

IT 236 Project Report Form

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Project Phase	Cloud User, Group, and License Management in Entra ID & MS365

Section 1: Executive Summary

This phase of the NewVue Health Infrastructure Modernization Project focused on establishing foundational cloud identity services within Microsoft Entra ID and Microsoft 365.

Five pilot cloud user accounts were provisioned, and departmental security groups were created using a combination of Assigned and Dynamic membership models. Microsoft 365 E5 licenses were allocated to the pilot identities, and cloud authentication was validated through successful user sign-in to the Microsoft 365 portal.

These activities demonstrate the essential processes involved in cloud identity provisioning, group-based access structure, and licensing configuration. The work completed ensures that NewVue Health's cloud environment is prepared for the hybrid identity and device management components of the upcoming project phases.

Section 2: Implementation & Verification Evidence

Task 1-Cloud User Creation (20 pts)

A set of pilot cloud users was created in Microsoft Entra ID to represent key NewVue Health departments. Each account was configured with appropriate identity attributes, including job title and department as shown in the table below

User	Department	Job Title
Alice Morgan	Administration	Admin Coordinator
Brian Patel	Clinical Services	Registered Nurse
Carla Johnson	Human Resources	HR Generalist
Daniel Kim	IT Operations	Systems Administrator
Evelyn Rodriguez	Finance	Financial Analyst

Evidence Requirements

- Evidence 1:** Screenshot of the **All users** view showing all five pilot cloud identities.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar is collapsed, showing navigation options like Home, Entra agents, Favorites, Entra ID, Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, Delegated admin partners, Domain services, Conditional Access, Multifactor authentication, Identity Secure Score, Authentication methods, Account recovery (Preview), Password reset, Custom security attributes, Certificate authorities, External identities, Cross-tenant synchronization, Entra Connect, Domain names, Custom branding, Mobility, and Monitoring & health.

The main content area is titled "Users" under "Default Directory". It shows a list of "All users" with 6 users found. The users listed are:

Display name	User principal name	User type	Is Agent	On-premises sync	Identities	Company name
AM	alice.morgan@leegi...	Member	No	No	leegiungprotonmail.o...	NewVue
BP	brian.patel@leegi...	Member	No	No	leegiungprotonmail.o...	NewVue
CA	carla.johnson@leegi...	Member	No	No	leegiungprotonmail.o...	NewVue
DK	daniel.kim@leegi...	Member	No	No	leegiungprotonmail.o...	NewVue
ER	evelyn.rodriguez@le...	Member	No	No	leegiungprotonmail.o...	NewVue
VG	vivian.goshashy@le...	Member	No	No	MicrosoftAccount	

Task 2— Group Creation (Assigned and Dynamic) (20 pts)

Department-based cloud security groups were created to establish structured access control. Three groups used Assigned membership, while two groups used Dynamic membership based on the user's Department attribute as shown in the table below.

Group Name	Group Type	Membership Type
Administration_Cloud	Security	Assigned
Human_Resources_Cloud	Security	Assigned
IT_Operations_Cloud	Security	Assigned
Clinical_Services_Cloud	Security	Dynamic User
Finance_Cloud	Security	Dynamic User

Evidence Requirements

- Evidence 2A:** Screenshot of All groups showing all five departmental groups.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar navigation includes Home, Entra agents, Favorites (with Overview selected), Groups (selected), Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, Delegated admin partners, Domain services, Conditional Access, Multifactor authentication, Identity Secure Score, Authentication methods, Account recovery (Preview), Password reset, Custom security attributes, Certificate authorities, External identities, Cross-tenant synchronization, Entra Connect, Domain names, Custom branding, Mobility, and Monitoring & health. The main content area is titled "Groups | All groups" under "Default Directory". It displays a list of groups with columns for Name, Object Id, Group type, Membership type, and Email. The groups listed are: Administration_Cloud (Security, Assigned, Vivian@leegiesunprot.com), All Company (Microsoft 365, Assigned, allcompany@leegiesunprot.com), Clinical_Services_Cloud (Security, Dynamic, Vivian@leegiesunprot.com), Default Directory 1 (Microsoft 365, Assigned, DefaultDirectory1@leegiesunprot.com), Default Directory 2 (Microsoft 365, Assigned, DefaultDirectory595@leegiesunprot.com), Default Directory 3 (Microsoft 365, Assigned, DefaultDirectory72@leegiesunprot.com), Finance_Cloud (Security, Dynamic, Vivian@leegiesunprot.com), Human_Resources_Cloud (Security, Assigned, Vivian@leegiesunprot.com), and IT_Operations_Cloud (Security, Assigned, Vivian@leegiesunprot.com).

- **Evidence 2B:** Screenshot of a **Dynamic membership rule** for either Clinical Services or Finance.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar is titled "Microsoft Entra admin center" and contains a navigation tree with categories like Home, Entra agents, Favorites, and various administrative sections such as Entra ID, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, Delegated admin partners, Domain services, Conditional Access, Multifactor authentication, Identity Secure Score, Authentication methods, Account recovery (Preview), Password reset, Custom security attributes, Certificate authorities, External Identities, Cross-tenant synchronization, Entra Connect, Domain names, Custom branding, Mobility, and Monitoring & health.

The main content area is titled "Dynamic membership rules" and displays a configuration interface. It includes a "Configure Rules" section with tabs for "Save", "Discard", and "Got feedback?". Below this, there is a note: "You can use the rule builder or rule syntax text box to create or edit a dynamic membership rule." A "Learn more" link is provided. The rule builder interface shows an "And/Or" dropdown set to "And", a "Property" dropdown set to "department", an "Operator" dropdown set to "Equals", and a "Value" dropdown set to "Clinical Services". There are also buttons for "+ Add expression" and "+ Get custom extension properties".

Below the rule builder is a "Rule syntax" text box containing the expression: `(user.department -eq "Clinical Services")`. An "Edit" button is located to the right of the text box.

Task 3— Group Membership Verification (10 points)

Assigned groups were manually populated with their designated users.

Dynamic groups automatically populated based on the configured membership rules.

Evidence Requirements

- Evidence 3A:** Screenshot of the **Members** tab for one Assigned group.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar is filled with various administrative options like Home, Entra agents, Favorites, Entra ID, and many others under the 'Entra ID' section. The main content area is titled 'Administration_Cloud | Members' and shows a list of members for a specific group. The list includes a header row with columns for Name, Type, Email, User type, and Object Id. One member, 'Alice Morgan', is listed, showing she is a User with Member status and Object Id 83d90cb0-ce5d-4a2f. There are also buttons for 'Add members', 'Bulk operations', 'Refresh', 'Manage view', and 'Remove'.

- **Evidence 3B:** Screenshot of the **Members** tab for one Dynamic group showing the auto-assigned member.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar is titled "Microsoft Entra admin center" and contains a navigation tree with various administrative options like Home, Entra agents, Favorites, Entra ID, Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, Delegated admin partners, Domain services, Conditional Access, Multifactor authentication, Identity Secure Score, Authentication methods, Account recovery (Preview), Password reset, Custom security attributes, Certificate authorities, External identities, Cross-tenant synchronization, Entra Connect, Domain names, Custom branding, Mobility, and Monitoring & health.

The main content area is titled "Clinical_Services_Cloud | Members" and shows the "Direct members" section. It displays a table with one member found:

Name	Type	Email	User type	Object Id
Brian Patel	User		Member	c9620ac9-4bab-4117-

Below the table, there are sections for "Manage" (Properties, Members, Owners, Roles and administrators, Administrative units, Group memberships, Applications, Licenses, Azure role assignments, Dynamic membership rules) and "Activity" (Access reviews, Audit logs, Bulk operation results). There is also a "Troubleshooting + Support" section with a "New support request" button.

Task 4— Microsoft 365 E5 License Assignment (10 points)

Pilot users were allocated Microsoft 365 E5 licenses through the Microsoft 365 Admin Center to enable access to cloud productivity services.

Evidence Requirements

- Evidence 4:** Screenshot(s) showing at least **two** cloud users with Microsoft 365 E5 licenses assigned.

The screenshot shows the Microsoft 365 Admin Center interface. On the left, the navigation menu is visible with various sections like Copilot, Users, Teams & groups, Roles, Resources, Marketplace, Billing, Support, Settings, Setup, Reports, Health, and Admin centers. The main content area is titled "Active users" and shows a list of users. Alice Morgan is selected, and her profile card is displayed on the right. The profile card includes her name (Alice Morgan), email (alice.morgan@leegiung.com), and a "Licenses and apps" tab which is currently selected. Under the "Licenses" section, it shows she has a Microsoft 365 E5 license assigned. A message at the top right indicates that the trial subscription for Microsoft 365 E5 Trial expires on 12/17/2025 and prompts to buy this subscription. The "Save changes" button is located at the bottom right of the profile card.

User Details Panel - Microsoft 365 | Groups - Microsoft Entra admin center

https://admin.cloud.microsoft.com/#/users/{5620ac9-4bab-4117-adbd-ac45a839dd0a}/LicensesAndApps

Microsoft 365 admin center

Home > Active users

Active users

Add a user Multi-factor authentication Refresh Delete user

Filter set: Commonly used Licenses Sign-in status Domain

Display name ↑	Username
Alice Morgan	alice.morgan@leegisung.com
<input checked="" type="checkbox"/> Brian Patel	brian.patel@leegisung.com
Carla Johnson	carla.johnson@leegisung.com
Daniel Kim	daniel.kim@leegisung.com
Evelyn Rodriguez	evelyn.rodriguez@leegisung.com
Vivian Goshashy	vivian@leegisungpro.com

Reset password Block sign-in Delete user

Your changes have been saved.

The trial subscription for Microsoft 365 E5 Trial expires on 12/17/2025. Buy this subscription

Select location: United States

Licenses (1)

Microsoft 365 E5
22 of 25 licenses available

Apps (50)

Save changes

Copilot

Users

- Active users
- Contacts
- Guest users
- Deleted users

Devices

Teams & groups

Roles

Resources

Marketplace

Billing

- Your products
- Licenses
- Bills & payments
- Billing accounts
- Payment methods
- Billing notifications
- Cost Management

Support

Settings

Setup

Reports

Health

Admin centers

- Security
- Microsoft Purview
- Microsoft Intune
- Identity
- Azure
- Exchange
- SharePoint

Task 5 - Cloud Identity Verification (10 pts)

Identity configuration was verified through the Entra Admin Center by reviewing each user's assigned licenses and group memberships.

Evidence Requirements

- Evidence 5A:** Screenshot of the **Licenses** tab for one user confirming assignment of Microsoft 365 E5.

The screenshot shows the Microsoft Entra Admin Center interface. The left sidebar is filled with various administrative options like Home, Entra agents, Favorites, and many others under Entra ID. The main content area is titled "Daniel Kim | Licenses". It displays a table with one row for "Microsoft 365 E5". The columns are "Products", "State", "Enabled Services", and "Assignment Paths". The product is listed as "Microsoft 365 E5", the state is "Active", there are "81/81" enabled services, and the assignment path is "Direct". Above the table, a note says: "Adding, removing, and reprocessing licensing assignments is only available within the M365 Admin Center. Go to M365 Admin Center".

Products	State	Enabled Services	Assignment Paths
Microsoft 365 E5	Active	81/81	Direct

- **Evidence 5B:** Screenshot of the **Groups** tab for the same user confirming correct group membership.

The screenshot shows the Microsoft Entra admin center interface. The left sidebar navigation bar includes Home, Entrra agents, Favorites (with Alice Morgan selected), Entrra ID (Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, Delegated admin partners, Domain services, Conditional Access, Multifactor authentication, Identity Secure Score, Authentication methods, Account recovery (Preview), Password reset, Custom security attributes, Certificate authorities, External identities, Cross-tenant synchronization, Entrra Connect, Domain names, Custom branding, Mobility, and Monitoring & health). The main content area displays the 'Alice Morgan | Groups' page under the 'User' section. The top navigation bar for this page includes 'Groups | All groups > IT_Operations_Cloud | Members > Groups | All groups > Clinical_Services_Cloud | Members > Groups | All groups > Finance_Cloud | Members > Groups | All groups > Users > Alice Morgan'. Below this is a search bar and filter options ('Add memberships', 'Remove memberships', 'Refresh', 'Columns', 'Get feedback?'). A table lists group details:

Name	Object Id	Group Type	Membership Type	Email	Source
Administration_Cloud	59661ca3-904d-442e-bede-6...	Security	Assigned		Cloud
Default Directory	a42d9c92-684a-4cf7-8f34-8d...	Microsoft 365	Assigned	vivian@leegiseungprot...	Cloud

Task 6 - Cloud Sign-In Validation (10 pts)

A pilot user successfully authenticated into the Microsoft 365 portal, confirming correct licensing, identity creation, and cloud authentication flow.

Evidence Requirements

- **Evidence 6:** Screenshot of the Microsoft 365 **home screen** after signing in as one of the pilot users.

