# IT 236 Project Report Form

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| Date: | 10/27/2025 |
| Project Phase | Implementing Security and Compliance Controls with Group Policy |

## Section 1: Executive Summary (10 Points)

This phase of the NewVue Health Infrastructure Modernization Project focused on configuring Group Policy Objects (GPOs) to meet audit-driven security and compliance requirements within the newvue.local domain. The Proof-of-Concept environment includes NV-DC1 as the Domain Controller and NV-CL1 as the domain-joined client used for verification and testing.

As part of this engagement, four major policies were designed and implemented:

*List the policies created below and briefly describe their purpose.*

1. Password and Account Lockout Requirements
   **Purpose:** Enforcing strong authentication practices by configuring password complexity, length, maximum age, and a lockout threshold after failed attempts. This policy directly addresses critical audit and security compliance requirements by mitigating the risk of authorized access through password guessing or brute-force attacks.

2. Logon Banner Requirement
   **Purpose:** To display a mandatory legal and warning message to users before they log on. This banner is essential for compliance, as it provides legal notice about authorized usage and monitors user activity, which is often a requirement for regulatory standards like HIPAA.

3. Control Panel and Settings Restriction
   **Purpose:** To enhance security and maintain a standardized desktop environment by preventing users from accessing and modifying system-wide settings. This reduces the risk of misconfiguration, installation of unapproved software, and changes to security settings, ensuring a consistent and secure user experience.

4. Desktop Wallpaper and Branding requirement

    **Purpose:** To enforce a standardized corporate branding on the desktop background of all domain-joined clients. This serves dual purposes: it provides a consistent and professional appearance for the organization and offers a visual confirmation that the machine is correctly receiving and applying GPOs from the domain.
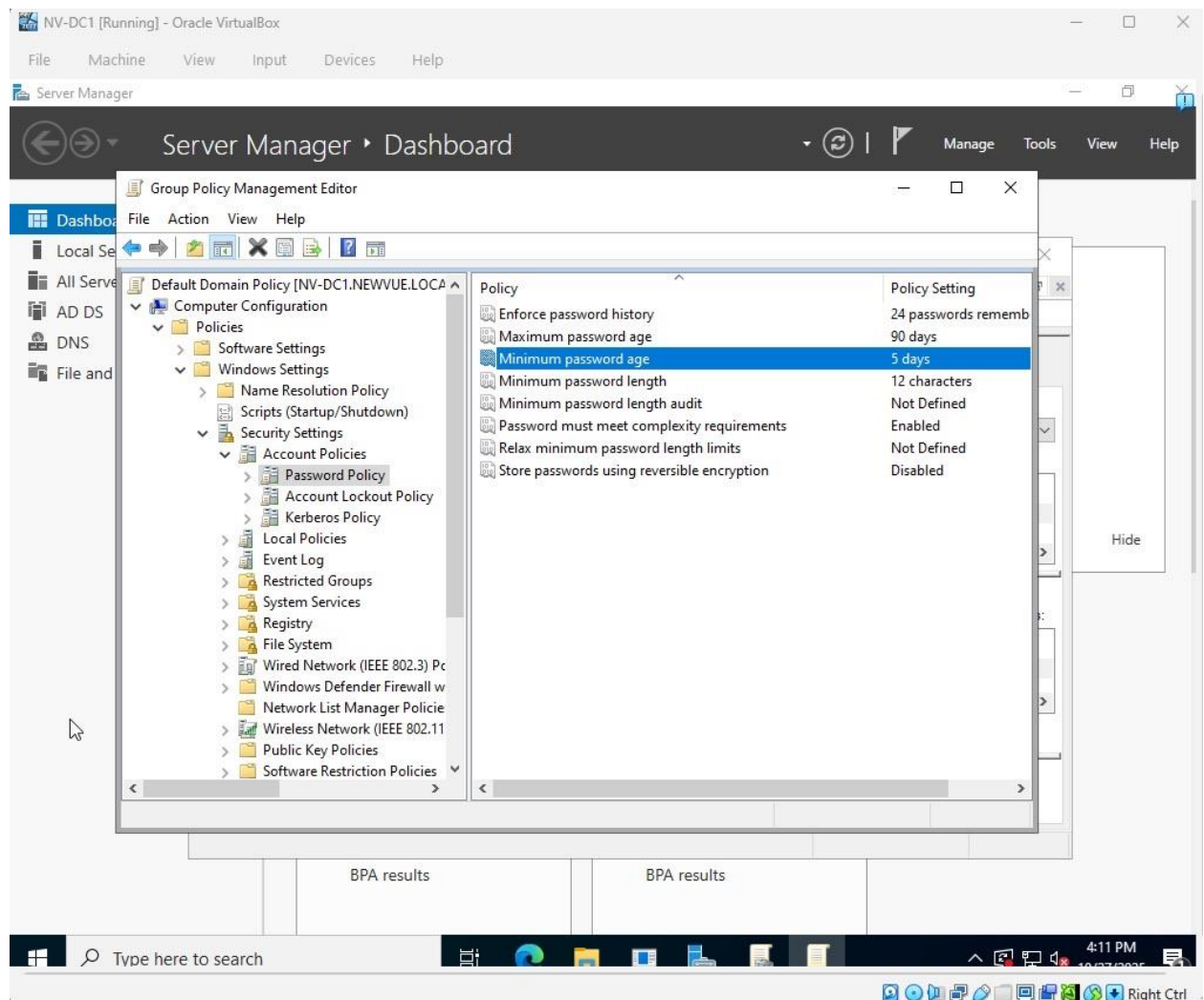
Verification was conducted on NV-CL1 through command-line and GUI-based tools to confirm that the policies replicated and applied successfully. Collectively, these configurations demonstrate how Group Policy translates **compliance and governance directives** into enforceable technical standards within an enterprise domain.
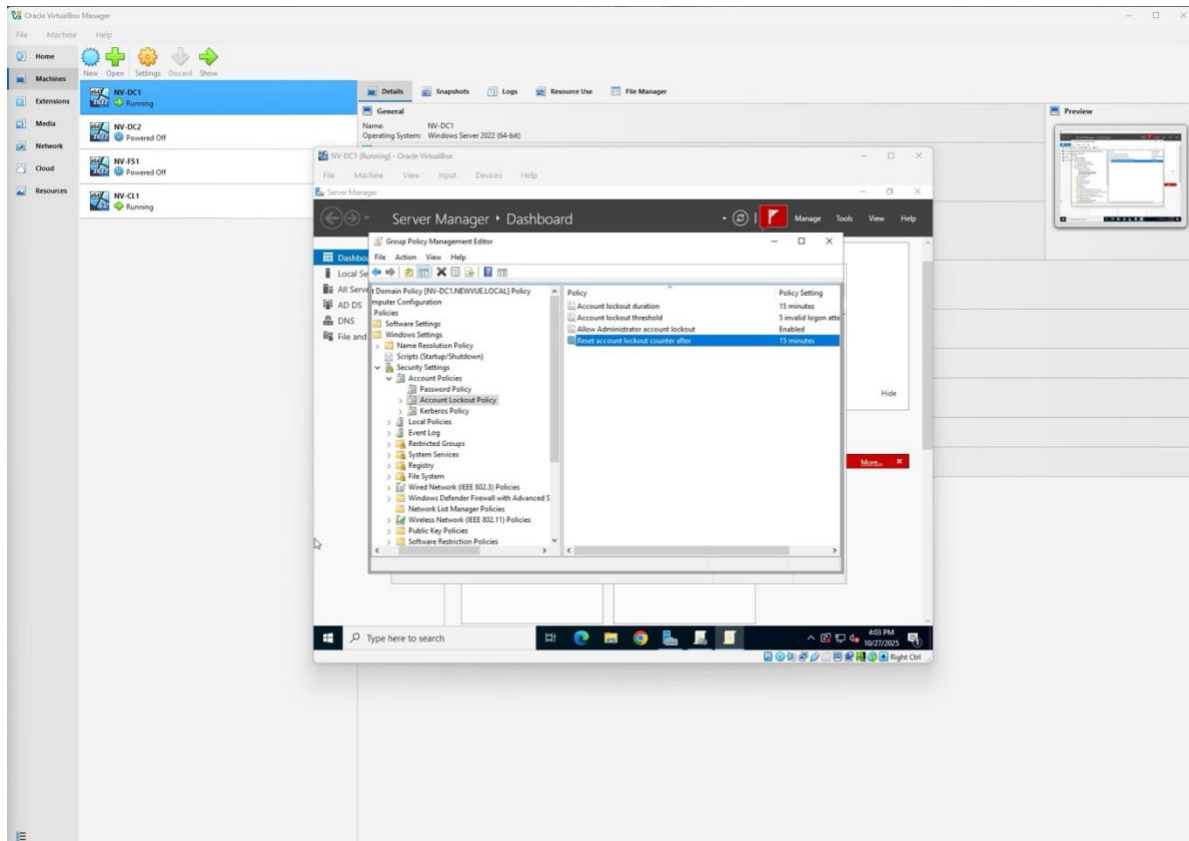
## Section 2: Task-Password and Account Lockout Policy (25 points)

This section documents the configuration of password complexity, aging, and account lockout parameters in accordance with NewVue Health's compliance requirements. The policy was created and linked at the domain level to ensure consistent enforcement for all users and computers. Verification confirmed that secure authentication standards were applied across the environment.
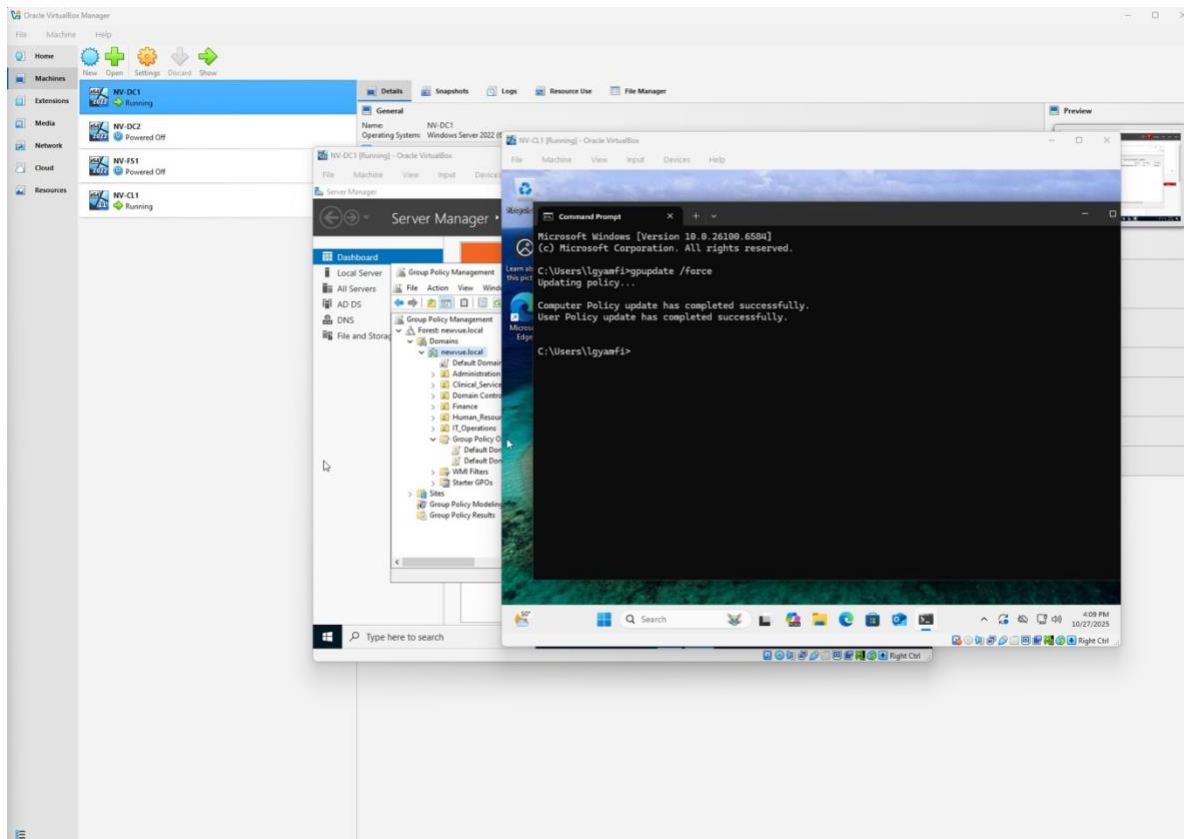
**Evidence**

- **Evidence 1:** Screenshot of configured password and lockout settings.

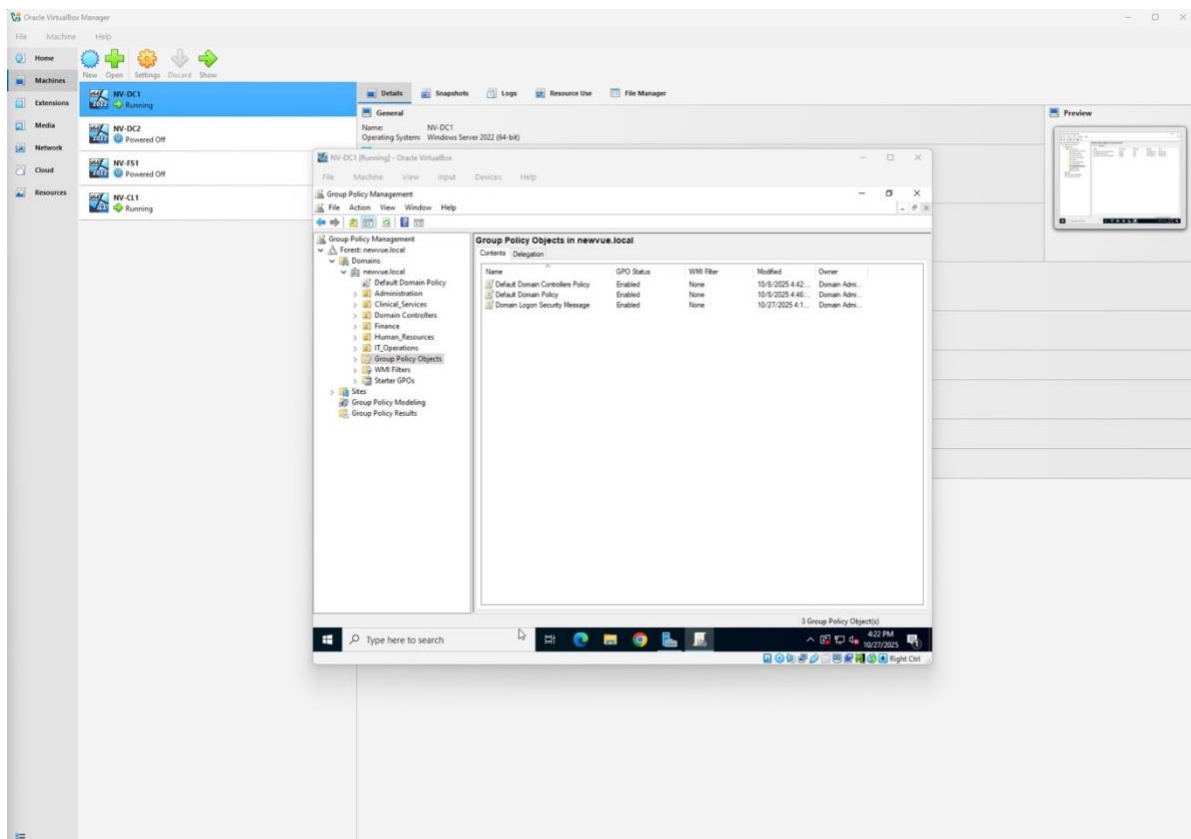- **Evidence 2:** Screenshot of gpupdate /force confirmation on NV-CL1.

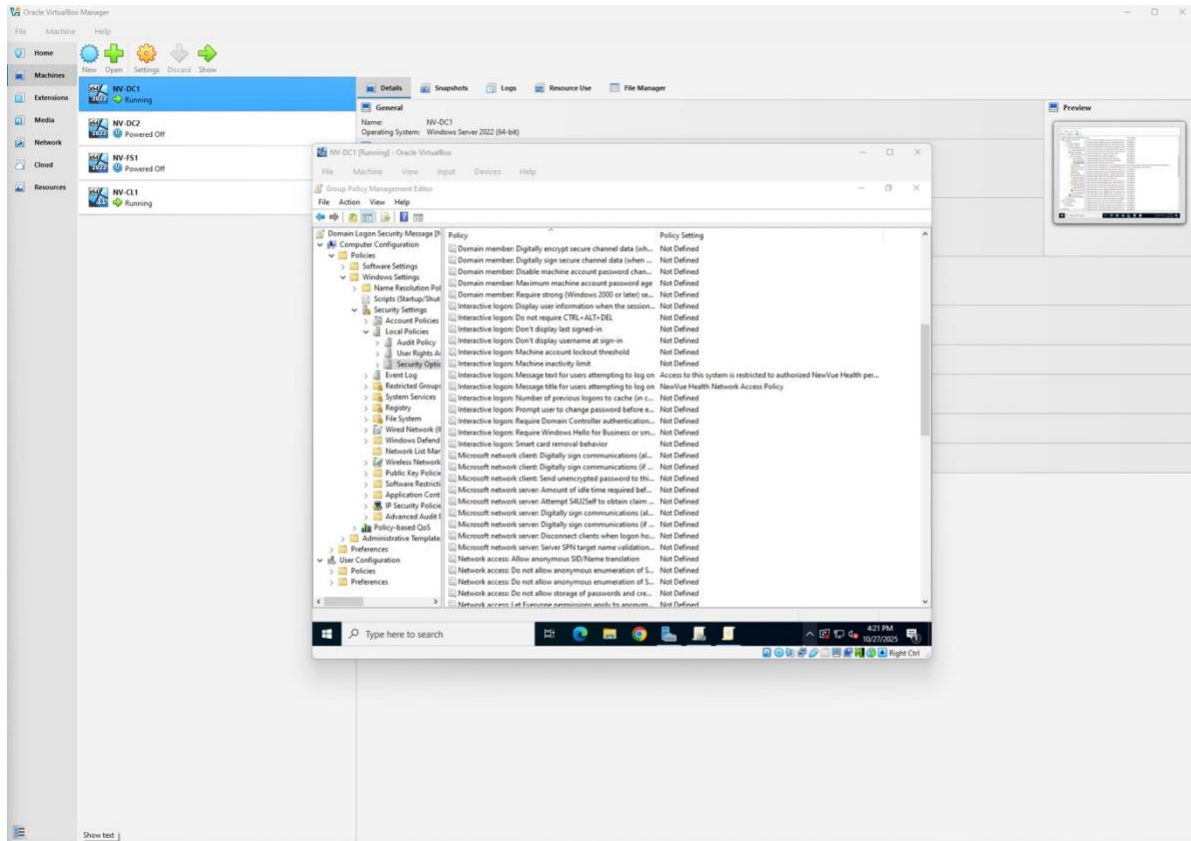# Section 3: Task — Domain Logon Security Message (25 points)

A Group Policy Object titled Domain Logon Security Message was created to display a pre-logon notice to all users connecting to the domain. This message fulfills the compliance requirement for user acknowledgment of authorized access and system monitoring. The policy was edited under Group Policy Objects, reviewed, and then linked to the domain to ensure safe deployment of a system-wide setting.
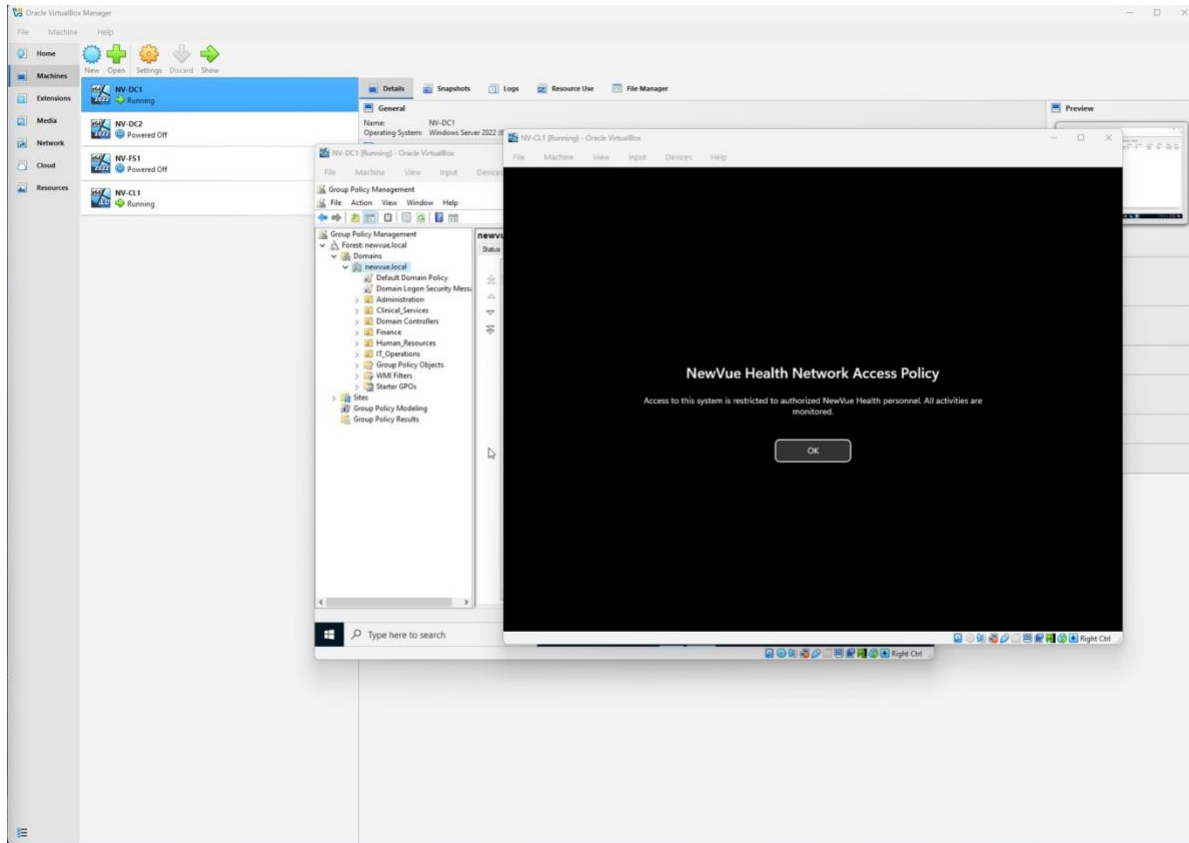
**Evidence**

- **Evidence 3:** Screenshot showing the GPO listed under Group Policy Objects prior to linking.

- **Evidence 4:** Screenshot of configured Security Options in the GPO Editor.

- **Evidence 5:** Screenshot of the logon banner displayed on NV-CL1 before sign-in.
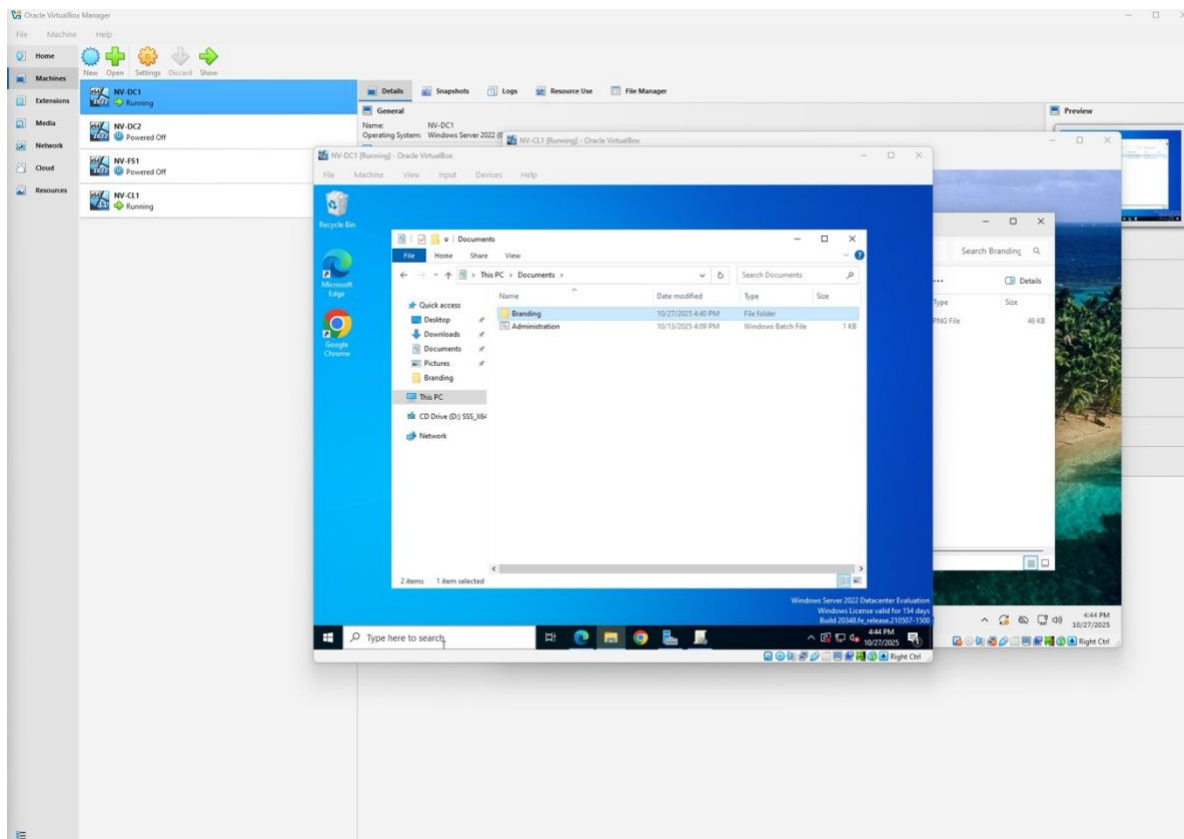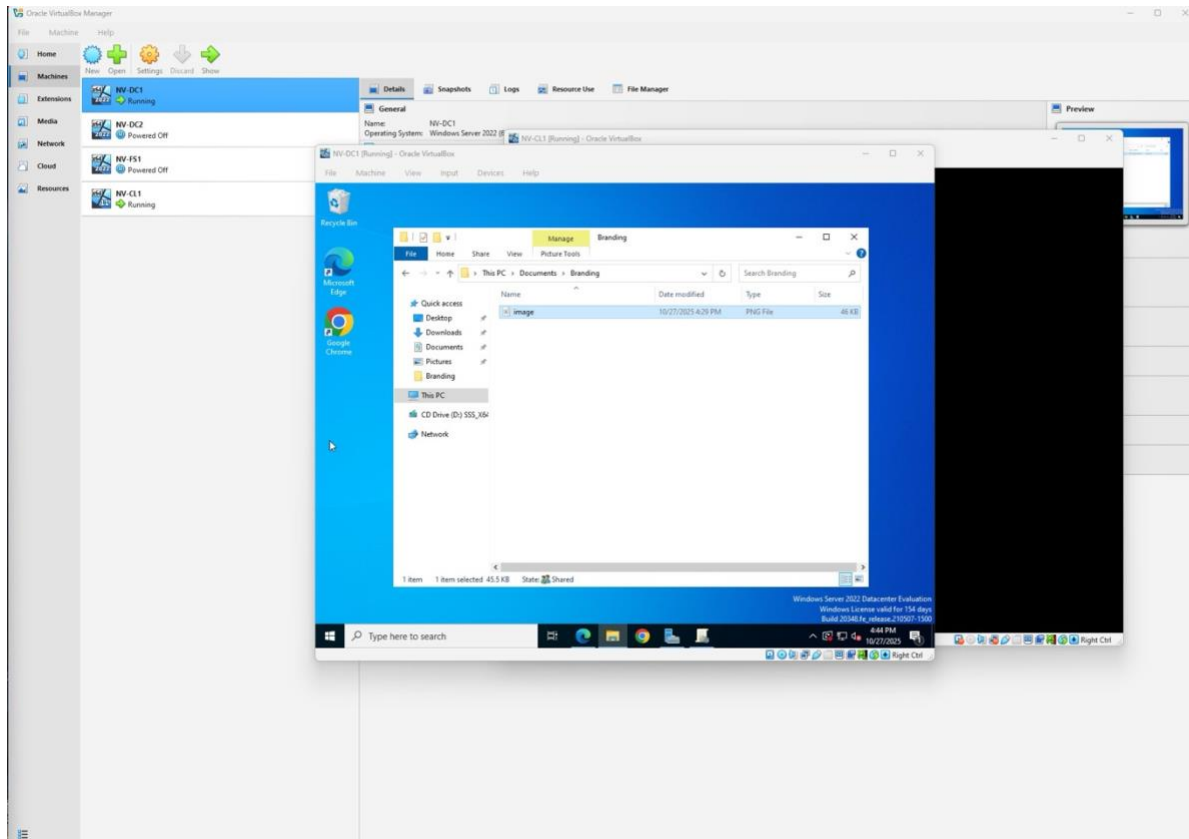
# Section 4: Task — Corporate Desktop Branding (20 points)

This section details the configuration of a centralized wallpaper policy to promote a uniform and professional desktop environment. Because file-dependent policies require accessible network resources, the wallpaper image was provisioned on NV-DC1 under a shared folder named Branding and made available to all authenticated users with read-only permissions. The policy was then linked at the domain level and verified on NV-CL1.
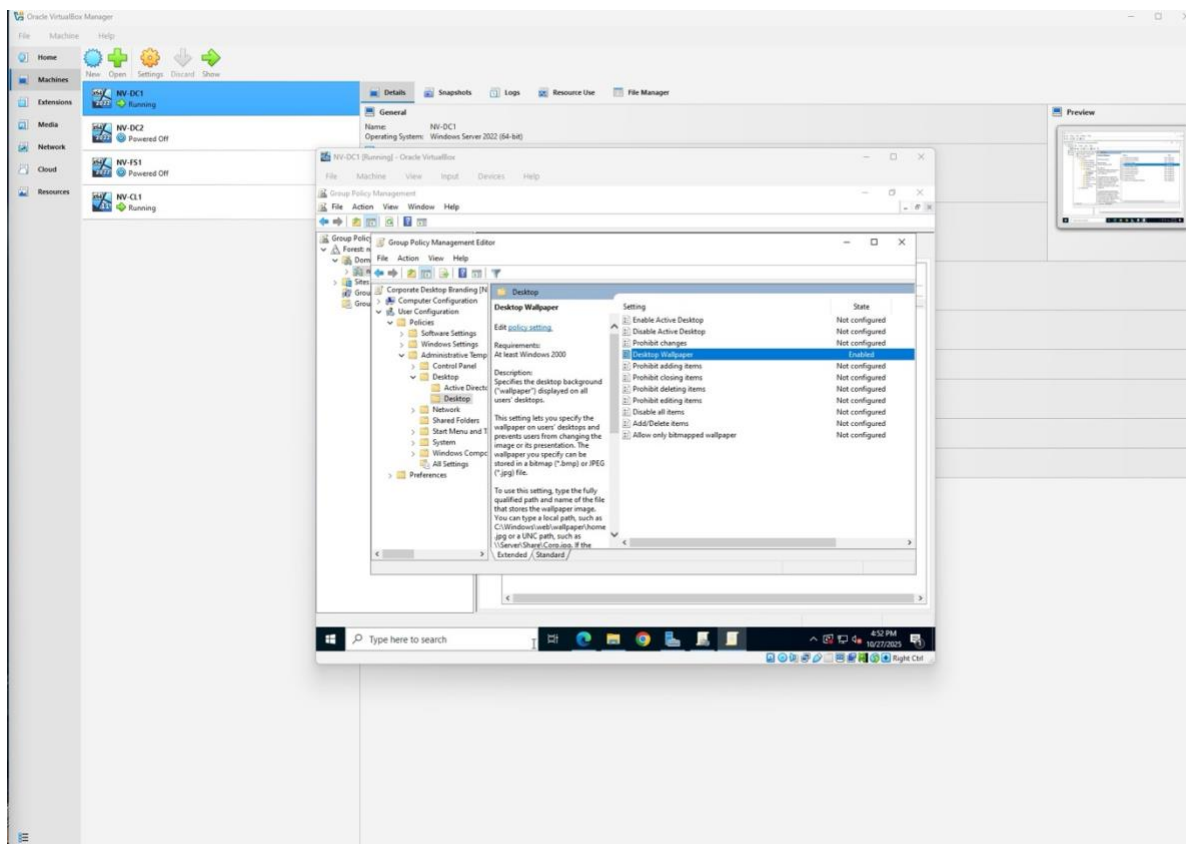
**Evidence**

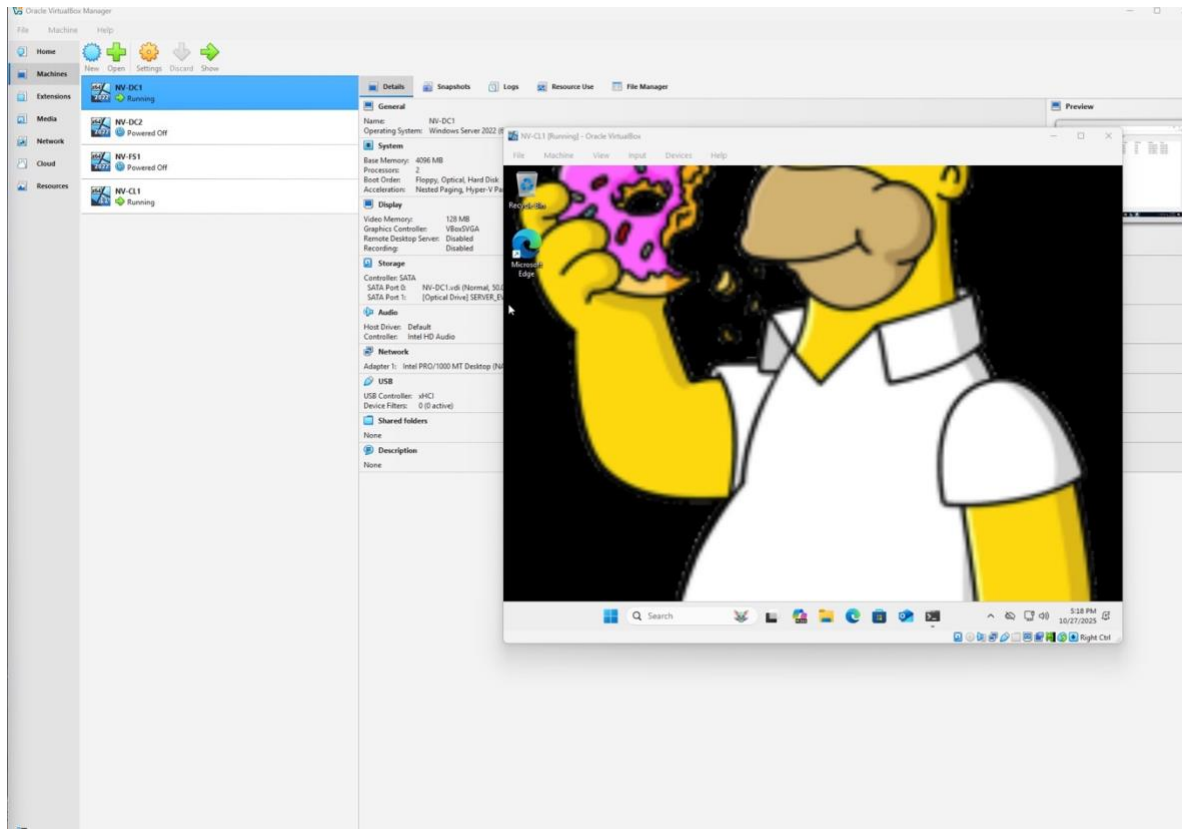- **Evidence 6:** Screenshot of the shared Branding folder and image file on NV-DC1.

- **Evidence 7:** Screenshot of Desktop Wallpaper settings in the GPO Editor.

- **Evidence 8:** Screenshot of NV-CL1 desktop showing the applied corporate wallpaper.

# Section 5 :Task - Targeted Control Panel Restriction Policy (15 points)

A targeted Group Policy was created to restrict Control Panel and Settings access for standard users within the **Administration OU**. This demonstrates selective policy deployment, ensuring restrictive settings are applied only where intended, avoiding impact on administrative or domain-wide operations. Verification confirmed that Control Panel and Settings access was blocked for users within the scoped OU.

**Evidence**

- **Evidence 9:** Screenshot of the restriction setting enabled in the GPO Editor.

- **Evidence 10:** Screenshot from NV-CL1 showing the restriction message.

# Section 6 :Task - Group Policy Verification using gpresult (5 points)

Verification was completed on NV-CL1 using the command-line utility gpresult /r.
This tool was used to confirm that all four configured GPOs were successfully processed and applied, providing conclusive proof of domain replication and policy enforcement.

**Evidence**

- **Evidence 11:** Screenshot of the gpresult /r output showing all applied Group Policy Objects.

Group Policy was applied from:        NV-DC1.newvue.local
Group Policy slow link threshold:     500 kbps
Domain Name:                          NEWVUE
Domain Type:                          Windows 2008 or later

Applied Group Policy Objects
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    Corporate Desktop Branding

The following GPOs were not applied because they were filtered out
-------------------------------------------------------------------
    Local Group Policy
        Filtering:  Not Applied (Empty)

The user is a part of the following security groups
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    Domain Users
    Everyone
    BUILTIN\Users
    BUILTIN\Administrators
    NT AUTHORITY\INTERACTIVE
    CONSOLE LOGON
    NT AUTHORITY\Authenticated Users
    This Organization
    LOCAL
    Domain Admins
    Group Policy Creator Owners
    Enterprise Admins
    Schema Admins
    Authentication authority asserted identity
    Denied RODC Password Replication Group
    High Mandatory Level

C:\Users\administrator>