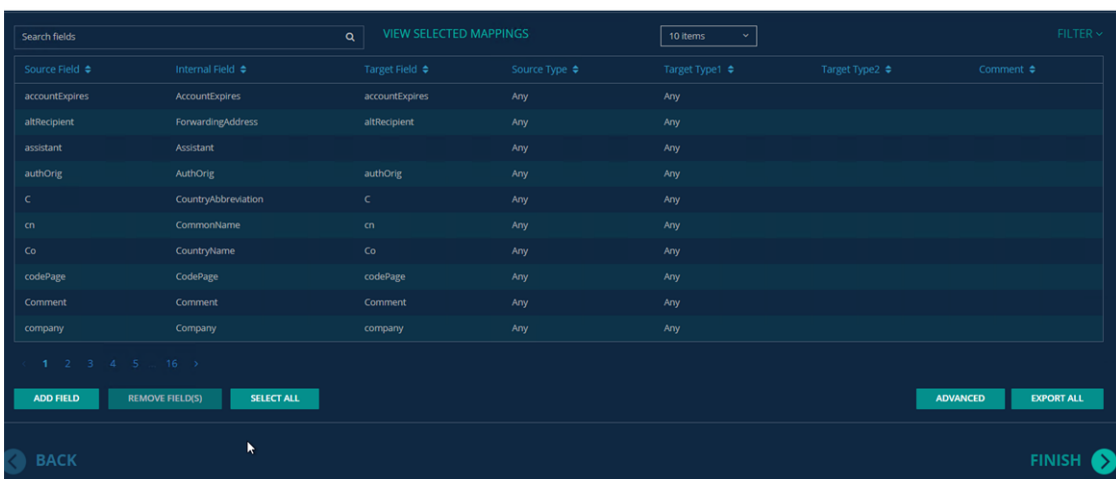
RESTORE READY-TO-SYNC
Mark re-linked objects as ready to sync.

[BACK](#) [NEXT](#)

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



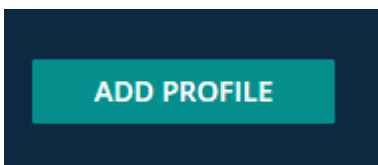
26. Review and configure the mapping attribute based on the project scope. Click Finish to complete the profile configuration for the Primary Profile.



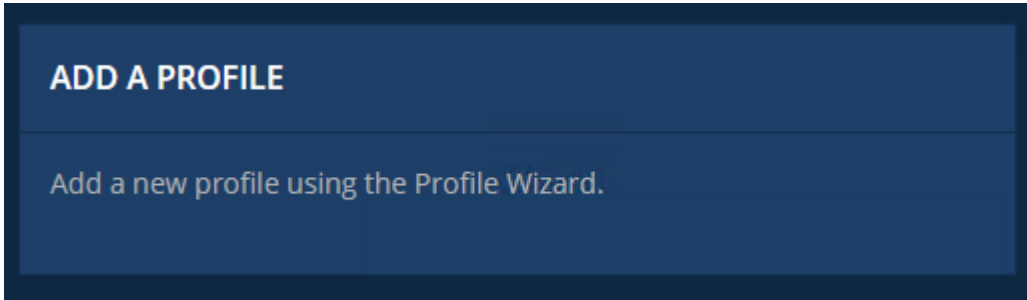
Setting up the Stage Environment Profile

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.

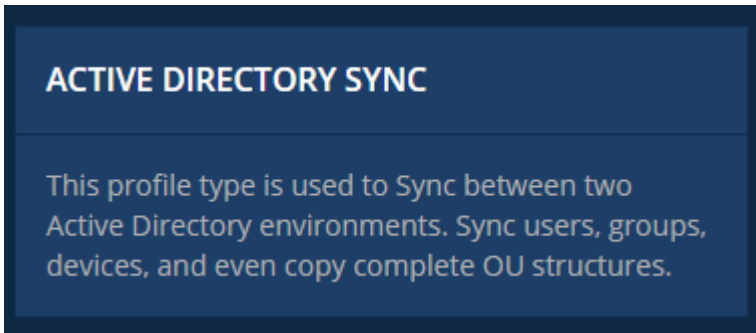
1. Launch the Directory Sync Pro web portal.
2. Click on the Add Profile button.



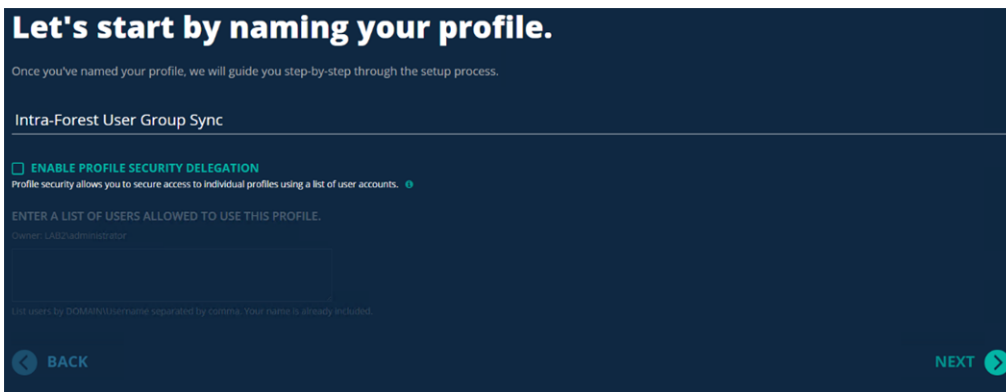
3. Click on the Add A Profile option.



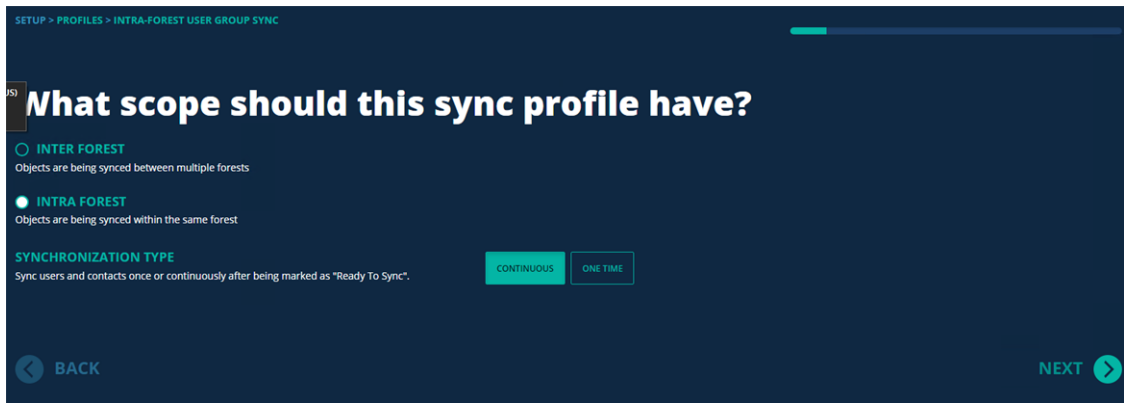
4. Select the Active Directory Sync option.



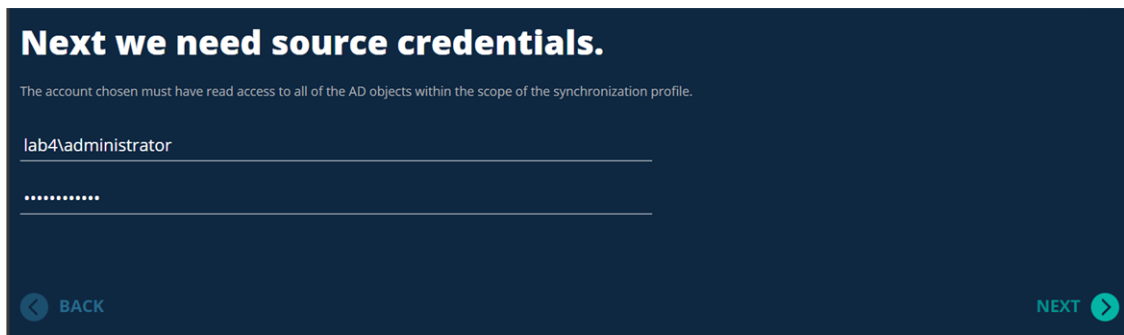
5. Name the Sync Profile (example, Intra-Forest User Group Sync). Click Next.



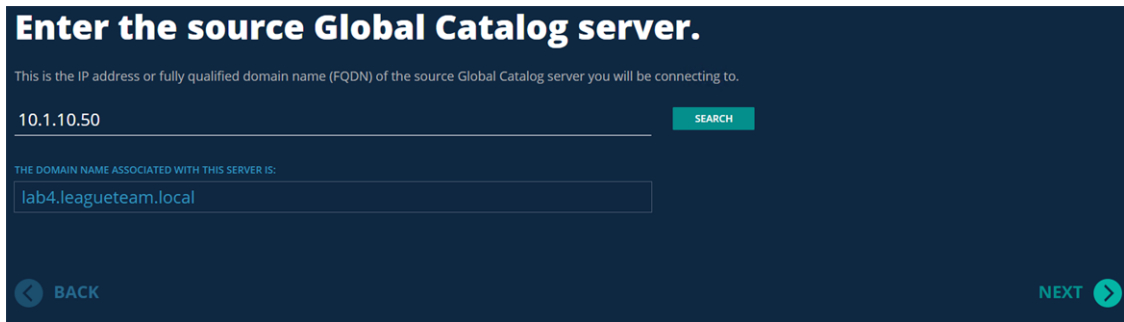
6. Select Intra Forest. Click Next.



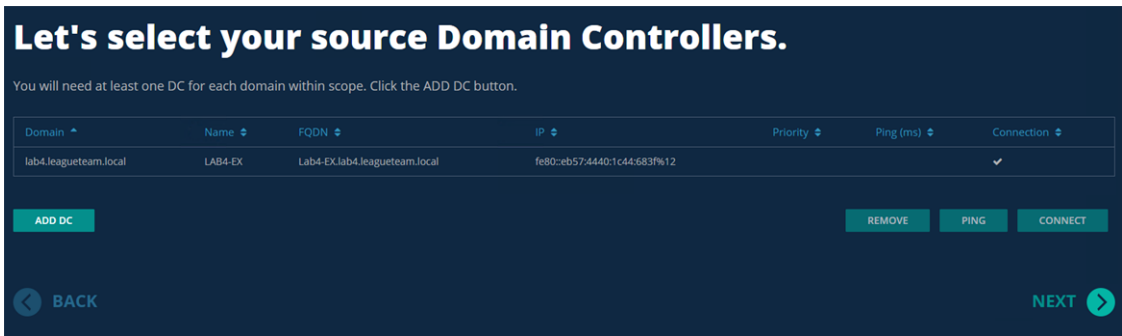
7. Use the default Logging Level. Click Next.
8. Use the default sync interval option. Click Next.
9. Note, configure sync interval if you wish to run the sync profile automatically.
10. Enter the source credential. Click Next.



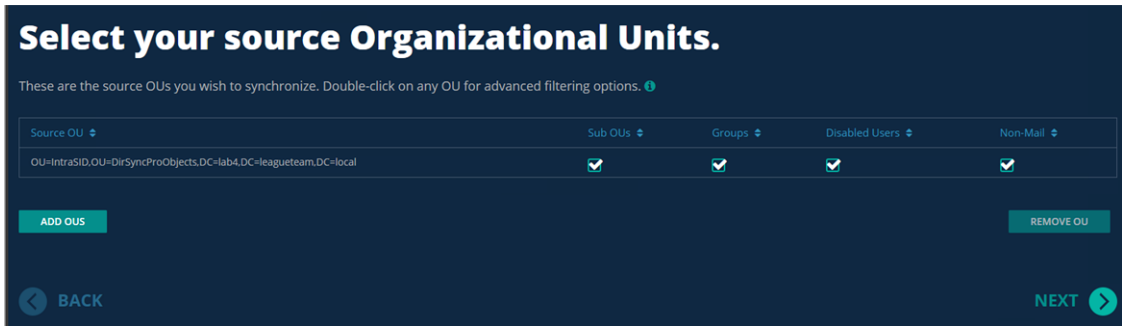
11. Enter the source Global Catalog Server. Click Search and then Next.



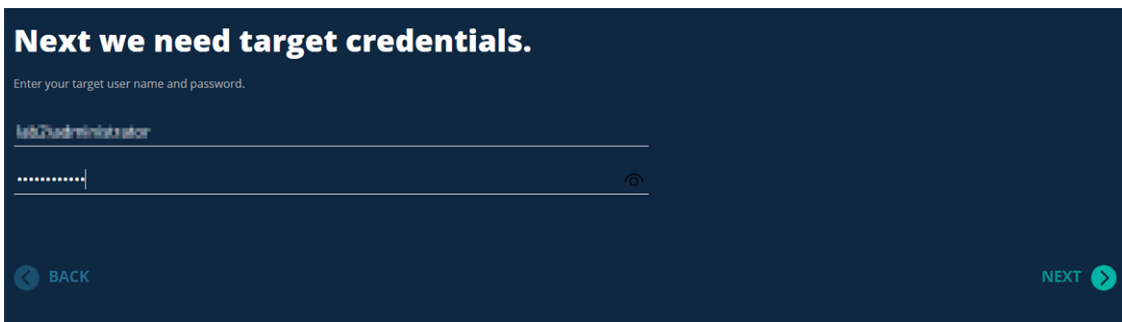
12. Click Add DC and configure the Global Catalog Server for the Source Domain. Click Next.



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



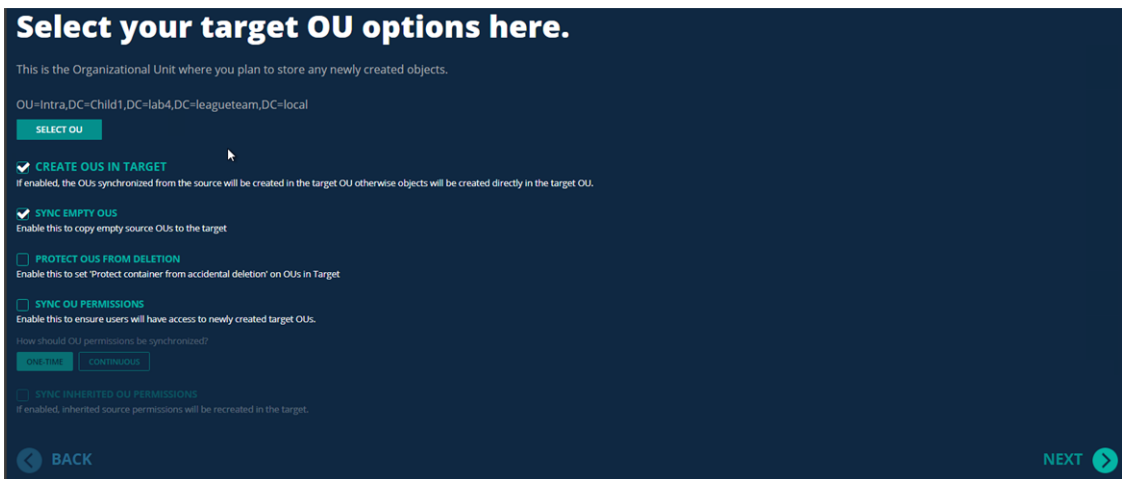
- Enter the target Global Catalog Server. Click Search and then Next.



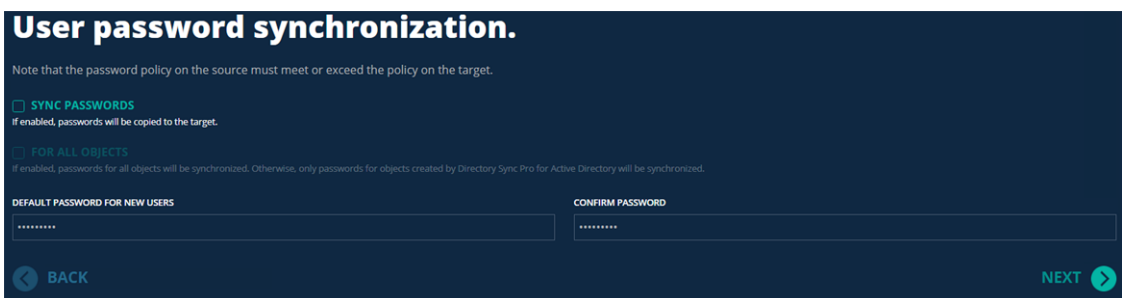
- Click Add DC and configure the Global Catalog Server for the target Domain. Click Next.



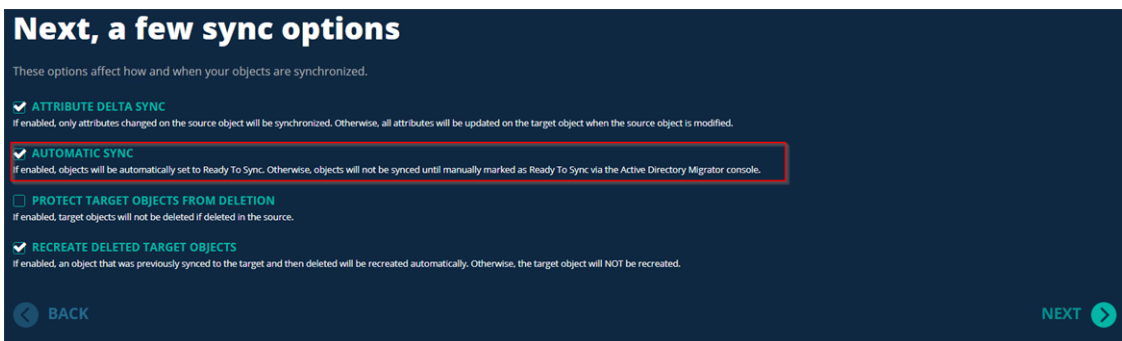
- Enter the target Global Catalog Server. Click Search and then Next.
- Click Add DC and configure the Global Catalog Server for the Target Domain. Click Next.
- Click Select OU and configure the Organizational Units for the target domain. Click Next.



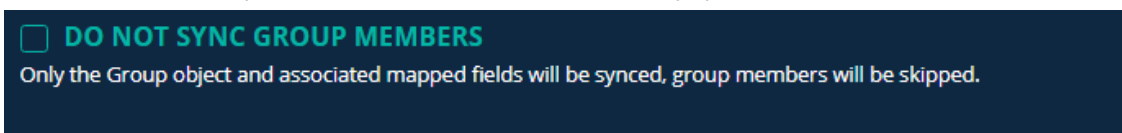
19. Enter the Default Password for new users. Click Next.



20. Enable Automatic Sync. Click Next.



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.



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.

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.

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

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

26. 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

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

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

How would you like to handle your Matching options?

For more information click here.

MATCHING LEVEL METHOD
This option chooses the search area for matching objects.

FOREST DOMAIN

MATCHING ACTION
This option controls what is done when a matching target object is found.

CREATE OR UPDATE CREATE ONLY UPDATE ONLY MATCHING ONLY, NO UPDATE

MATCH OBJECT TYPES
If enabled, target objects must also match on object type. This includes users, contacts and group object types.

RELINK OBJECTS
Target objects previously created by Directory Sync Pro for Active Directory that are no longer in the database, will still be recognized as a match during the matching process.

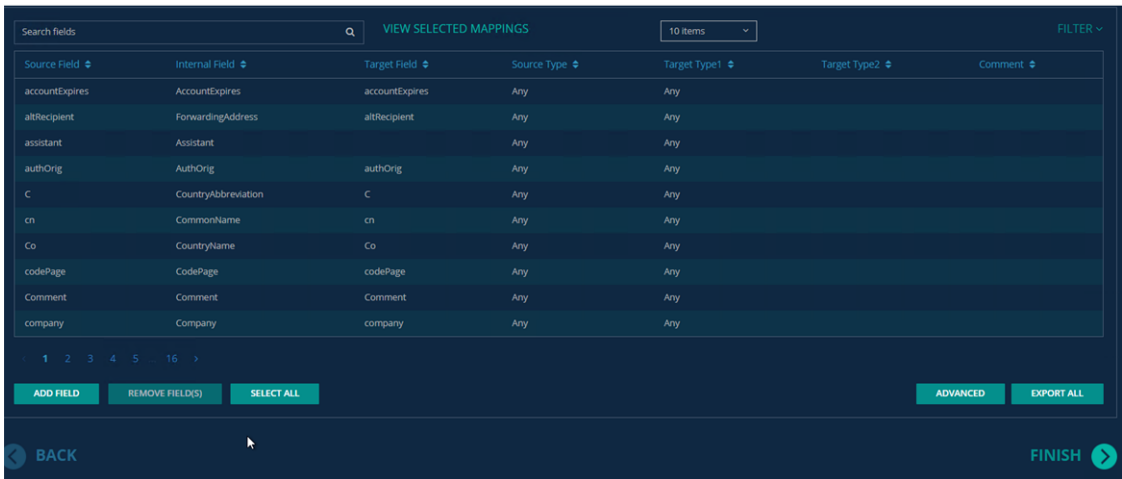
RESTORE READY-TO-SYNC
Mark re-linked objects as ready to sync.

BACK 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.



Setting up the sIDHistory Profile

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

Migrating the sIDHistory

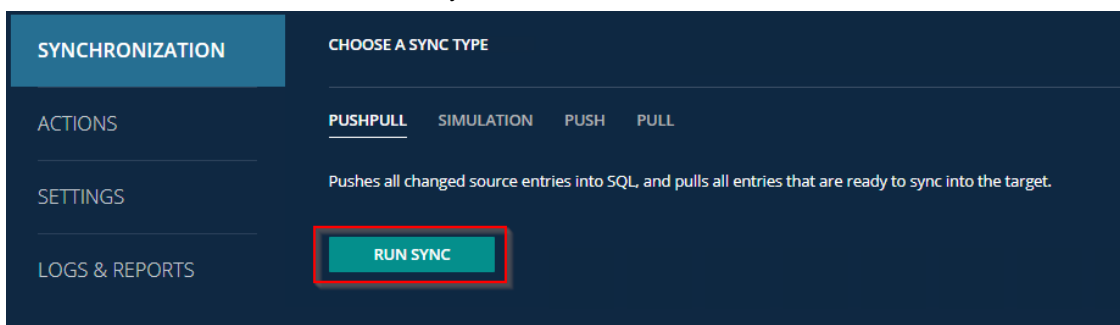
This section explains the step-by-step instructions on how to migrate sIDHistory in an Intra-Forest setup using the Directory Sync Profiles configured in the previous steps. The migration consists of three (3) steps:

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 PUSH/PULL 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.

Log ID	Activity ID	Time	Level	Message
26289	638502494505733100	05/02/2024 8:24 AM	Status	Pull complete
26288	638502494505733100	05/02/2024 8:24 AM	Status	Saved profile Lab4 to Lab4-Child (14). Sync of target has completed
26287	638502494501897200	05/02/2024 8:24 AM	Status	Done syncing target OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local using server 10.1.10.52 (fe80:d10b:3167:437c:8778%12) for source OU=IntraSID,OU=DirSyncProObjects,DC=lab4,DC=leagueteam,DC=local
26286	638502494479516800	05/02/2024 8:24 AM	Debug	Updated object during UpdateObject Object DN: CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local Result code: Success Object attributes: member = CN=Lab4Intra1,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local
26285	638502494479516800	05/02/2024 8:24 AM	Debug	LDAP to 10.1.10.52 (fe80:d10b:3167:437c:8778%12) for CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local Request type: System.DirectoryServices.Protocols.SearchRequest : User: lab4administrator
26284	638502494479516800	05/02/2024 8:24 AM	Debug	LDAP to 10.1.10.52 (fe80:d10b:3167:437c:8778%12) for CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local Request type: System.DirectoryServices.Protocols.ModifyRequest : User: lab4administrator
26283	638502494479516800	05/02/2024 8:24 AM	Debug	LDAP to 10.1.10.52 (fe80:d10b:3167:437c:8778%12) for CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local Request type: System.DirectoryServices.Protocols.SearchRequest : User: lab4administrator
26282	638502494479516800	05/02/2024 8:24 AM	Info	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'

LOG ID 26276

ACTIVITY ID 638502494479516800

TIME 05/02/2024 8:24 AM

LEVEL Info

ERROR SOURCE

MESSAGE

Successfully created group CN=Lab4IntraGrp, (CN=Lab4IntraGrp,OU=Intra,DC=Child1,DC=lab4,DC=leagueteam,DC=local)

OS MESSAGE

CALL STACK

CLEAR
EXPORT
CLOSE

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 PUSH/PULL 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.

LOG ID 26474

ACTIVITY ID 638502509146483200

TIME 05/02/2024 8:48 AM

LEVEL Info

ERROR SOURCE

MESSAGE

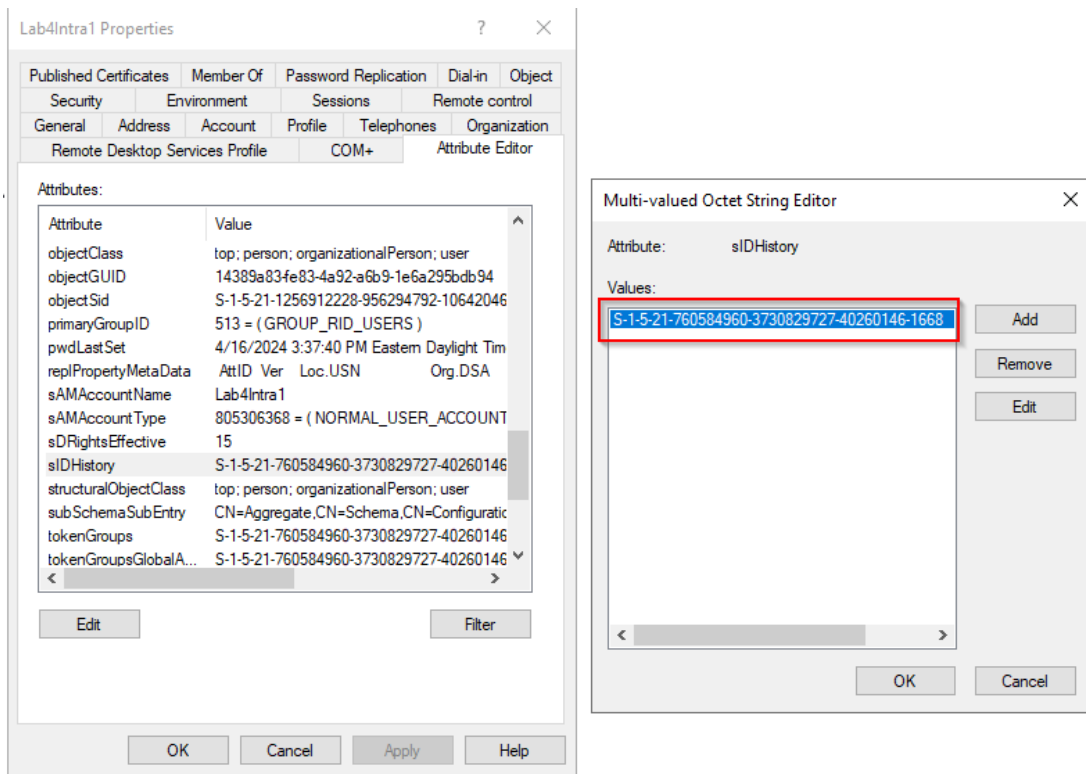
Successfully updated group CN=Lab4IntraGrp,OU=Intra-Staging,OU=DirSyncProObjects,DC=Lab2,DC=LeagueTeam,DC=local

OS MESSAGE

CALL STACK

CLEAR **EXPORT** **CLOSE**

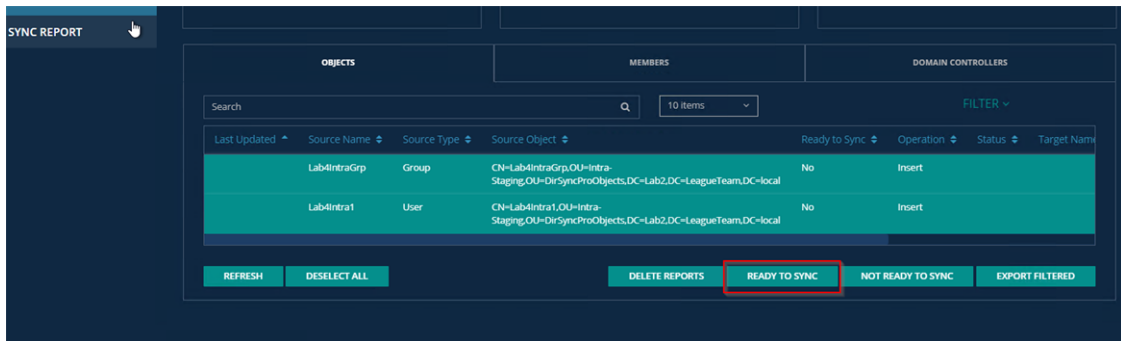
7. Verify the objects are created as expected in the staging forest via the Domain Controller. sIDHistory should be migrated to these objects from their source domain to the staging forest.



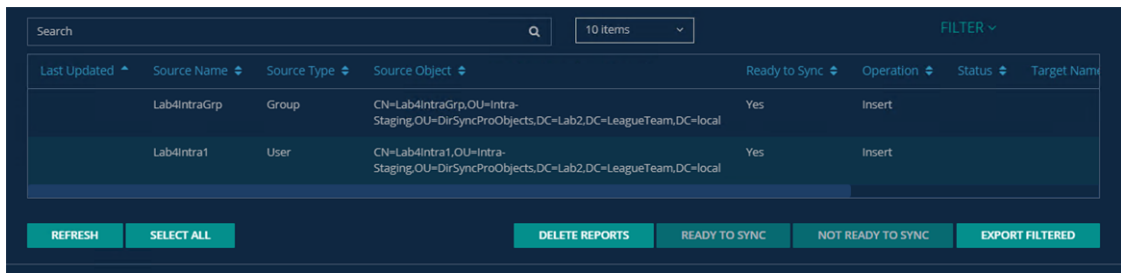
Migrating the sIDHistory from the staging forest to the target domain

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.
3. Click on Synchronization.
4. Select the PUSH/PULL and click on Run Sync.
5. Click on the Sync Report after the sync is completed.
6. Select the objects in-scope for the sIDHistory migration and click on Ready to Sync.



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

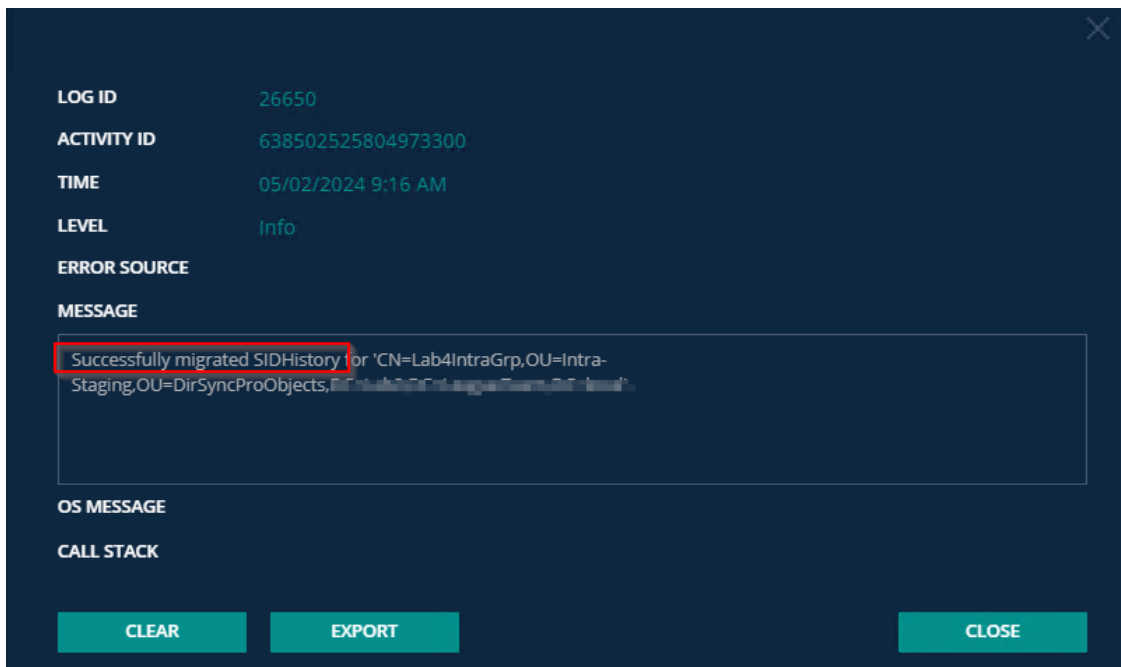


8. Click on Synchronization.

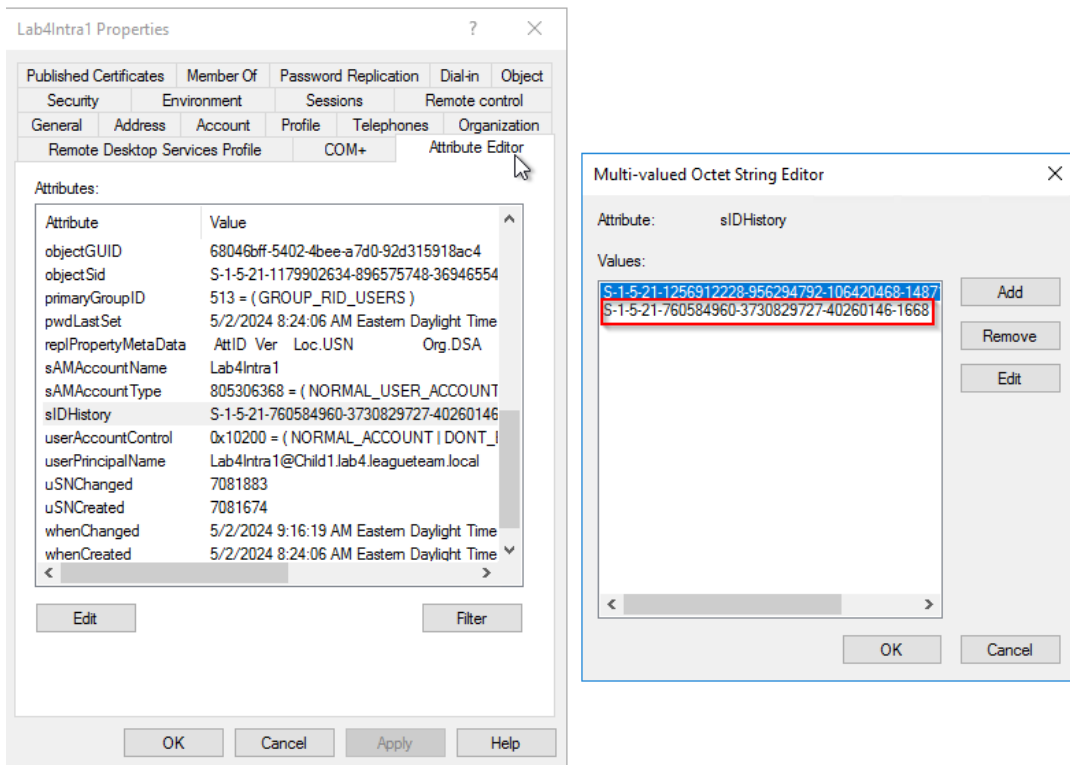
9. Select the PUSH/PULL and click on Run Sync.

10. Click on Logs and Reports and click on Sync Logs to review the log.

11. 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.



Frequently Asked Questions (FAQs)

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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Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product