

IT 236 Project Report Form

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Date:	11/26/2025
Project Phase	NewVue Hybrid Implementation

Section 1: Executive Summary (15 Points)

This phase of the NewVue Health Infrastructure Modernization Project focused on preparing the on-premises Active Directory environment for hybrid identity and enabling directory synchronization with Microsoft Entra ID. A restore checkpoint was created prior to configuration, the cloud tenant domain was identified, directory objects were validated and remediated using IdFix, on-prem user UPNs were aligned with the cloud domain, and Microsoft Entra Connect was installed and configured to perform Password Hash Synchronization. Synchronization was validated using both the Synchronization Service Manager and the Entra Admin Center before testing cloud authentication using a synchronized user account.

Tenant Domain: leegiseungprotonmail.onmicrosoft.com

The screenshot shows the Microsoft Entra admin center interface. The left sidebar contains a navigation menu with categories like Home, Identity, Recovery, Access, Groups, Devices, Agent of devices, Connected tenant partners, Custom policies, Conditional access, Multifactor authentication, Identity features (disabled), Authentication methods, Account recovery (disabled), Device used (disabled), Custom security policies, Contact support, External services, Cross-tenant communication, User Control, Device names, Custom branding, Mobility, and Monitoring & health.

The main content area displays the "Default Directory" page for the tenant "leegiseungprotonmail.onmicrosoft.com". Key details shown include:

- Name:** Default Directory
- Object ID:** 0eef4f90-e410-40d1-aedc-1e62362a2e21
- Owner:** Global
- Microsoft domain:** leegiseungprotonmail.onmicrosoft.com
- Application:** Application
- License:** Microsoft Entra ID - E3
- Owner:** Global

A prominent warning message at the top right says: "Migrate to the converged authentication endpoint policy. Please migrate your authentication methods from AD FS and ADFS policies to Azure Active Directory Identity Service instead." It includes a "Learn more" link.

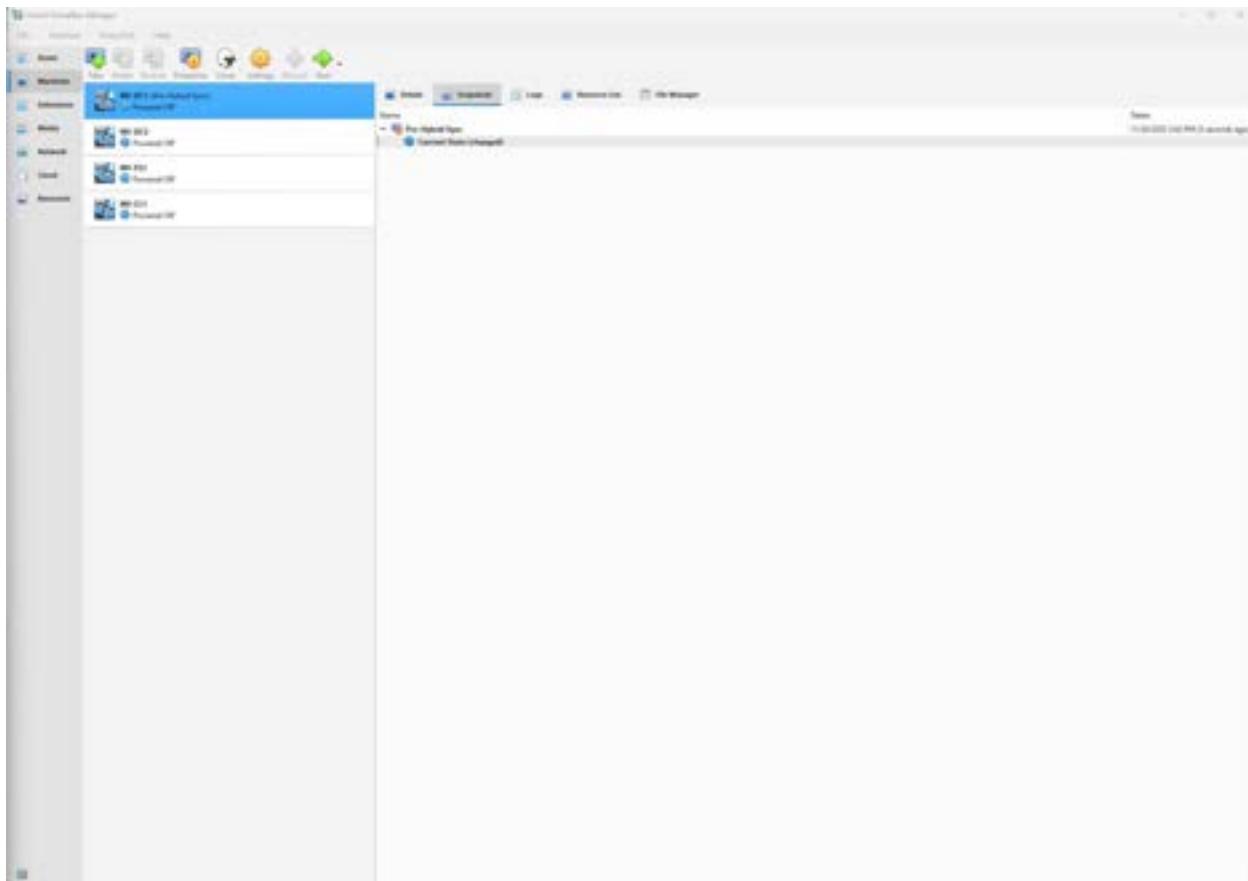
The "My feed" section lists two items:

- User Activity:** [Status: 0 new] [Last updated: 1 day ago] [Details: Global Administrator] [View details]
- Microsoft Entra Connect:** [Status: 0 new] [Last updated: 1 day ago] [Details: Sync this tenant now] [Sync now]

The "Features highlights" section contains six cards:

- Identity Protection:** Helps detect, block, and mitigate identities and risky sign-ins in your tenant.
- Multi-factor auth:** Grant customers and delegates an additional layer of security with Microsoft Authenticator [Learn more]
- Access review:** Helps users only they might have continued access.
- Authentication methods:** Intelligent user access in the authentication endpoint, helping to enable passwordless authentication.
- Microsoft Entra Premium service:** Get end-to-end hybrid application running on-premises with Azure.
- Device registration:** Specify the list of brands that their users are permitted to access.
- Pledged Identity Management:** Streamline control, and monitor access to registered identities in your organization.
- Conditional access:** Control user access based on Conditional Access policy by bring together together to make decisions and enforce organizational policies.

Snapshot Name: Pre-Hybrid Sync



Section 2: Implementation & Verification Evidence

Task 1- Directory Validation and Remediation (IdFix) (20 pts)

IdFix was installed and used to scan the NewVue organizational units for directory objects that contained attributes incompatible with Microsoft Entra synchronization. All detected issues—including illegal characters, formatting problems, and attribute inconsistencies—were reviewed, and the recommended corrections were applied using the Accept and Apply workflow.

Summary of Issues Identified and Remediation Applied:

IdFix was deployed to scan NewVue's organizational units, identifying multiple user objects with incomplete directory attributes. The primary issue detected was **blank displayName attributes** across numerous users in various departments including Administration, Clinical Services, Human Resources, IT Operations, and Finance. The tool recommended completing these blank fields with the users' SamAccountName values as the correction. All identified errors were systematically reviewed within the IdFix interface, and the tool's recommended corrections were applied using the Accept and Apply workflow. This comprehensive remediation ensured all directory objects met Microsoft's synchronization standards by providing complete attribute information, eliminating potential synchronization blockers for hybrid identity integration with Microsoft Entra ID.

Evidence to Upload

- Evidence 1: IdFix results before remediation

The screenshot shows a Windows desktop environment with a virtual machine running Oracle VirtualBox. The virtual machine window title is "NW-DC1 (Pre-Hybrid Sync) (Running) - Oracle VirtualBox". Inside the VM, the IdFix version 2.4.0.0 interface is displayed. The main window shows a table of user objects from an Active Directory structure. The columns are: DISTINGUISHEDNAME, OBJECTCLASS, ATTRIBUTE, ERROR, VALUE, UPDATE, and ACTION. The table lists 20 users, all of whom have an error in the 'displayname' attribute, which is set to 'Blank'. The 'ACTION' column contains a series of checkmarks. At the bottom of the table, it says "Total Error Count: 104". The desktop background of the host machine shows icons for Recycle Bin, Google Chrome, Windows Admin Center, and Microsoft Edge. The taskbar at the bottom shows various pinned icons and the system clock indicating 3:54 PM on 11/24/2025.

DISTINGUISHEDNAME	OBJECTCLASS	ATTRIBUTE	ERROR	VALUE	UPDATE	ACTION
CN=ACiek.OU=Users.OU=Ad...	user	displayName	Blank		ACiek	✓
CN=AGarcia.OU=Users.OU=Ad...	user	displayName	Blank		AGarcia	✓
CN=AGonzalez.OU=Users.OU=...	user	displayName	Blank		AGonzalez	✓
CN=AKing.OU=Users.OU=IT...	user	displayName	Blank		AKing	✓
CN=AMahboub.OU=Users.OU=...	user	displayName	Blank		AMahboub	✓
CN=AWalker.OU=Users.OU=...	user	displayName	Blank		AWalker	✓
CN=BAdams.OU=Users.OU=...	user	displayName	Blank		BAdams	✓
CN=BCarter.OU=Users.OU=H...	user	displayName	Blank		BCarter	✓
CN=BFlores.OU=Users.OU=IT...	user	displayName	Blank		BFlores	✓
CN=BGonzalez.OU=Users.OU=...	user	displayName	Blank		BGonzalez	✓
CN=BLopez.OU=Users.OU=H...	user	displayName	Blank		BLopez	✓
CN=BMartin.OU=Users.OU=C...	user	displayName	Blank		BMartin	✓
CN=BMiller.OU=Users.OU=IT...	user	displayName	Blank		BMiller	✓
CN=BScott.OU=Users.OU=IT...	user	displayName	Blank		BScott	✓
CN=CCampbell.OU=Users.OU=...	user	displayName	Blank		CCampbell	✓
CN=CCheng.OU=Users.OU=...	user	displayName	Blank		CCheng	✓
CN=CGarcia.OU=Users.OU=...	user	displayName	Blank		CGarcia	✓
CN=CRivera.OU=Users.OU=...	user	displayName	Blank		CRivera	✓
CN=CThomas.OU=Users.OU=...	user	displayName	Blank		CThomas	✓
CN=CThompson.OU=Users.OU=...	user	displayName	Blank		CThompson	✓
CN=CWright.OU=Users.OU=...	user	displayName	Blank		CWright	✓

- **Evidence 2: IdFix results after remediation**

NV-DCT (Pre-Hybrid Sync) [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Recycle Bin

Google Chrome

Windows Admin Cent...

Microsoft Edge

IdFix version 2.4.0.0

Office 365 Query Accept Apply Export Import Undo

DISTINGUISHEDNAME	OBJECTCLASS	ATTRIBUTE	ERROR	VALUE	UPDATE	ACTION
CN=ADark.OU=Users.OU=Ad...	user	displayName	Bank	ADark	COMP...	▼
CN=AGarcia.OU=Users.OU=H...	user	displayName	Bank	AGarcia	COMP...	▼
CN=AGonzalez.OU=Users.O...	user	displayName	Bank	AGonzalez	COMP...	▼
CN=AKing.OU=Users.OU=IT...	user	displayName	Bank	AKing	COMP...	▼
CN=AMahboub.OU=Users.O...	user	displayName	Bank	AMahboub	COMP...	▼
CN=AWalker.OU=Users.OU=...	user	displayName	Bank	AWalker	COMP...	▼
CN=BAdams.OU=Users.OU=H...	user	displayName	Bank	BAdams	COMP...	▼
CN=BCarter.OU=Users.OU=H...	user	displayName	Bank	BCarter	COMP...	▼
CN=BRoses.OU=Users.OU=R...	user	displayName	Bank	BRoses	COMP...	▼
CN=BGonzalez.OU=Users.O...	user	displayName	Bank	BGonzalez	COMP...	▼
CN=BLopez.OU=Users.OU=H...	user	displayName	Bank	BLopez	COMP...	▼
CN=BMartin.OU=Users.OU=C...	user	displayName	Bank	BMartin	COMP...	▼
CN=EMiller.OU=Users.OU=IT...	user	displayName	Bank	EMiller	COMP...	▼
CN=EScott.OU=Users.OU=IT...	user	displayName	Bank	EScott	COMP...	▼
CN=CCampbell.OU=Users.OU=...	user	displayName	Bank	CCampbell	COMP...	▼
CN=CCheng.OU=Users.OU=...	user	displayName	Bank	CCheng	COMP...	▼
CN=CGarcia.OU=Users.OU=...	user	displayName	Bank	CGarcia	COMP...	▼
CN=CRivera.OU=Users.OU=...	user	displayName	Bank	CRivera	COMP...	▼
CN=CThomas.OU=Users.OU=...	user	displayName	Bank	CThomas	COMP...	▼
CN=CThompson.OU=Users.O...	user	displayName	Bank	CThompson	COMP...	▼
CN=CWright.OU=Users.OU=...	user	displayName	Bank	CWright	COMP...	▼

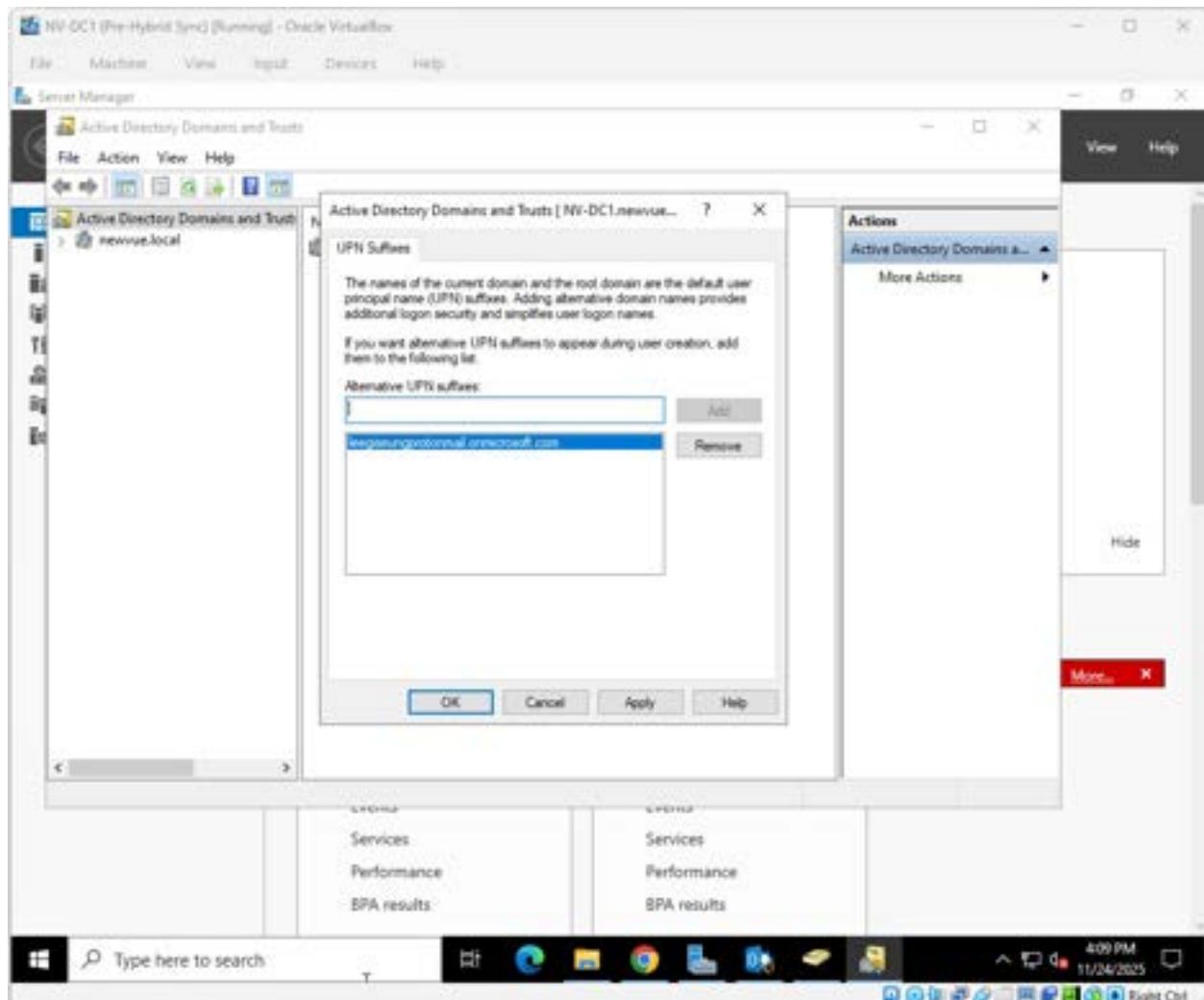
COMPLETE

Windows Server 2022 Datacenter Evaluation
Windows License valid for 126 days.
Build 20348.64_release.210507-1900

3:57 PM 11/24/2025

Type here to search

- **Evidence 3: AD Domains & Trusts showing the cloud UPN suffix**



Task 2— UPN Alignment (PowerShell Automation) (20 pts)

After adding the cloud UPN suffix to Active Directory, PowerShell was used to automate the update of all user UPNs stored within the departmental Users OUs (Administration, Clinical_Services, Human_Resources, IT_Operations, Finance). A verification command was executed to confirm the updated UPNs in one of the OUs.

Summary of UPN Updates Completed:

Following the addition of the cloud UPN suffix (leegiseungprotonmail.onmicrosoft.com) to Active Directory Domains and Trusts, a PowerShell script was executed to systematically update User Principal Names across all departmental Users OUs. The bulk update targeted user accounts in the Administration, Clinical_Services, Human_Resources, IT_Operations, and Finance organizational units. The script logic constructed new UPNs by combining each user's SamAccountName with the cloud domain suffix, effectively transforming legacy UPNs to the new cloud-aligned format (e.g., jsmith@leegiseungprotonmail.onmicrosoft.com). Verification performed on the Human_Resources OU confirmed that all users now display both their SamAccountName and updated UserPrincipalName, successfully preparing these identities for hybrid synchronization with Microsoft Entra ID.

Evidence to Upload

- **Evidence 4:** Screenshot of PowerShell running the bulk UPN update

The screenshot shows a Windows PowerShell window titled "NV-DC1 [Re-Hybrid Sync] [Running] - Oracle VirtualBox". The window contains the following PowerShell script:

```
PowerShell 7.5.4
PS C:\Users\Administrator> Import-Module ActiveDirectory
PS C:\Users\Administrator> $newSuffix = "leegiseungprotoonmail.onmicrosoft.com"
PS C:\Users\Administrator> $OUlist = @(
>>     "OU=Users,OU=Administration,DC=newvive,DC=local",
>>     "OU=Users,OU=Clinical_Services,DC=newvive,DC=local",
>>     "OU=Users,OU=Human_Resources,DC=newvive,DC=local",
>>     "OU=Users,OU=IT_Operations,DC=newvive,DC=local",
>>     "OU=Users,OU=Finance,DC=newvive,DC=local"
>> )
PS C:\Users\Administrator> foreach ($ou in $OUlist) {
>>     Get-ADUser -SearchBase $ou -Filter * -Properties UserPrincipalName,SamAccountName |
>>     Where-Object { $_.UserPrincipalName -like "*@newvive.local" } |
>>     ForEach-Object {
>>         $newUpn = $_.SamAccountName + "@" + $newSuffix
>>         Set-ADUser $_ -UserPrincipalName $newUpn
>>     }
>> }
PS C:\Users\Administrator> Get-ADUser -Filter * -SearchBase "OU=Users,OU=Human_Resources,DC=newvive,DC=local" -Properties UserPrincipalName |
>>     Select SamAccountName, UserPrincipalName
```

Below the command output, a table is displayed:

SamAccountName	UserPrincipalName
JMiller	JMiller@leegiseungprotoonmail.onmicrosoft.com
DAnderson	DAnderson@leegiseungprotoonmail.onmicrosoft.com
RHill	RHill@leegiseungprotoonmail.onmicrosoft.com
MHall	MHall@leegiseungprotoonmail.onmicrosoft.com
KKing	KKing@leegiseungprotoonmail.onmicrosoft.com
MBaker	MBaker@leegiseungprotoonmail.onmicrosoft.com
AGonzalez	AGonzalez@leegiseungprotoonmail.onmicrosoft.com
RJackson	RJackson@leegiseungprotoonmail.onmicrosoft.com
DCampbell	DCampbell@leegiseungprotoonmail.onmicrosoft.com
WAdams	WAdams@leegiseungprotoonmail.onmicrosoft.com
BLopez	BLopez@leegiseungprotoonmail.onmicrosoft.com
DLewis	DLewis@leegiseungprotoonmail.onmicrosoft.com
KYoung	KYoung@leegiseungprotoonmail.onmicrosoft.com
TJohnson	TJohnson@leegiseungprotoonmail.onmicrosoft.com
BCarter	BCarter@leegiseungprotoonmail.onmicrosoft.com
RSanchez	RSanchez@leegiseungprotoonmail.onmicrosoft.com
CGarcia	CGarcia@leegiseungprotoonmail.onmicrosoft.com
MCClark	MCClark@leegiseungprotoonmail.onmicrosoft.com
DCampbell	DCampbell@leegiseungprotoonmail.onmicrosoft.com

The PowerShell window is running on a Windows 7 desktop, as indicated by the taskbar icons and the system tray.

- **Evidence 5:** Screenshot of verification output for the Human_Resources OU

```

PS C:\Users\Administrator> $newsuffix = "leegiseungprotonmail.onmicrosoft.com"
PS C:\Users\Administrator> $OUlist = @(
>     "OU=Users,OU=Administration,DC=newvive,DC=local",
>     "OU=Users,OU=Clinical_services,DC=newvive,DC=local",
>     "OU=Users,OU=Human_Resources,DC=newvive,DC=local",
>     "OU=Users,OU=IT_Operations,DC=newvive,DC=local",
>     "OU=Users,OU=Finance,DC=newvive,DC=local"
> )
>
PS C:\Users\Administrator> Foreach ($ou in $OUlist) {
>     Get-ADUser -SearchBase $ou -Filter * -Properties UserPrincipalName,SamAccountName |
>     Where-Object { $_.UserPrincipalName -like "" } |
>     ForEach-Object {
>         $newupn = $_.SamAccountName + "@" + $newsuffix
>         Set-ADUser $_ -UserPrincipalName $newupn
>     }
> }
PS C:\Users\Administrator> Get-ADUser -Filter * -SearchBase "OU=Users,OU=Human_Resources,DC=newvive,DC=local" -Properties UserPrincipalName |
>     Select SamAccountName, UserPrincipalName

SamAccountName UserPrincipalName
-----
JMiller JMiller@leegiseungprotonmail.onmicrosoft.com
DAnderson DAnderson@leegiseungprotonmail.onmicrosoft.com
RHill RHill@leegiseungprotonmail.onmicrosoft.com
PHall PHall@leegiseungprotonmail.onmicrosoft.com
KKing KKing@leegiseungprotonmail.onmicrosoft.com
MBaker MBaker@leegiseungprotonmail.onmicrosoft.com
AGonzalez AGonzalez@leegiseungprotonmail.onmicrosoft.com
KJackson KJackson@leegiseungprotonmail.onmicrosoft.com
DCampbell DCCampbell@leegiseungprotonmail.onmicrosoft.com
MAdams MAdams@leegiseungprotonmail.onmicrosoft.com
Blopez Blopez@leegiseungprotonmail.onmicrosoft.com
DLewis DLewis@leegiseungprotonmail.onmicrosoft.com
KYoung KYoung@leegiseungprotonmail.onmicrosoft.com
JJohnson JJohnson@leegiseungprotonmail.onmicrosoft.com
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CGarcia CGarcia@leegiseungprotonmail.onmicrosoft.com
MClark MClark@leegiseungprotonmail.onmicrosoft.com
DCampbell DCCampbell@leegiseungprotonmail.onmicrosoft.com

PS C:\Users\Administrator>

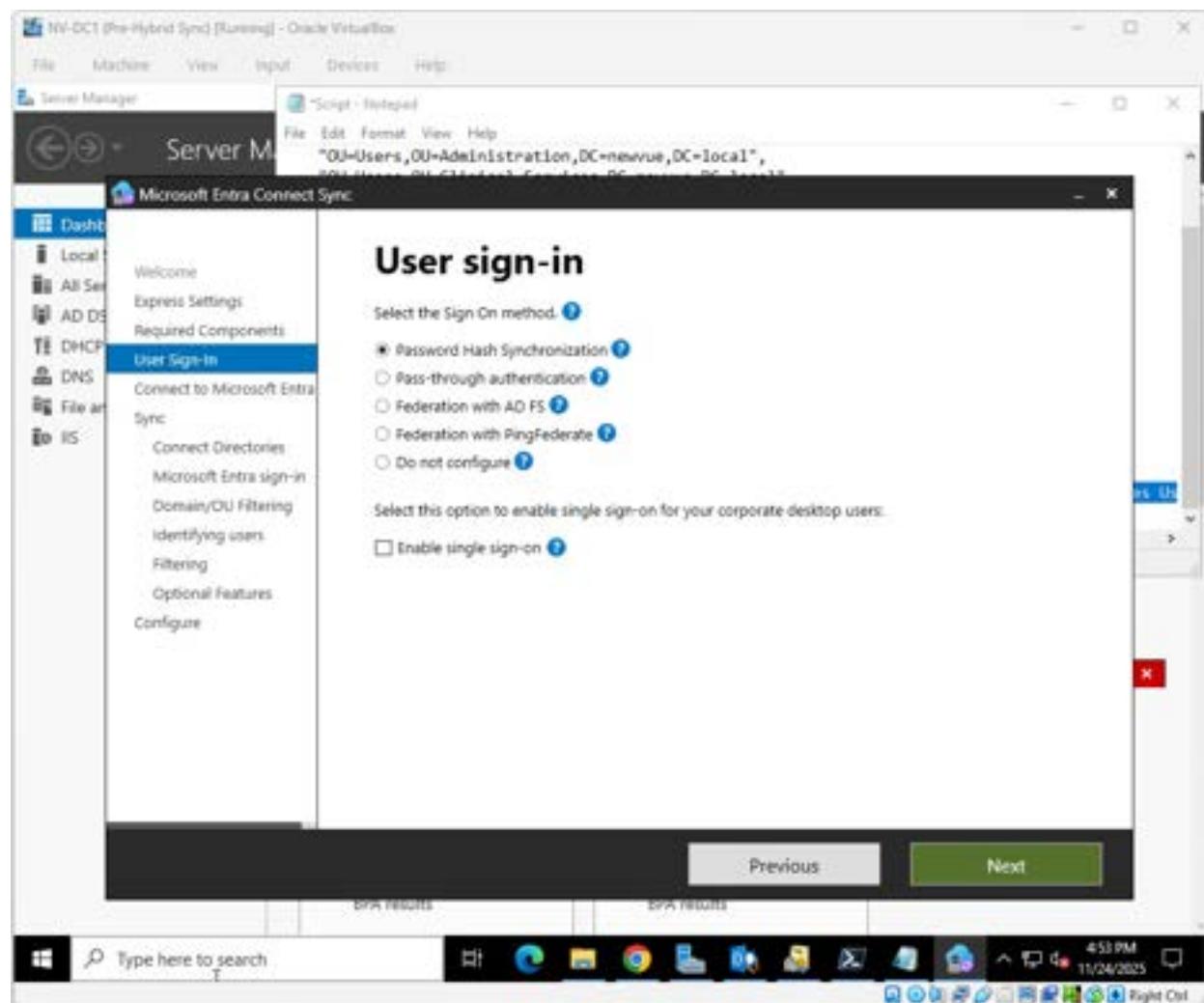
```

Task 3— Microsoft Entra Connect Installation & Configuration (20 points)

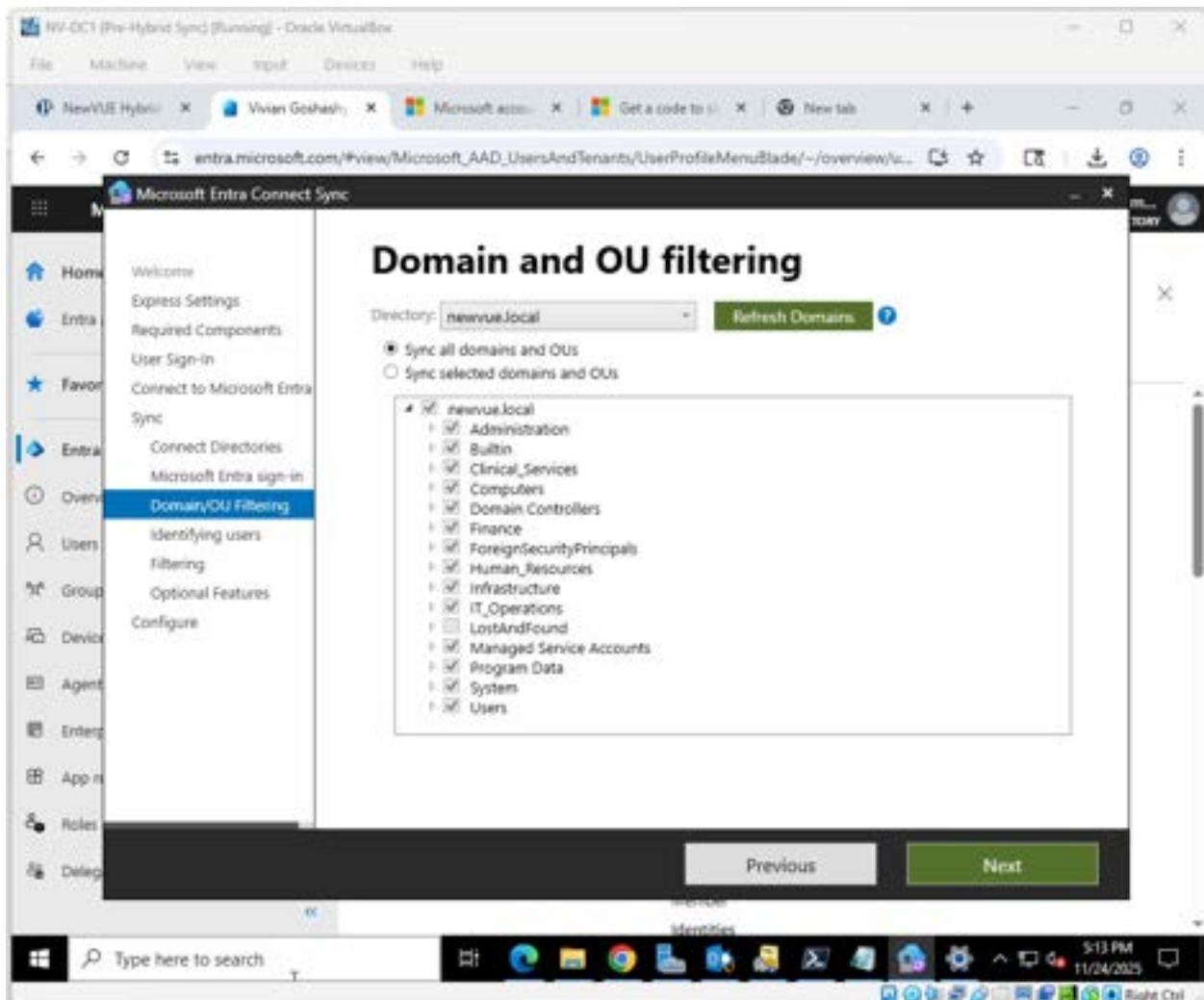
Microsoft Entra Connect was installed on NV-DC1 using a custom installation. Password Hash Synchronization was selected, the Azure tenant was connected using a Global Administrator account, a new AD DS connector account was created, and the departmental OUs were selected for synchronization filtering. Optional features were reviewed, and synchronization was started at the end of configuration.

Evidence to Upload

- Evidence 6:** Screenshot of Password Hash Synchronization selection



- **Evidence 7:** Screenshot of OU filtering selections



- **Evidence 8:** Screenshot of the configuration completed screen

The screenshot shows a Microsoft Edge browser window titled "Microsoft Entra Connect Sync" running in Oracle VirtualBox. The URL in the address bar is entra.microsoft.com/#view/Microsoft_AAD_UsersAndTenants/UserProfileMenuBlade/-/overview. The main content area displays a green header "Configuration complete". Below it, a message states: "Microsoft Entra Connect Sync configuration succeeded. The synchronization process has been initiated." A green sidebar on the left lists various configuration options under the "Favorites" section, with "Configure" highlighted. The right side of the screen contains four informational cards with orange, green, and blue backgrounds, providing tips about Active Directory Recycle Bin, Trusted Platform Module (TPM), and source anchor attributes. At the bottom, there are "Previous" and "Exit" buttons.

Configuration complete

Microsoft Entra Connect Sync configuration succeeded. The synchronization process has been initiated.

The configuration is complete. You can now log in to the Azure or Office 365 portal to verify that user accounts from your local directory have been created. Then, do a test sign-on to the Azure portal. [Learn more about the next steps and managing Microsoft Entra Connect Sync](#)

The Active Directory Recycle Bin is not enabled for your forest (newvive.local) and is strongly recommended. [Learn more about enabling the Active Directory Recycle Bin](#)

We strongly recommend you configure Trusted Platform Module (TPM) in the server to make your Microsoft Entra Connect Sync setup even more secure. [Learn more](#)

Microsoft Entra ID is configured to use AD attribute `m5-DS-ConsistencyGuid` as the source anchor attribute. [Learn more about configuring the source anchor attribute](#)

Configure

Previous Exit

Task 4 - Synchronization Validation (15 pts)

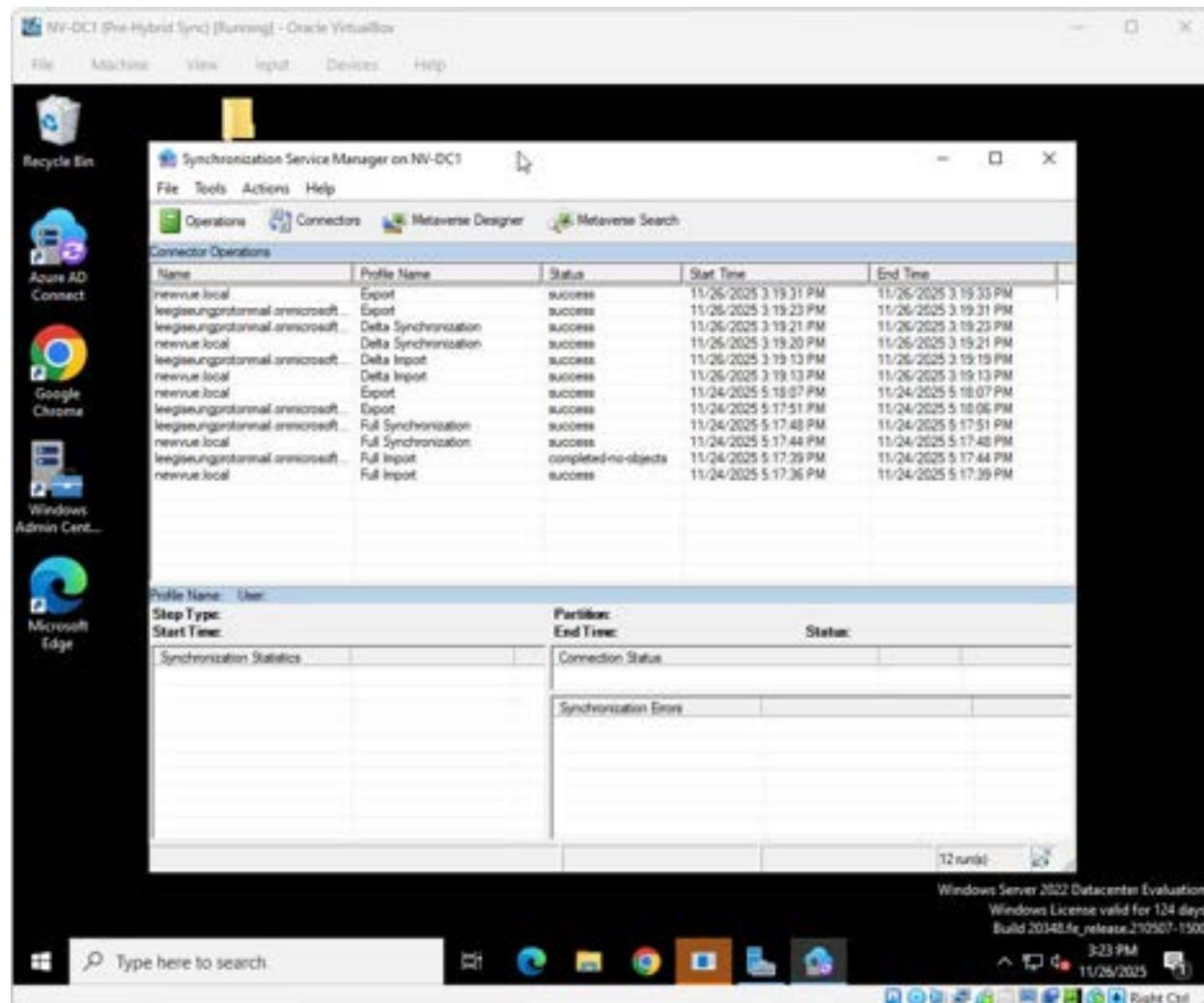
Synchronization was validated using both the Synchronization Service Manager and the Microsoft Entra Admin Center. Import, synchronization, and export stages were reviewed for errors. The Connect Sync dashboard was used to confirm that the synchronization status was healthy and that users from the on-premises OUs appeared in the cloud with the correct source attribute.

Summary of Synchronization Validation:

Synchronization validation revealed a mixed status across the monitoring tools. The Synchronization Service Manager (miisclient.exe) showed technically successful operations, with complete import, synchronization, and export runs displaying "success" statuses and no errors in the synchronization statistics. This indicates that the sync engine itself processed directory data without errors. However, the Microsoft Entra Admin Center reported an **unhealthy** status for the Entra Connect Sync service. This discrepancy suggests a potential service communication issue, credential problem, or a health alert that isn't reflected in the immediate operation logs. Despite the unhealthy service status, the core directory object synchronization was confirmed functional, as evidenced by users from the selected on-premises OUs successfully appearing in the Entra ID user list with their source correctly identified as "Windows Server AD."

Evidence to Upload

- Evidence 9: Synchronization Service Manager showing successful import/sync/export



- Evidence 10: Entra Connect Sync status (Healthy)

The screenshot shows the Microsoft Entra admin center interface. The left sidebar navigation includes Home, User signs-in, Resources, Azure AD, Groups, Devices, Agent ID (Preview), Identity protection, App registrations, Access & consent, Integrated access partners, External services, Conditional access, Multi-factor authentication, Identity service logs, Authentication methods, Account recovery (Preview), Recovery email, Custom security addresses, Certificate enrollment, Internal services, User-based communication, Audit history, Group names, Tenant branding, Identity, and Monitoring & health.

The main content area displays the "Microsoft Entra Connect Sync" status for the tenant "leegiseungprotonmail.onmicrosoft.com". The status is "Healthy".

Metrics	Value	Last report to Microsoft Entra ID
Active	2	Reported 1 (0.00%) failed and 1 successful
Sync Errors	0	0

Below the table, it says "Received from last 24 hours".

- Evidence 11: Cloud user list showing Source = Windows Server AD

Display name	User principal name	User type	Is hybrid	Can password log in	Enabled	Company name	Created type
Administrator	Administrator@contoso.com	User	No	No	Enabled	Contoso Ltd.	
alice	alice@contoso.com	User	No	No	Enabled	Contoso Ltd.	
bob	bob@contoso.com	User	No	No	Enabled	Contoso Ltd.	
carol	carol@contoso.com	User	No	No	Enabled	Contoso Ltd.	
charles	charles@contoso.com	User	No	No	Enabled	Contoso Ltd.	
dan	dan@contoso.com	User	No	No	Enabled	Contoso Ltd.	
ellen	ellen@contoso.com	User	No	No	Enabled	Contoso Ltd.	
frank	frank@contoso.com	User	No	No	Enabled	Contoso Ltd.	
gina	gina@contoso.com	User	No	No	Enabled	Contoso Ltd.	
harry	harry@contoso.com	User	No	No	Enabled	Contoso Ltd.	
ivory	ivory@contoso.com	User	No	No	Enabled	Contoso Ltd.	
jessica	jessica@contoso.com	User	No	No	Enabled	Contoso Ltd.	
john	john@contoso.com	User	No	No	Enabled	Contoso Ltd.	
johndoe	johndoe@contoso.com	User	No	No	Disabled	Contoso Ltd.	
laura	laura@contoso.com	User	No	No	Enabled	Contoso Ltd.	
michael	michael@contoso.com	User	No	No	Enabled	Contoso Ltd.	
nancy	nancy@contoso.com	User	No	No	Enabled	Contoso Ltd.	
oscar	oscar@contoso.com	User	No	No	Enabled	Contoso Ltd.	
peter	peter@contoso.com	User	No	No	Enabled	Contoso Ltd.	
quentin	quentin@contoso.com	User	No	No	Enabled	Contoso Ltd.	
ronald	ronald@contoso.com	User	No	No	Enabled	Contoso Ltd.	
sophia	sophia@contoso.com	User	No	No	Enabled	Contoso Ltd.	
ted	ted@contoso.com	User	No	No	Enabled	Contoso Ltd.	
virginia	virginia@contoso.com	User	No	No	Enabled	Contoso Ltd.	
wendy	wendy@contoso.com	User	No	No	Enabled	Contoso Ltd.	
xavier	xavier@contoso.com	User	No	No	Enabled	Contoso Ltd.	
yvonne	yvonne@contoso.com	User	No	No	Enabled	Contoso Ltd.	
zack	zack@contoso.com	User	No	No	Enabled	Contoso Ltd.	

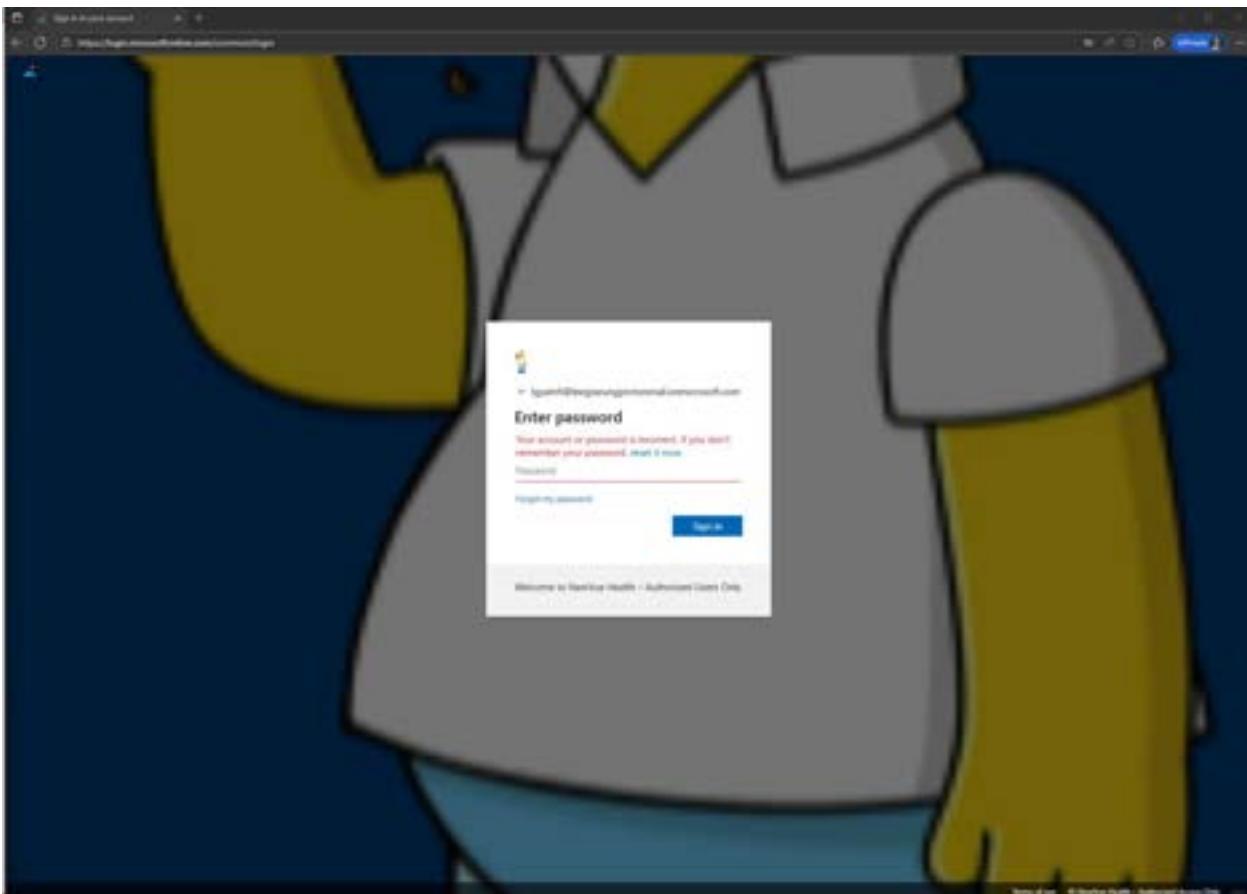
Task 5 - Cloud Sign-In Verification (10 pts)

A synchronized user account was used to authenticate to Microsoft 365 services. The account successfully signed in, and access to Microsoft 365 applications was confirmed, demonstrating that hybrid identity integration is functioning as intended.

Note: A sign-in attempt to Microsoft 365 using a synchronized user account was unsuccessful, returning an "account or password is incorrect" error despite a recent on-premises password change. This result indicates that while directory object synchronization was successful, there is a specific issue with password hash synchronization for the test account. The root cause appears to be one of the following: either the user attempted to sign in using their legacy @newvue.local UPN rather than the cloud-aligned UPN (vivian@leegiseungprotonmail.onmicrosoft.com), or the password hash for this specific user failed to synchronize properly following the on-premises password change. The error message confirming that password writeback is not enabled is expected behavior for the configured Password Hash Synchronization setup.

Evidence to Upload

- **Evidence 12:** Screenshot of successful Microsoft 365 sign-in



- **Evidence 13:** Screenshot showing available Microsoft 365 applications

