IT 236 Project Report Form

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Date:	10/21/2025
Project Phase	Creating and Nesting Groups

Section 1: Executive Summary (10 Points)

In this phase of the NewVue Health Infrastructure Modernization Project, I created, organized, and managed security groups within the newvue.local domain. The goal of this activity was to model a real-world group management structure, where departmental and role-based groups are used to simplify user permissions and support a Role-Based Access Control (RBAC) model.

Each department now has one departmental group and three role-based groups, which were later nested and populated with users to establish an organized hierarchy for resource access and policy management.

The table below shows the NewVue Health Group Structure.

Department	Departmental Group	Role-Based Groups
Administration	Administration	Admin_Managers Admin_Clerks Admin_Executives
Clinical Services	Clinical_Services	Clinical_Doctors Clinical_Nurses Clinical_Assistants
Human Resources	Human_Resources	HR_Managers HR_Recruiters HR_Assistants
IT Operations	IT_Operations	IT_Network IT_Security IT_Applications
Finance	Finance	Finance_Accountants Finance_Auditors Finance_Analysts

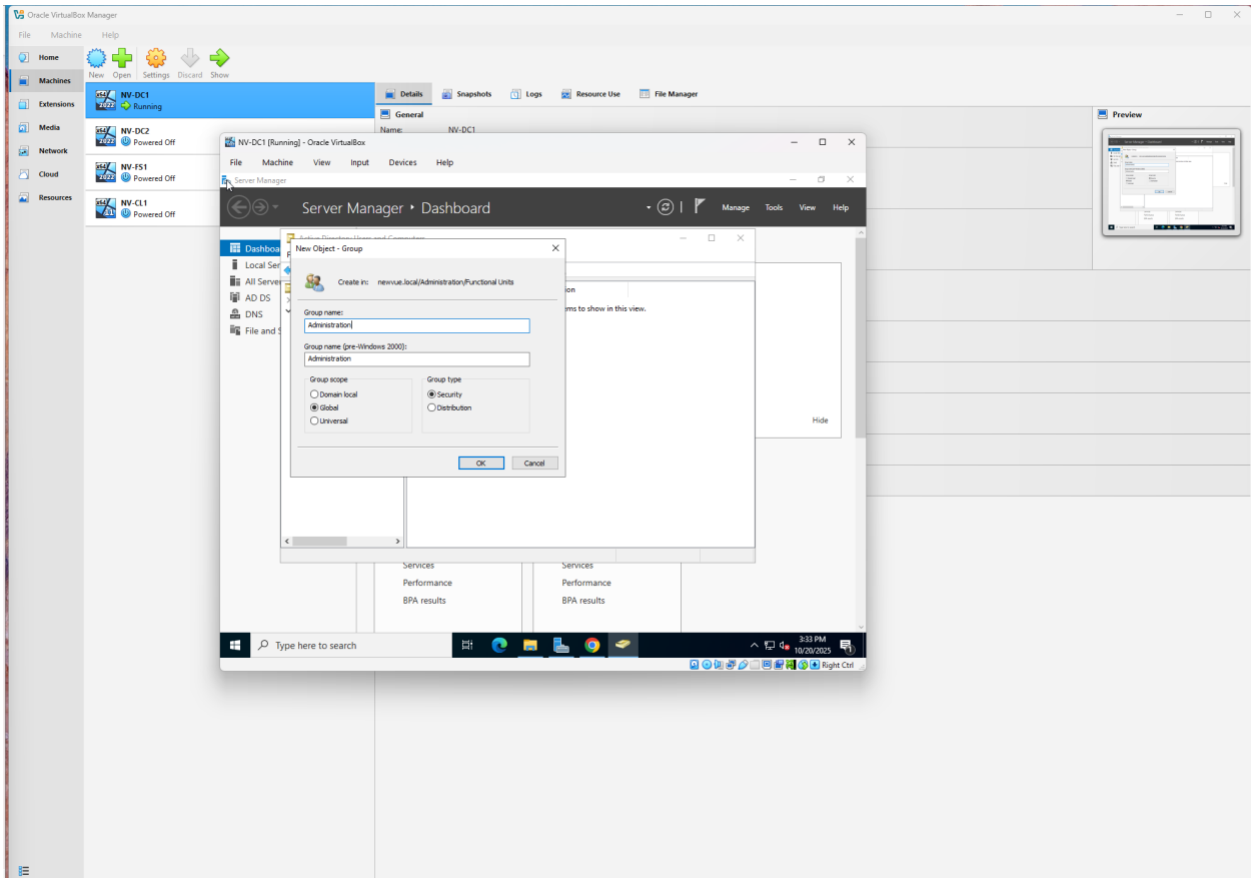
Section 2 – Creating Groups (30 points)

In this section, I created departmental and role-based security groups for all five NewVue Health departments. The Administration, Clinical Services, Human Resources, and IT Operations groups were created using Active Directory Users and Computers (ADUC), while the Finance department's groups were created using PowerShell. All groups were created under each department's Functional Units OU with a Global scope and Security type.

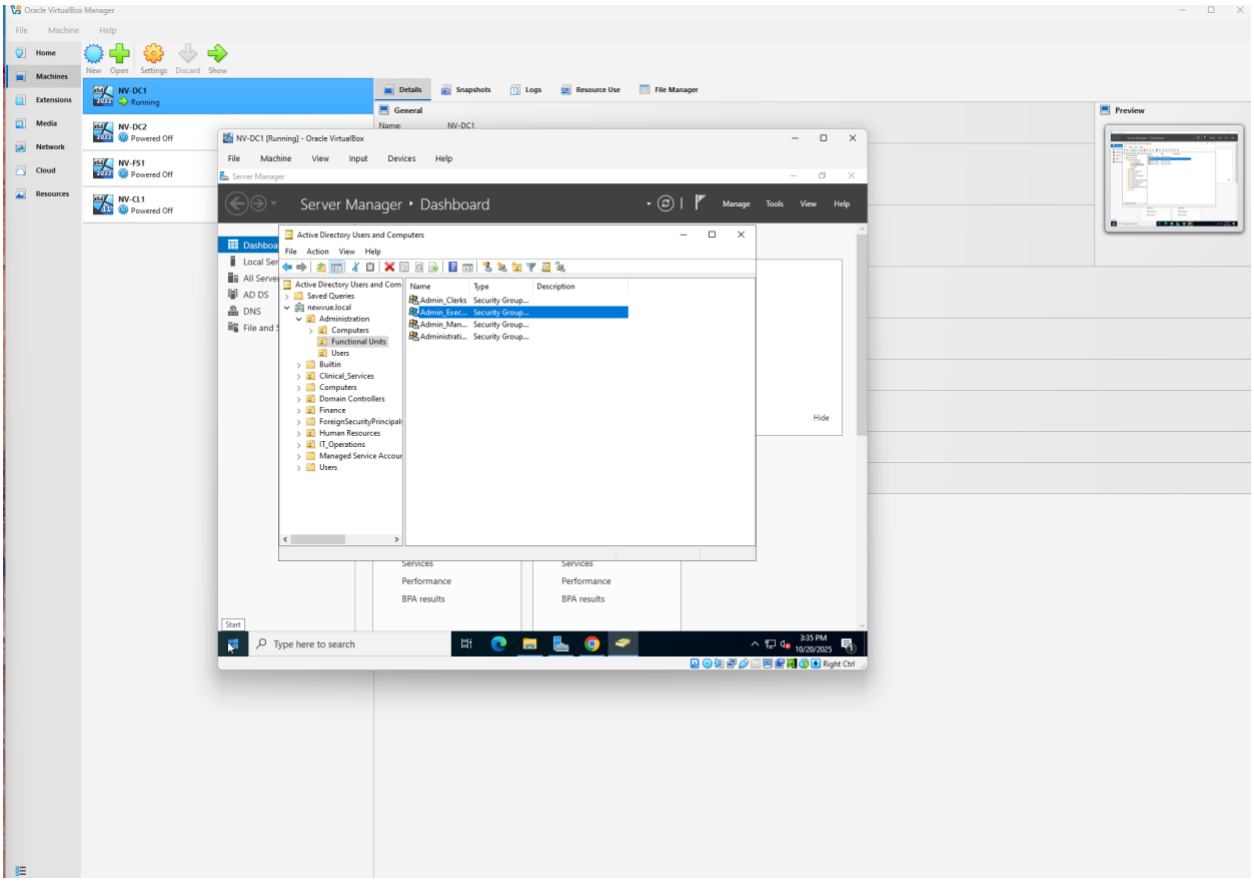
Evidence

Administration Department

- Evidence 1: Screenshot of the *New Object – Group* wizard showing creation of the **Administration** group.

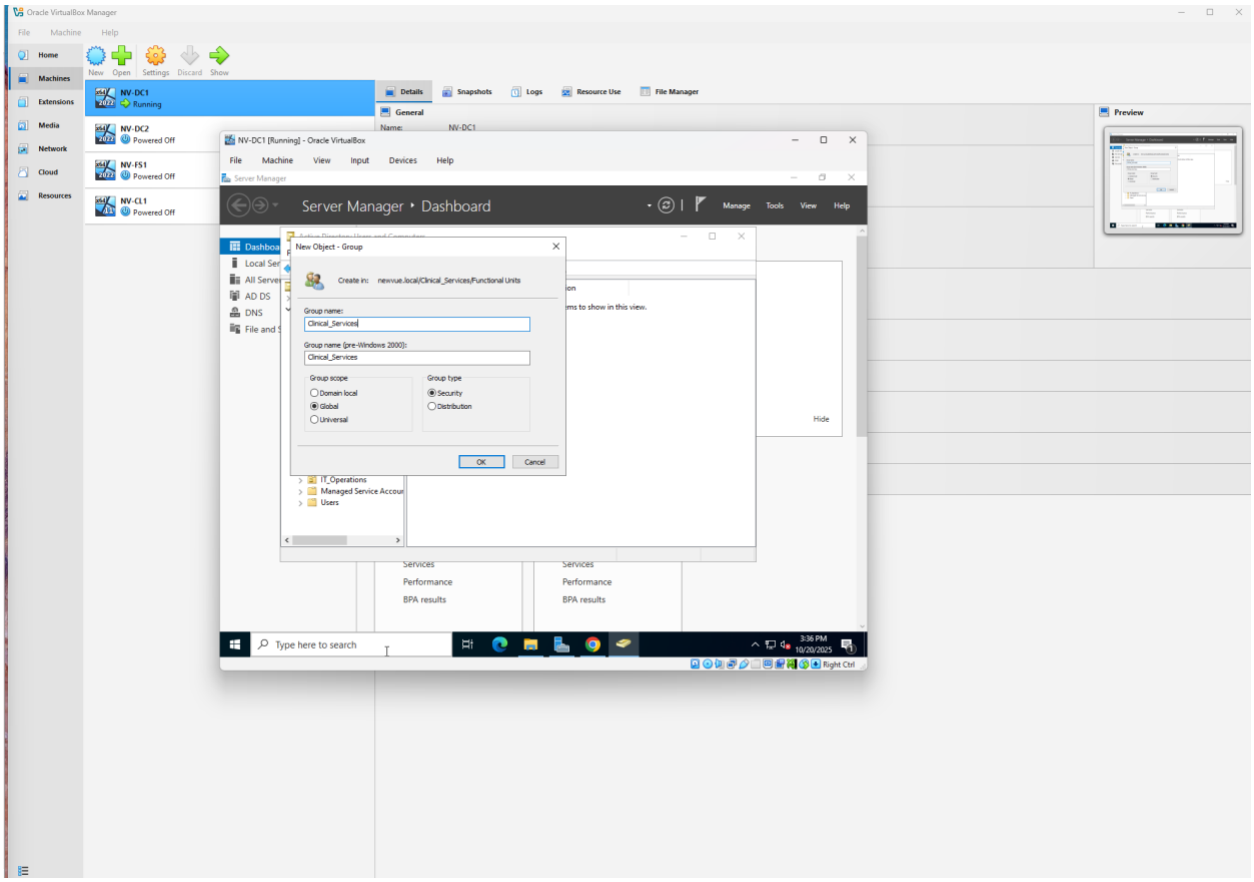


- Evidence 2: Screenshot of **Administration → Functional Units** showing **Administration**, **Admin_Managers**, **Admin_Clerks**, and **Admin_Executives**.

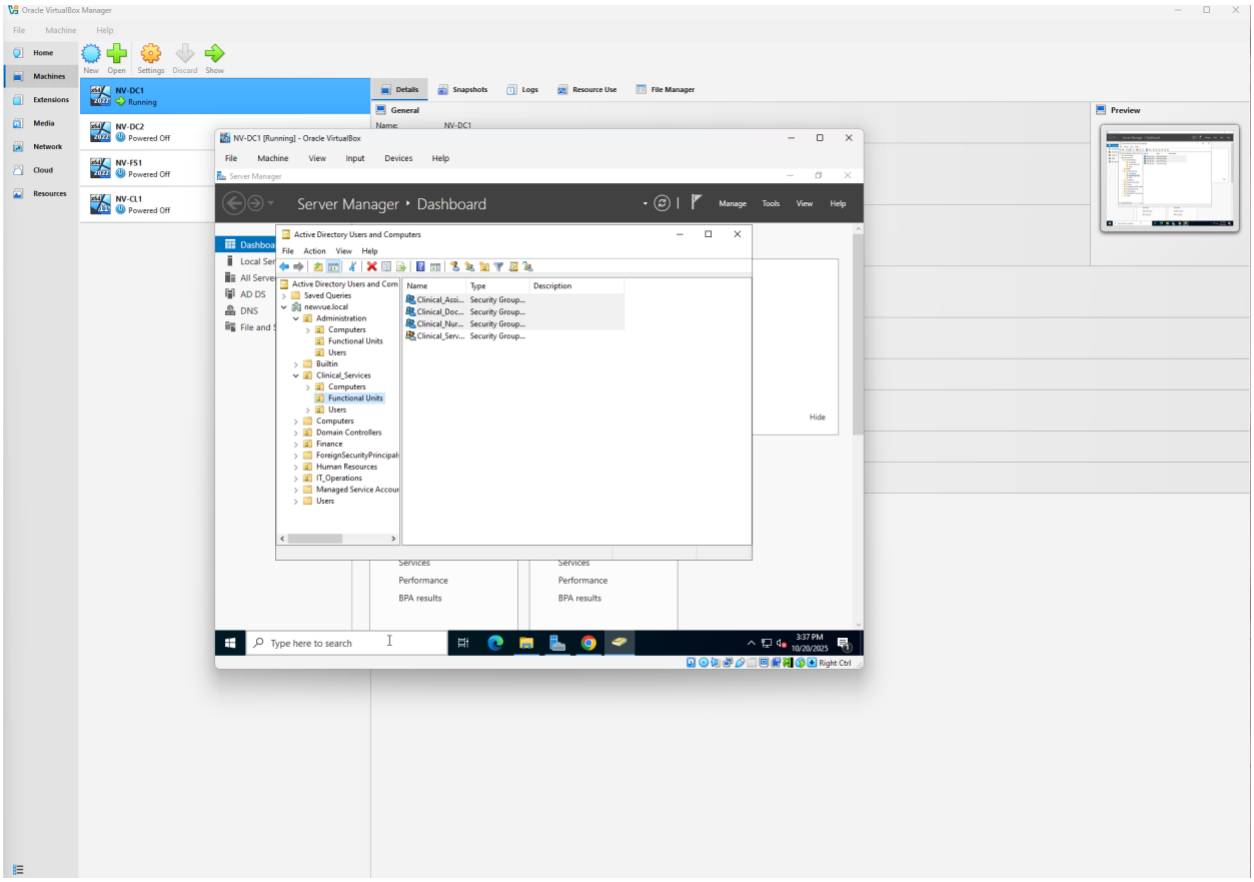


Clinical Services Department

- Evidence 3: Screenshot of the *New Object – Group* wizard showing creation of the **Clinical_Services** group.

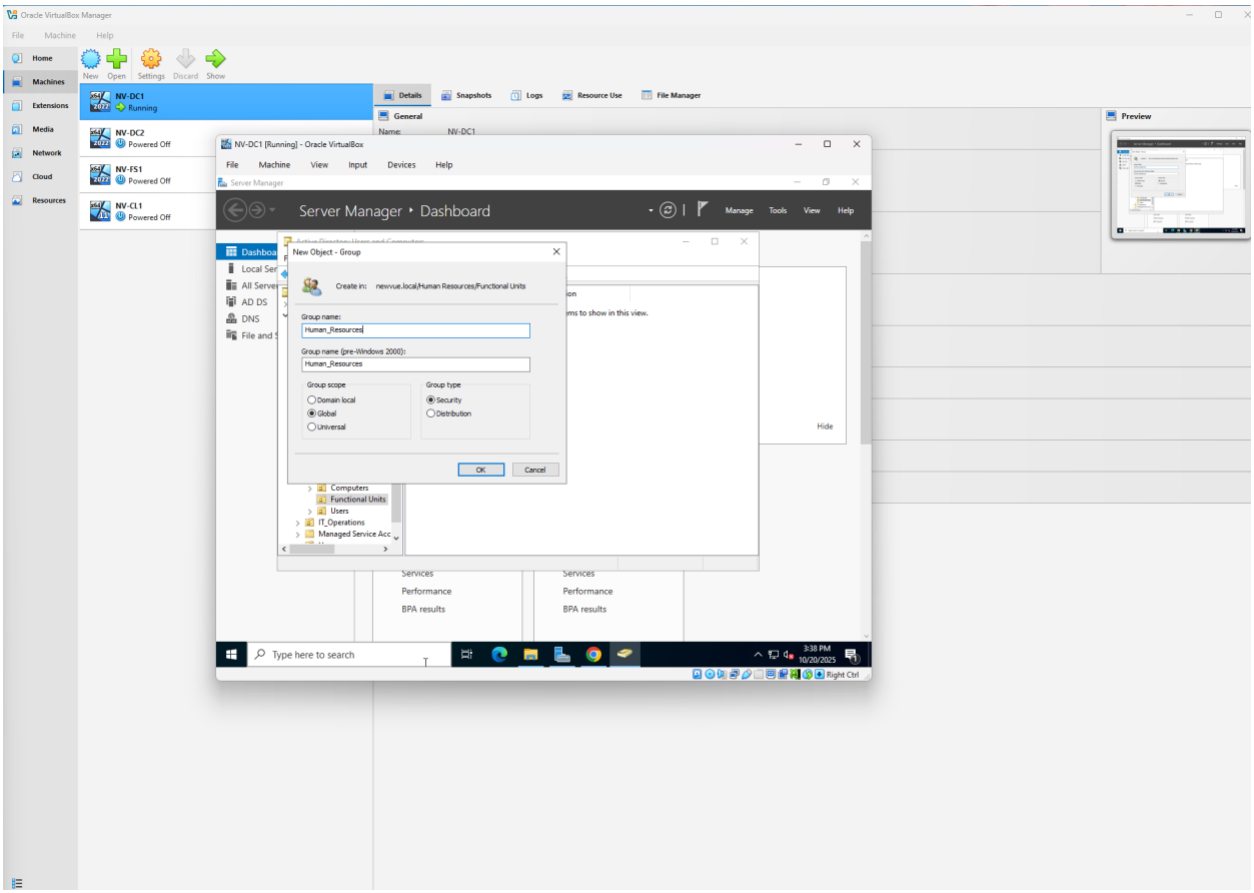


- Evidence 4: Screenshot of **Clinical Services → Functional Units** showing **Clinical_Services**, **Clinical_Doctors**, **Clinical_Nurses**, and **Clinical_Assistants**.

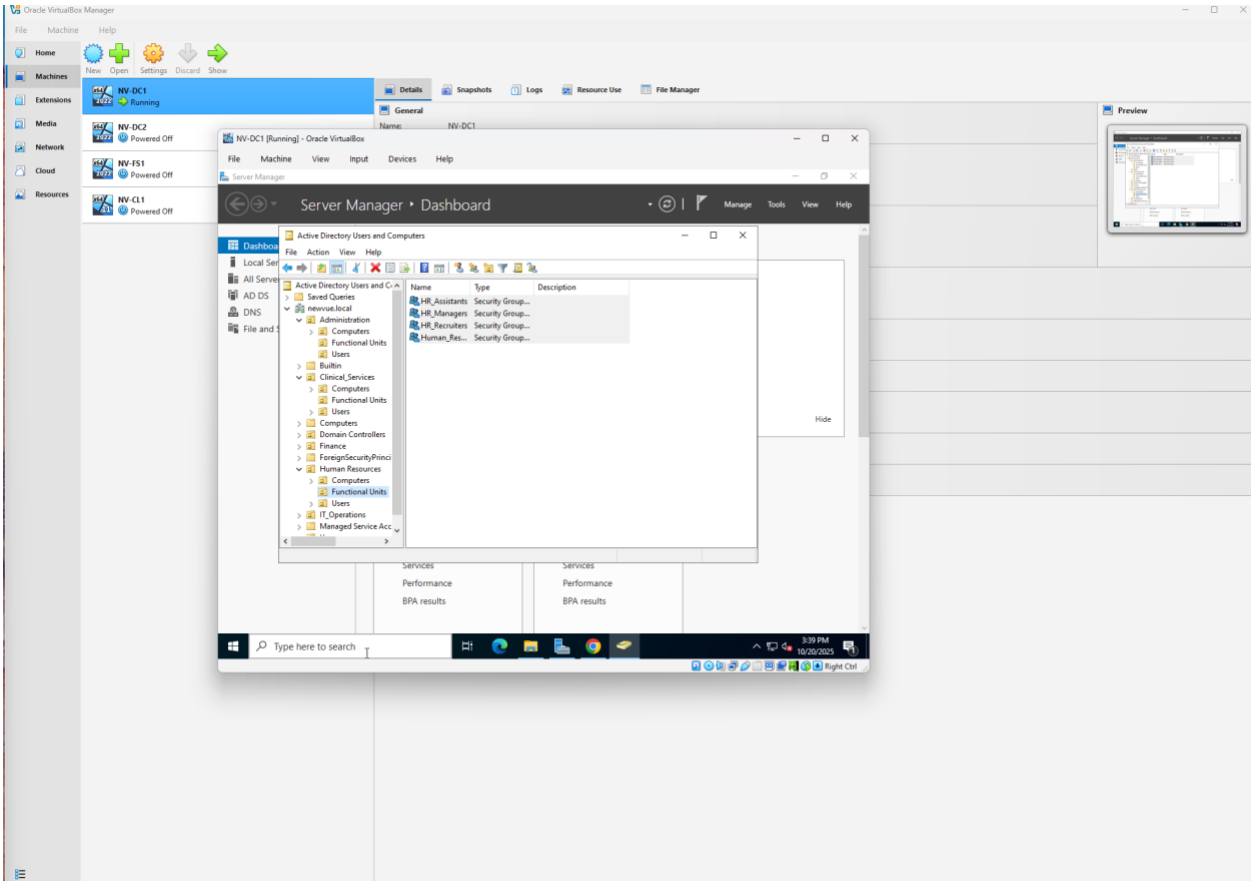


Human Resources Department

- Evidence 5: Screenshot of the *New Object – Group* wizard showing creation of the **Human_Resources** group.

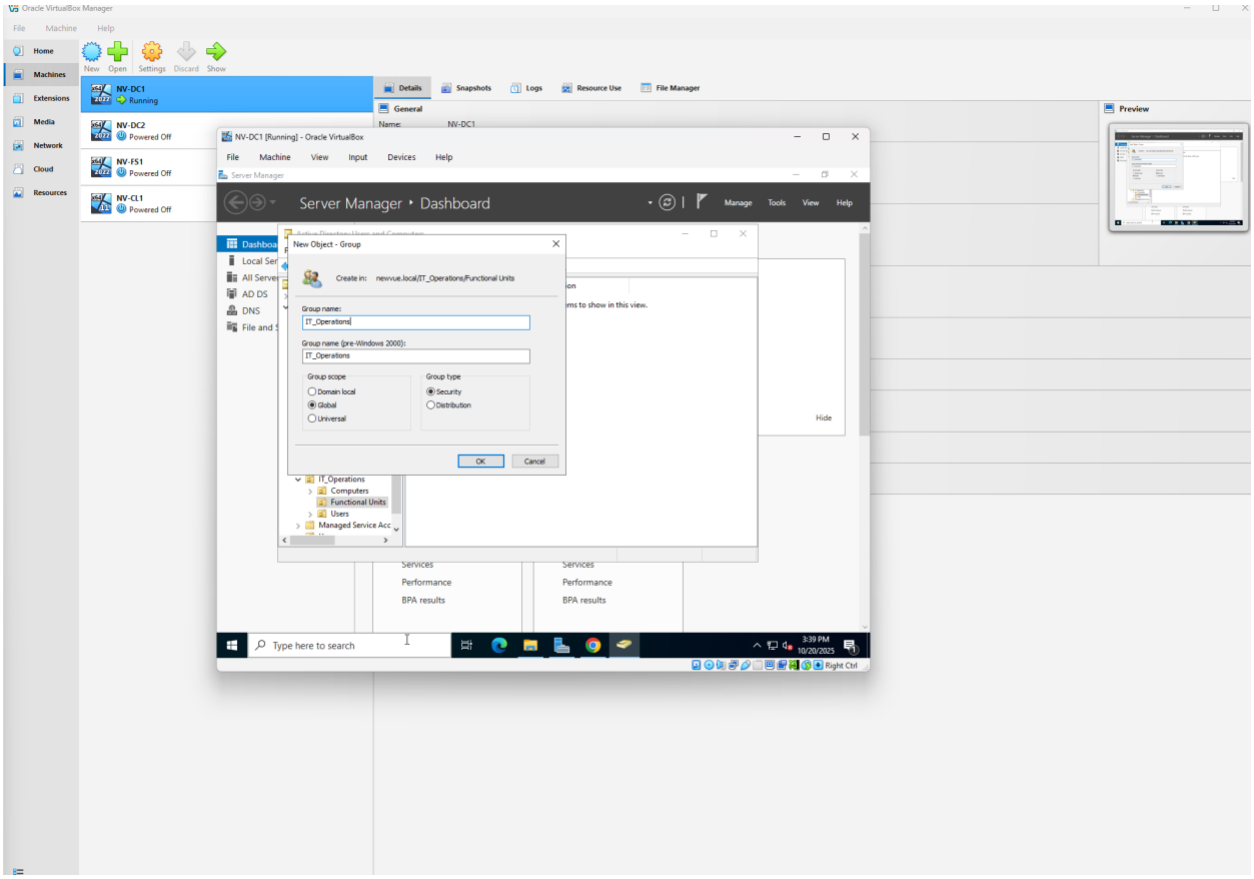


- Evidence 6: Screenshot of **Human Resources → Functional Units** showing **Human_Resources**, **HR_Managers**, **HR_Recruiters**, and **HR_Assistants**.

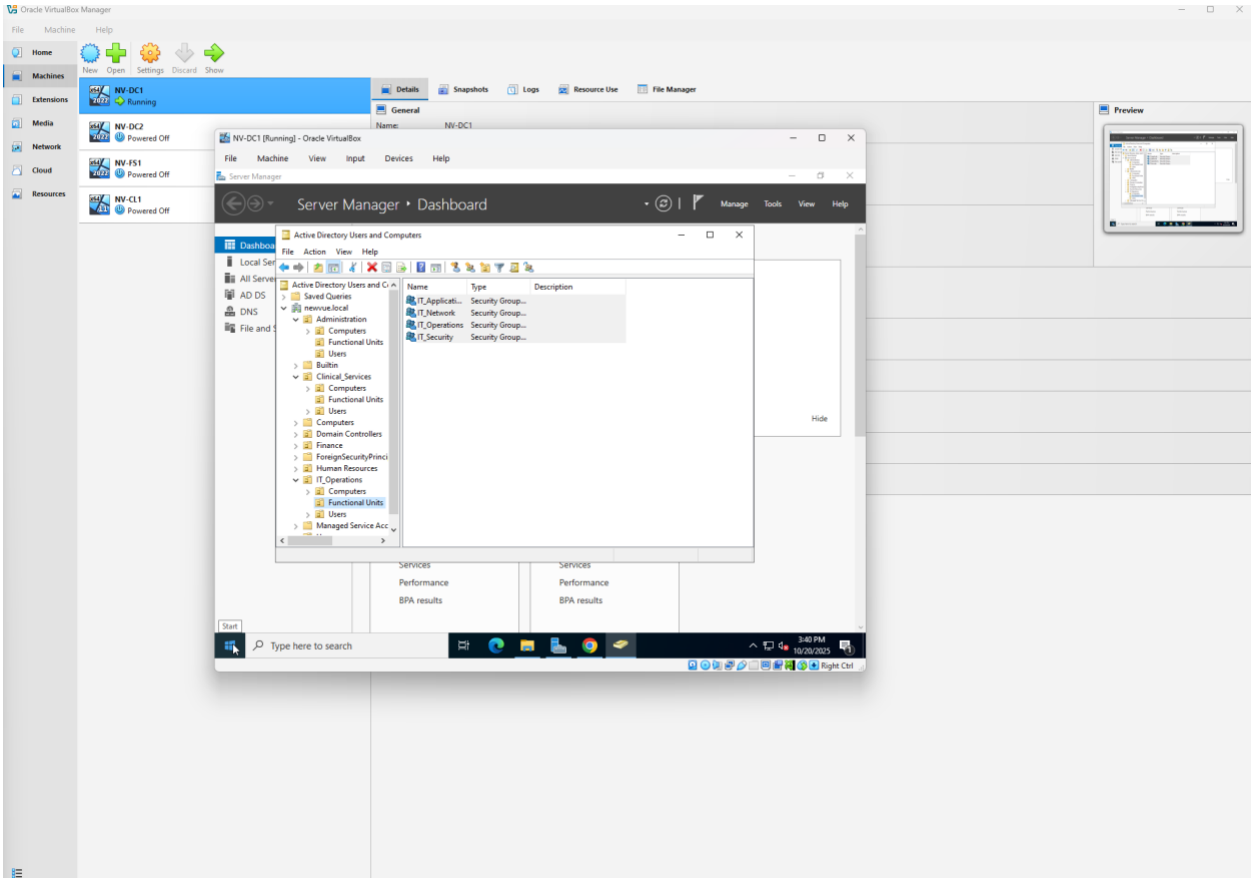


IT Operations Department

- Evidence 7: Screenshot of the *New Object – Group* wizard showing creation of the **IT_Operations** group.

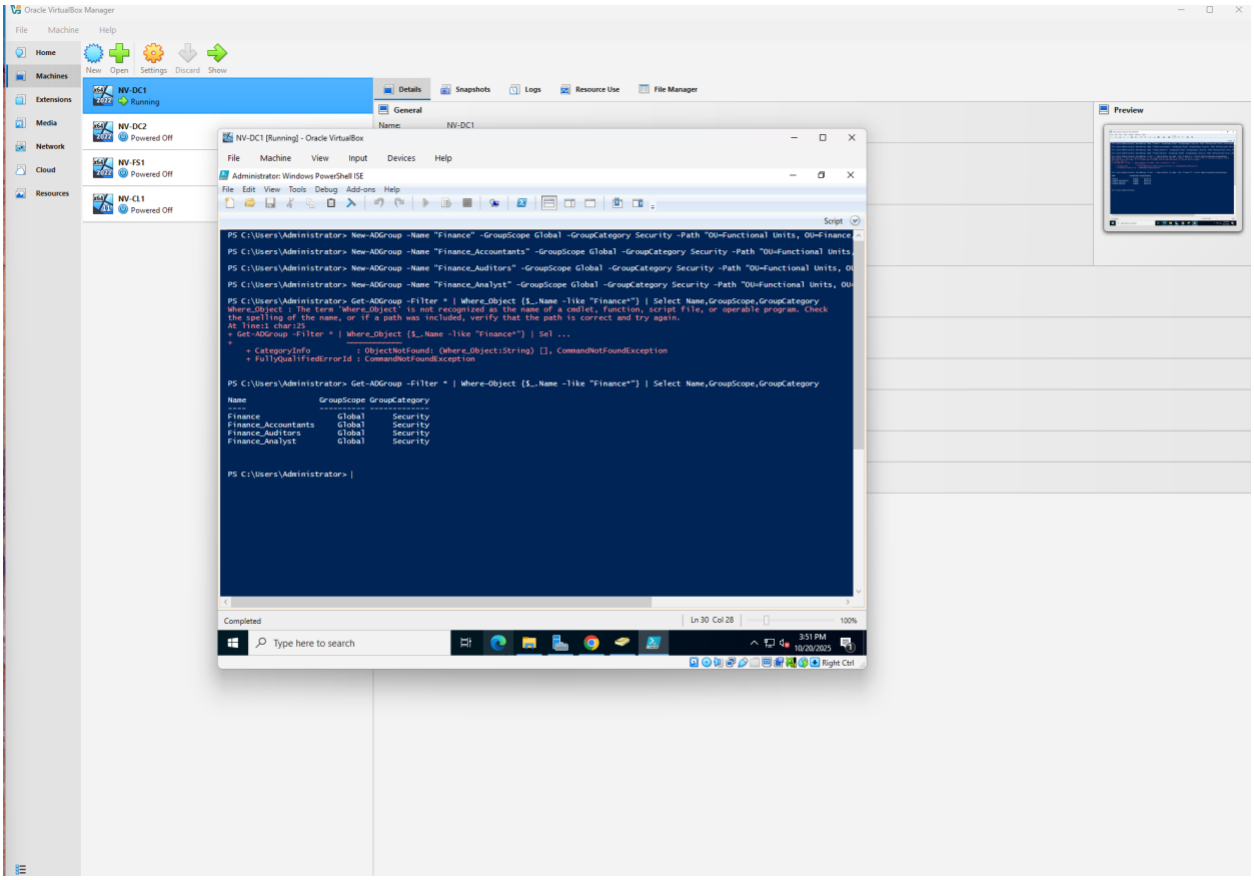


- Evidence 8: Screenshot of **IT Operations → Functional Units** showing **IT_Operations**, **IT_Network**, **IT_Security**, and **IT_Applications**.

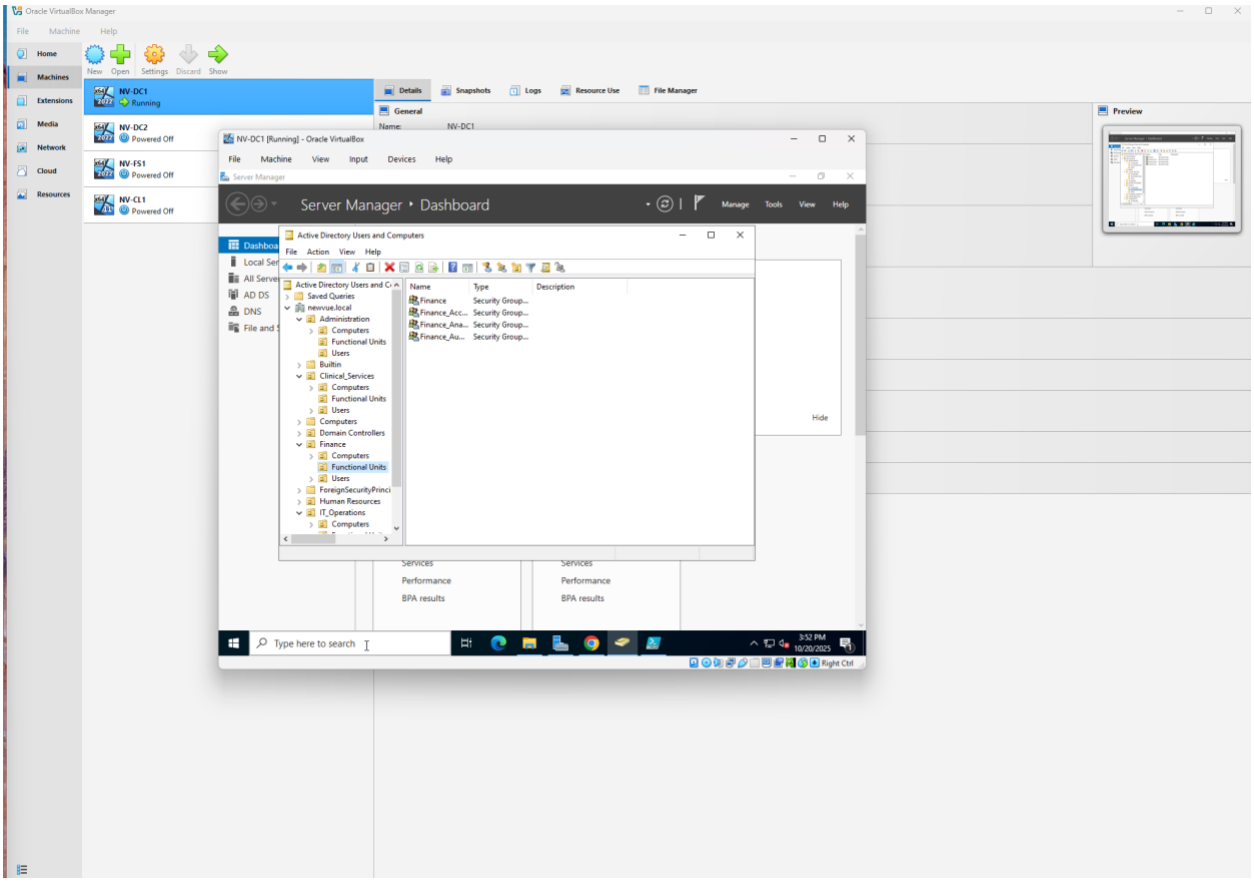


Finance Department (PowerShell)

- Evidence 9: Screenshot of PowerShell showing successful execution of the New-ADGroup commands.



- Evidence 10: Screenshot of **Finance → Functional Units** showing **Finance**, **Finance_Accountants**, **Finance_Auditors**, and **Finance_Analysts**.



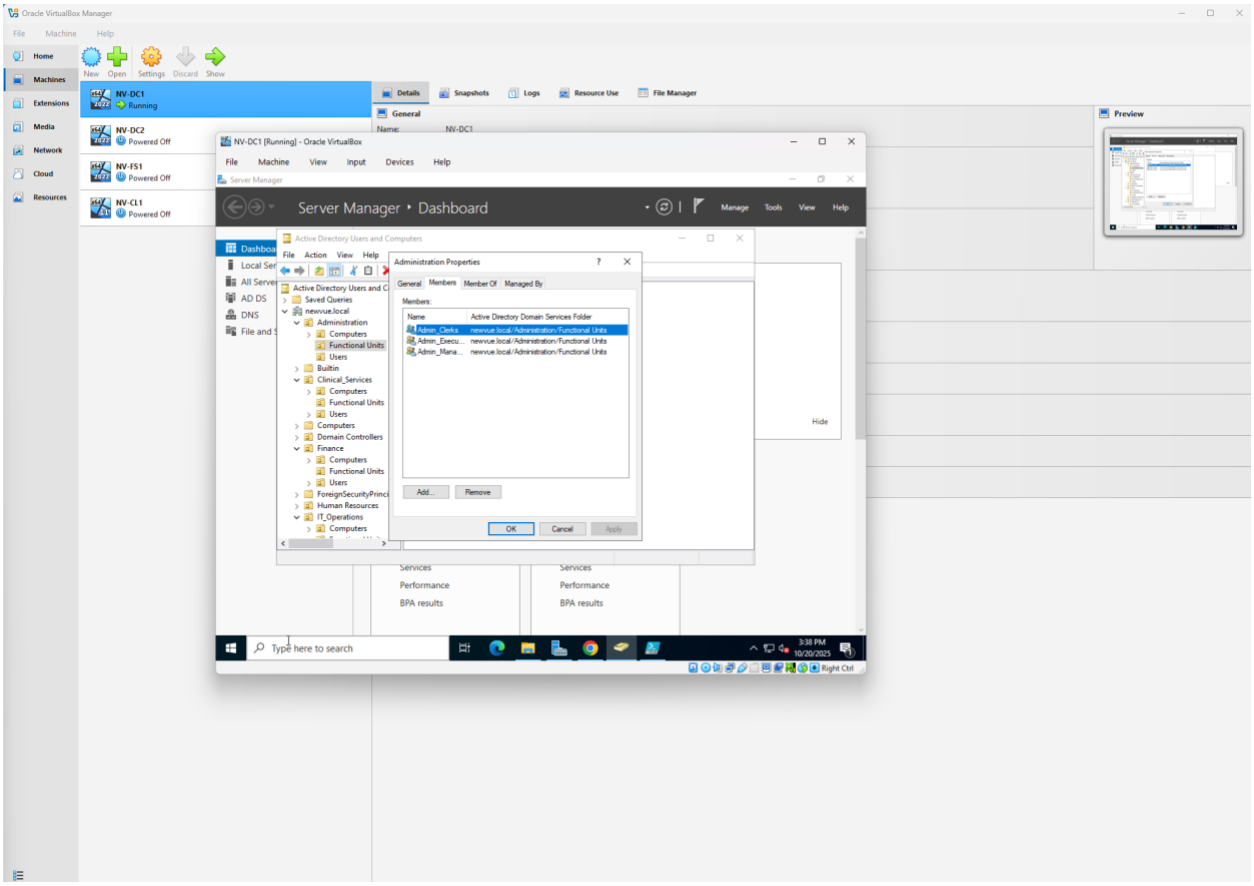
Section 3 – Nesting Groups (15 points)

In this section, I implemented **group nesting** by adding the three role-based groups of each department as members of their main departmental group.
This structure allows permissions or policies applied to the departmental group to automatically apply to all nested role-based groups, promoting efficiency and standardization across the organization.

Evidence

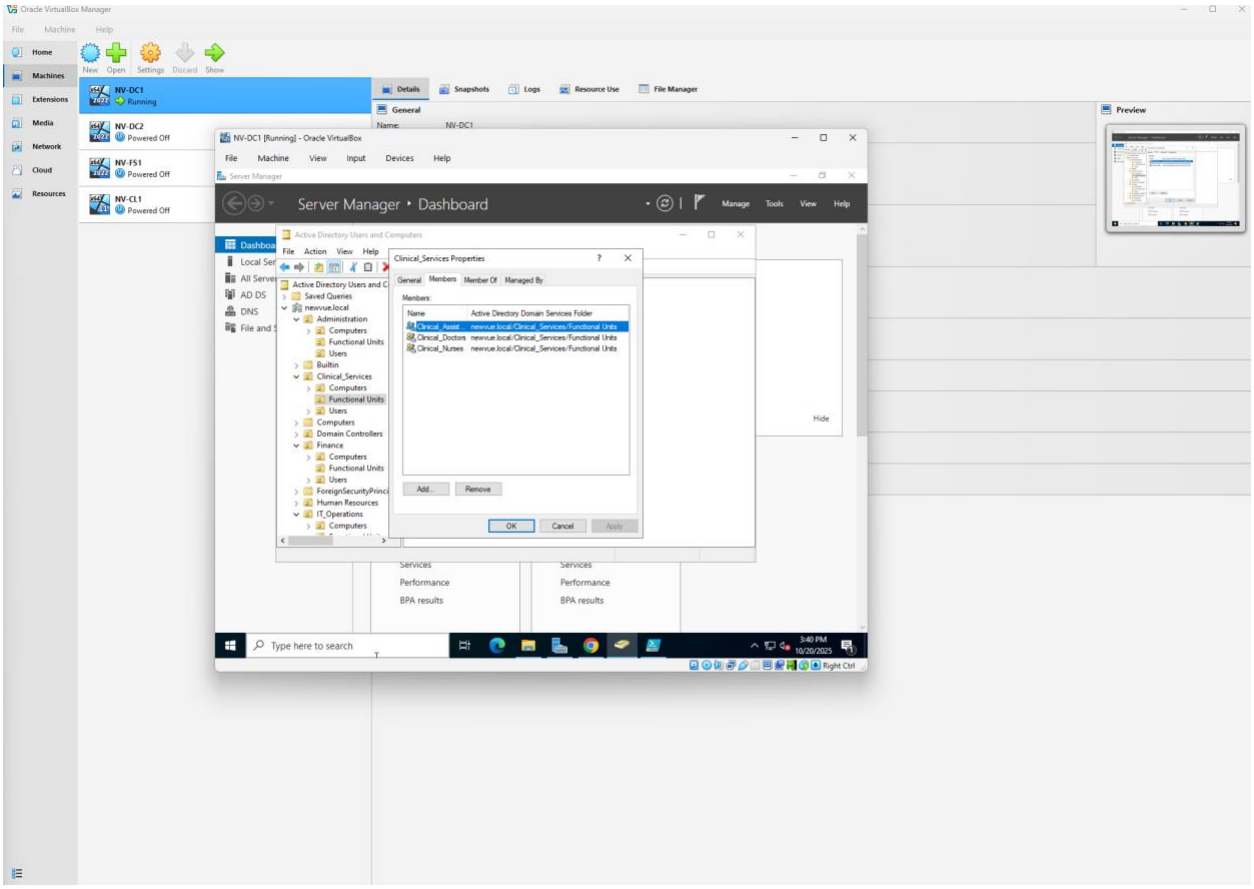
Administration Department

- Evidence 11: Screenshot of the **Administration → Members** tab showing **Admin_Managers**, **Admin_Clerks**, and **Admin_Executives**.



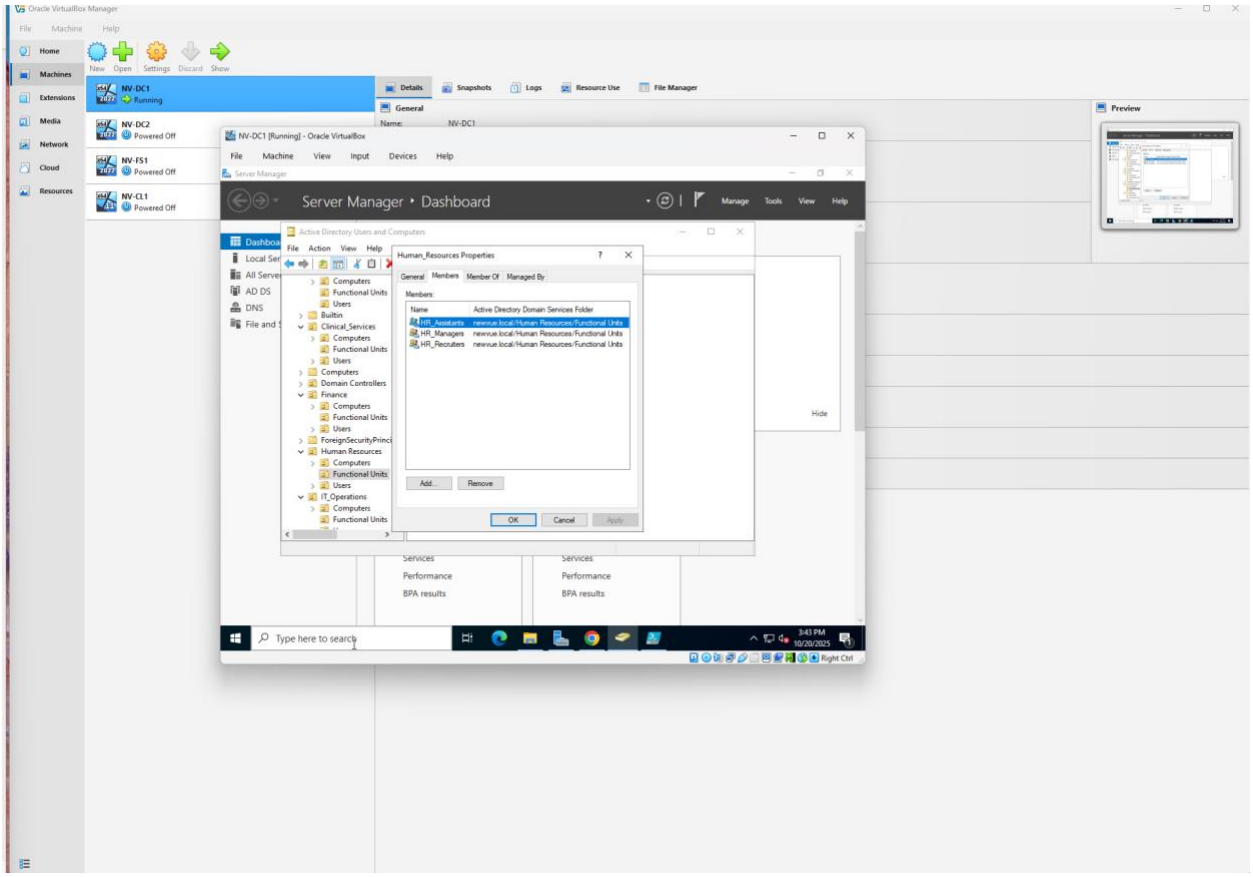
Clinical Services Department

- Evidence 12: Screenshot of the **Clinical_Services → Members** tab showing **Clinical_Doctors**, **Clinical_Nurses**, and **Clinical_Assistants**.



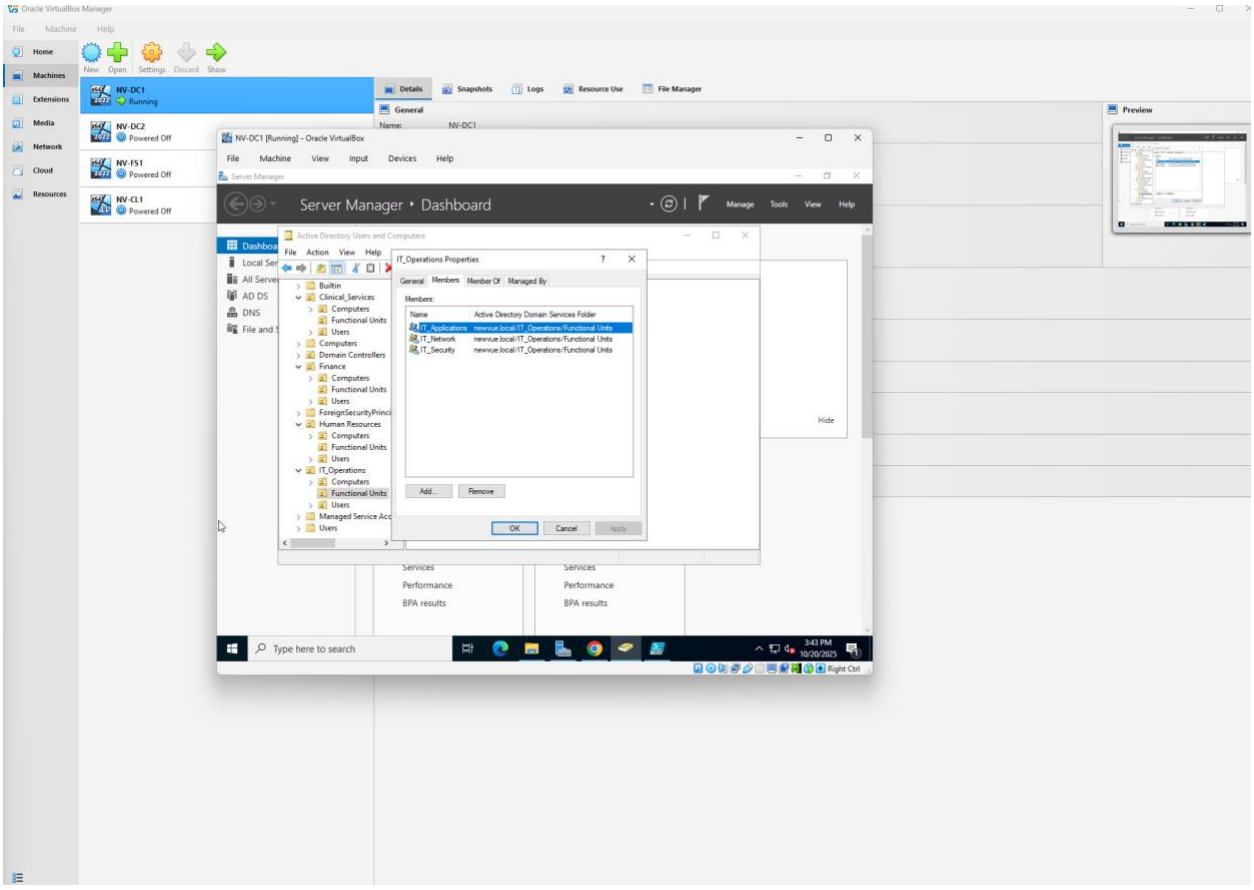
Human Resources Department

- Evidence 13: Screenshot of the **Human_Resources → Members** tab showing **HR_Managers**, **HR_Recruiters**, and **HR_Assistants**.



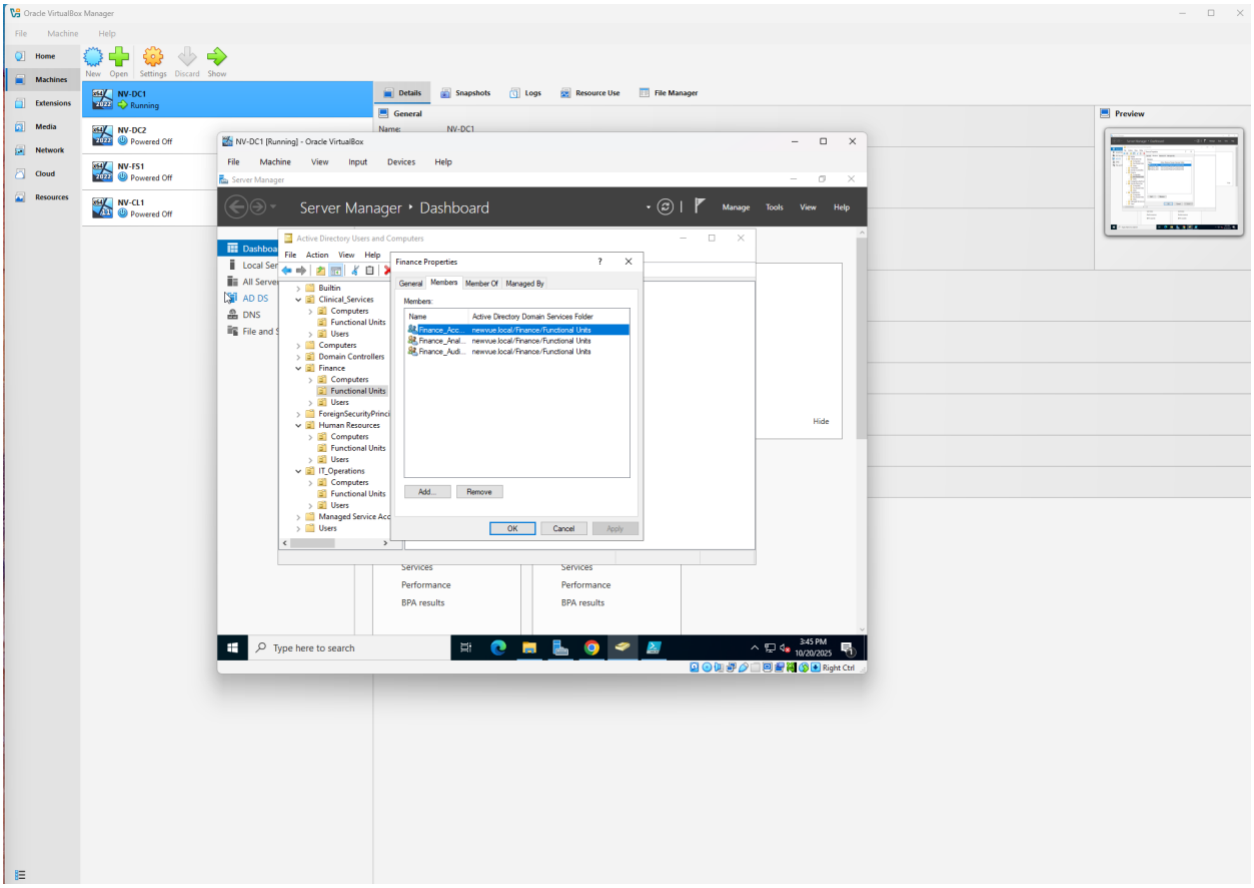
IT Operations Department

- Evidence 14: Screenshot of the **IT_Operations → Members** tab showing **IT_Network**, **IT_Security**, and **IT_Applications**.



Finance Department

- Evidence 15: Screenshot of the **Finance → Members** tab showing **Finance_Accountants**, **Finance_Auditors**, and **Finance_Analysts**.



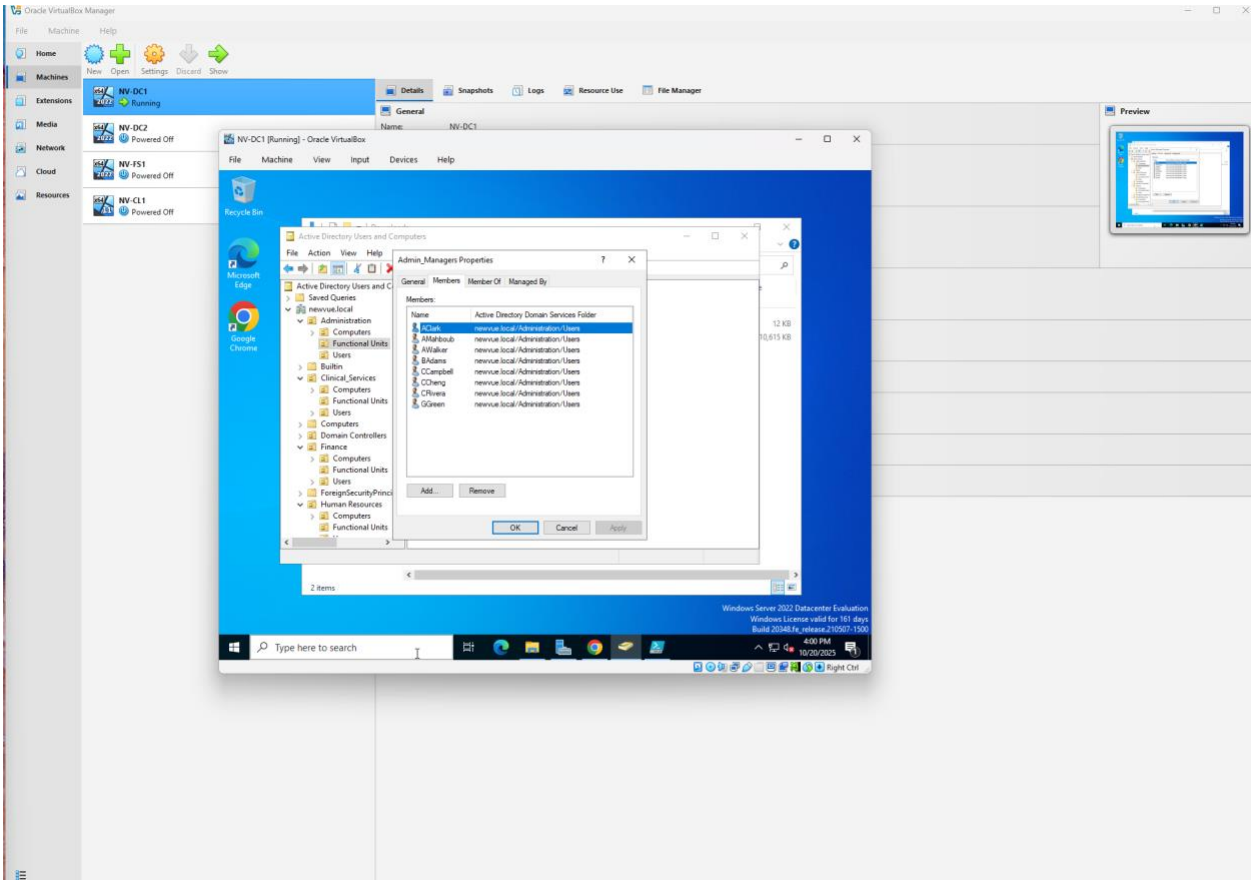
Section 4 – Adding Users to Role-Based Groups (45 points)

In this section, I assigned user accounts to the appropriate role-based groups within each department. Users were evenly distributed among the available groups to simulate functional assignments and to demonstrate how membership determines access through the RBAC model. Verification was done by reviewing each group's Members tab in ADUC.

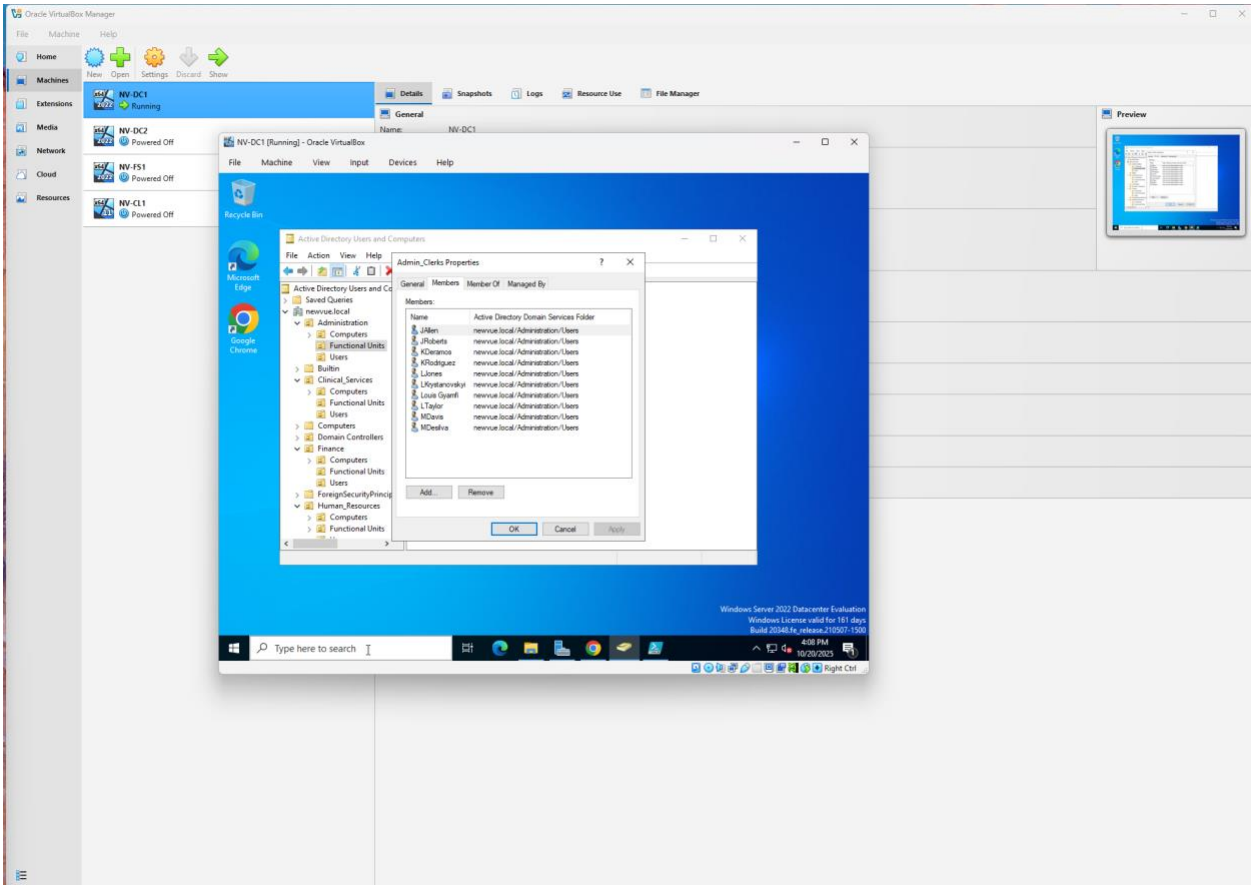
Evidence

Administration Department

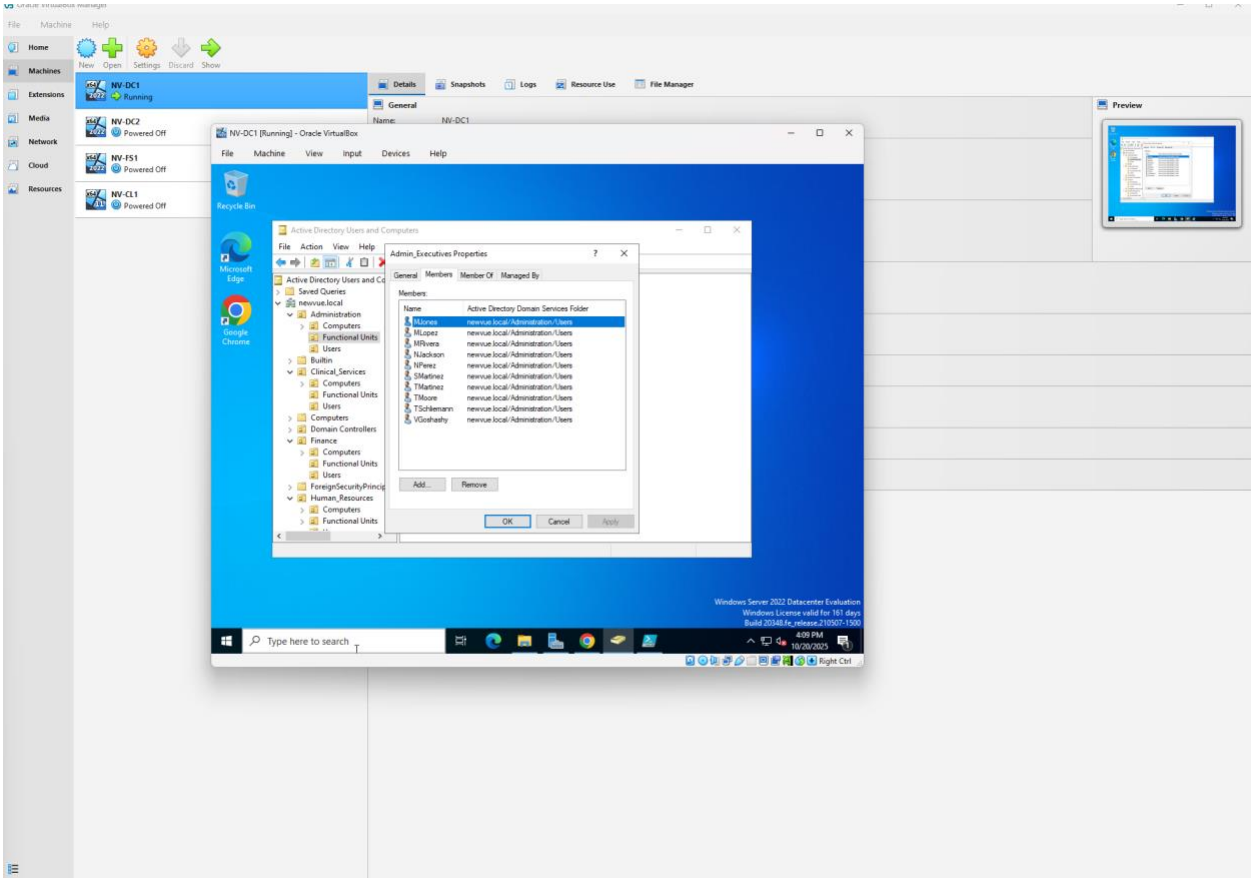
- Evidence 16: Screenshot of the **Members** tab of the following groups:
    - Admin_Managers



- Admin_Clerks

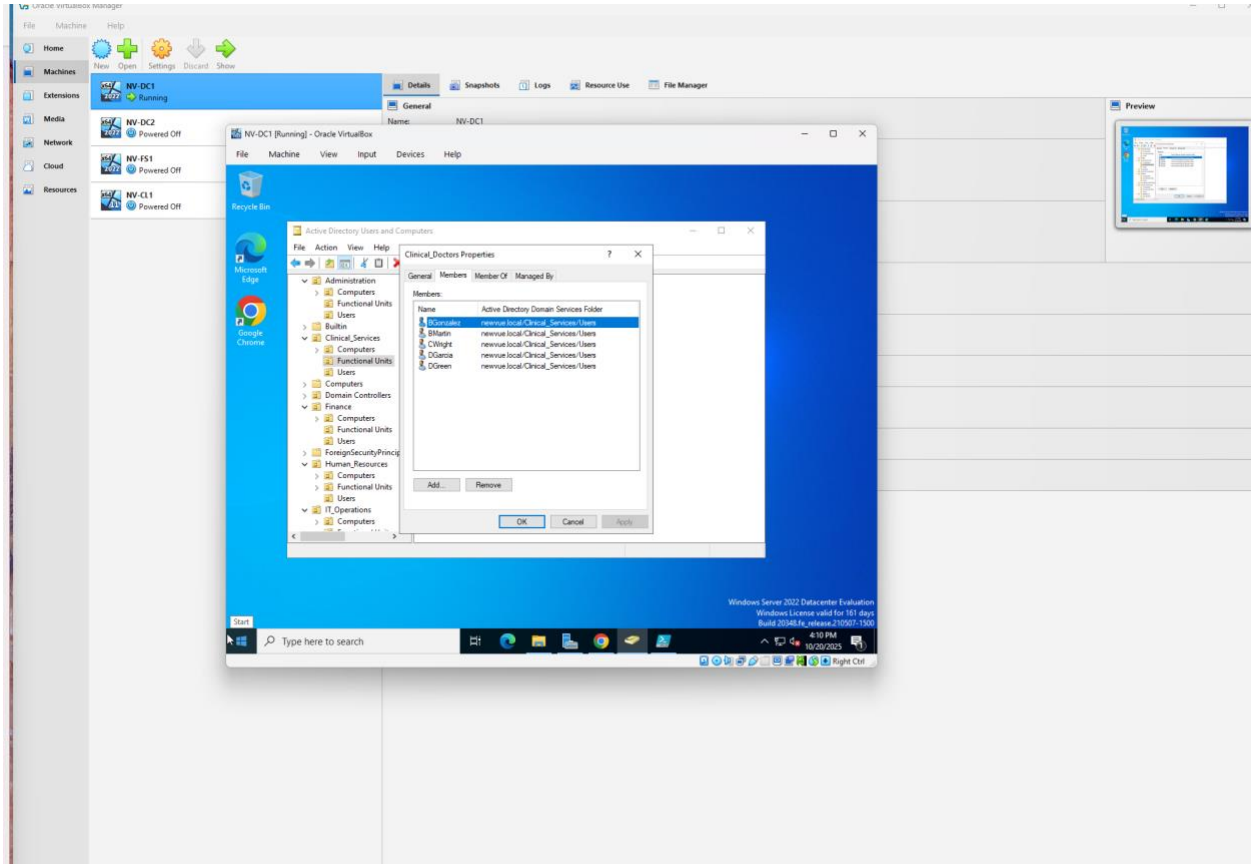


- Admin_Executives

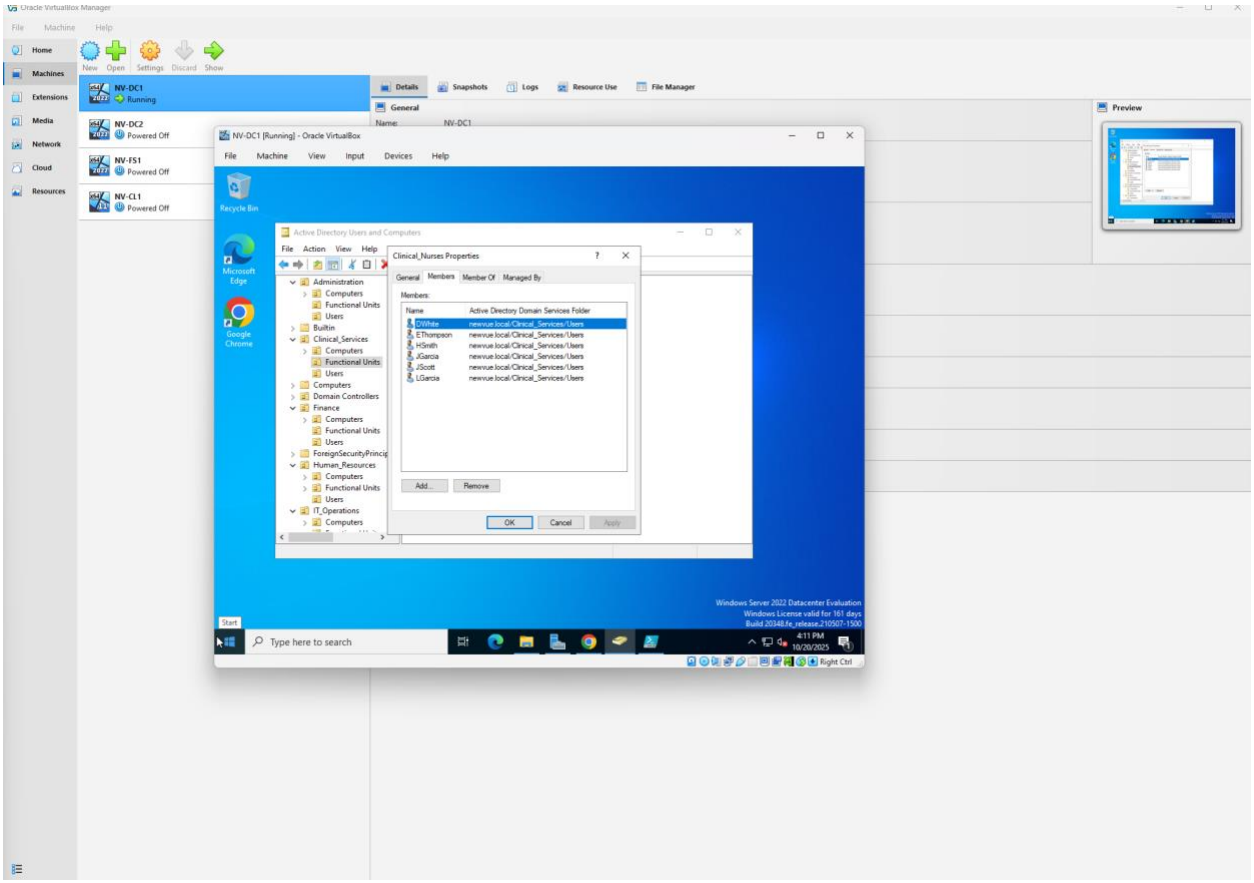


Clinical Services Department

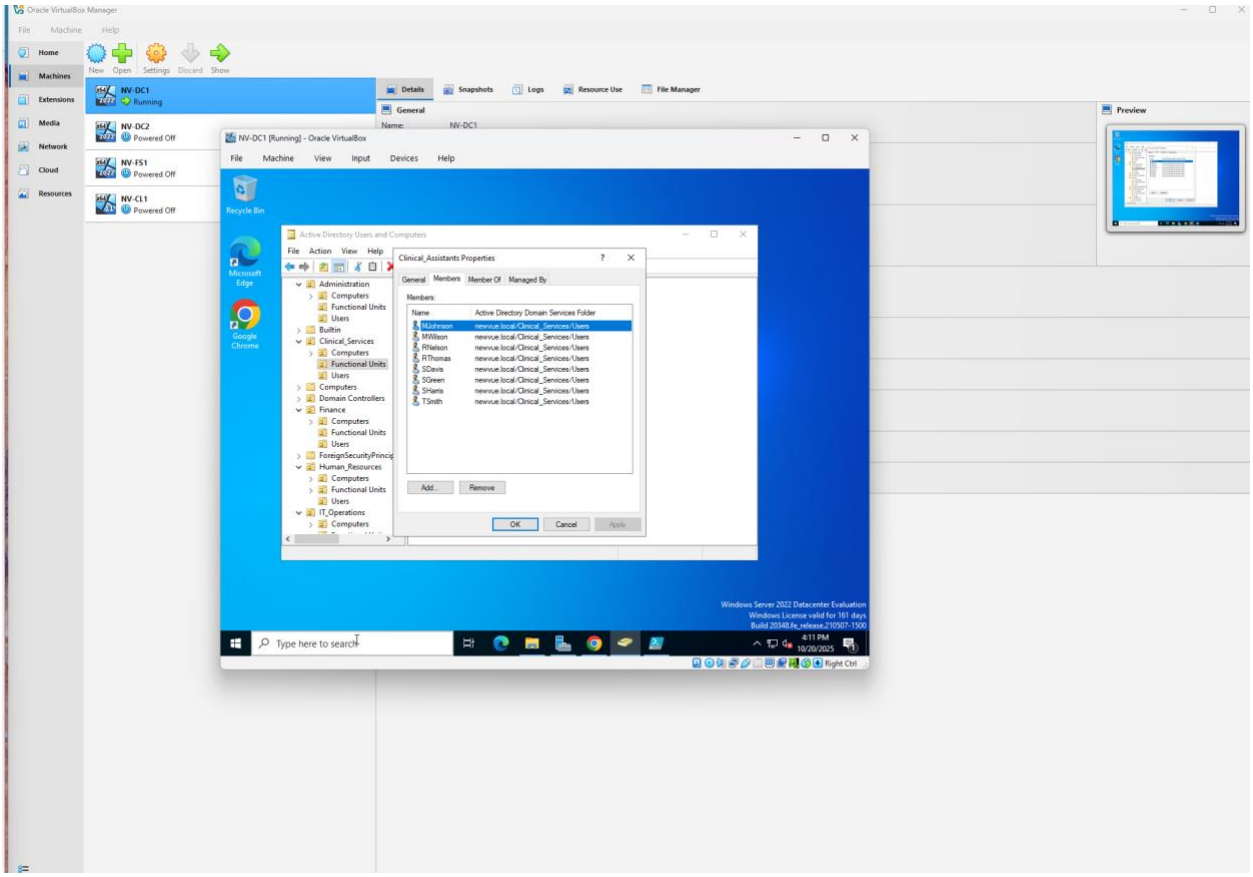
- Evidence 17: Screenshot of the **Members** tab of the following groups:
    - Clinical_Doctors



- Clinical_Nurses

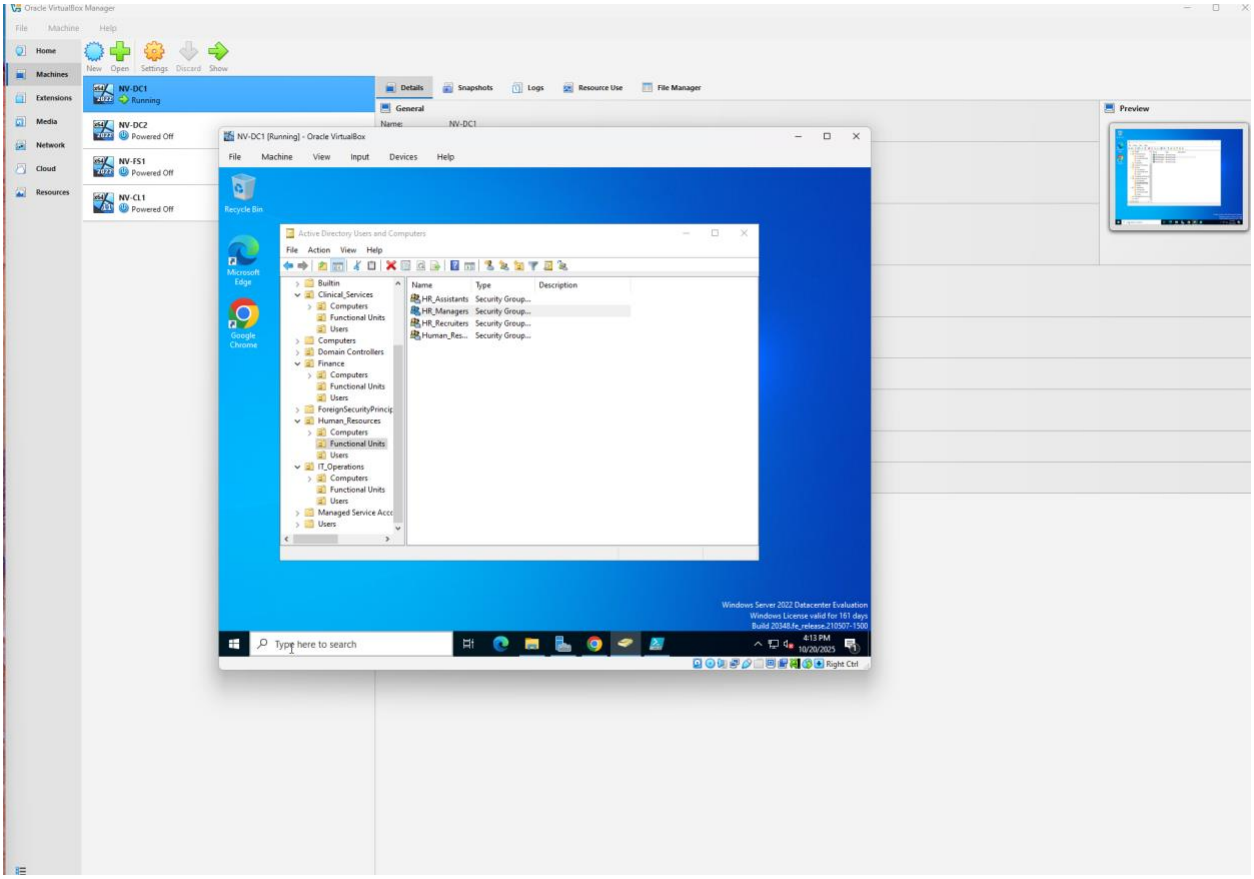


- Clinical_Assistants

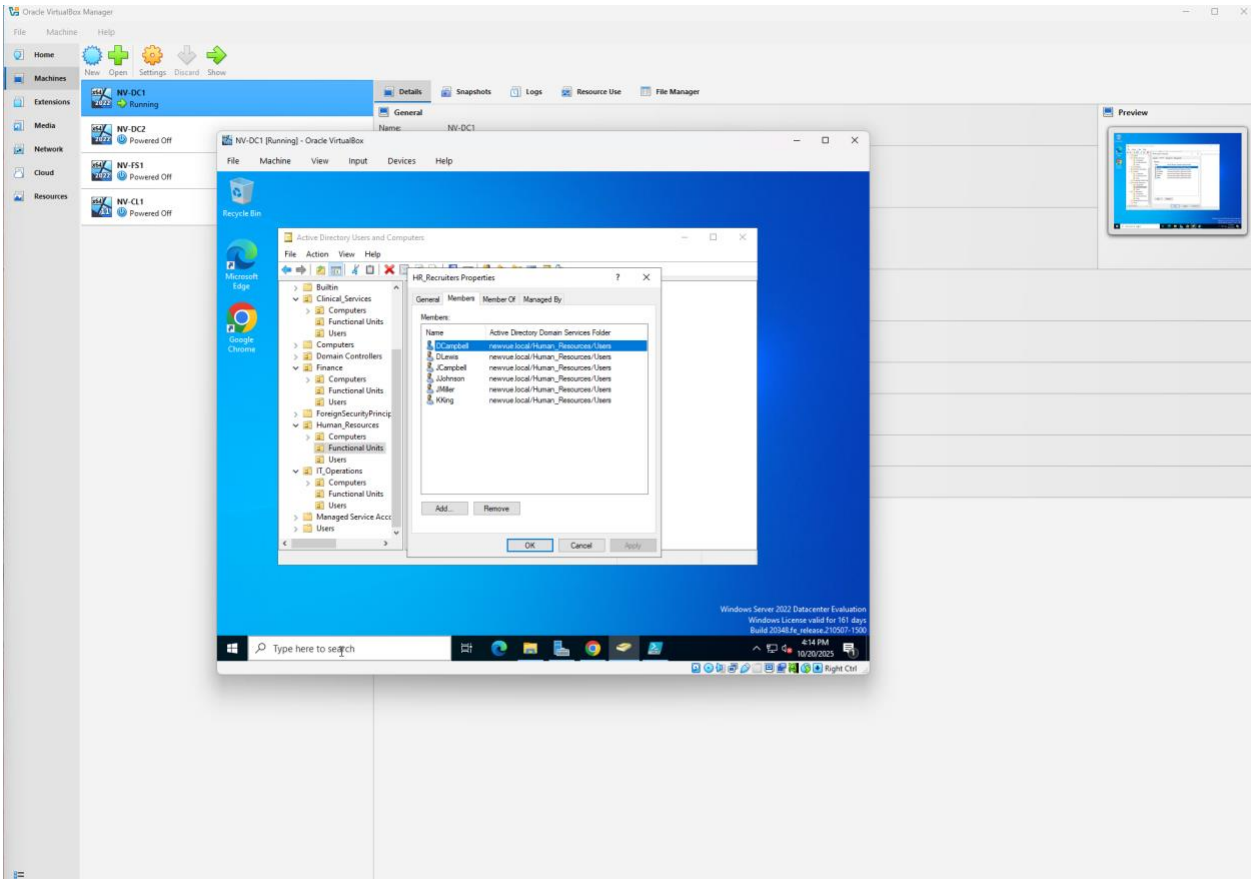


Human Resources Department

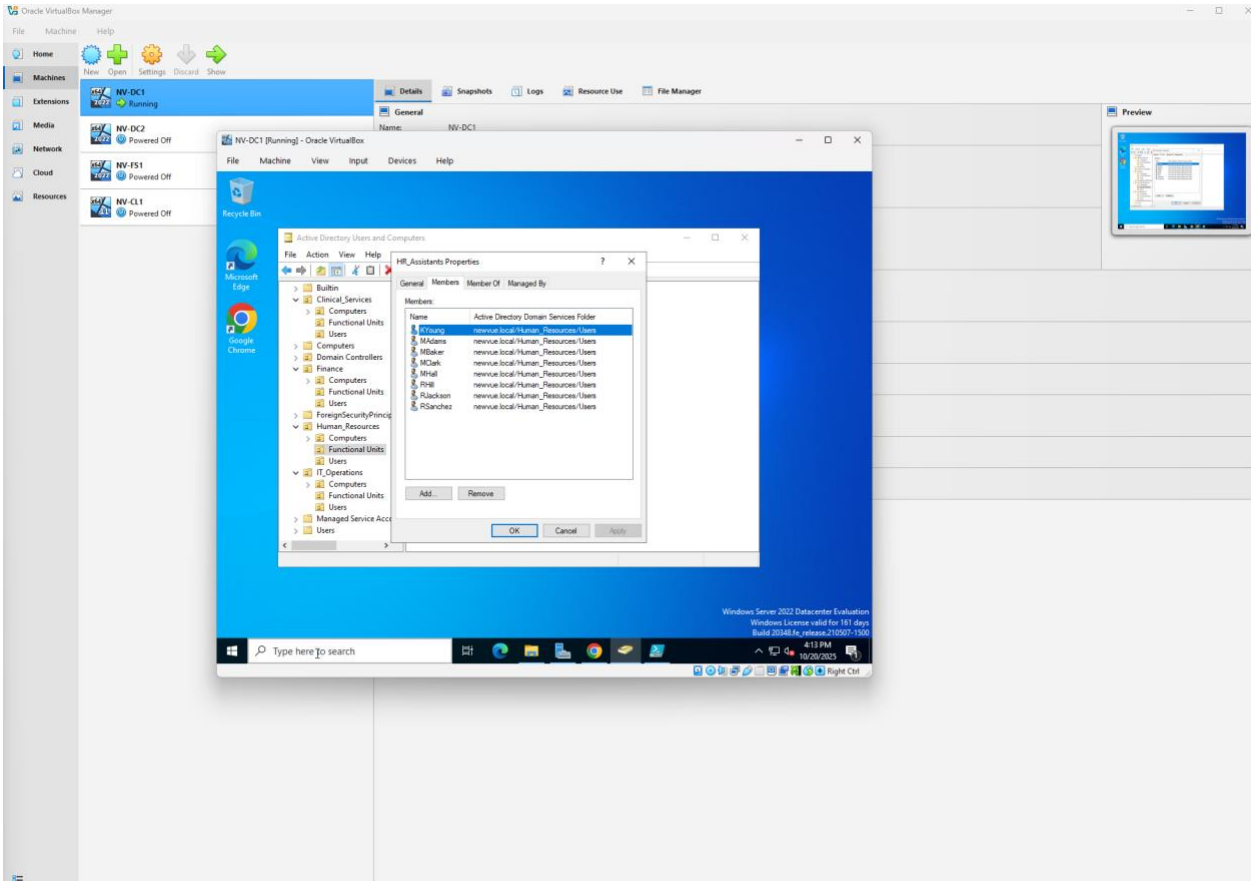
- Evidence 18: Screenshot of the **Members** tab of the following groups:
    - HR_Managers



- HR_Recruiters

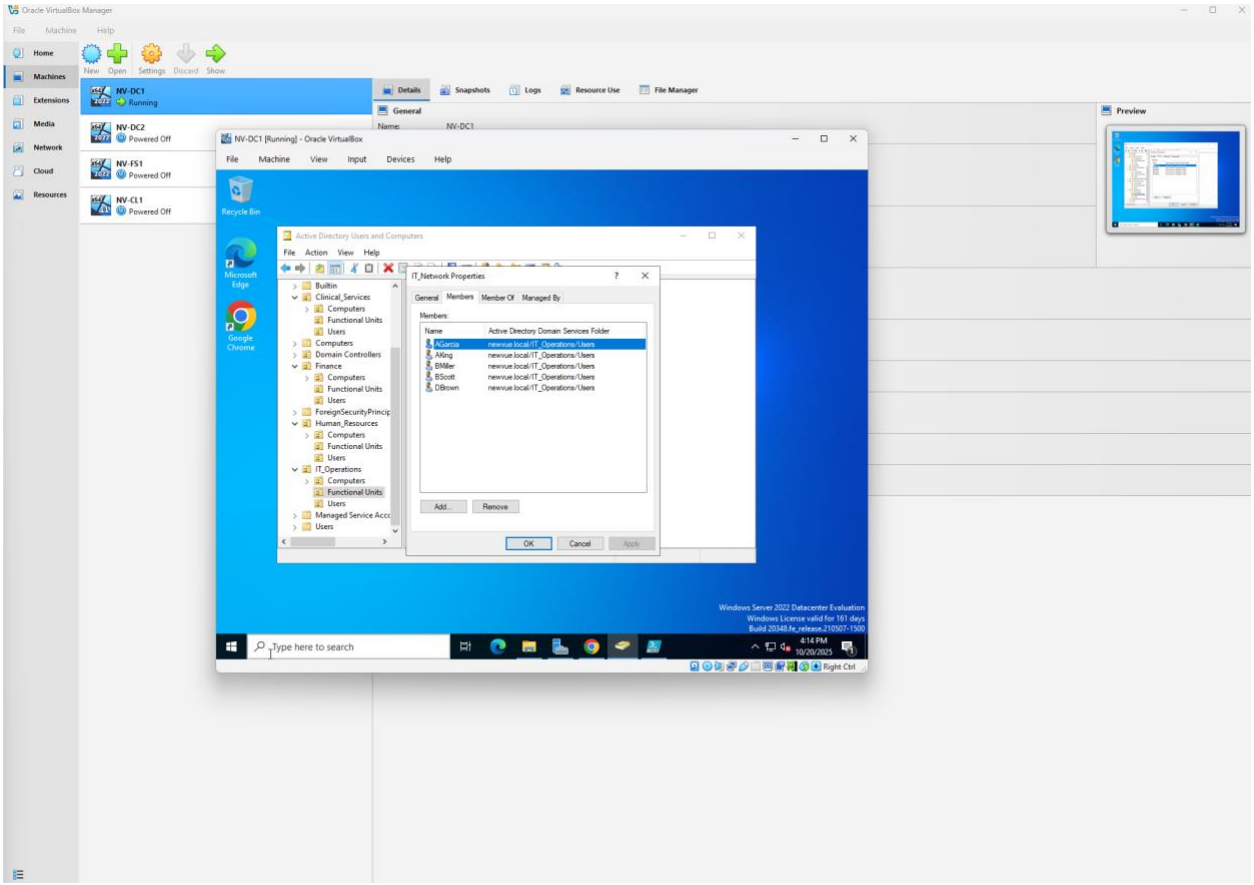


- HR_Assistants

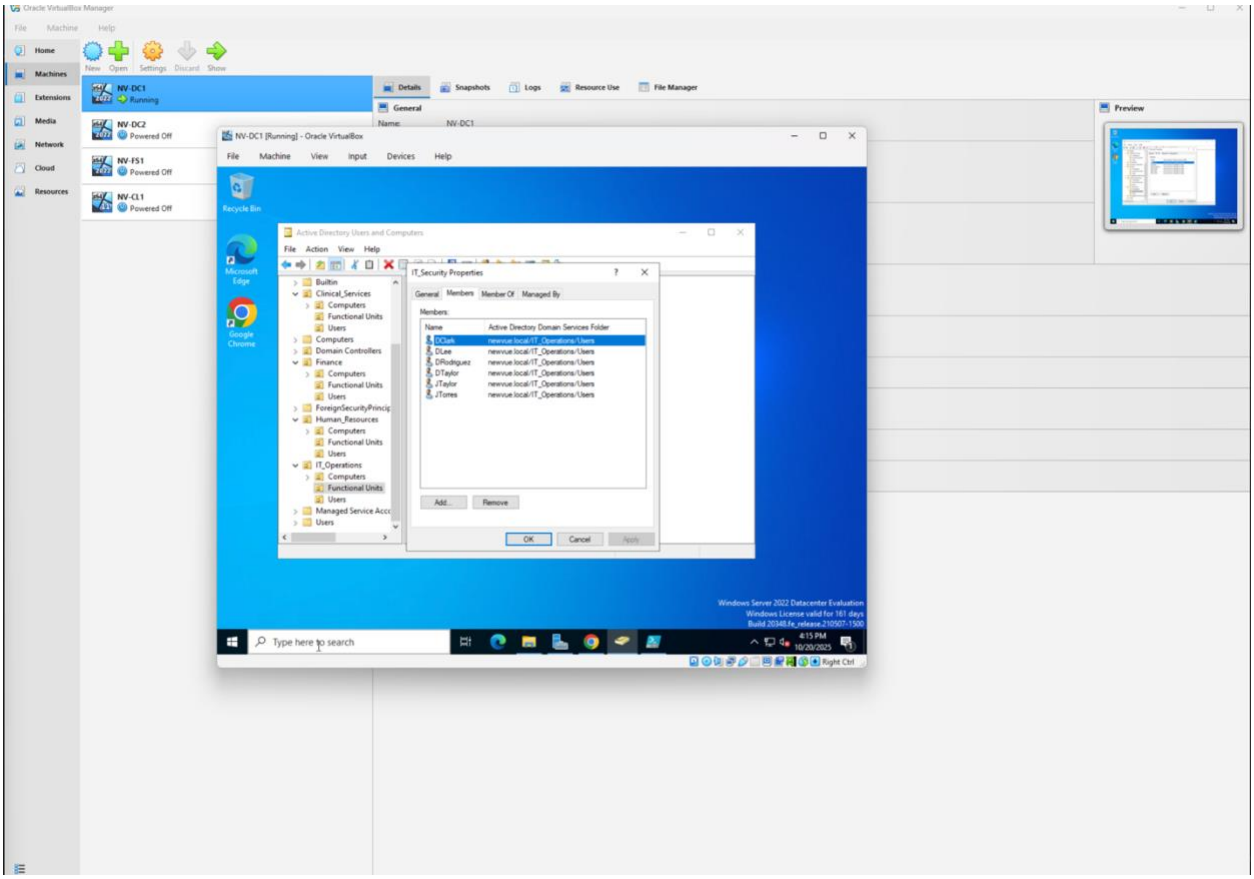


IT Operations Department

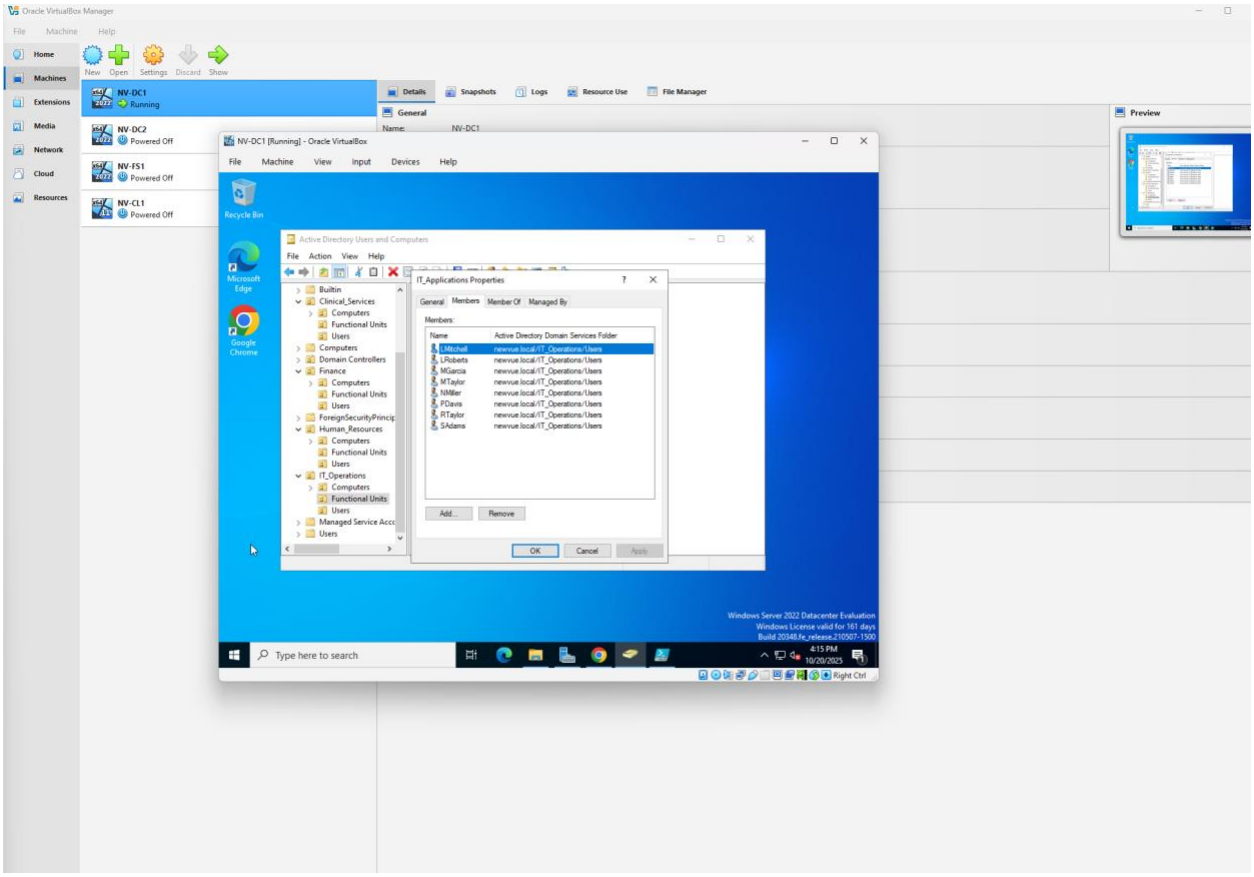
- Evidence 19: Screenshot of the **Members** tab of the following groups:
    - IT_Network



- IT_Security

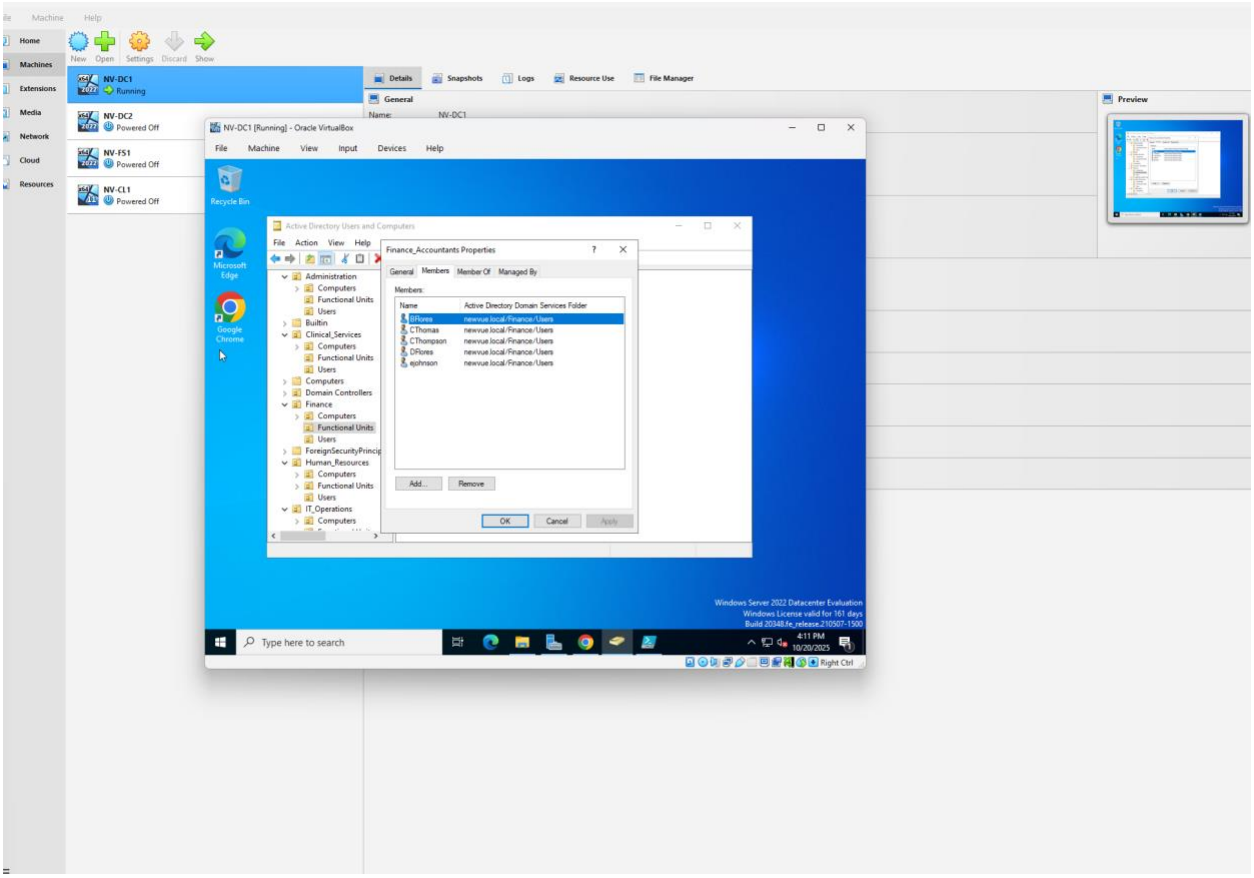

Oracle VirtualBox Manager
NV-DC1
Running
NV-DC2
Powered Off
NV-FS1
Powered Off
NV-CL1
Powered Off
NV-DC1 [Running] - Oracle VirtualBox
Active Directory Users and Computers
IT_Security Properties
Windows Server 2022 Datacenter Evaluation

- IT_Applications

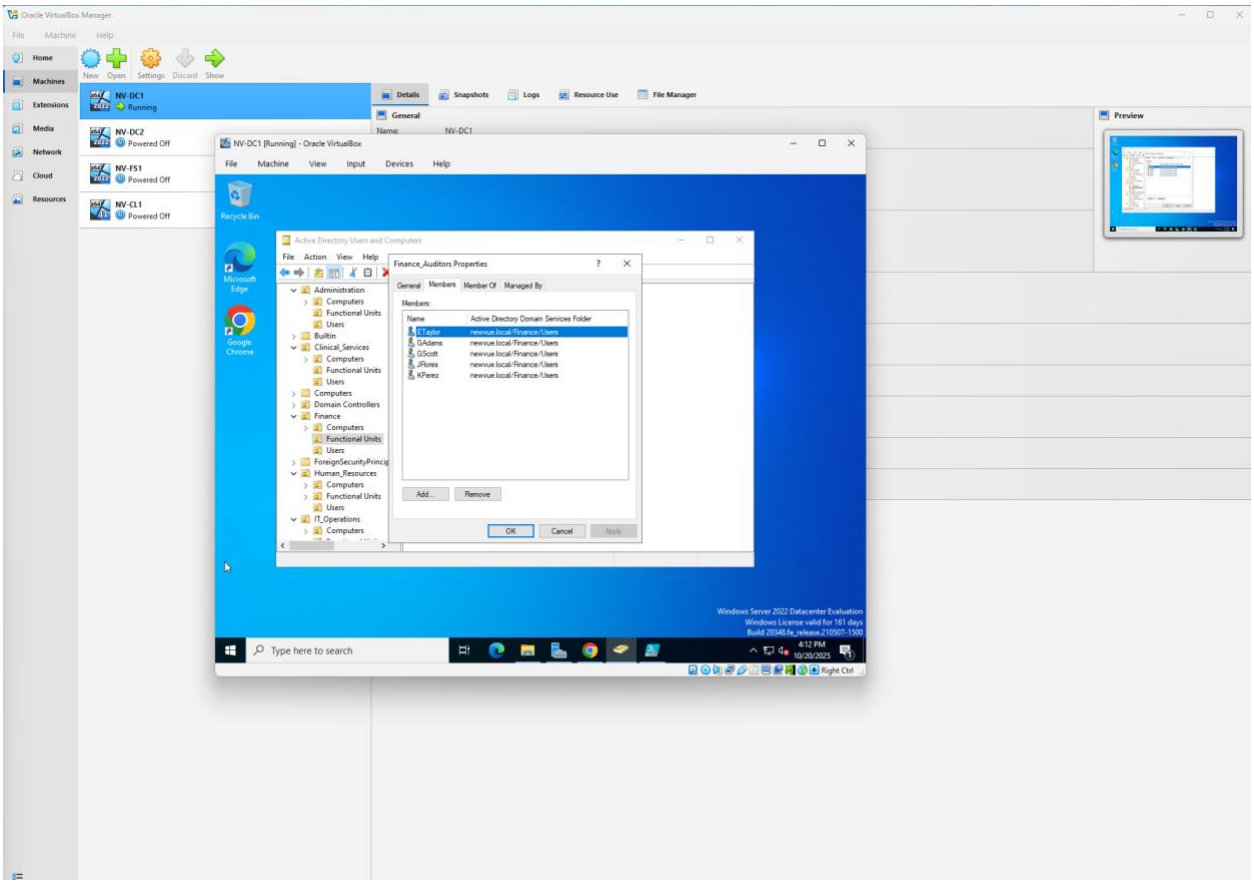


Finance Department

- Evidence 20: Screenshot of the **Members** tab of the following groups:
    - Finance_Accountants



- Finance_Auditors



- Finance_Analysts