6/5/2025

Lab 4

Managing User Accounts

Mohammed, Laetitia, 0931512
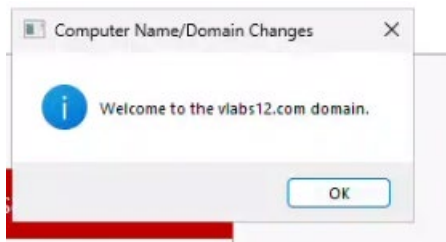NETWORK INSTALLATION AND ADMINISTRATION II
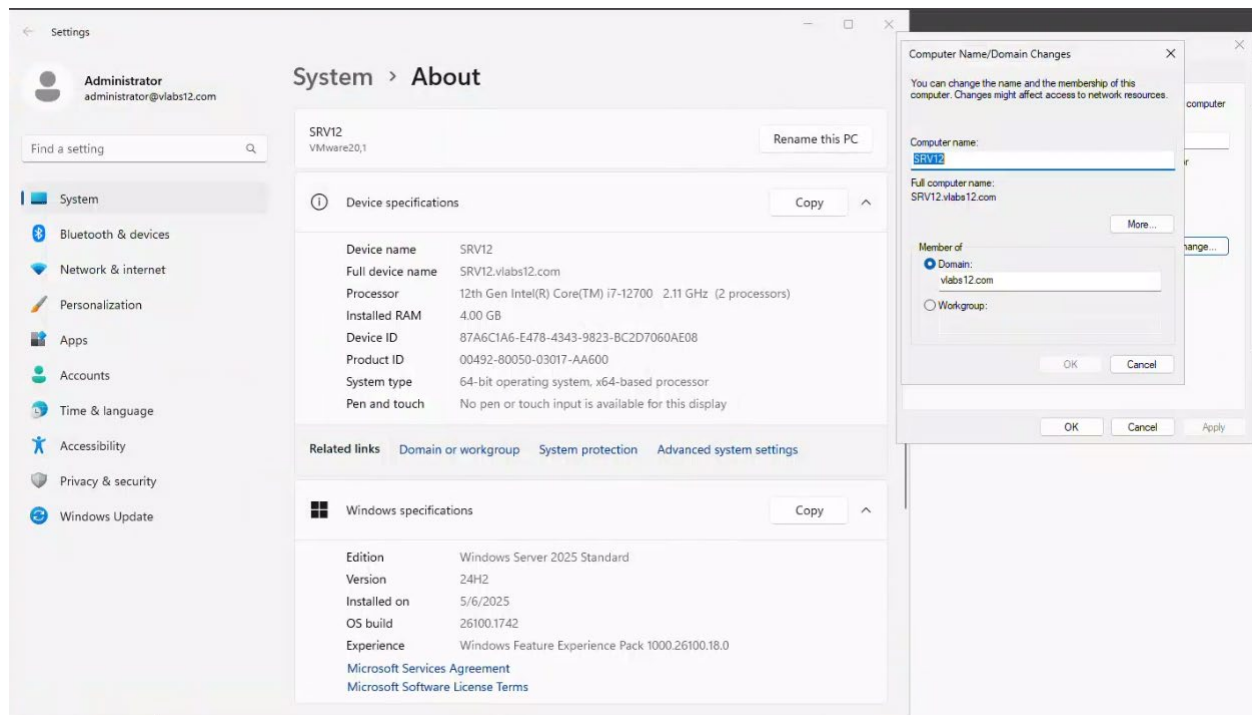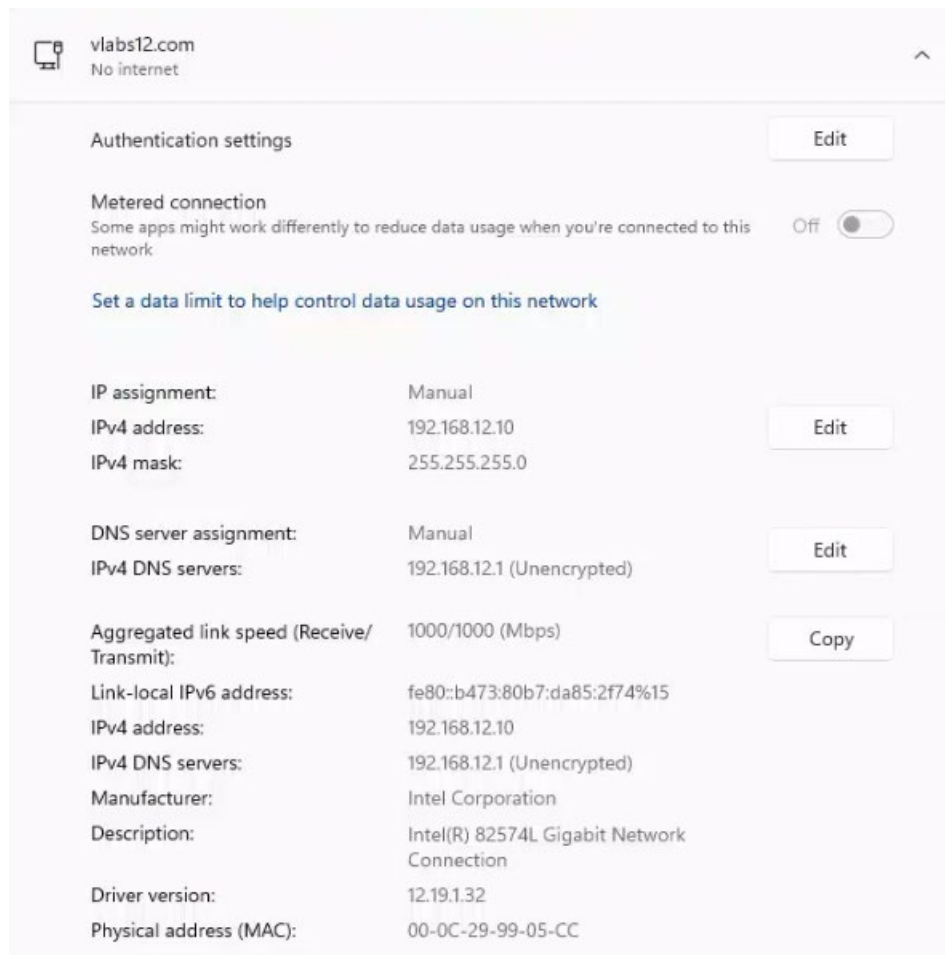
Contents

Task 1: Install a Windows File Server 2025

After installation, join the domain vlabs12.com

The IP settings have to be configured with an IP on the same network as vlabs12

vlabs12.com
No internet

Authentication settings   Edit

Metered connection
Some apps might work differently to reduce data usage when you're connected to this   Off
network

Set a data limit to help control data usage on this network

IP assignment: Manual
IPv4 address: 192.168.12.10   Edit
IPv4 mask: 255.255.255.0

DNS server assignment: Manual
                                                                           Edit
IPv4 DNS servers: 192.168.12.1 (Unencrypted)

Aggregated link speed (Receive/   1000/1000 (Mbps)
Transmit):   Copy
Link-local IPv6 address: fe80::b473:80b7:da85:2f74%15
IPv4 address: 192.168.12.10
IPv4 DNS servers: 192.168.12.1 (Unencrypted)
Manufacturer: Intel Corporation
Description: Intel(R) 82574L Gigabit Network
                           Connection
Driver version: 12.19.1.32
Physical address (MAC):   00-0C-29-99-05-CC

Confirm SRV12 is part of Computers on DC112 AD
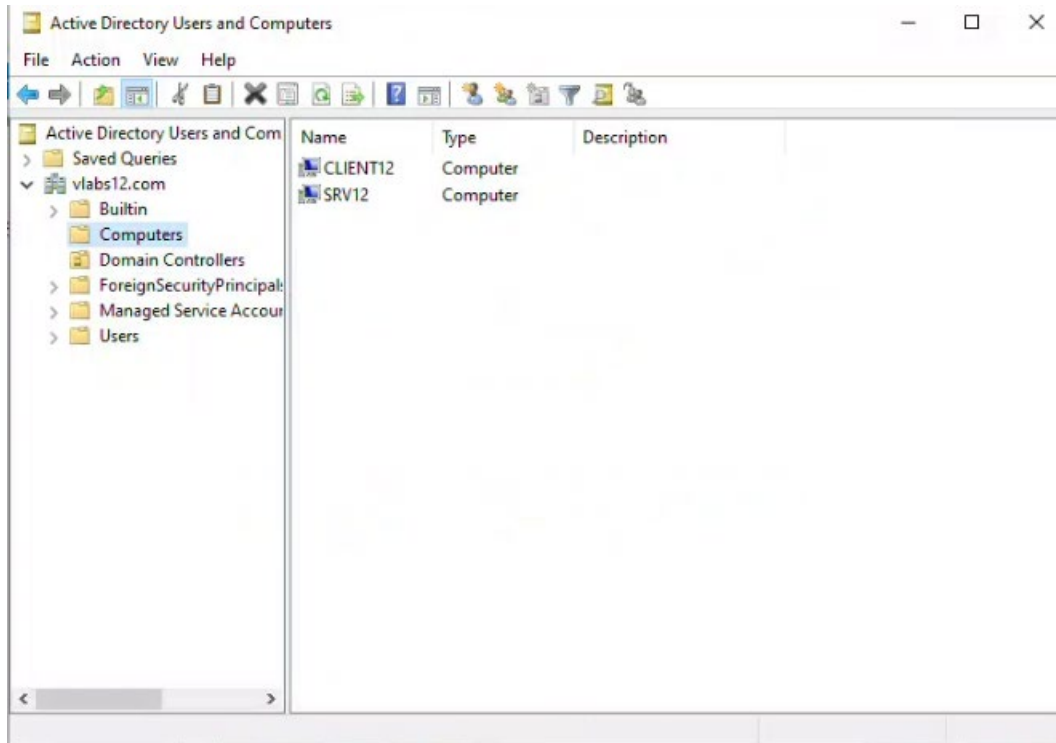
Task 2: Create Organizational Units (OUs) and Users

Create the following OUs using the Active Directory Administrative Center

HR OU and **IT OU**

Create the following users in the **HR OU** using the Active Directory Administrative Center

Sophie Lambert (s.lambert)

 Liam Dupont (l.dupont)

Emma Morel (e.morel)

Create the following users in the **IT OU** using PowerShell:

Lucas Bernard (l.bernard)

Thomas Aviles (t.aviles)

Chloe Girard (c.girard) (This user should be disabled during creation).

Create the user Sophie Lambert according to the requirements. The password option should be "User must change password at next logon" in a normal work setting due to privacy. It would ensure that the administrator doesn't have a user's password, but in our case I'm going to put all the user's passwords as "never expires". Repeat for all other users, ensuring that their UPN is their first name initial, followed by their family name @vlabs12.com

Create User: Liam Dupont

TASKS ▼   SECTIONS ▼

Account   ? ⊗ ⌄

First name:	Liam	Account expires:	● Never
Middle initials:			○ End of
Last name:	Dupont		
Full name: ✳	Liam Dupont	**Password options:** ▲
User UPN logon:	l.dupont @ vlabs12.com ▼	○ User must change password at next log on
User SamAccountName l...	vlabs12 \✳ l.dupont	● Other password options
		☐ Microsoft Passport or smart card is required for interactive log...
Password:	*********	☑ Password never expires
Confirm password:	*********	☐ User cannot change password
Create in:	OU=HR,DC=vlabs12,DC=com Change...	Encryption options: ▼
		Other options: ▼

☑ Protect from accidental deletion

Log on hours...   Log on to...

Organization   ? ⊗ ⌄

Display name:	Liam Dupont	Job title:	
Office:		Department:	
E-mail:		Company:	
Web page:		Manager:	Edit... Clear
	Other web pages...	Direct reports:	

⌃ More Information   OK   Cancel

Create User: Emma Morel

TASKS ▼   SECTIONS ▼

Account   ? ⊗ ⌄

First name:	Emma	Account expires:	● Never
Middle initials:			○ End of
Last name:	Morel		
Full name: ✳	Emma Morel	**Password options:** ▲
User UPN logon:	e.morel @ vlabs12.com ▼	○ User must change password at next log on
User SamAccountName l...	vlabs12 \✳ e.morel	● Other password options
		☐ Microsoft Passport or smart card is required for interactive log...
Password:	*********	☑ Password never expires
Confirm password:	*********	☐ User cannot change password
Create in:	OU=HR,DC=vlabs12,DC=com Change...	Encryption options: ▼
		Other options: ▼

☑ Protect from accidental deletion

Log on hours...   Log on to...

Organization   ? ⊗ ⌄

Display name:	Emma Morel	Job title:	
Office:		Department:	
E-mail:		Company:	
Web page:		Manager:	Edit... Clear
	Other web pages...	Direct reports:	

⌃ More Information   OK   Cancel

Powershell

In PowerShell, create the remaining users using this command (changing the name and the OU per user)

New-ADUser -Name "Lucas Bernard" -Path "OU=IT,DC=vlabs12,DC=com" -GivenName "Lucas" -Surname "Bernard" -UserPrincipalName "l.bernard@vlabs12.com" SamAccountName "l.bernard" -AccountPassword (ConvertTo-SecureString "Passw0rd$" - AsPlainText -Force) -Enabled $true

```
PS C:\Users\Administrator.DC112> Get-ADUser -Filter {UserPrincipalName -eq "l.bernard@vlabs12.com"}


DistinguishedName : CN=Lucas Bernard,OU=IT,DC=vlabs12,DC=com
Enabled           : True
GivenName         : Lucas
Name              : Lucas Bernard
ObjectClass       : user
ObjectGUID        : ee95857e-4238-445e-b05e-a6187b340eb0
SamAccountName    : l.bernard
SID               : S-1-5-21-1463046243-3978224867-743297864-1113
Surname           : Bernard
UserPrincipalName : l.bernard@vlabs12.com



PS C:\Users\Administrator.DC112>
```

```
PS C:\Users\Administrator.DC112> New-ADUser -Name "Thomas Aviles" -Path "OU=IT, DC=Vlabs12, DC=com" -GivenName "Thomas" -Surname "Aviles" -UserPrincipalName "t.aviles@vlabs
12.com" -SamAccountName "t.aviles" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled $true
PS C:\Users\Administrator.DC112> Get-ADUser -Filter {UserPrincipalName -eq "t.aviles@vlabs12.com"}


DistinguishedName : CN=Thomas Aviles,OU=IT,DC=vlabs12,DC=com
Enabled           : True
GivenName         : Thomas
Name              : Thomas Aviles
ObjectClass       : user
ObjectGUID        : 4c49c6bd-0867-445e-879b-26c5e3f630d2
SamAccountName    : t.aviles
SID               : S-1-5-21-1463046243-3978224867-743297864-1114
Surname           : Aviles
UserPrincipalName : t.aviles@vlabs12.com
```

Since Chloe Girard is to be disabled during creation, we just need to change the very end "-Enabled $false"

This translates to "disabled"

```
PS C:\Users\Administrator.DC112> New-ADUser -Name "Chloe Girard" -Path "OU=IT, DC=Vlabs12, DC=com" -GivenName "Chloe" -Surname "Girard" -UserPrincipalName "c.girard@vlabs12
.com" -SamAccountName "c.girard" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled $false
PS C:\Users\Administrator.DC112> Get-ADUser -Filter {UserPrincipalName -eq "c.girard@vlabs12.com"}


DistinguishedName : CN=Chloe Girard,OU=IT,DC=vlabs12,DC=com
Enabled           : False
GivenName         : Chloe
Name              : Chloe Girard
ObjectClass       : user
ObjectGUID        : 6565678e-60b9-4eec-a008-1c6bbb71e686
SamAccountName    : c.girard
SID               : S-1-5-21-1463046243-3978224867-743297864-1115
Surname           : Girard
UserPrincipalName : c.girard@vlabs12.com
```

Task 3: Delete Users

1. Delete the user account Liam Dupont using Active Directory Administrative Center

2. Delete the user account Thomas Aviles using PowerShell.

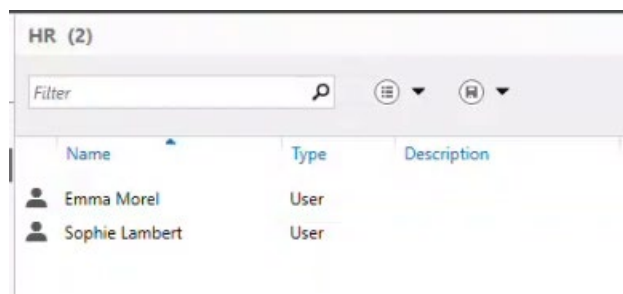First you need to make sure "Protect from accidental deletion" is not ticked.

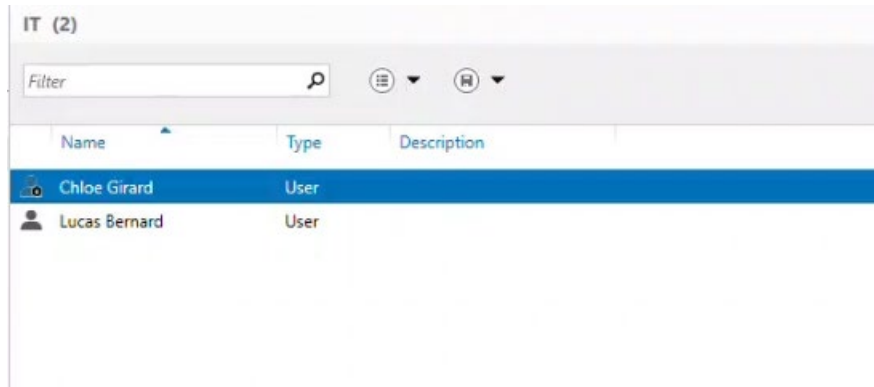Right click on Liam Dupont and select "Delete"

Verify he's deleted.

Remove Thomas Aviles using Powershell and the following command:

Remove-ADUser -Identity "CN=Thomas Aviles,OU=IT,DC=vlabs12,DC=com" - Confirm:$false

```
PS C:\Users\Administrator.DC112> Remove-ADUser -Identity "CN=Thomas Aviles,OU=IT,DC=vlabs12,DC=com" -Confirm:$false
PS C:\Users\Administrator.DC112> Get-ADUser -Filter {UserPrincipalName -eq "t.aviles@vlabs12.com"}
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
```

Confirm he's deleted. I confirmed with both Powershell and graphically.

Task 4: Move Users Between Organizational Units (OUs)

1. Move the user account Sophie Lambert to the IT OU using Active Directory Administrative Center

2. Move the user account Lucas Bernard to the HR OU using PowerShell.

First, ensure that the box "Protect from accidental deletion" is unticked, due to the fact it can cause permission issues while moving a user. Right click on the user and select "Move"

Select the OU you want to move that user to and then OK

Confirm the user has successfully been moved.

In PowerShell, use the command:

Move-ADObject -Identity "CN=Lucas Bernard,OU=IT,DC=vlabs12,DC=com" -TargetPath "OU=HR,DC=vlabs12,DC=com"

TargetPath is the destination OU. So we moved Lucas Bernard from IT to HR

HR (2)

Name	Type	Description
Emma Morel	User	
Lucas Bernard	User	

Task 5: Modify Users in IT OU

Assign the user account Sophie Lambert as Manager for all users in the IT OU using PowerShell

Start by selecting the department where Sophie is located and set her as Manager.

```
PS C:\Users\Administrator.DC112> $OUPath = "OU=IT,DC=vlabs12,DC=com"
PS C:\Users\Administrator.DC112> $Manager = "s.lambert"
```

Assign Sophie as Manager to all the users in the IT department

```
PS C:\Users\Administrator.DC112> foreach ($User in $Users) {
>>     Set-ADUser -Identity $User -Manager $Manager
>> }
```

Confirm she's the manager of the users in IT. As you can see, the only other user at the moment in IT is Chloe Girard, and Sophie Lambert is listed as her Manager.

```
PS C:\Users\Administrator.DC112> Get-ADUser -Filter * -SearchBase $OUPath -Properties Manager | Select-Object Name, @{Name="Manager";Expression={(Get-ADUser $_.Manager).Name}}

Name            Manager
----            -------
Sophie Lambert  Sophie Lambert
Chloe Girard    Sophie Lambert

PS C:\Users\Administrator.DC112>
```

Task 6: Enable and Disable User Accounts

1. Disable the user account Emma Morel using the Active Directory Administrative Center.

2. Enable the user account Chloe Girard using PowerShell.

Right-click on the user Emma Morel and click on "Disable"
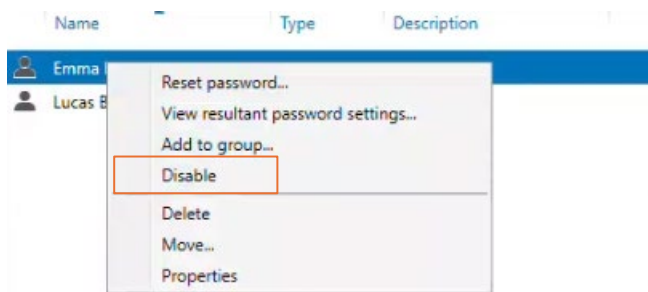
Confirm her account is disabled.
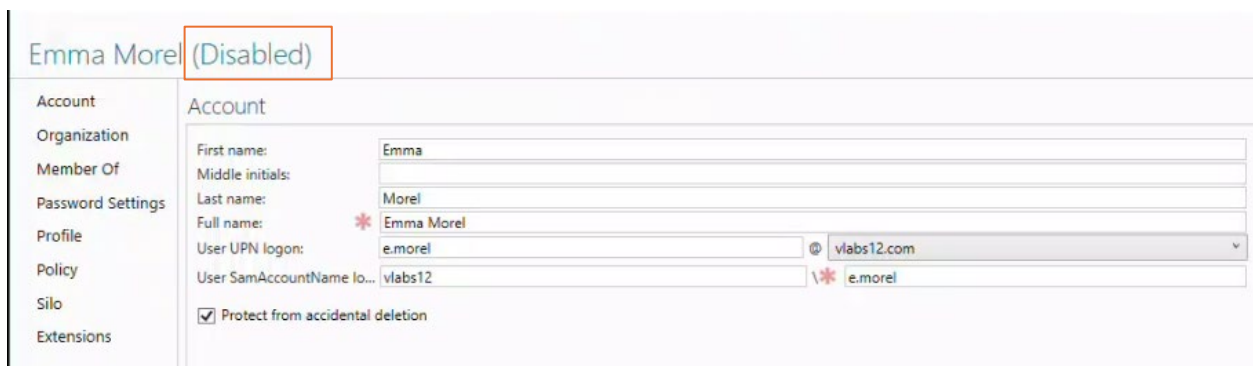
Enable Chloe Girard in PowerShell using the following:

Set-ADUser -Identity "Chloe Girard, OU=IT, DC=vlabs12, DC=com" -Enabled $true

```
PS C:\Users\Administrator.DC112> Set-ADUser -Identity "CN=Chloe Girard, OU=IT, DC=vlabs12, DC=com" -Enabled $true
PS C:\Users\Administrator.DC112> Get-ADUser -Filter {UserPrincipalName -eq "c.girard@vlabs12.com"}


DistinguishedName : CN=Chloe Girard,OU=IT,DC=vlabs12,DC=com
Enabled           : True
GivenName         : Chloe
Name              : Chloe Girard
ObjectClass       : user
ObjectGUID        : 6565678e-60b9-4eec-a008-1c6bbb71e686
SamAccountName    : c.girard
SID               : S-1-5-21-1463046243-3978224867-743297864-1115
Surname           : Girard
UserPrincipalName : c.girard@vlabs12.com


PS C:\Users\Administrator.DC112> _
```

Task 7: Lock and Unlock Users

1. Find all locked-out users using PowerShell.

 2. Try to unlock the user account Lucas Bernard using PowerShell (not actually locked, just for simulation)

This is the command to find any locked-out accounts. There are none in our case.

```
PS C:\Users\Administrator.DC112>  Search-ADAccount -LockedOut -UsersOnly | Format-Table Name,LockedOut -AutoSize
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
```

This is how you would unlock a locked account:

```
PS C:\Users\Administrator.DC112> Unlock-ADAccount -Identity "CN=Lucas Bernard,OU=HR,DC=vlabs12,DC=com"
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
```

I used "Lucas Bernard" because I had already done this task before you asked us to use Chloe!

Task 8: Configure Roaming Profiles on SRVX

1. Create a shared folder C:\Profiles on SRVXX.

2. Configure NTFS and share permissions for roaming profiles.

3. Assign a roaming profile path for Emma Morel using the Active Directory Administrative Center.

4. Assign a roaming profile path for the user account Lucas Bernard using PowerShell.

5. Log in from ClientXX and verify the profile is stored in \\SRVXX\Profiles$\%username%.

Start by creating the folder in C: drive → Profiles
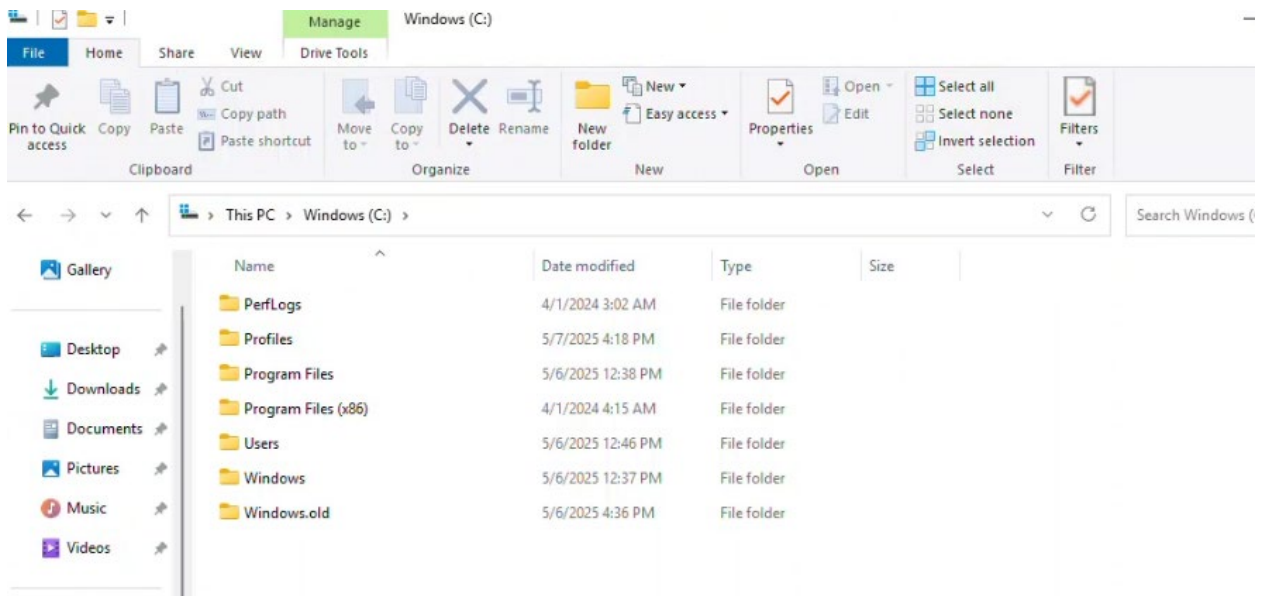
Right-click on the folder Profiles and go to Properties → Sharing →Advanced sharing. Make sure the box "Share this folder" is ticked. Set the share name to Profiles$. Click on permissions and ensure that all groups have sufficient permissions. Authenticated Users have "Full", Domain Users have "Change" and Administrators have "Full"
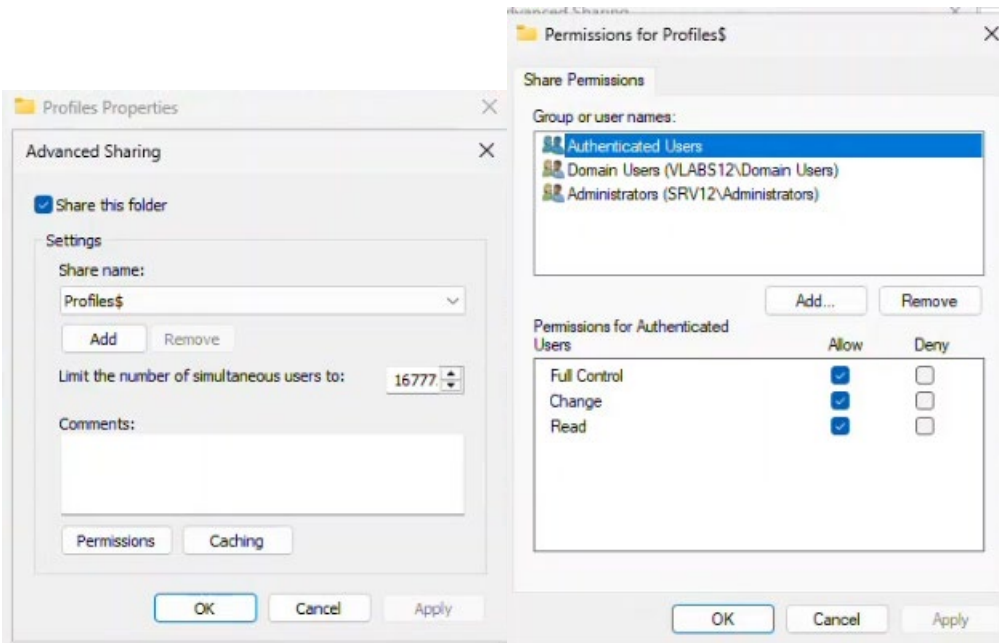
Next go to the Security tab and click on Advanced Security. Set all permissions and make sure inheritance is enabled on SYSTEM and administrator
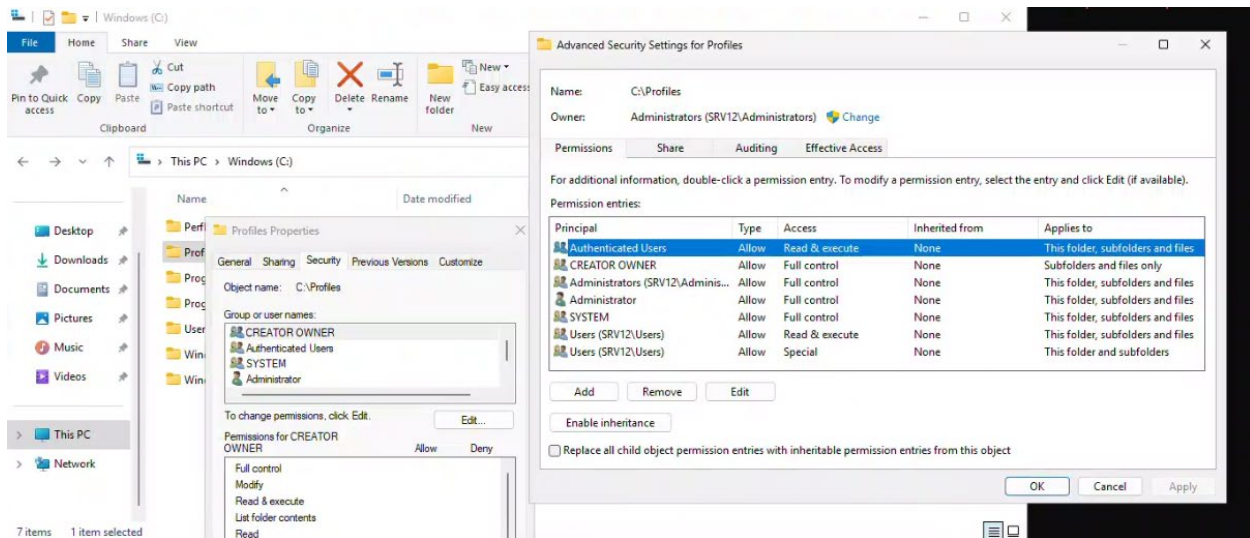
Set the path for Emma Morel as \\SRV12\Profiles$\%username%

Also, Emma Morel was disabled during a previous task. I've enabled her account for the purpose of this task.
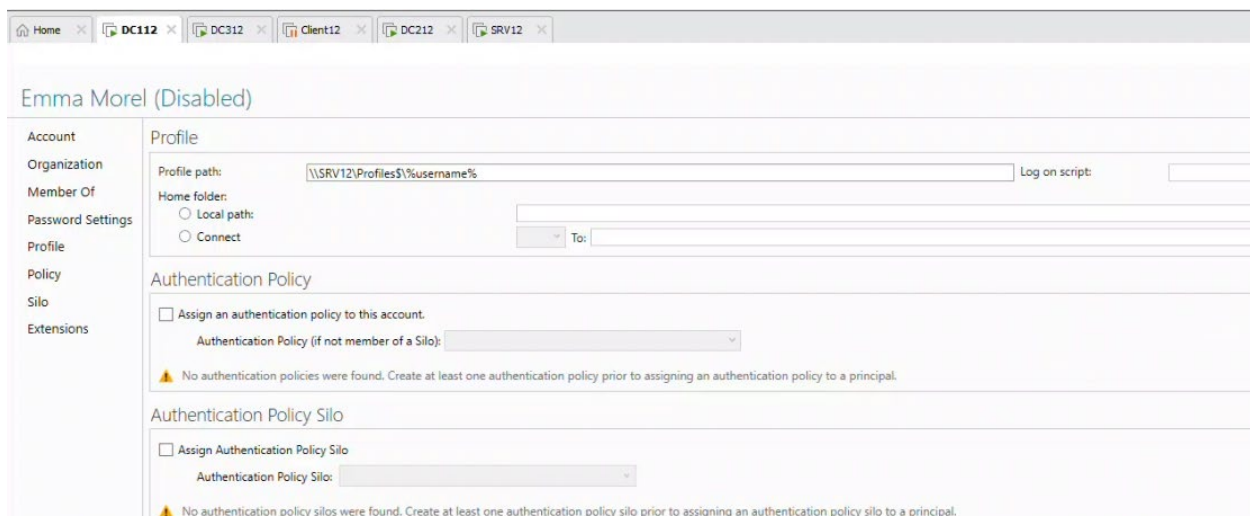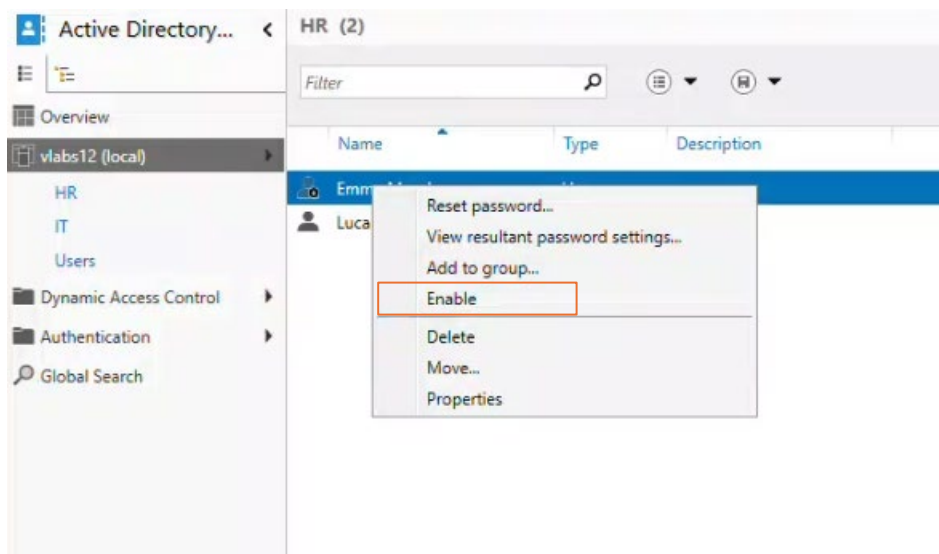
Set the path for Lucas Bernard

$samAccountName = (Get-ADUser -Filter {Name -eq "Lucas Bernard"}).SamAccountName

Set-ADUser -Identity $samAccountName -ProfilePath "\\SRV12\Profiles$\$samAccountName"

Sign in as both Emma Morel and Lucas Bernard on Client12 and open the shared folder. This will create both user's individual user profiles in the Profiles shared folder. On SRV12, open the folder and you'll see both profiles created. Try to access them. You won't have access even as an administrator.

From the File Server:
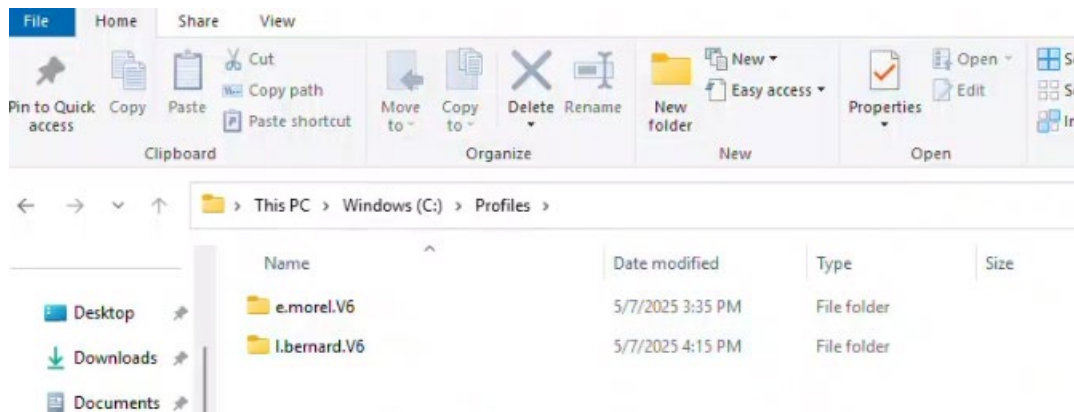
No access as administrator.
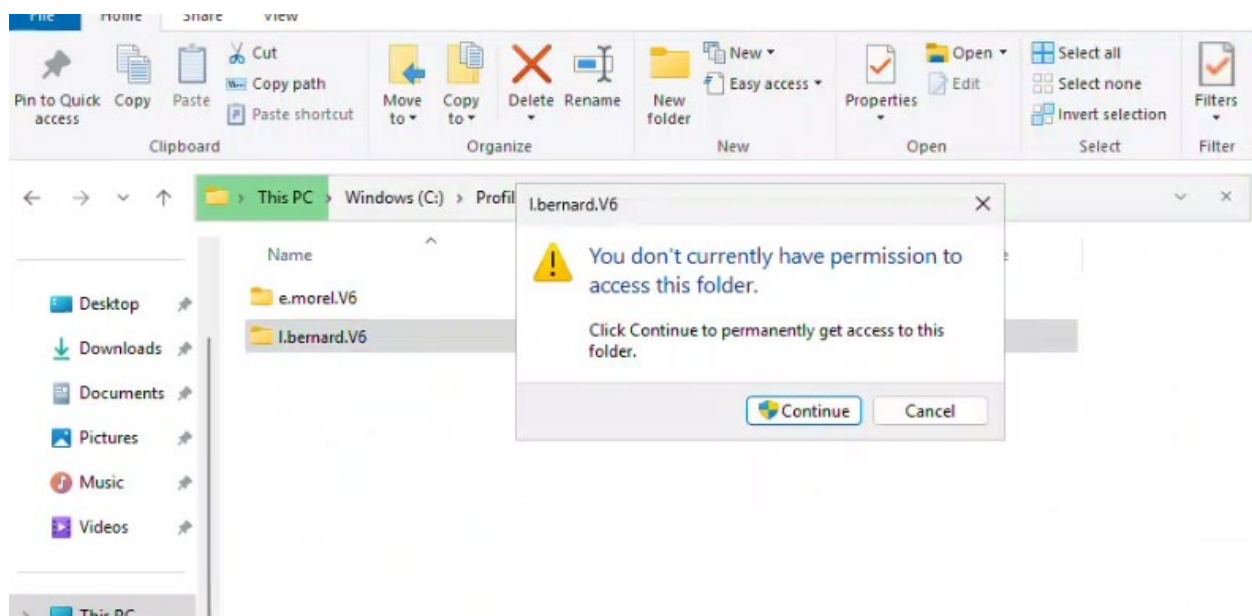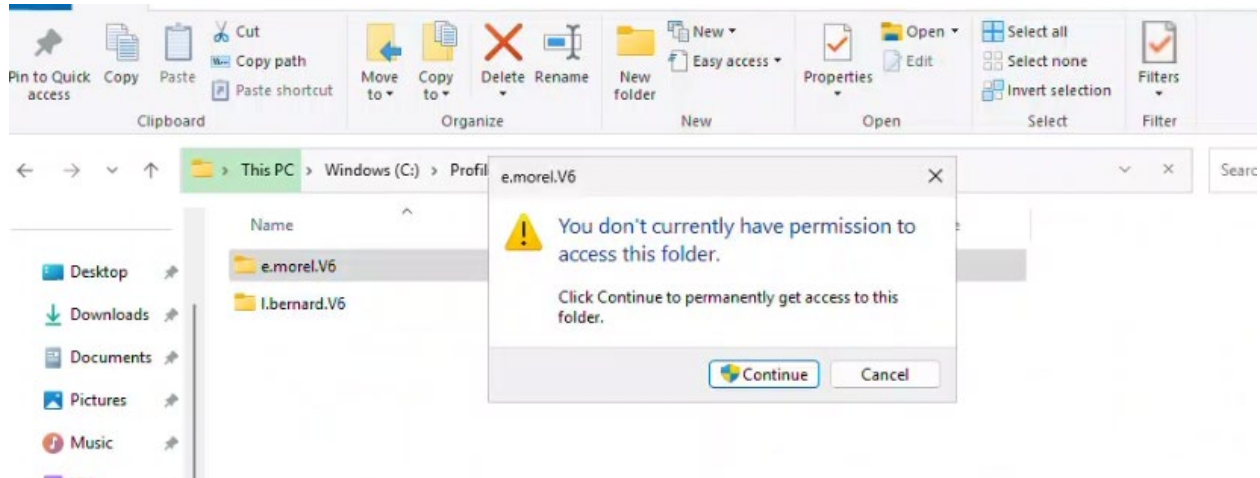
Task 9: Create a Template User for HR

Create a template user for the HR OU with the following properties:

Full Name: HR Template

sAMAccountName: hr.template

Job Title: HR Assistant

Department: HR

Email: hr.template@vlabs.com

Account Status: Disabled

Description: Template user for HR new hires.

Profile: \\SRVX\Profiles$\%username%

HR Template (Disabled)

TASKS ▼ SECTIONS

Account

Account							

First name: HR
Middle initials:
Last name: Template
Full name: HR Template
User UPN logon: hr.template @ vlabs12.com
User SamAccountName lo... vlabs12 \ hr.template

☐ Protect from accidental deletion

Account expires: ⦿ Never ○ End of

Password options:
⦿ User must change password at next log on
○ Other password options
  ☐ Microsoft Passport or smart card is required for interactive log on
  ☐ Password never expires
  ☐ User cannot change password
Encryption options:
Other options:

Log on hours... Log on to...

Organization

Display name: HR Template
Office:
E-mail: hr.template@vlabs12.com
Web page:

Other web pages...

Phone numbers:
Main:
Home:
Mobile:
Fax:
Pager:
IP Phone:

Other phone numbers...

Description:
Template user for HR new hires.

Job title: HR Assistant
Department: HR
Company:
Manager: Edit...
Direct reports: Add / Rem

Address:
Street
City State/Province Zip/Postal code
Country/Region:

HR Template (Disabled)

Profile

Account
Organization
Member Of
Password Settings
Profile
Policy
Silo
Extensions

Profile path: \\SRV12\Profiles$\%username% Log on script:
Home folder:
  ○ Local path:
  ○ Connect To:

Authentication Policy

☐ Assign an authentication policy to this account.
  Authentication Policy (if not member of a Silo):

⚠ No authentication policies were found. Create at least one authentication policy prior to assigning an authentication policy to a principal.

📊 Overview
▢ vlabs12 (local) ►
   HR
   IT
   Users
📁 Dynamic Access Control ►
📁 Authentication ►
🔍 Global Search

Name	Type	Description
Emma Morel	User	
HR Template	User	Template user for HR new...
Lucas Bernard	User	

Task 10: Verify New Users from DC2XX (RODC Core Server)

Use PowerShell on DC2XX to verify the newly created users exist and are replicated correctly in the RODC.

Ensure the users from HR and IT OUs are visible.

Confirm that disabled or deleted users are reflected on DC2XX.

Verify the newly created users:


```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Name -eq "Emma Morel"} | Select-Object Name, SamAccountName, DistinguishedName

Name         SamAccountName DistinguishedName
----         -------------- -----------------
Emma Morel   e.morel        CN=Emma Morel,OU=HR,DC=vlabs12,DC=com


PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Name -eq "Chloe Girard"} | Select-Object Name, SamAccountName, DistinguishedName

Name          SamAccountName DistinguishedName
----          -------------- -----------------
Chloe Girard  c.girard       CN=Chloe Girard,OU=IT,DC=vlabs12,DC=com


PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Name -eq "Lucas Bernard"} | Select-Object Name, SamAccountName, DistinguishedName

Name           SamAccountName DistinguishedName
----           -------------- -----------------
Lucas Bernard  l.bernard      CN=Lucas Bernard,OU=HR,DC=vlabs12,DC=com


PS C:\Users\Administrator.VLABS12.000> _
```



```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Name -eq "Sophie Lambert"} | Select-Object Name, SamAccountName, DistinguishedName

Name            SamAccountName DistinguishedName
----            -------------- -----------------
Sophie Lambert  s.lambert      CN=Sophie Lambert,OU=IT,DC=vlabs12,DC=com


PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Name -eq "HR Template"} | Select-Object Name, SamAccountName, DistinguishedName

Name         SamAccountName DistinguishedName
----         -------------- -----------------
HR Template  hr.template    CN=HR Template,OU=HR,DC=vlabs12,DC=com
```

Ensure the users from HR and IT OUs are visible.

HR:

```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter * -SearchBase "OU=HR,DC=vlabs12,DC=com" | Select-Object Name, SamAccountName, DistinguishedName

Name            SamAccountName DistinguishedName
----            -------------- -----------------
Emma Morel      e.morel        CN=Emma Morel,OU=HR,DC=vlabs12,DC=com
Lucas Bernard   l.bernard      CN=Lucas Bernard,OU=HR,DC=vlabs12,DC=com
HR Template     hr.template    CN=HR Template,OU=HR,DC=vlabs12,DC=com


PS C:\Users\Administrator.VLABS12.000>
```

IT:

```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs12,DC=com" | Select-Object Name, SamAccountName, DistinguishedName

Name            SamAccountName DistinguishedName
----            -------------- -----------------
Sophie Lambert  s.lambert      CN=Sophie Lambert,OU=IT,DC=vlabs12,DC=com
Chloe Girard    c.girard       CN=Chloe Girard,OU=IT,DC=vlabs12,DC=com
```

Disabled Users: (I disabled Chloe Girard again)

```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Enabled -eq $false} -SearchBase "OU=HR,DC=vlabs12,DC=com" | Select-Object Name, SamAccountName, DistinguishedName
, Enabled

Name          SamAccountName DistinguishedName                         Enabled
----          -------------- -----------------                         -------
HR Template   hr.template    CN=HR Template,OU=HR,DC=vlabs12,DC=com     False


PS C:\Users\Administrator.VLABS12.000>
PS C:\Users\Administrator.VLABS12.000>
```

```
PS C:\Users\Administrator.VLABS12.000> Get-ADUser -Filter {Enabled -eq $false} -SearchBase "OU=IT,DC=vlabs12,DC=com" | Select-Object Name, SamAccountName, DistinguishedNam
, Enabled

Name          SamAccountName DistinguishedName                        Enabled
----          -------------- -----------------                        -------
Chloe Girard  c.girard       CN=Chloe Girard,OU=IT,DC=vlabs12,DC=com   False


PS C:\Users\Administrator.VLABS12.000>
PS C:\Users\Administrator.VLABS12.000>
```

Deleted Users:

Since I didn't have recycle bin enabled, the users were permanently deleted and don't show.

```
PS C:\Users\Administrator.VLABS12.000> Get-ADObject -Filter {isDeleted -eq $true -and ObjectClass -eq "user"} -SearchBase "OU=IT,DC=vlabs12,DC=com" -IncludeDeletedObjects
 Select-Object Name, DistinguishedName, whenChanged
PS C:\Users\Administrator.VLABS12.000> Get-ADObject -Filter {isDeleted -eq $true -and ObjectClass -eq "user"} -SearchBase "OU=HR,DC=vlabs12,DC=com" -IncludeDeletedObjects
 Select-Object Name, DistinguishedName, whenChanged
PS C:\Users\Administrator.VLABS12.000>
PS C:\Users\Administrator.VLABS12.000>
PS C:\Users\Administrator.VLABS12.000>
```