Lab 6 - Managing Computer Objects and Organizational Units

Lab Overview

This lab is designed to help you practice managing **computer objects and organizational units (OUs)** in Active Directory using **Active Directory Administrative Center (ADAC)** and **PowerShell**. You will perform tasks related to **creating, deleting, modifying, and delegating control over OUs**, as well as **managing computer objects**.

Lab Requirements

- Domain Name: **vlabsXX.com**
- Servers: **DC1XX (Windows Server 2022, Primary DC for vlabs.com)**
- Client Machine: **Windows 11 ClientX (domain-joined)**

Tasks

Task 1: Managing Computer Objects

1. Create **Workstations** OU using **ADAC.**
2. Create a computer object **PC14** in the **Workstations** OU using **ADAC**.
3. Verify the creation of this computer object using **PowerShell.**
4. Rename **PC14** to **PC14-Updated** using **PowerSehll**
5. Remove **PC14** using **PowerShell.**
6. Reset the **secure channel** for **ClientXX** using **ADAC.**
7. Test the **secure channel** for **ClientXX** using **PowerShell** *(Do this command from the Windows 11 Client)*.

Task 2: Redirecting the Computers Container

1. Verify the default **Computers container** location using **PowerShell.**
2. Redirect the default location of the **Computers container** to the **Workstations OU** using **PowerShell.**

3. Verify that the redirection was applied using **PowerShell.**

Task 3: Moving Computer Objects

1. Move **ClientXX** from **Computers container** to **Workstations OU** using **ADAC.**

2. Create an OU named **Servers** using **PowerShell.**

3. Move **SRVXX** to the **Servers** OU using **PowerShell.**

Task 4: Changing the Default Quota for Creating Computer Objects

1. Change the **Default Quota for creating Computer Objects** to **0** using **PowerShell.**

2. Verify the change using **ADSI Edit.**

Task 5: Managing Organizational Units (OUs)

1. Create **IT Department** OU under **vlabs.com** using **ADAC:**

2. Verify that **IT Department** OU has been created using **PowerShell.**

3. Add a description: **"Handles IT operations and security"** to the **IT Department** OU using **PowerShell.**

4. Rename **IT Department** to **IT Services** using **ADAC.**

5. Create **Finance** OU using **ADAC** and verify the creation using **PowerShell.**

6. Delete the **Finance** OU using **PowerShell** and verify the deletion in **PowerShell.**

Task 6: Delegating Control of an OU

1. Use the **Delegation of Control Wizard** in **AD Users and Computers** to delegate **Reset Password permissions** to **Sophie Lambert** on the **IT Services** OU.

2. Check which users or groups have been delegated control over the **IT Services** OU using **AD Users and Computers**

3. List the delegation permissions on the **IT Services** OU using **PowerShell.**

Task 7: Managing Permissions on OUs

1. Use **PowerShell** to **deny deletion of objects** inside **IT Services** OU for **Sophie Lambert.**

2. Use **PowerShell** to **grant Generic Read (GR)** permissions on **IT Services** OU to **Sophie Lambert.**

3. Use **PowerShell** to **grant write permissions for modifying the telephoneNumber** attribute for **all the users** in the **HR** OU.

4. Use **PowerShell** to **remove all permissions** for **Lucas Bernard** on the **HR** OU.

5. Check which **users** or **groups** have been delegated permission over the **HR** OU using **AD Users and Computers.**

6. Reset permissions of the **IT Services** OU to **default** using **PowerShell.**

7. Check that the permissions of the **IT Services** OU has been reset to default using **AD Users and Computers.**

Lab Deliverables

You should submit a **lab report** including **screenshots** covering your work.