IT 236 Project Report Form

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Date:	11/19/2025
Project Phase	Microsoft Entra PowerShell Administration

Section 1: Executive Summary

This phase of the NewVue Health Infrastructure Modernization Project focused on establishing secure and reliable administrative connectivity to the Microsoft Entra environment using PowerShell. The workstation was prepared for cloud administration by installing PowerShell 7, configuring execution policies, updating PowerShellGet, and confirming module readiness.

The Microsoft.Entra PowerShell module was deployed successfully, and a secure connection was established to the cloud tenant. Core directory information—including tenant attributes, domain configuration, user objects, and group structures—was queried to validate end-to-end connectivity between the workstation and the Microsoft Entra directory service.

Collectively, these steps establish the baseline operational capability required for subsequent cloud identity management, automation, and hybrid integration activities within the NewVue Health modernization project.

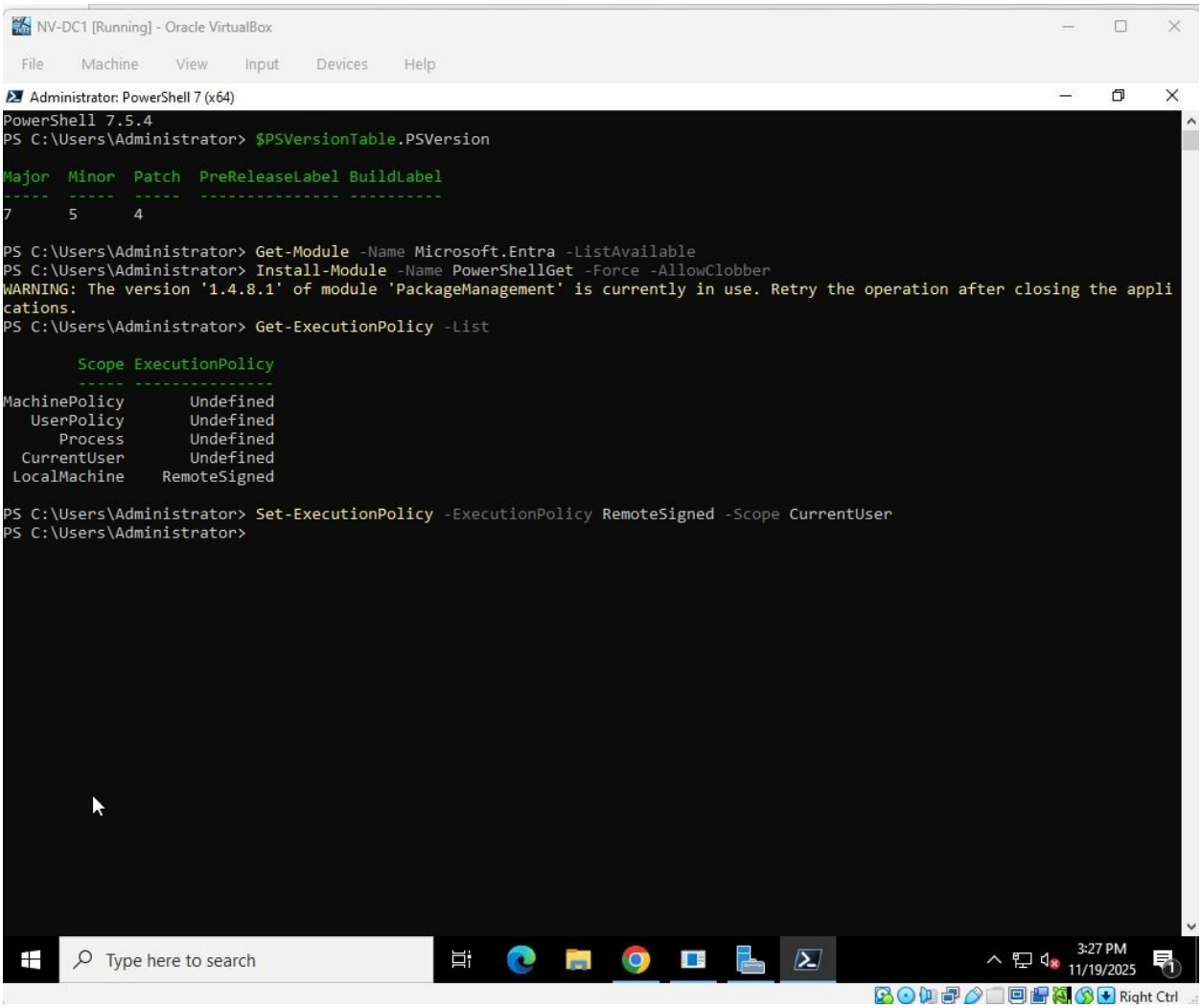
Section 2: Implementation & Verification Evidence

Task 1-Workstation Preparation (10 pts)

The workstation environment was prepared for Microsoft Entra PowerShell administration by installing PowerShell 7, validating the PowerShell version, updating PowerShellGet, checking execution policies, and confirming readiness for module installation.

Evidence Requirements

- **Evidence 1:** Screenshot showing:
    - PowerShell 7 version
    - Execution policy
    - PowerShellGet update

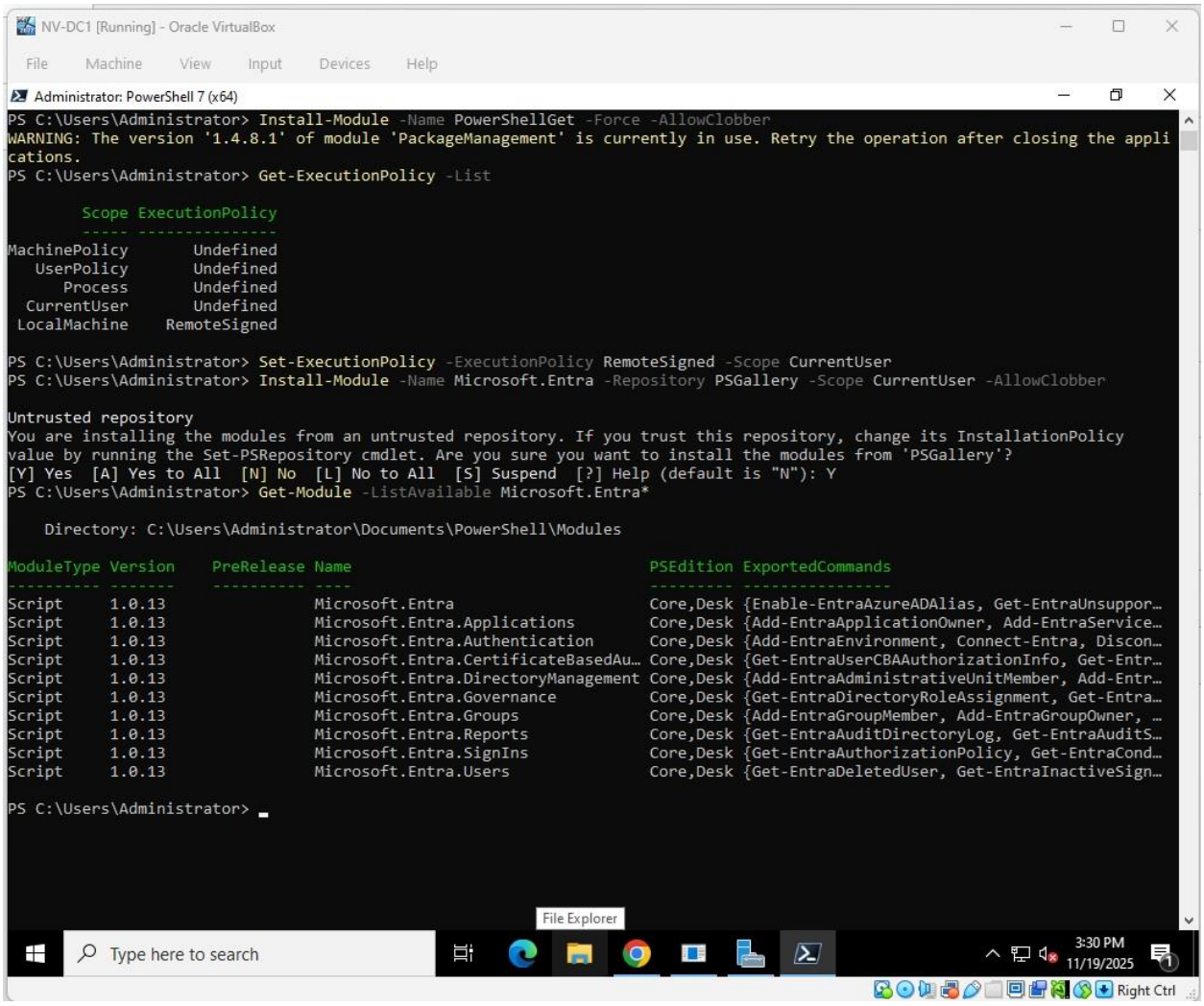


Task 2— Module Installation (10 pts)

The Microsoft.Entra PowerShell module was installed from the PowerShell Gallery, and availability of the module was verified to confirm a successful installation.

Evidence Requirements

- **Evidence 2:** Screenshot showing installation and verification of the Microsoft.Entra module

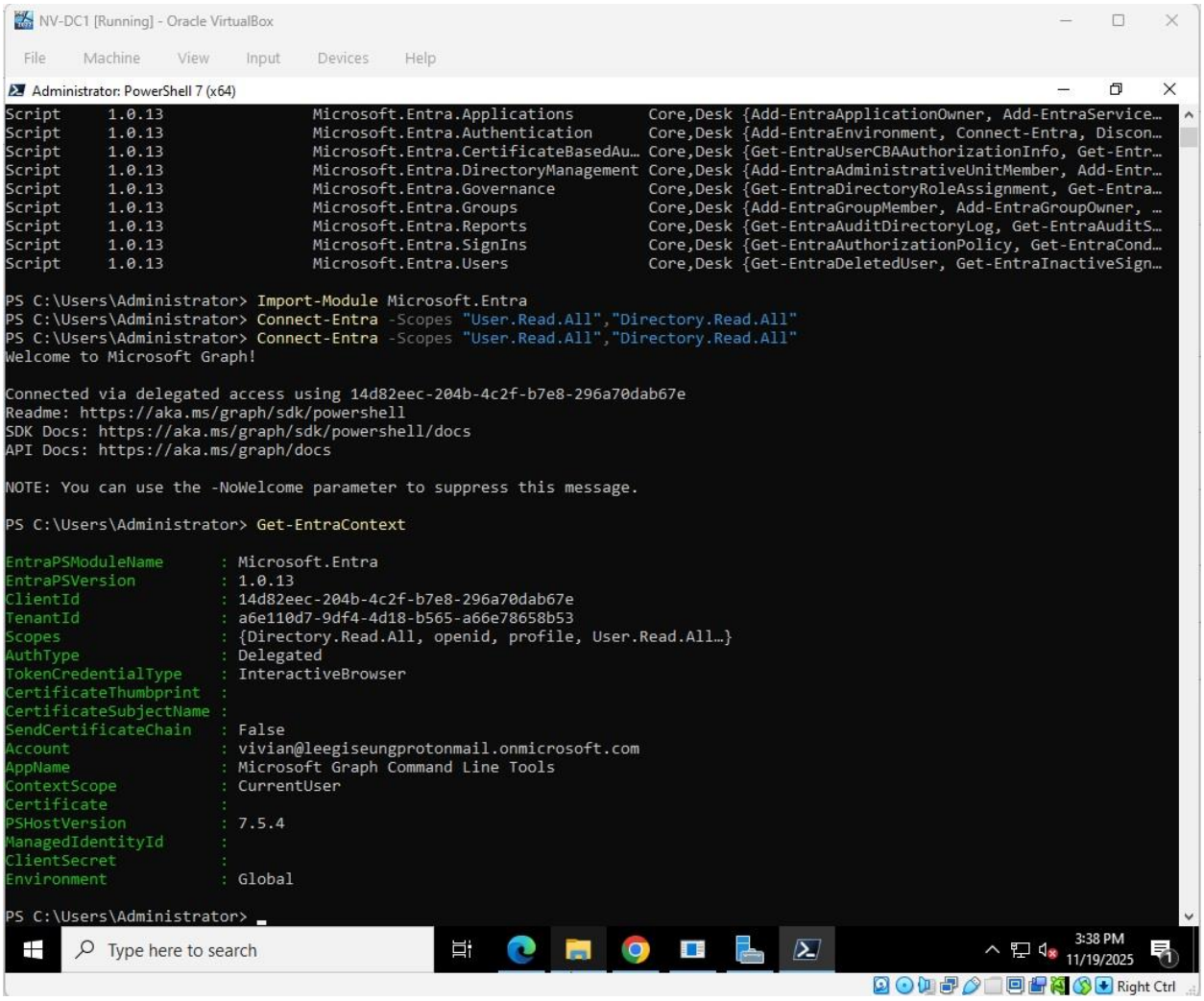


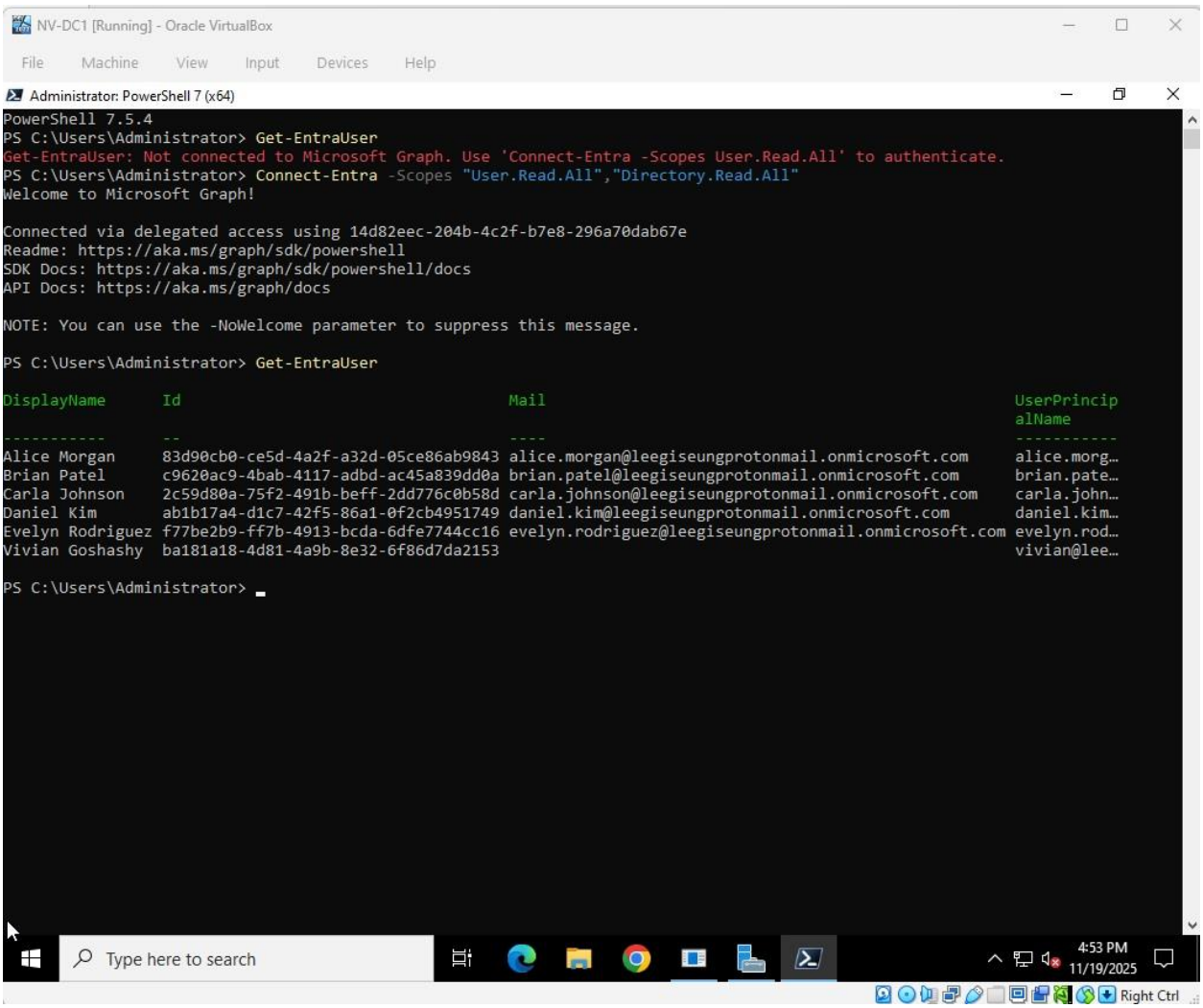
Task 3— Entra Tenant Connection (10 points)

An authenticated PowerShell session was established with the Microsoft Entra tenant, and the session context was verified to confirm proper authentication and directory connectivity.

Evidence Requirements

- **Evidence 3:** Screenshot of **Get-EntraContext** showing authenticated session details



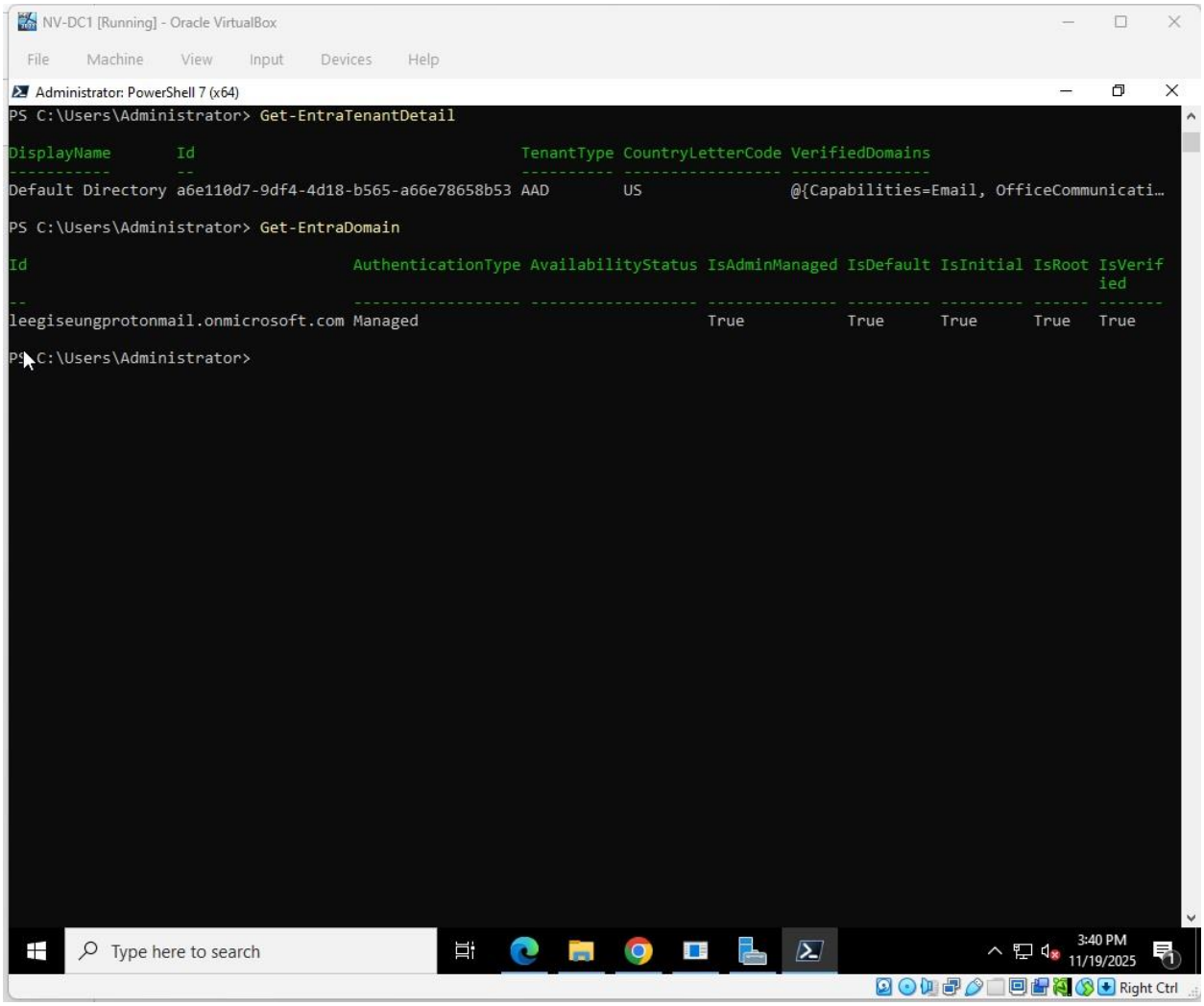

NV-DC1 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Administrator: PowerShell 7 (x64)
PowerShell 7.5.4
PS C:\Users\Administrator> Get-EntraUser
Get-EntraUser: Not connected to Microsoft Graph. Use 'Connect-Entra -Scopes User.Read.All' to authenticate.
PS C:\Users\Administrator> Connect-Entra -Scopes "User.Read.All","Directory.Read.All"
Welcome to Microsoft Graph!
Connected via delegated access using 14d82eec-204b-4c2f-b7e8-296a70dab67e
Readme: https://aka.ms/graph/sdk/powershell
SDK Docs: https://aka.ms/graph/sdk/powershell/docs
API Docs: https://aka.ms/graph/docs
NOTE: You can use the -NoWelcome parameter to suppress this message.
PS C:\Users\Administrator> Get-EntraUser
DisplayName Id Mail UserPrincipalName
Alice Morgan 83d90cb0-ce5d-4a2f-a32d-05ce86ab9843 alice.morgan@leegiseungprotonmail.onmicrosoft.com alice.morg…
Brian Patel c9620ac9-4bab-4117-adbd-ac45a839dd0a brian.patel@leegiseungprotonmail.onmicrosoft.com brian.pate…
Carla Johnson 2c59d80a-75f2-491b-beff-2dd776c0b58d carla.johnson@leegiseungprotonmail.onmicrosoft.com carla.john…
Daniel Kim ab1b17a4-d1c7-42f5-86a1-0f2cb4951749 daniel.kim@leegiseungprotonmail.onmicrosoft.com daniel.kim…
Evelyn Rodriguez f77be2b9-ff7b-4913-bcda-6dfe7744cc16 evelyn.rodriguez@leegiseungprotonmail.onmicrosoft.com evelyn.rod…
Vivian Goshashy ba181a18-4d81-4a9b-8e32-6f86d7da2153 vivian@lee…
PS C:\Users\Administrator>
Type here to search
4:53 PM
11/19/2025
Right Ctrl

Task 4 - Tenant and Domain Information Retrieval (10 pts)

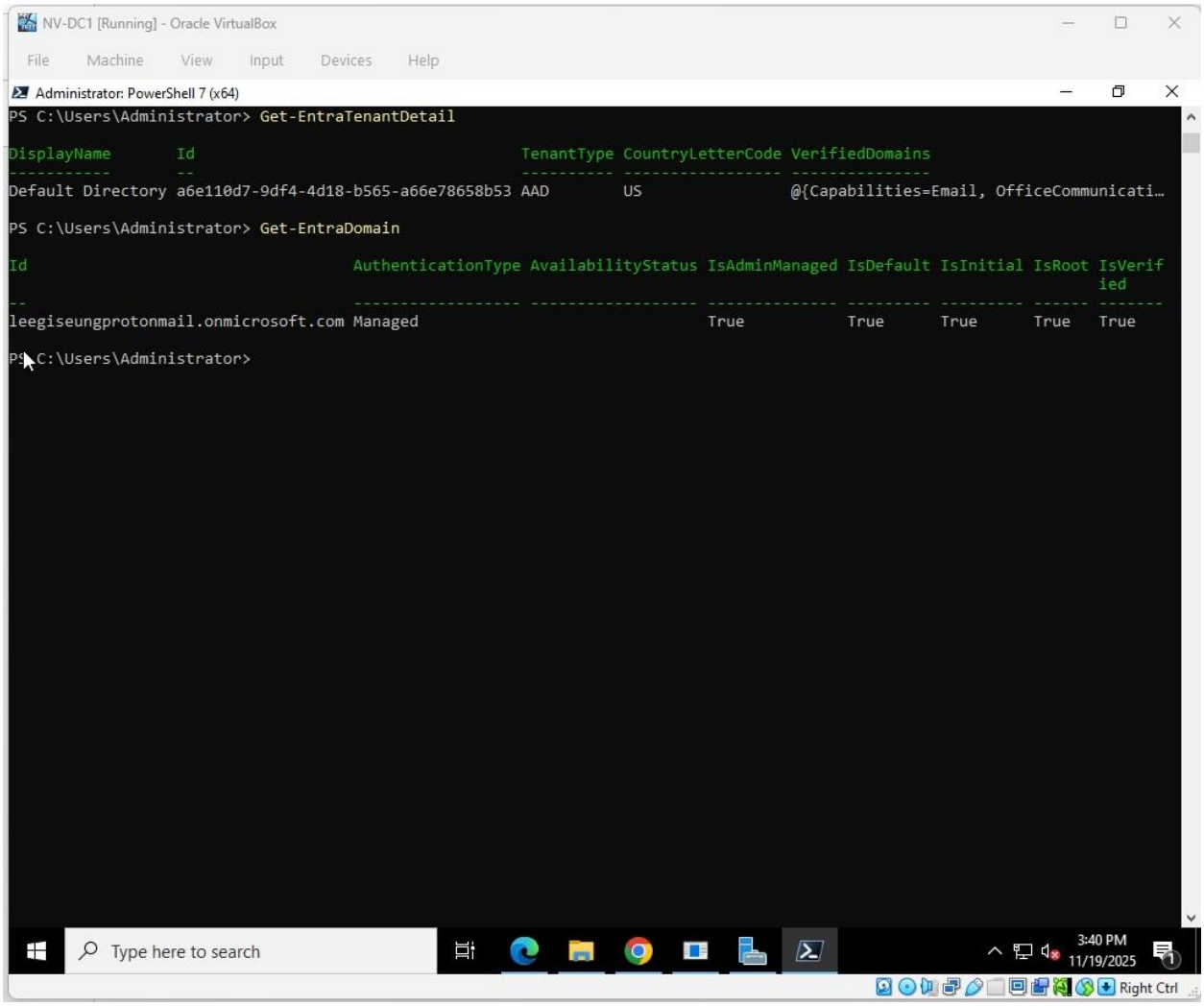
Tenant-level information and domain configuration were retrieved using Entra PowerShell cmdlets to validate visibility into core directory settings.

Evidence Requirements

- **Evidence 4A:** Screenshot of **Get-EntraTenantDetail**



- **Evidence 4B:** Screenshot of **Get-EntraDomain**

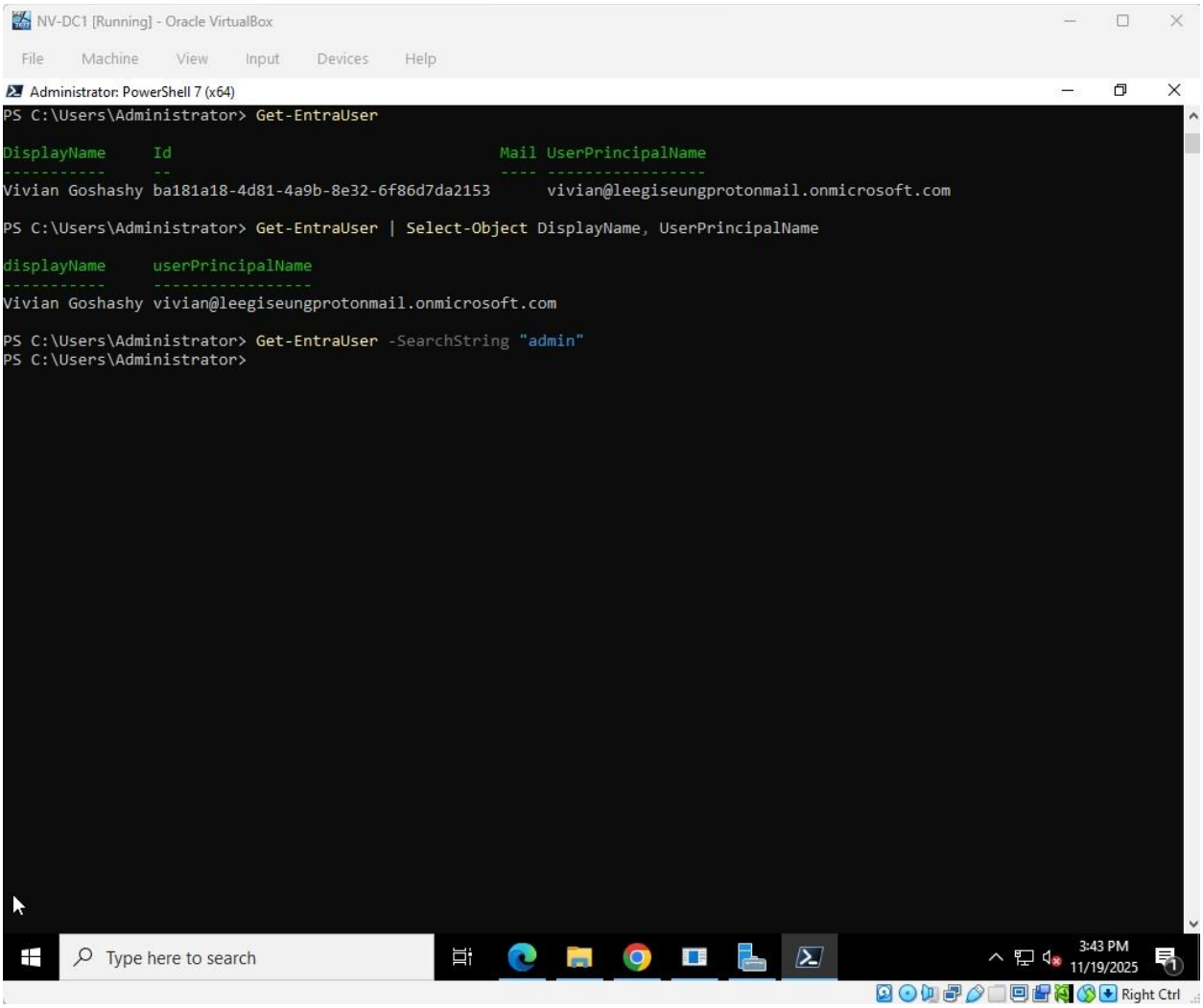


Task 5 - Cloud User Queries (10 pts)

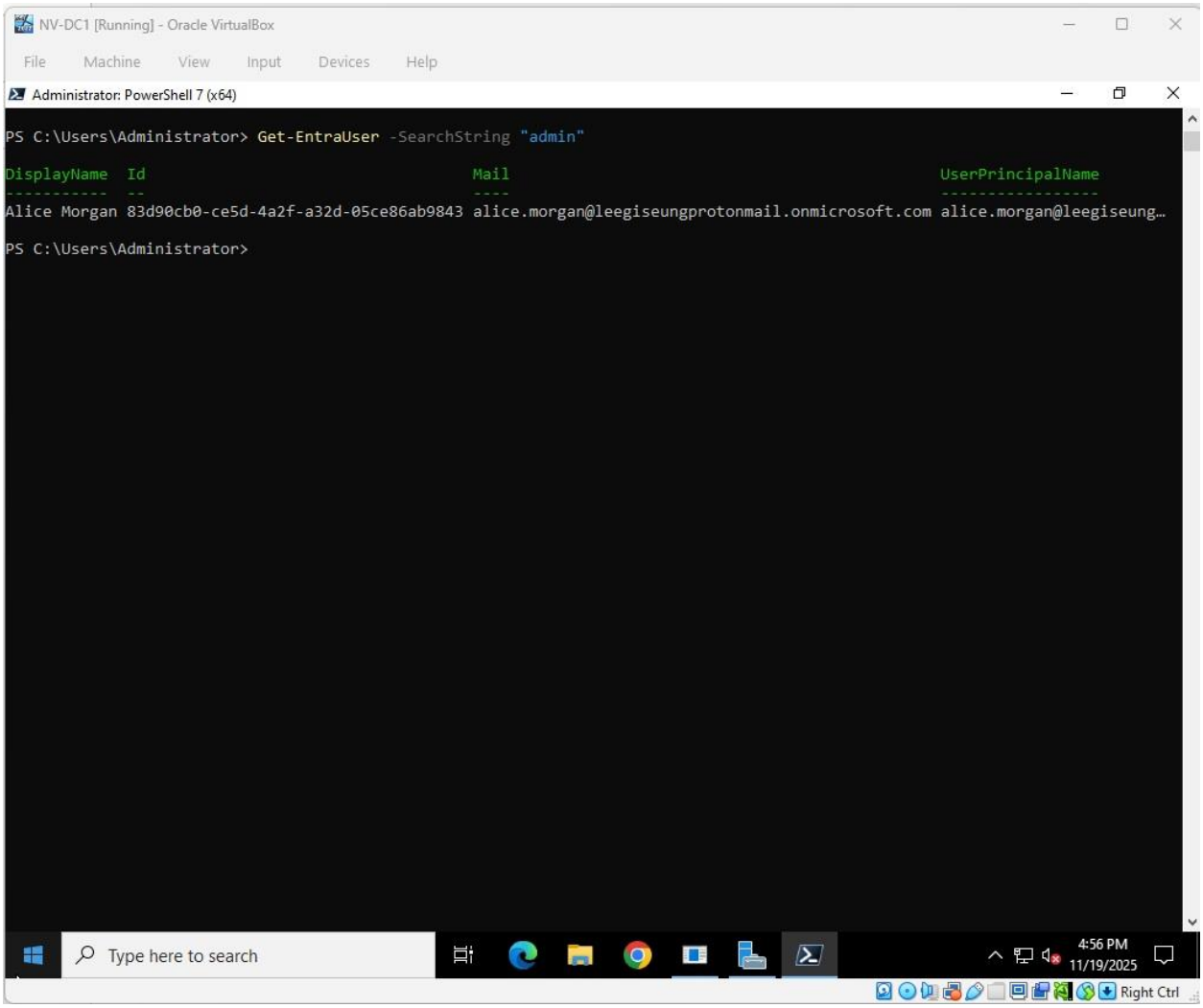
Cloud users were queried to demonstrate directory visibility, including full listings, selected property extraction, and filtered queries based on search strings.

Evidence Requirements

- **Evidence 5:** Screenshot showing filtered or selected user query output



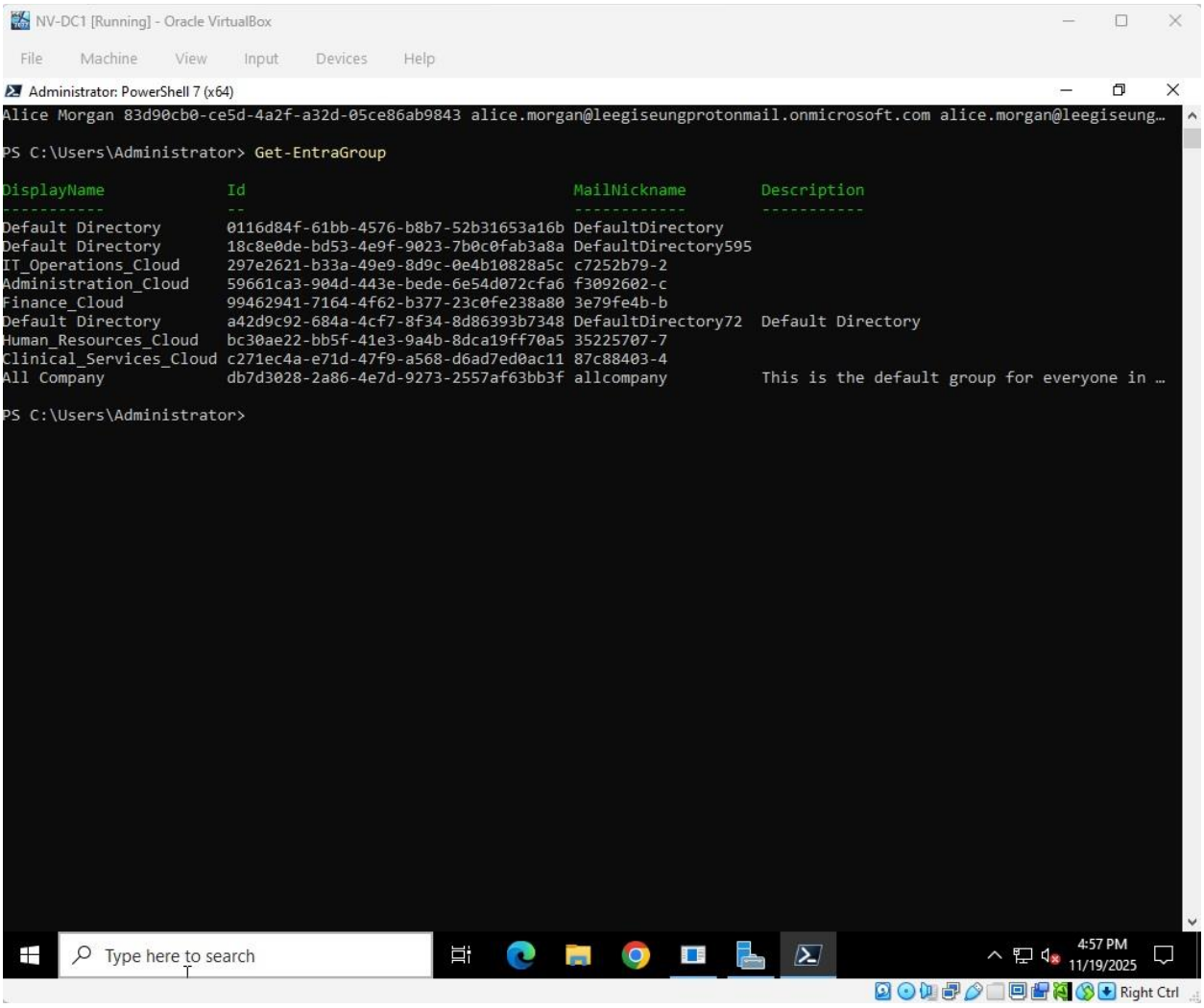
Note: After users were added



Task 4 - Cloud Group Queries (10 pts)

Cloud groups were retrieved, key attributes displayed, and group membership examined to validate Entra ID group visibility through PowerShell.

Evidence Requirements

- **Evidence 6:** Screenshot of a group listing or group membership query

Note: This part should be empty before groups were created. However, when groups are created then the result is shown