Active Directory Project Report

Introduction

In this project, I walked through a series of essential Active Directory tasks, including:

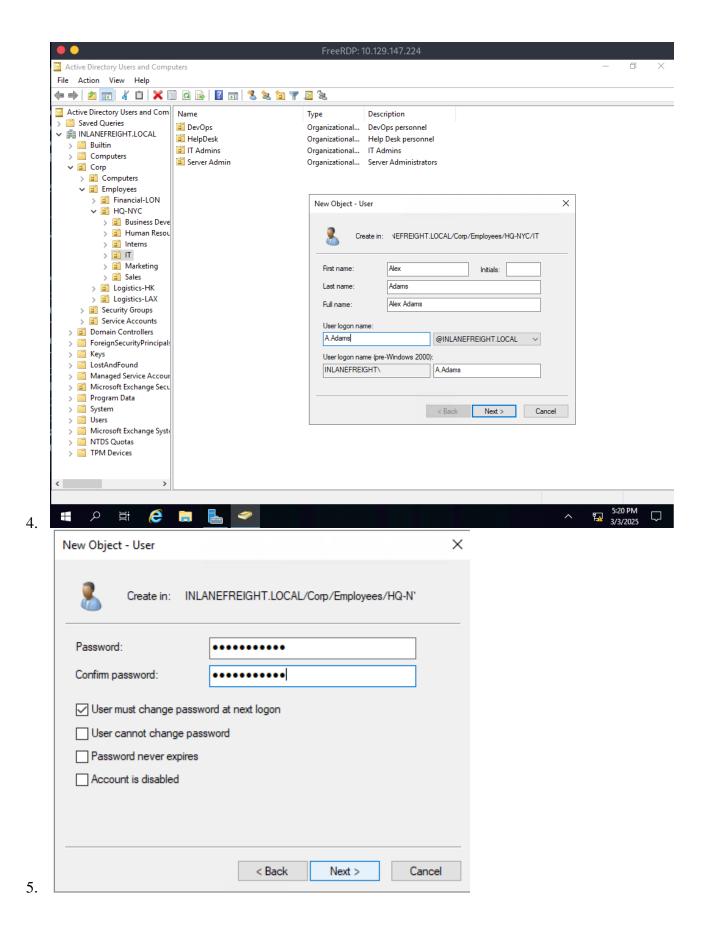
- Adding and removing users from a domain
- Unlocking user accounts
- Creating Organizational Units (OUs) and Security Groups
- Managing Group Policy Objects (GPOs)
- Joining a domain
- Moving objects within a domain

This report details each step I took to complete these tasks.

1. Adding Users to a Domain

To add a new user, Alex Adams, to the inlanefreight.local domain, I followed these steps:

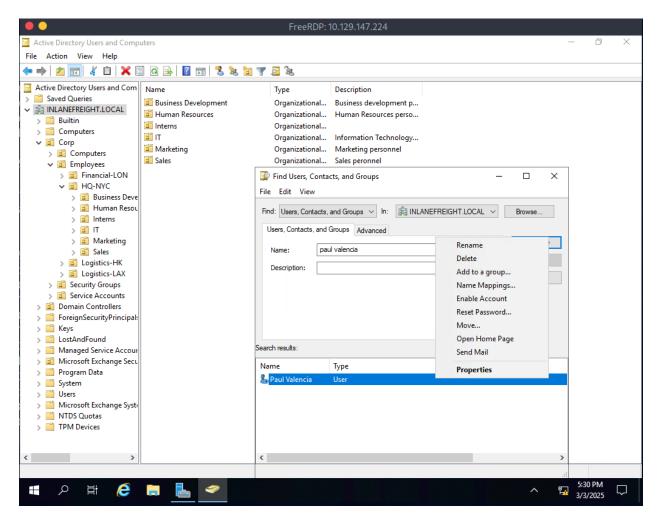
- 1. Opened the **Active Directory Users and Computers** snap-in.
- 2. Added Alex Adams to the "IT" Organizational Unit (OU).
- 3. Set it so that Alex would be required to set a password upon first login.



2. Removing Users from a Domain

To remove Paul Valencia from the inlanefreight.local domain:

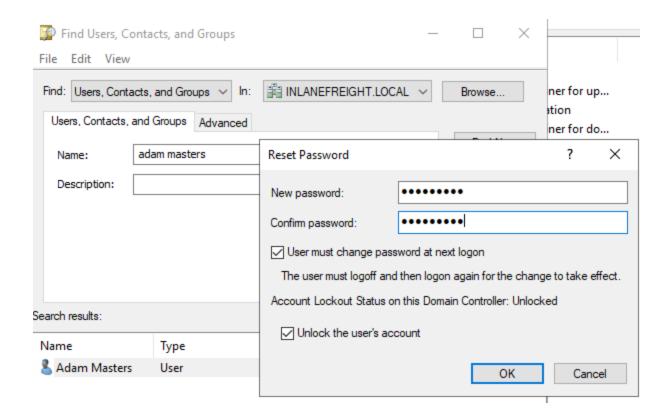
- 1. I right-clicked on the domain icon and selected **Find**.
- 2. Searched for Paul Valencia.
- 3. Right-clicked the user entry and selected **Delete**.



3. Unlocking a User's Account

To unlock Adam Masters' account:

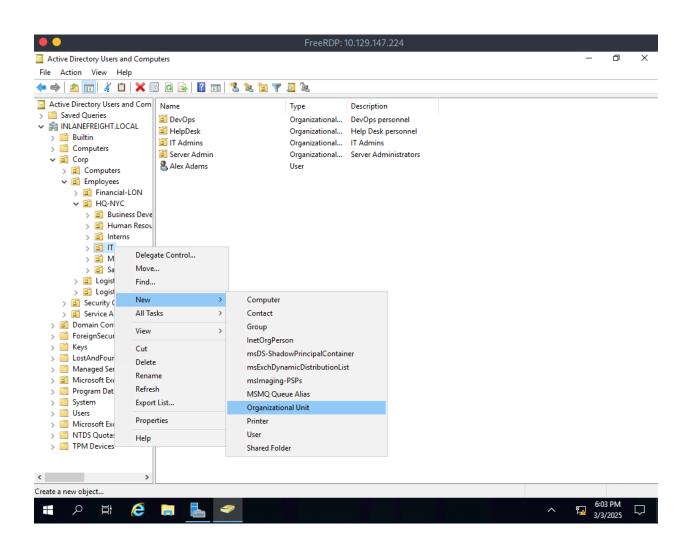
- 1. I right-clicked on the user and selected **Reset Password**.
- 2. Entered a new password.
- 3. Checked the following options:
 - Require user to reset password at next logon
 - Unlock user account

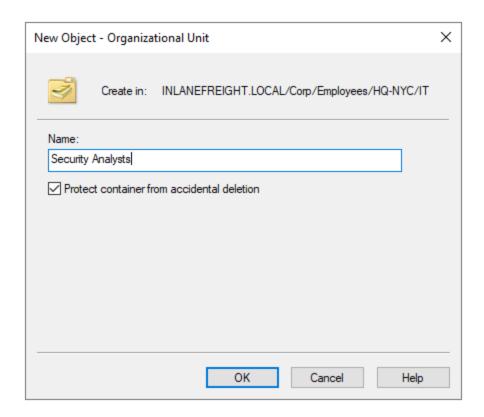


4. Creating a New Security Group and Organizational Unit (OU)

Creating an OU

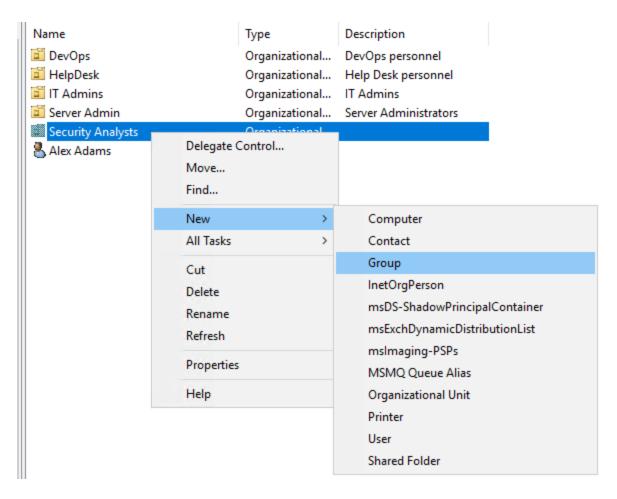
- 1. I navigated to the IT OU, right-clicked, and selected New > Organizational Unit.
- 2. Named the new OU "Security Analysts" and clicked OK.

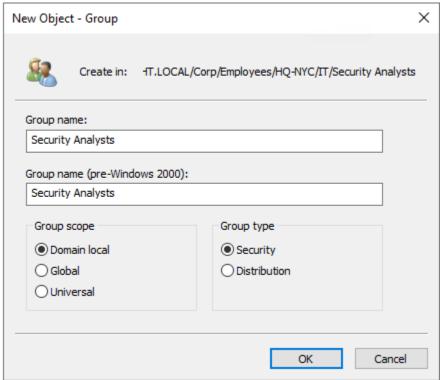




Creating a Security Group

- 1. Right-clicked on the **Security Analysts OU**.
- 2. Selected **New > Group**.
- 3. Named the group "Security Analysts".
- 4. Set Group Scope as Domain Local and Group Type to Security.
- 5. Clicked **OK**.

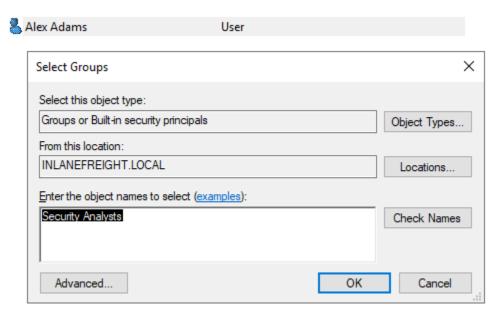


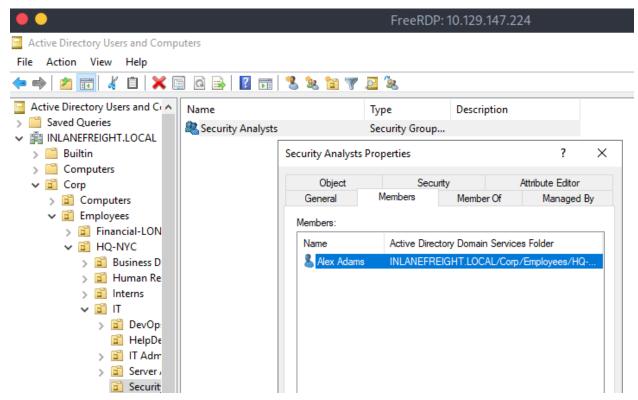


5. Adding a User to a Security Group

To add **Alex Adams** to the **Security Analysts** group:

- 1. I right-clicked on **Alex Adams** and selected **Add to a group**.
- 2. Entered "Security Analysts" and clicked OK.
- 3. Verified that Alex was successfully added to the group.

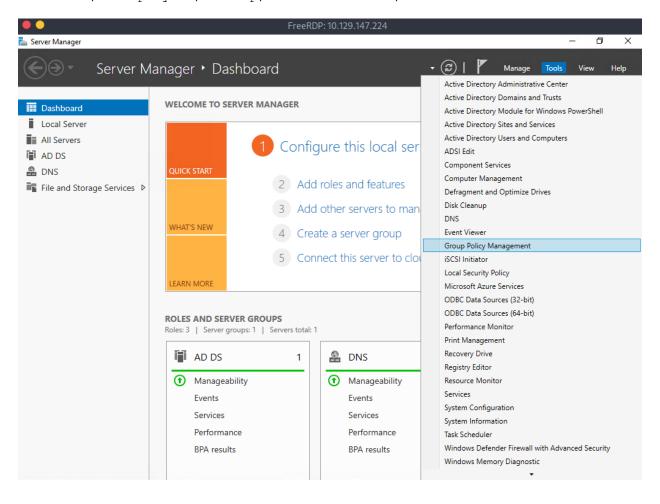




6. Managing Group Policy Objects (GPOs)

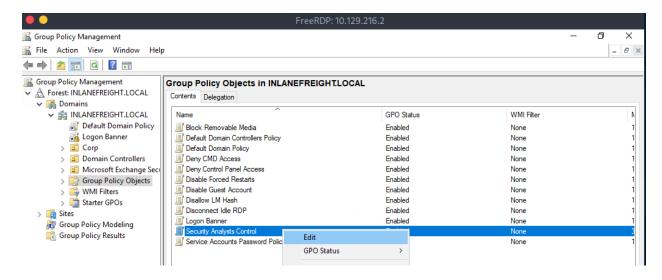
Copying and Renaming an Existing GPO

- 1. I opened **Group Policy Management** from the Server Manager tools.
- 2. Opened **PowerShell** and ran:
- 3. Copy-GPO -SourceName "Logon Banner" -TargetName "Security Analysts Control"
- 4. Linked the new GPO to the **Security Analysts OU** with:
- 5. New-GPLink -Name "Security Analysts Control" -Target "ou=Security Analysts, ou=IT, OU=HQ-NYC, OU=Employees, OU=Corp, dc=INLANEFREIGHT, dc=LOCAL" -LinkEnabled Yes

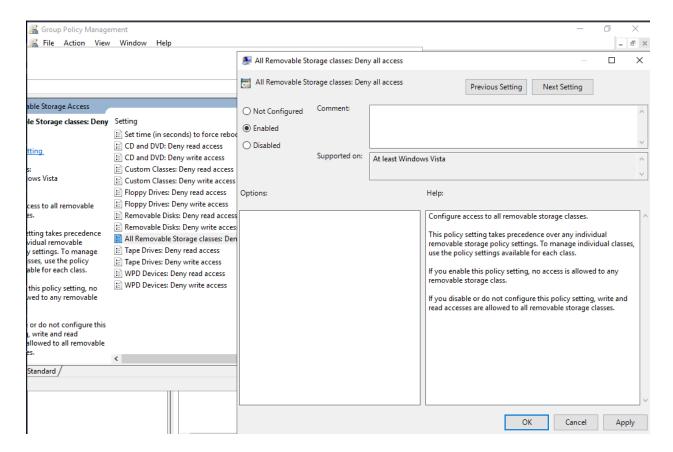


Modifying Group Policy Settings

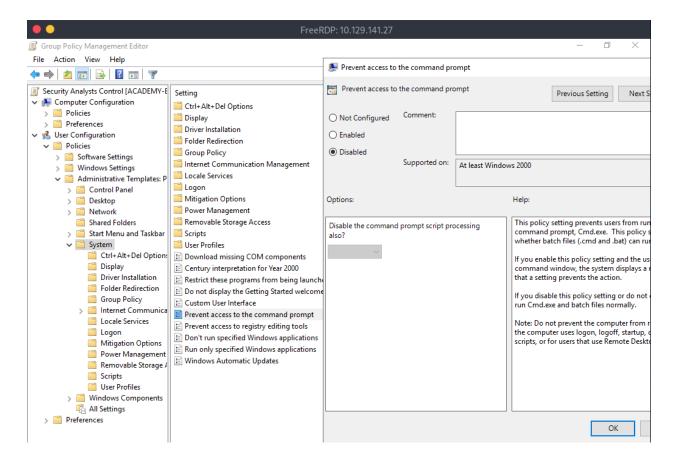
1. I opened **Group Policy Management Console (GPMC)** and right-clicked **Security Analysts Control**, selecting **Edit**.



- 2. Adjusted the following policies:
 - Blocked Removable Storage:
 - Path: User Configuration > Policies > Administrative Templates > System > Removable Storage Access
 - Set to **Enabled**.

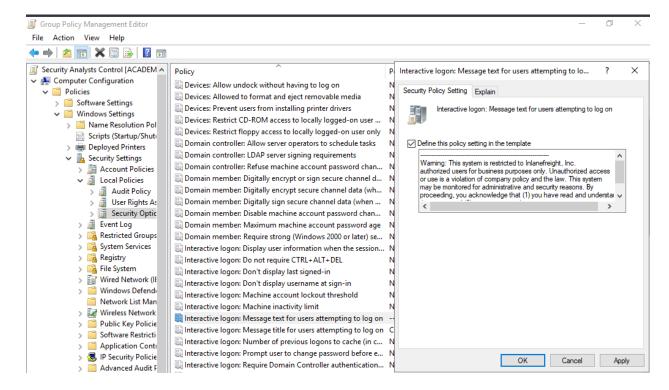


- Allowed Security Analysts Access to Command Prompts:
 - Path: User Configuration > Policies > Administrative Templates > System
 - Disabled Prevent Access to the Command Prompt.



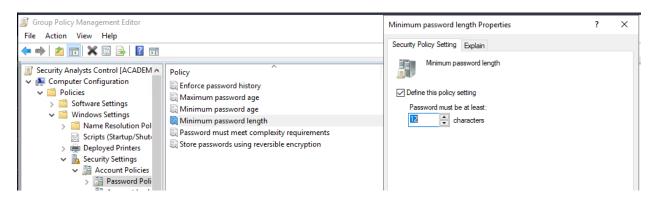
Verified Logon Banner Functionality:

- **Path:** Computer Configuration > Policies > Windows Settings > Security Settings > Local Policies > Security Options
- Checked that the **Interactive Logon Message Text** remained unchanged.



Strengthened Password Policies:

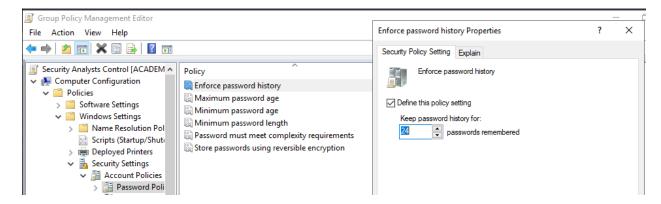
- Path: Computer Configuration > Policies > Windows Settings > Security
 Settings > Account Policies > Password Policy
- Set Minimum Password Length to 12 characters.



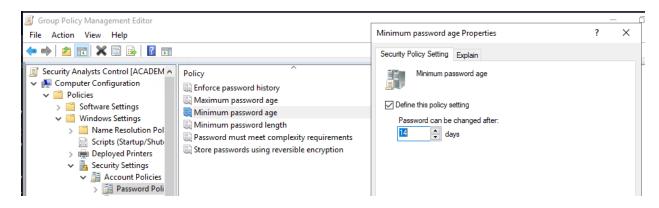
Enabled Require Complex Passwords.

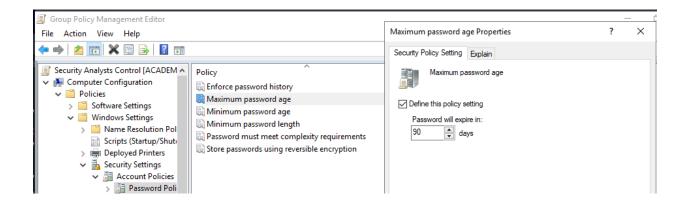


• Enabled **Enforce Password History** (set to **24**).



Set Minimum Password Age to 5 days and Maximum Password Age to 90 days.

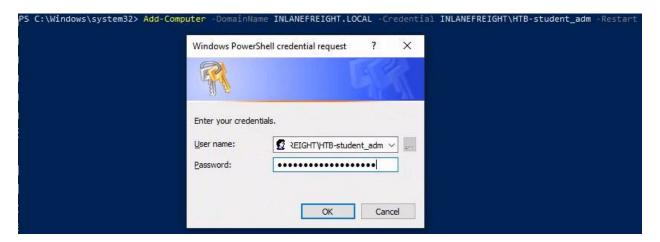




7. Adding a Computer to the Domain

To add a newly provisioned security analyst's computer to the domain:

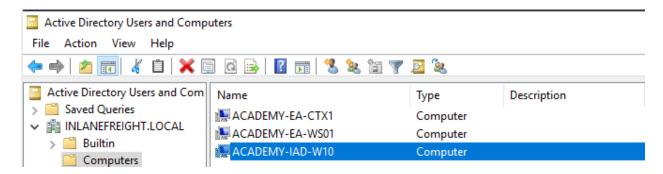
- 1. I connected to the system via xfreerdp.
- 2. Opened **PowerShell (Administrator)** and ran:
- 3. Add-Computer -DomainName INLANEFREIGHT.LOCAL -Credential INLANEFREIGHT\HTB-student adm -Restart
- 4. Entered the required credentials and executed the command.



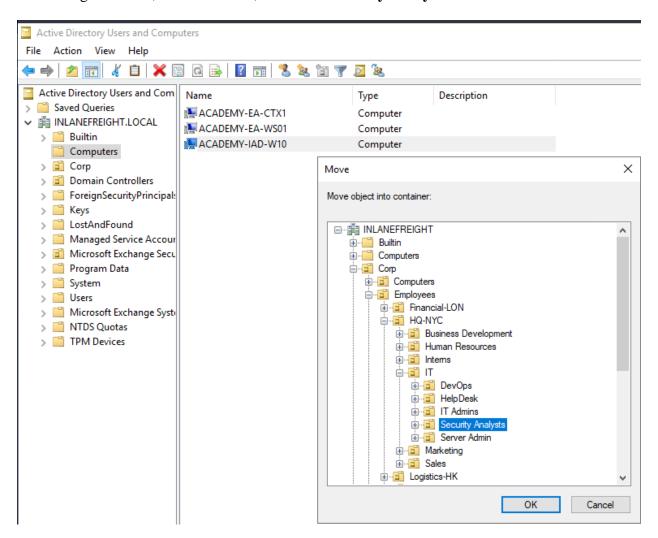
8. Moving a Computer Object to a New OU

To move the newly provisioned computer to the **Security Analysts OU**:

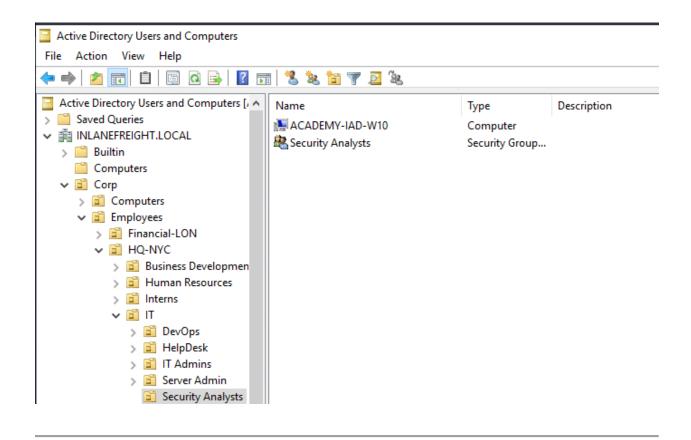
- 1. I opened Active Directory Users and Computers.
- 2. Located the computer object.



3. Right-clicked, selected Move, and chose Security Analysts OU.



4. Confirmed that the computer object was successfully moved.



Summary

This project allowed me to gain hands-on experience with essential Active Directory administration tasks. From managing users and security groups to implementing Group Policy and integrating new devices, I followed structured steps to ensure a secure and efficient domain environment.

By carefully setting up OUs, enforcing strong password policies, and managing Group Policy Objects, I reinforced best practices for security and administrative efficiency. Working through these tasks provided me with a deeper understanding of how Active Directory streamlines user and device management.