



This lab is designed to provide hands-on experience in managing user accounts within Active Directory. Utilizing tools such as Active Directory Administrative Center, Active Directory Users and Computers, and PowerShell, participants will gain practical skills in user account management. The lab aims to enhance understanding and proficiency in these essential administrative tasks, ensuring that users can effectively manage and maintain Active Directory environments.

Lab 4 - Managing User Accounts

420-636-AB-Network Installation
and Administration II

Teacher: Antoine Tohme
Student: Monica Perez Mata
Student id : 2498056

Table of Contents

1	Lab 4 - Managing User Accounts.....	3
1.1	Objective.....	3
1.2	Lab Requirements	3
2	Task 1: Install a Windows File Server 2025	4
2.1	Create new VM.....	4
2.2	Windows Install	13
2.3	Set IP address	14
2.4	Join this server to the vlabs1.com domain	15
2.4.1	Login with the domain administrator to test it.....	18
3	Task 2: Create Organizational Units (OUs) and Users	21
3.1	Create OUs using the Active Directory Administrative Center.....	21
3.2	Create Users in HR OU Using ADAC	23
3.3	Create Users in IT OU Using PowerShell.....	26
3.3.1	Verify users were created	27
4	Task 3: Delete Users.....	30
4.1	Delete user account using Active Directory Administrative Center	30
4.2	Delete user account using PowerShell	33
5	Task 4: Move Users Between Organizational Units (OUs).....	34
5.1	Move the user account using Active Directory Administrative Center.....	34
5.2	Move the user account using PowerShell	36
6	Task 5: Modify Users in IT OU	38
7	Task 6: Enable and Disable User Accounts.....	40
7.1	Disable user account using the Active Directory Administrative Center	40
7.2	Enable the user account using PowerShell	41
8	Task 7: Lock and Unlock Users	42
9	Task 8: Configure Roaming Profiles on SRV01	43
9.1	Create a shared folder C:\Profiles on SRV01	43
9.2	Share the folder with appropriate permissions	44
9.2.1	Create and share the profile on a File Server.....	44
9.2.2	Verify folder permissions	44
9.3	Configure NTFS and share permissions for roaming profiles	46
9.3.1	Configure NTFS permissions for the Profiles folder	46
9.3.2	Verify	46
9.4	Assign a roaming profile path using the Active Directory Administrative Center	49
9.4.1	Assign Roaming Profile for Emma Morel (AD Administrative Center)	49
9.5	Assign a roaming profile path for the user account Lucas Bernard using PowerShell	51

9.6	Log in from Client1 and verify the profile is stored in \\SRV01\Profiles\$\%username%.....	52
10	Task 9: Create a Template User for HR	59
10.1	Create template.....	59
10.2	Verify Template	60
11	Task 10: Verify New Users from DC201 (RODC Core Server)	64
11.1	Connect to DC201 and Verify Users	64
11.2	Check Replication Status	64
11.3	Verify HR and IT Users Exist	66
11.4	Verify Specific Template User	67
11.5	Verify Disabled/Deleted Users	67
11.5.1	Check Disabled Users	67
11.5.2	Verify Deleted Users	67

1 Lab 4 - Managing User Accounts

1.1 Objective

This lab is designed to help you practice **managing user accounts** in Active Directory using **Active Directory Administrative Center**, **Active Directory Users and Computers** and **PowerShell**.

You will perform tasks related to **user creation, movement, enabling/disabling accounts, locking/unlocking users, and configuring roaming profiles**.

1.2 Lab Requirements

- Domain Name: **vlabs1.com**
- **Servers:**
 - **DC101** (Windows Server 2022, Primary DC for vlabs.com)
 - **SRV01** (Windows Server 2025 - domain-joined) → *Roaming profiles will be configured here.*
- **Client Machine:**
 - **Client1** (Windows 11 - domain-joined).

NOTE - Lab 4 is based on Lab 3

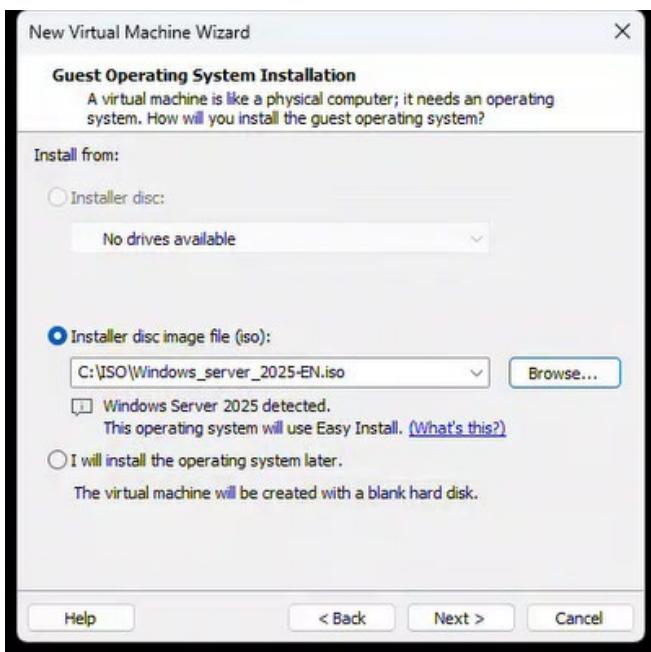
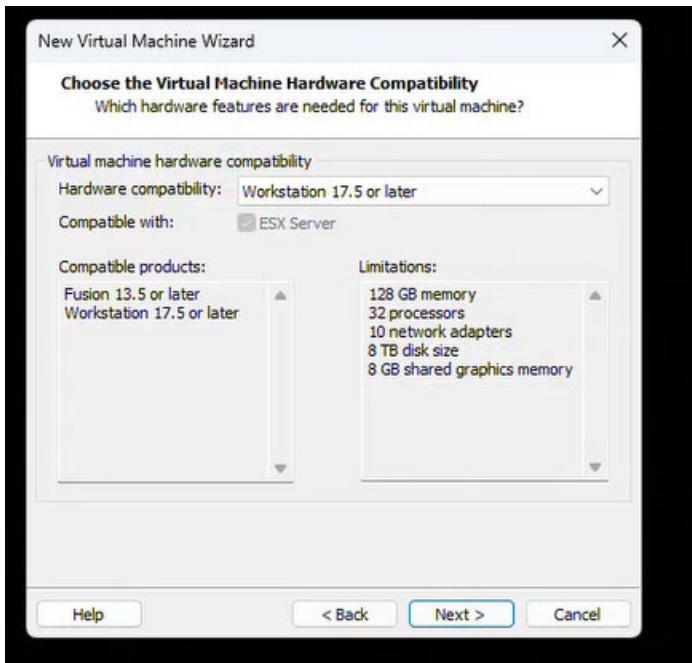
2 Task 1: Install a Windows File Server 2025

Requirements

- OS: **Windows Server 2025 Standard Edition (Desktop Experience)**
- Serial number: **HMP2Y-T9NJ2-Q8MH6-2VGM9-CDQMB**
- Name: **SRV01** – Where **01** is your remote computer number
- Specs: **2 vCPU, 4 GB RAM, 60 GB HDD**
- Network: **LAN Segment: LAN1**
 - Assign a static IP: **192.168. 1.10/24**
 - Set DNS Server: **192.168.1.1**
- Join this server to the **v labs1.com** domain.

2.1 Create new VM



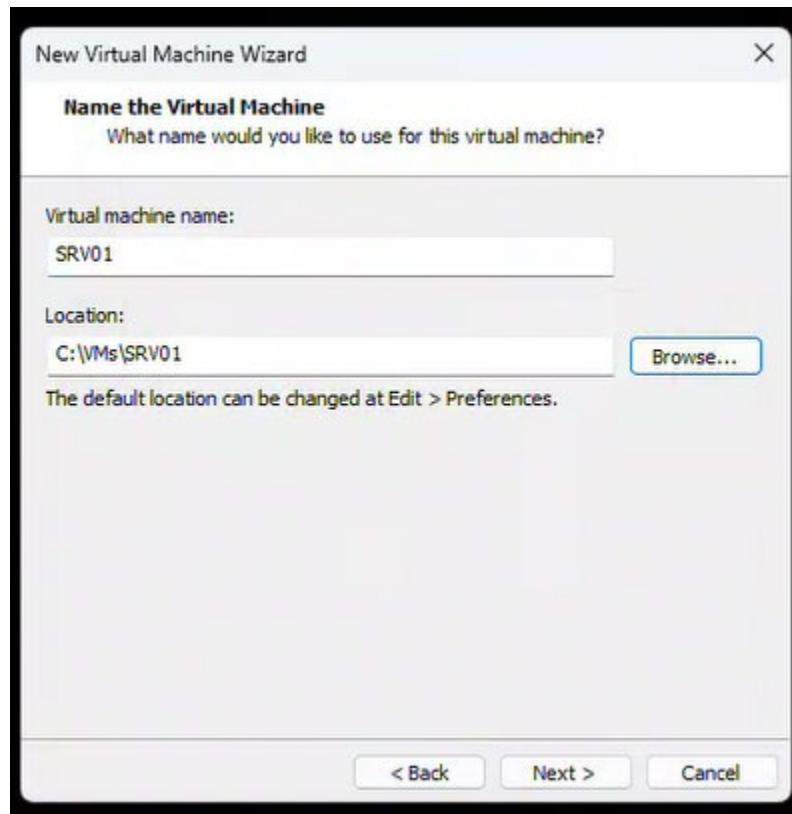
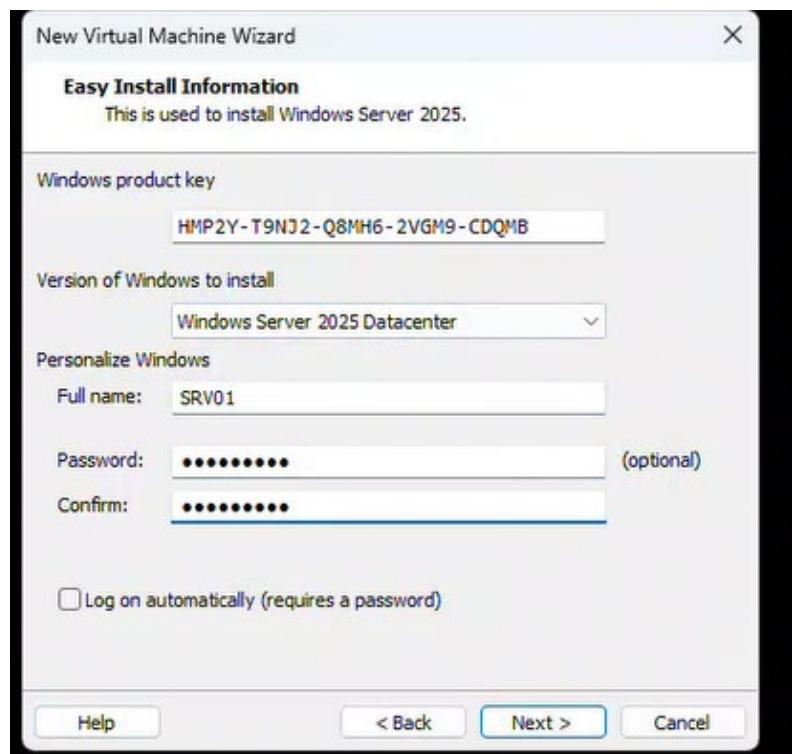


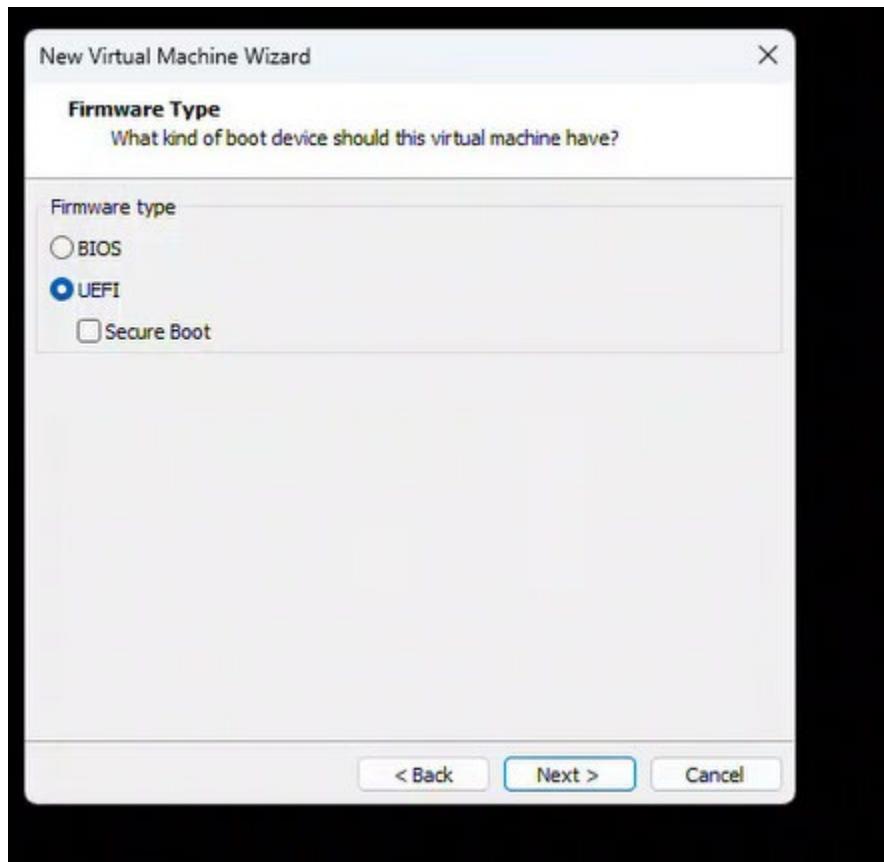
- Serial number: **HMP2Y-T9NJ2-Q8MH6-2VGM9-CDQMB**
- Name: **SRV01** – Where *01* is your remote computer number
- Specs: **2 vCPU, 4 GB RAM, 60 GB HDD**

Network: **LAN Segment: LAN1** Assign a static IP: **192.168.1.10/24**

Set DNS Server: **192.168.1.1**

Join this server to the **vlabs1.com** domain

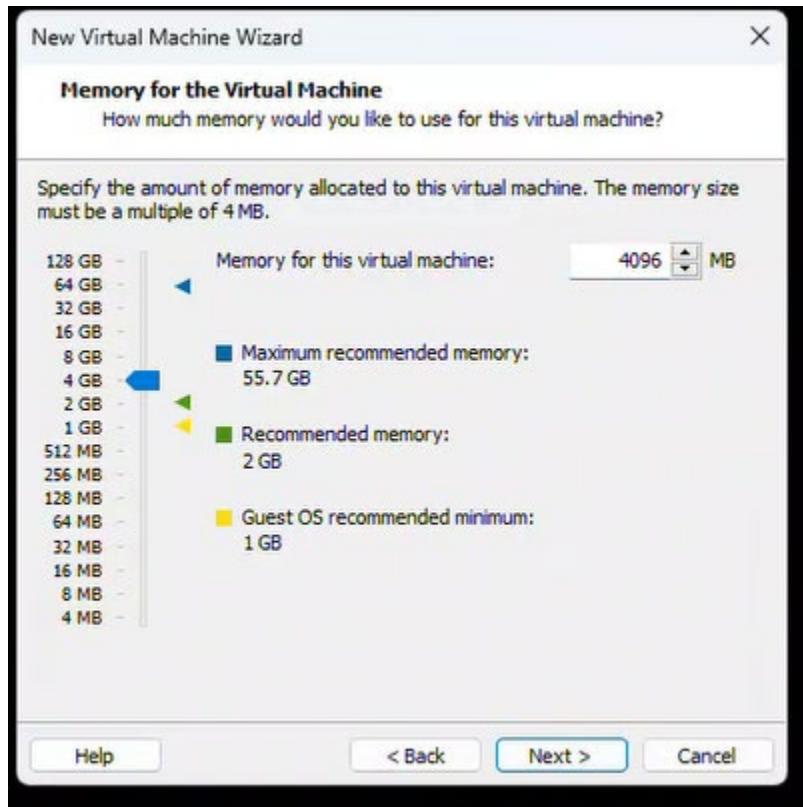
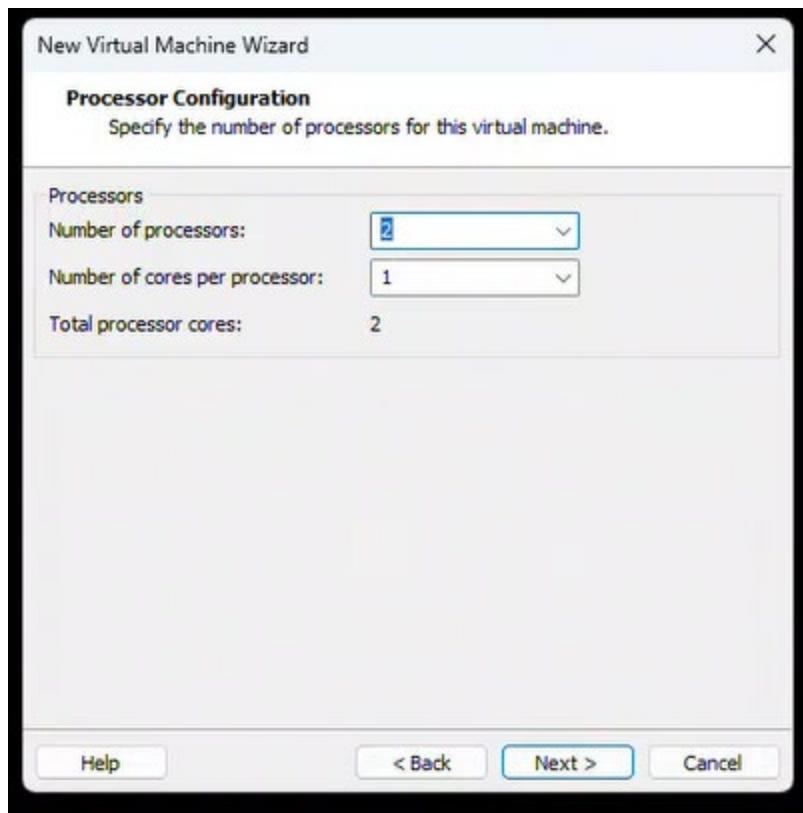


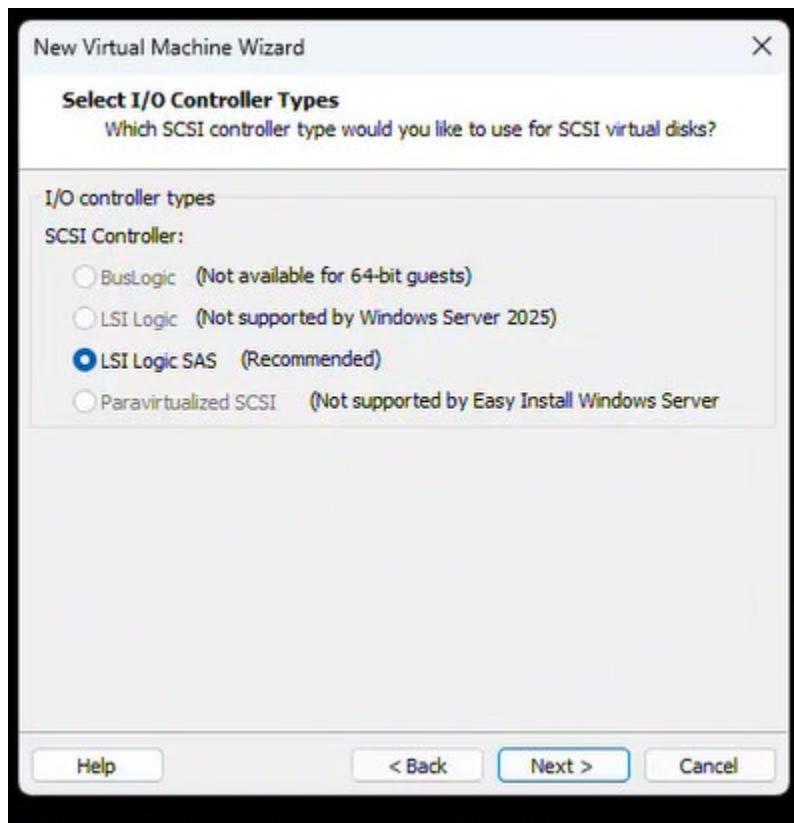
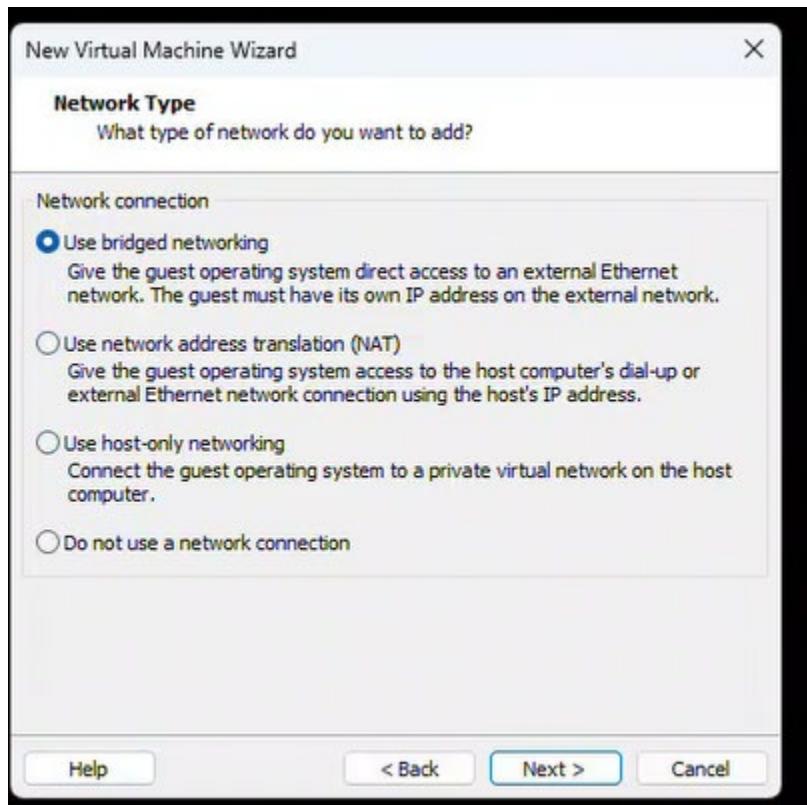


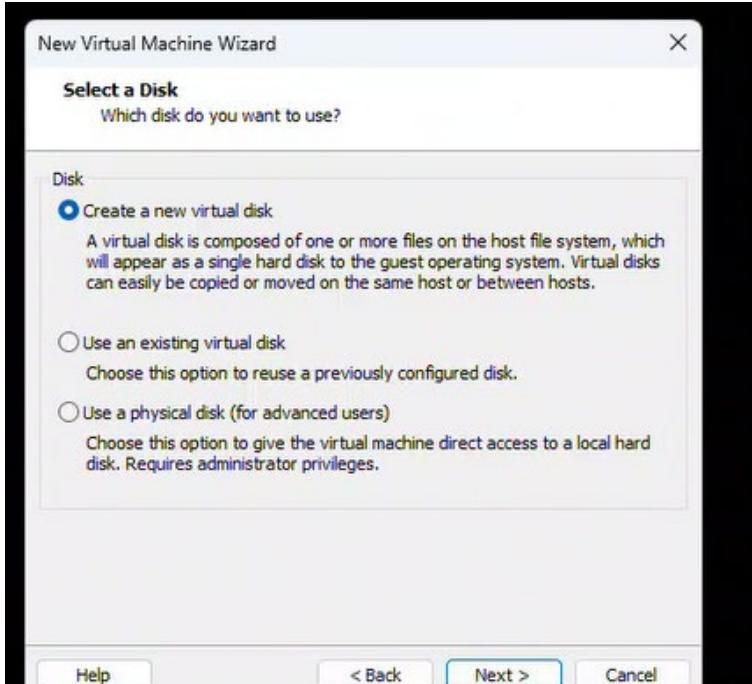
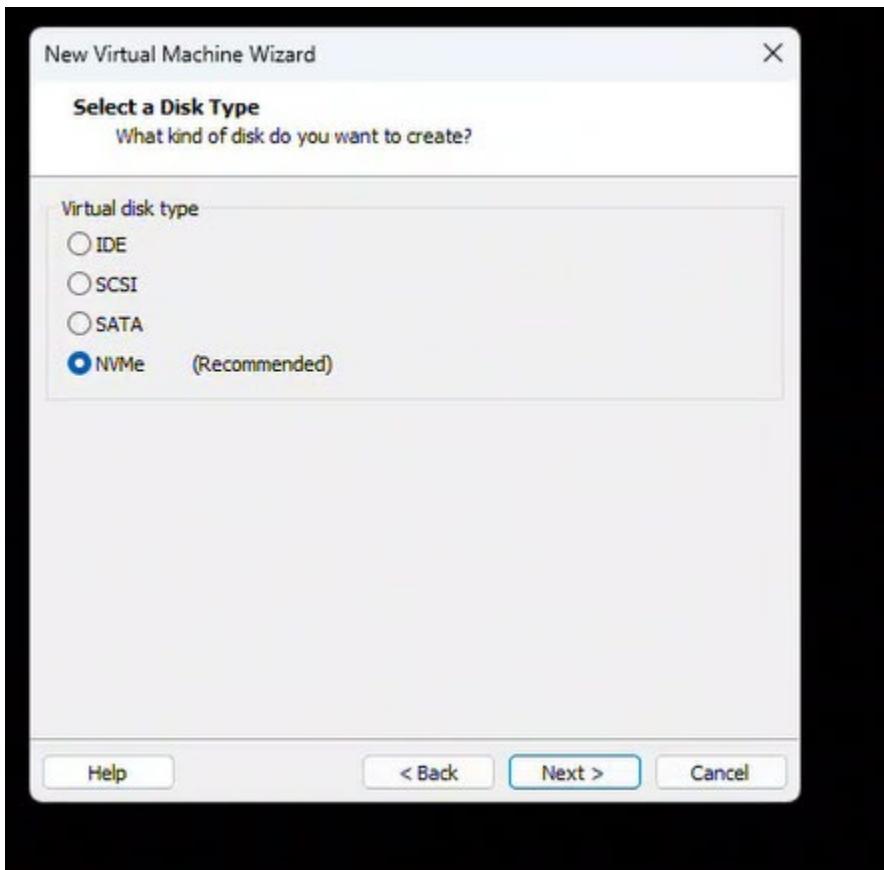
Specs: **2 vCPU, 4 GB RAM, 60 GB HDD**

Network: **LAN Segment: LAN1 Assign a static IP: 192.168. 1.10/24**

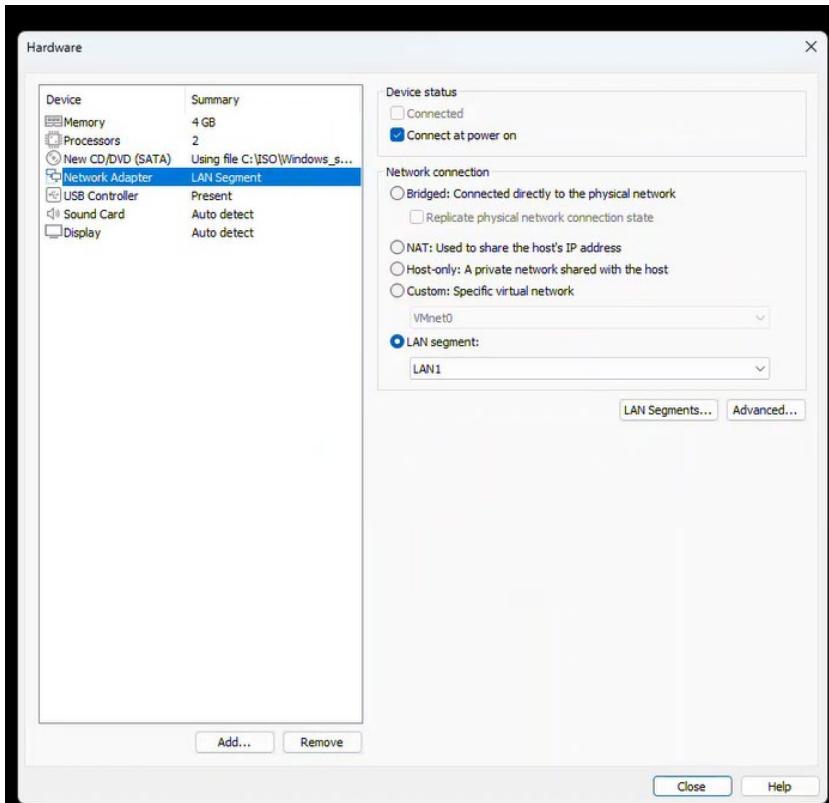
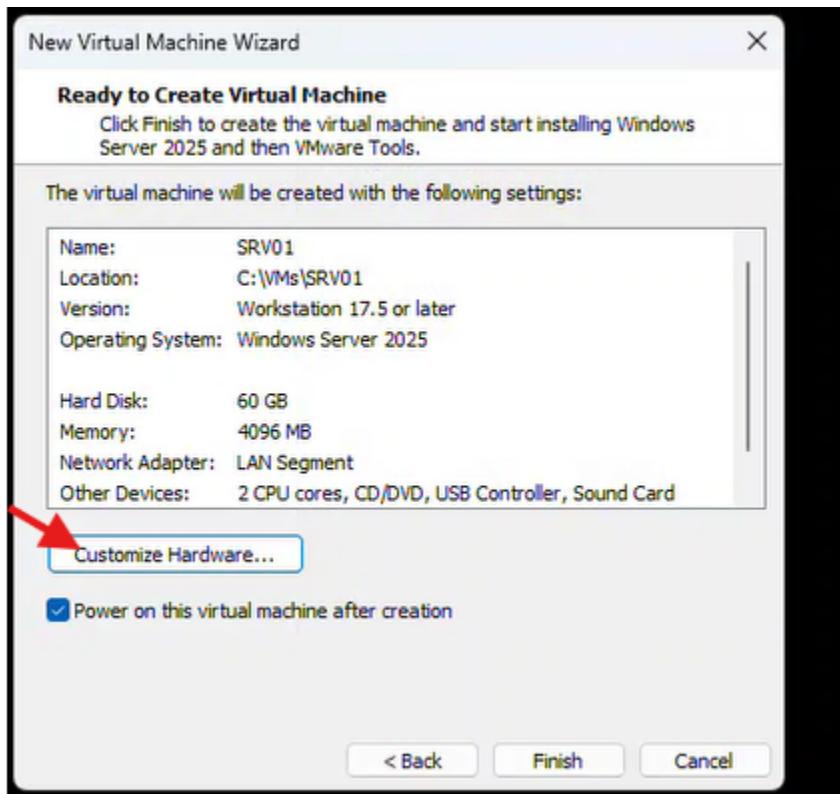
Set DNS Server: **192.168.1.1**

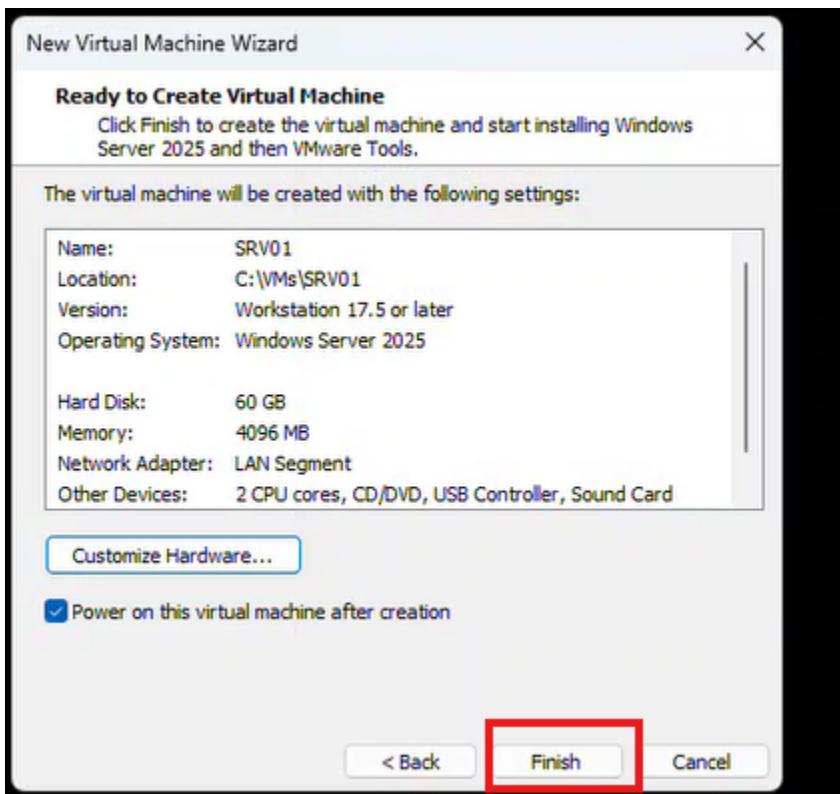




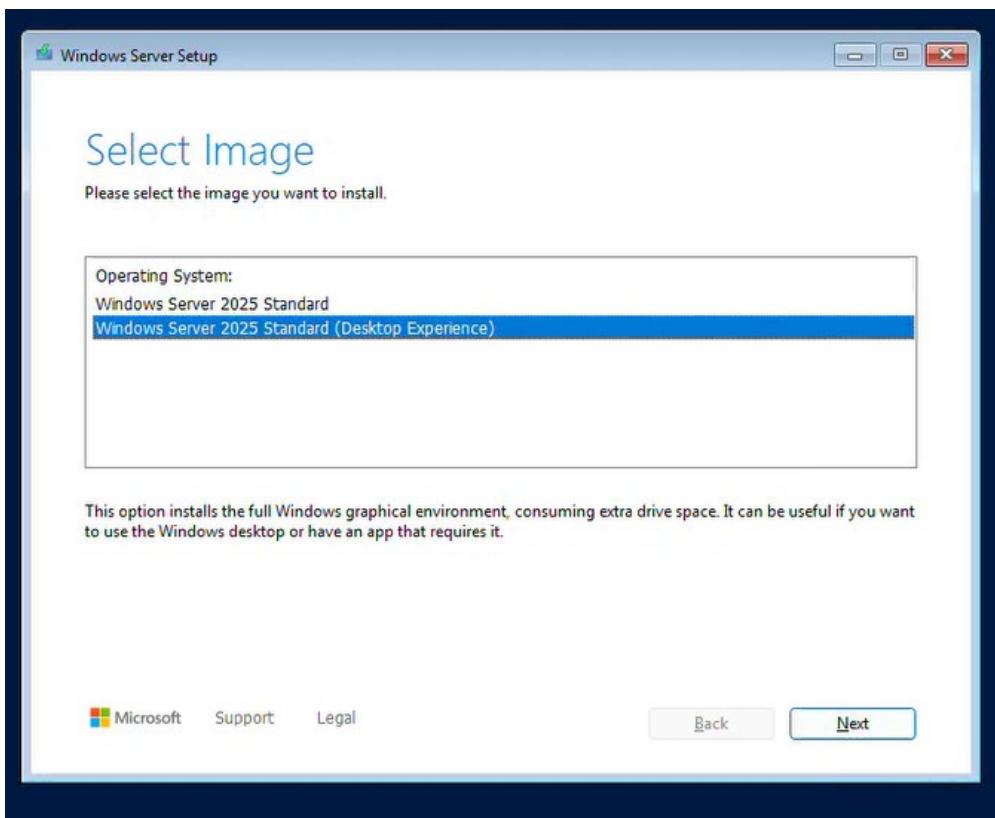








2.2 Windows Install



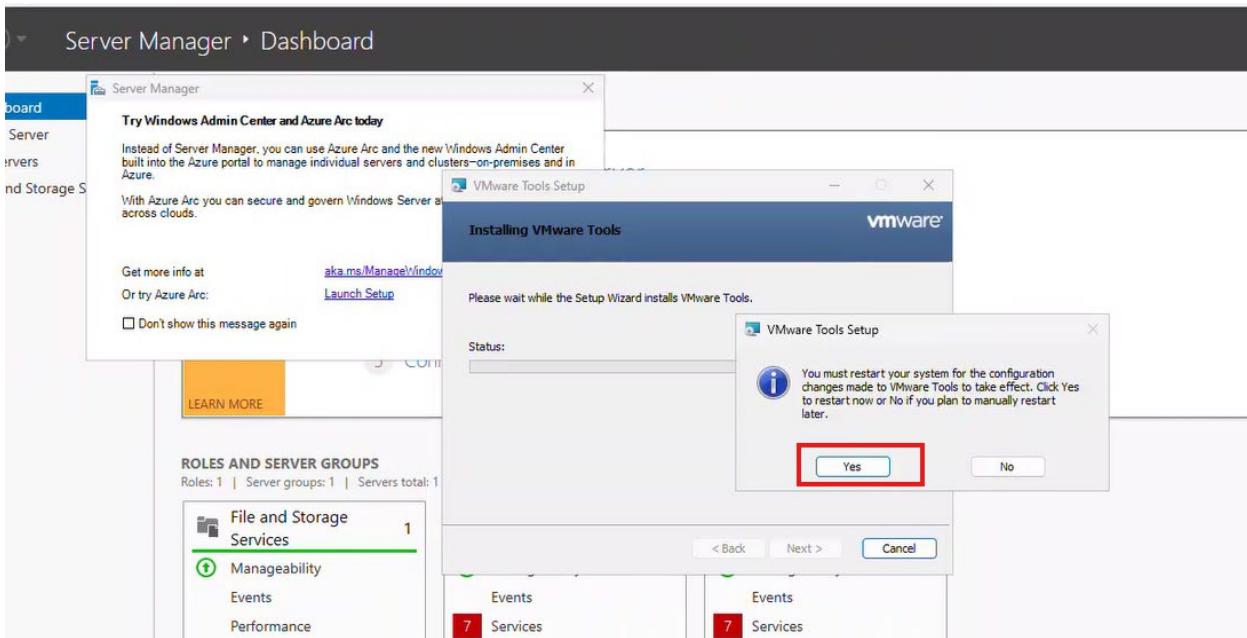
Installing Windows Server

Your PC will restart several times. This might take a while.

10% complete

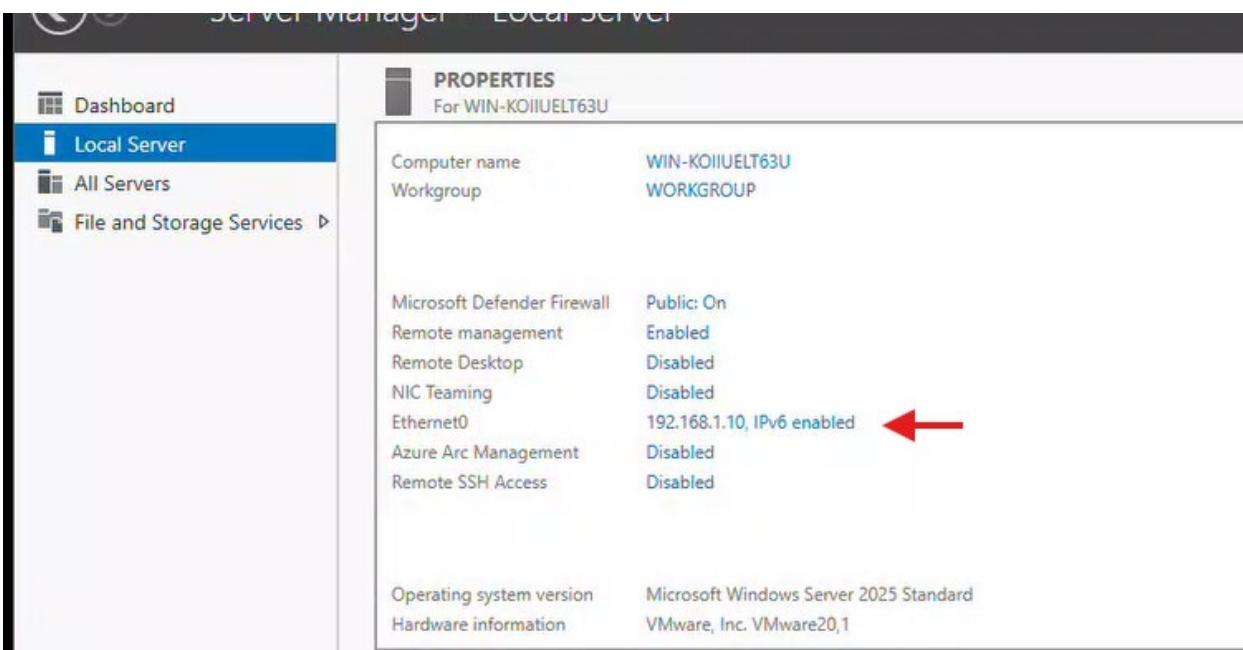
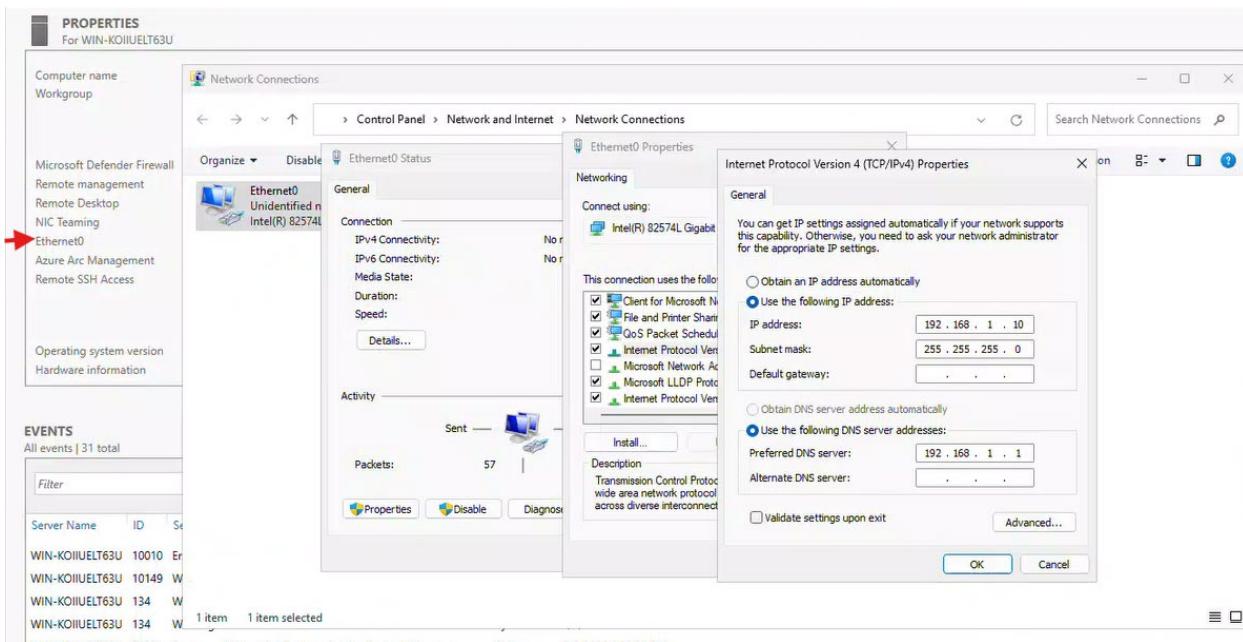
[Cancel](#)

After installing windows and VMWare tools, a restart is issued



2.3 Set IP address

- Assign a static IP: 192.168.1.10/24
- Set DNS Server: 192.168.1.1

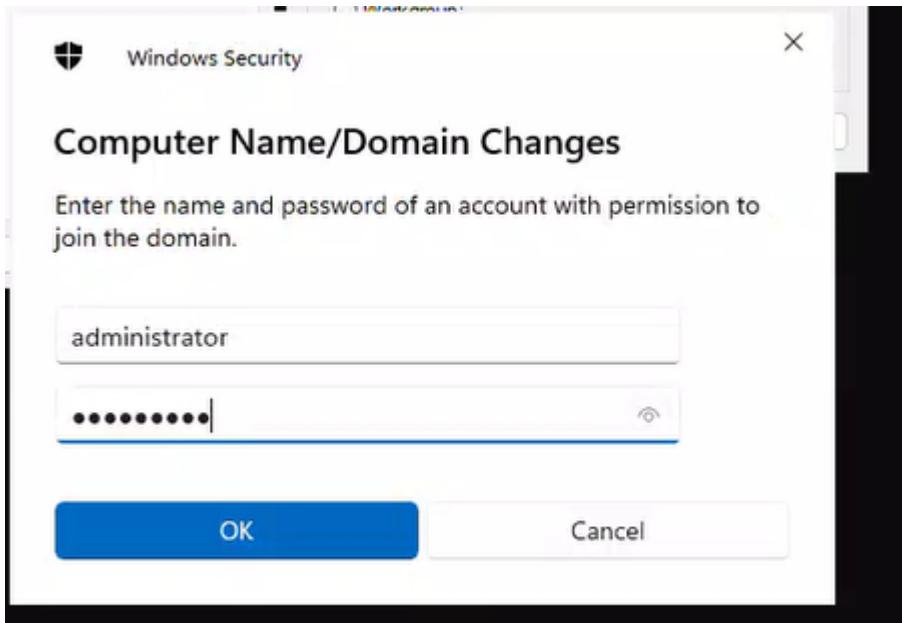
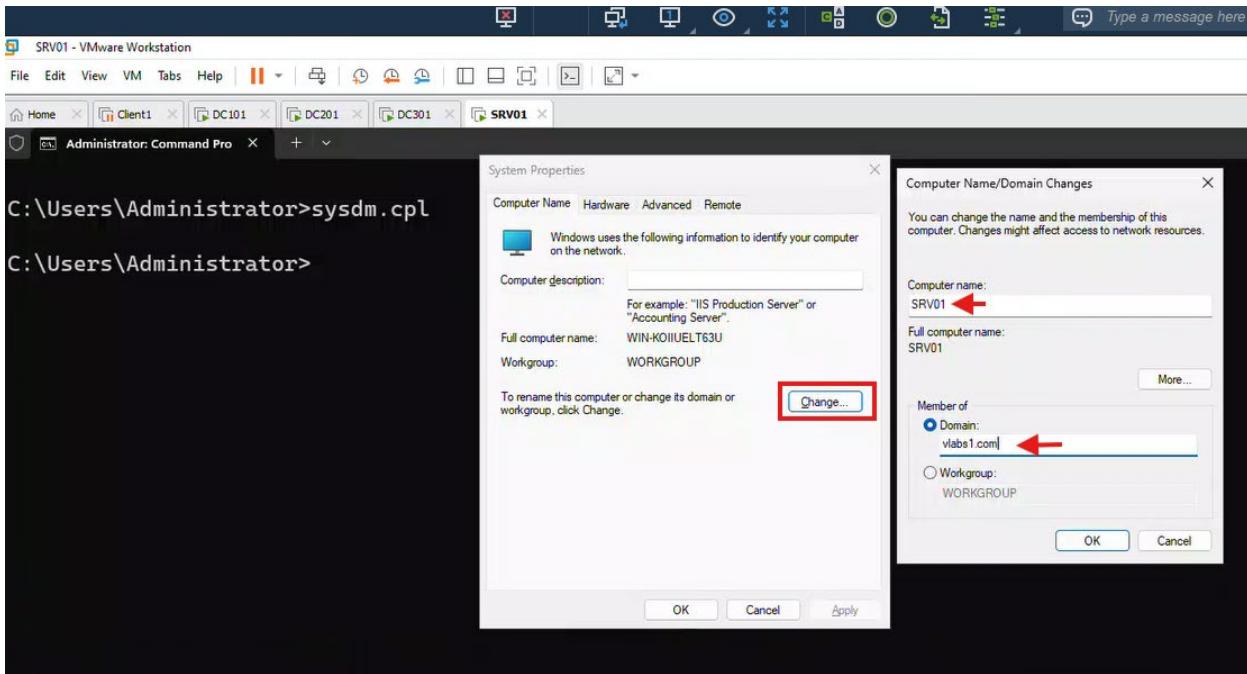


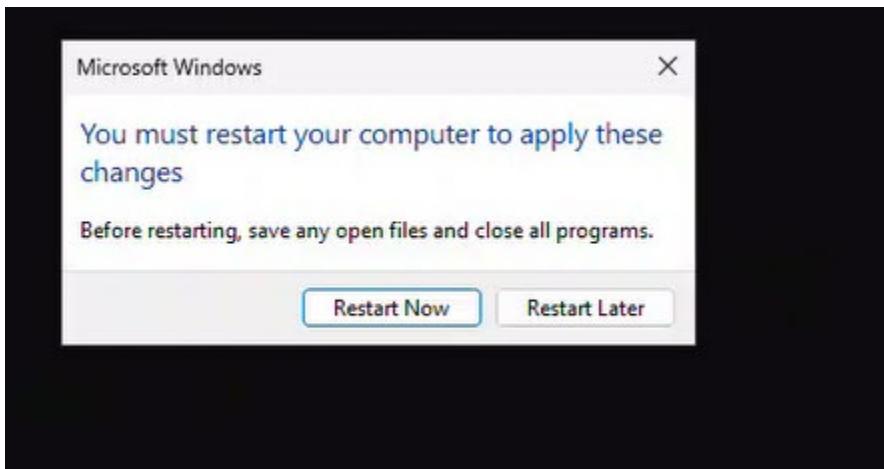
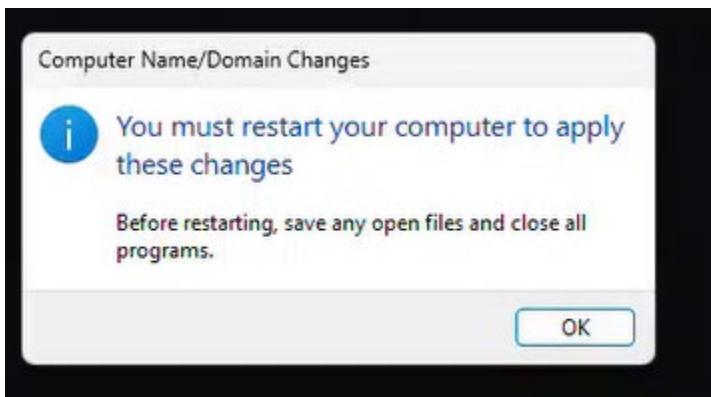
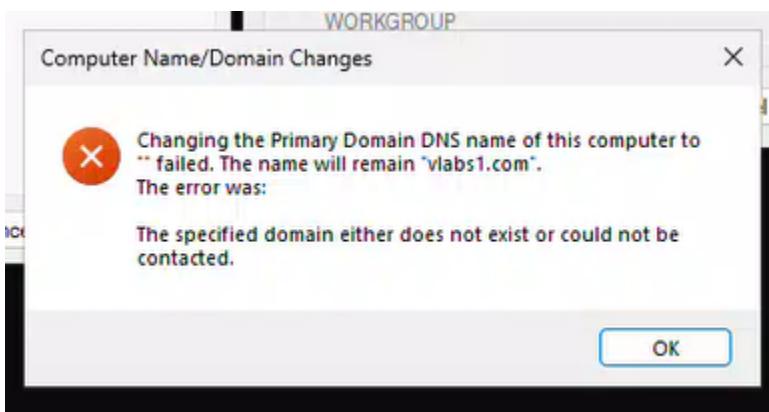
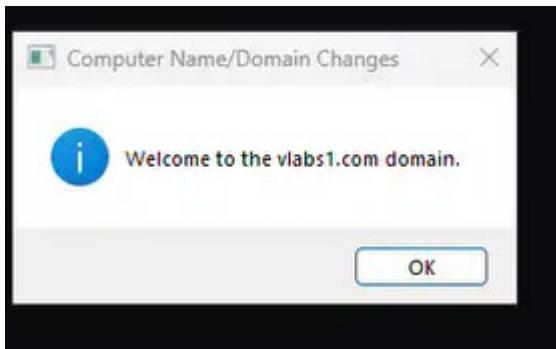
2.4 Join this server to the vlabs1.com domain

On client

Open command prompt and type **sysdm.cpl** on command prompt for client

Select change and assign domain





Computer will restart

Server DC 101

Go to server and verify in Active directory Administrative Center the computer has been added

Active Directory Administrative Center

Active Directory Administrative Center > vlab1 (local) > Computers

Computers (2)

Name	Type
CLIENT1	Computer
SRV01	Computer

DC101 - VMware Workstation

SRV01

Computer

Managed By

Computer name: SRV01
DNS name: SRV01.vlab1.com
Domain controller type: Workstation or server
Site: Description:

Computer (NetBIOS) name: SRV01
OS name: Windows Server 2025 Standard
OS version: 10.0 (26100)
Service pack:
 Protect from accidental deletion

Managed by:

Phone numbers:
Main:
Mobile:
Fax:

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

Member Of

Filter

Name	Primary
Active Directory Domain Services Folder	Primary
Domain Computers	vlab1-Users-Domain Computers

Add... Remove Set Primary Group

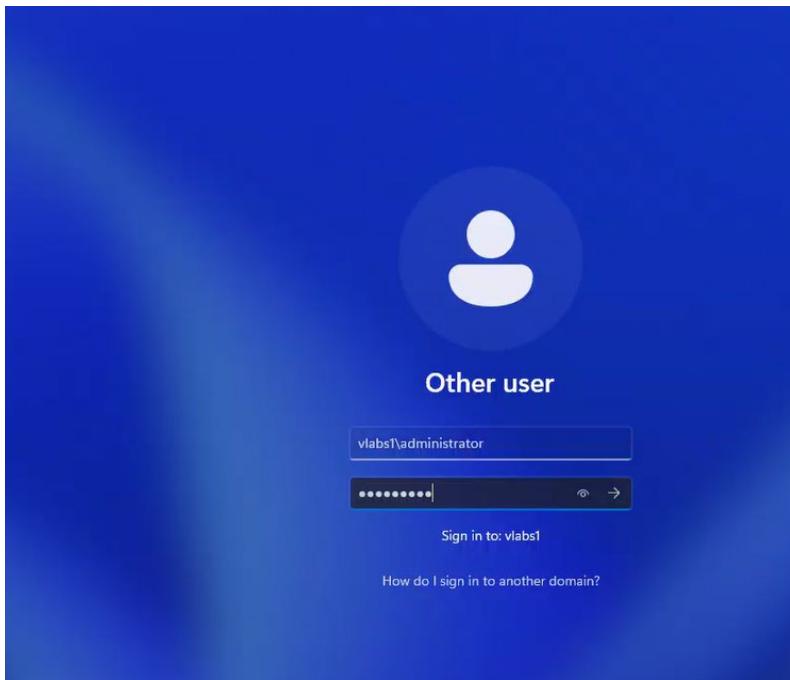
Authentication Policy

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.

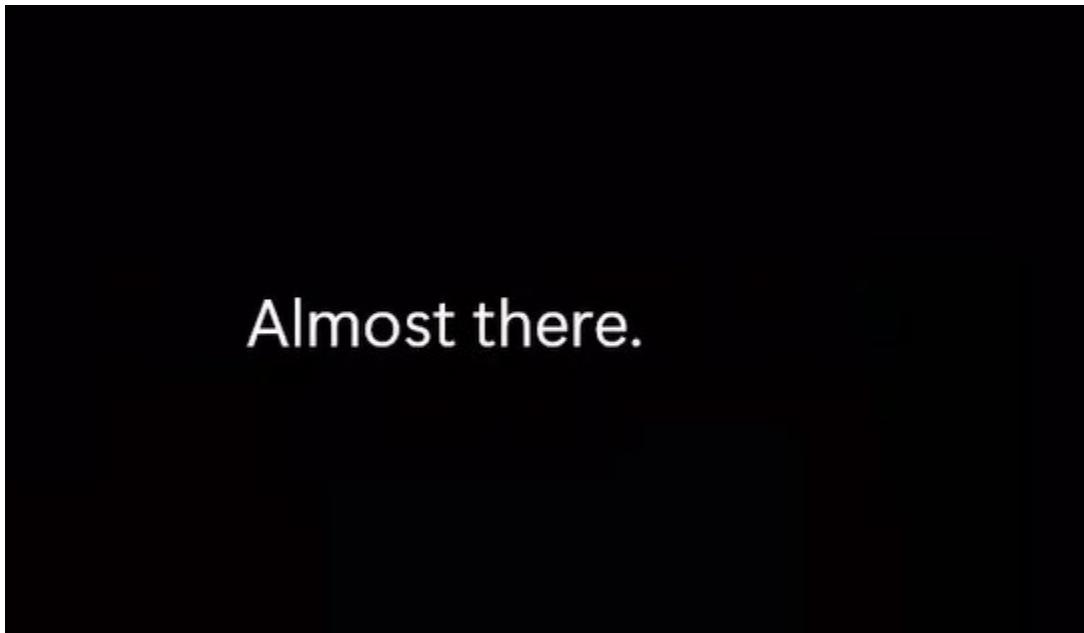
Activate Windows
Go to Settings to activate Windows.

2.4.1 Login with the domain **administrator** to test it

From client login as administrator



Wait



Verify connection

```
Administrator: Windows Pow + v
PS C:\Users\administrator.VLABS1> whoami
vlabs1\administrator
PS C:\Users\administrator.VLABS1> ipconfig /all

Windows IP Configuration

Host Name . . . . . : SRV01
Primary Dns Suffix . . . . . : vlabs1.com
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : vlabs1.com

Ethernet adapter Ethernet0:

Connection-specific DNS Suffix . . .
Description . . . . . : Intel(R) 82574L Gigabit Network Connection
Physical Address. . . . . : 00-0C-29-CE-5B-60
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::e069:f8a5:e7b1:3d00%6(Preferred)
IPv4 Address. . . . . : 192.168.1.10(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 83889193
DHCPv6 Client DUID. . . . . : 00-01-00-01-2F-AC-6F-D5-00-0C-29-CE-5B-60
DNS Servers . . . . . : 192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled
PS C:\Users\administrator.VLABS1> |
```

3 Task 2: Create Organizational Units (OUs) and Users

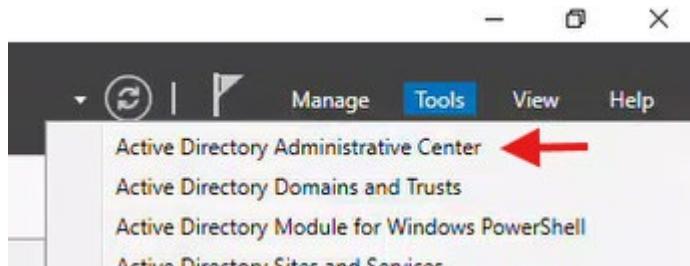
1. Create the following **OUs** using the **Active Directory Administrative Center**
 - o **HR OU** and **IT OU**
2. Create the following **users** in the **HR OU** using the **Active Directory Administrative Center**
 - o **Sophie Lambert (s.lambert)**
 - o **Liam Dupont (l.dupont)**
 - o **Emma Morel (e.morel)**
3. Create the following users in the **IT OU** using **PowerShell**:
 - o **Lucas Bernard (l.bernard)**
 - o **Thomas Aviles (t.aviles)**
 - o **Chloe Girard (c.girard)** (*This user should be disabled during creation.*)

3.1 Create OUs using the Active Directory Administrative Center

Create the following OUs using the Active Directory Administrative Center

- HR OU and IT OU

1. Open Active Directory Administrative Center.



2. Navigate to your domain → Click New → Organizational Unit.

Active Directory Administrative Center

Active Directory Administrative Center > vLabs1 (local) >

Active Directory... < vLabs1 (local) (13)

Overview

Name

Name	Type	Description
vLabs1 (local)	Container	Default container for upgrading...
Built-in Domains	Container	Default container for domain controllers...
Container	Container	Default container for upgrading...
Organizational Units	Container	Default container for domain objects...
New	Organizational Unit	Container for security objects...
Search under this node	InetOrgPerson	
Properties	Group	Container for key objects...
LostAndFound	User	Container for orphaned objects...
Managed Service Accounts	Computer	Container for managed service accounts...
NTDS Quotas	msDS-Quota	Quota specifications container...
Program Data	Container	Default location for storage...
System	Container	Builtin system settings...
TPM Devices	msTPM-Info	
Users	Container	Default container for upgrading...

Change domain controller
Raise the forest functional level...
Raise the domain functional level...
Enable Recycle Bin ...

New
Search under this node
Properties
LostAndFound
Managed Service Accounts
NTDS Quotas
Program Data
System
TPM Devices
Users
Dynamic Access Control
Authentication
Global Search

3. Create:

- HR OU (`OU=HR,DC=vLabs1,DC=com`)

DC101 - VMware Workstation

Create Organizational Unit: HR

Organizational Unit

Name: * HR

Address:

Street:

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

Create in: DC=vLabs1,DC=com Change.. Description: Protect from accidental deletion

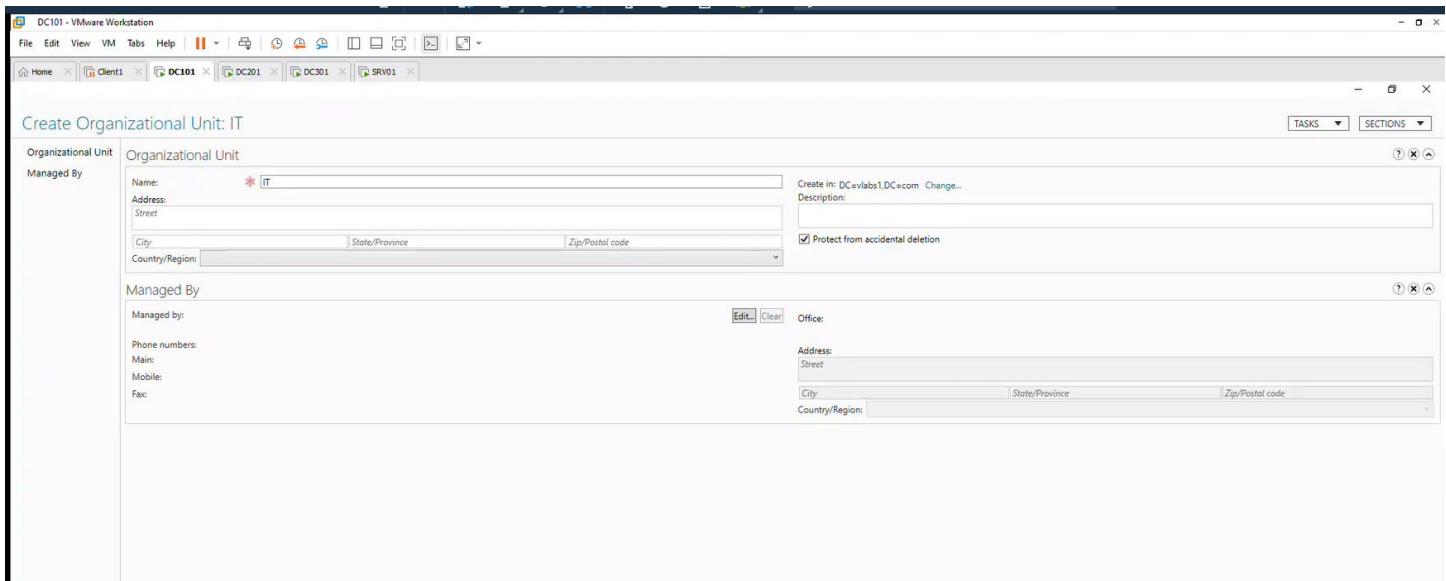
Managed By

Managed by:

Phone numbers:
Main:
Mobile:
Fax:

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

- IT OU (`OU=IT,DC=vLabs1,DC=com`)



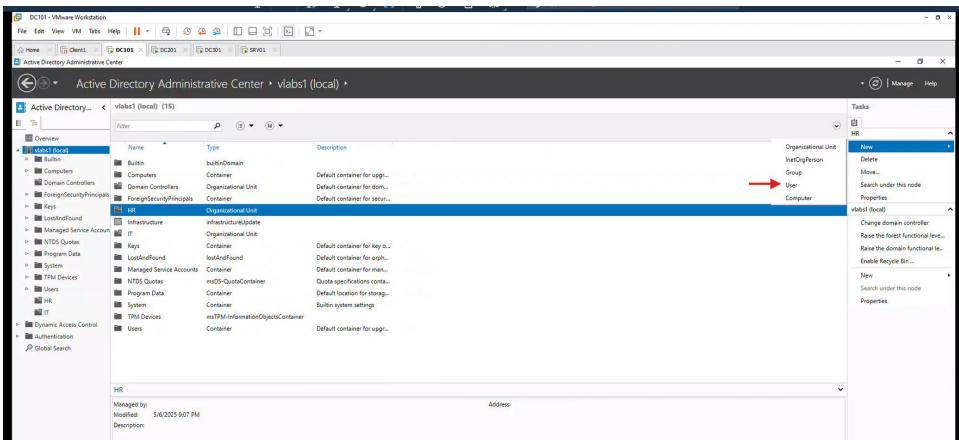
Name	Type	Description
Builtin	builtinDomain	
Computers	Container	Default container for upgr...
Domain Controllers	Organizational Unit	Default container for dom...
ForeignSecurityPrincipals	Container	Default container for secur...
HR	Organizational Unit	
Infrastructure	infrastructureUpdate	
IT	Organizational Unit	
Keys	Container	Default container for key o...
LostAndFound	lostAndFound	Default container for orph...
Managed Service Accounts	Container	Default container for man...
NTDS Quotas	msDS-QuotaContainer	Quota specifications conta...
Program Data	Container	Default location for storag...
System	Container	Builtin system settings
TPM Devices	msTPM-InformationObjectsContainer	
Users	Container	Default container for upgr...

3.2 Create Users in HR OU Using ADAC

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)

1. In Active Directory Administrative Center, navigate to HR OU.

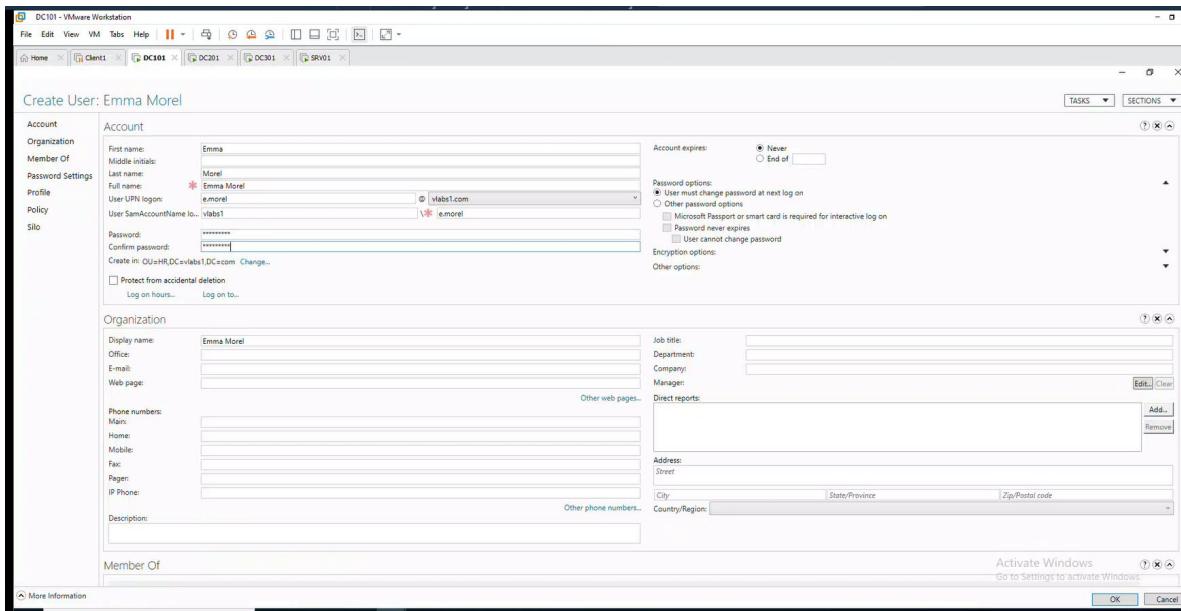


2. Click New → User and enter information
3. Set passwords and enable "User must change password at next logon" if required.
4. Click OK to create users.

- ` Name: Sophie Lambert | s.lambert`

- ` Name: Liam Dupont | l.dupont`

- ` Name: Emma Morel | e.morel`



5. See created users under HR

The screenshot shows the Active Directory Administrative Center interface. The left navigation pane lists various OUs and administrative sections. The 'HR' OU is currently selected, indicated by a blue bar at the bottom of its list item. The main pane displays a table of users within the HR OU. The table has columns for 'Name' and 'Type'. Three users are listed: Emma Morel, Sophie Lambert, and Liam Dupont, all categorized as 'User'. Sophie Lambert is highlighted with a blue selection bar, and a red box surrounds the entire user list table.

Name	Type
Emma Morel	User
Sophie Lambert	User
Liam Dupont	User

3.3 Create Users in IT OU Using PowerShell

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 Users in IT OU

```
New-ADUser -Name "Lucas Bernard" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName  
"Lucas" -Surname "Bernard" -UserPrincipalName "l.bernard@vlabs1.com" -  
SamAccountName "l.bernard" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -  
AsPlainText -Force) -Enabled $true -PasswordNeverExpires $true
```

```

New-ADUser -Name "Thomas Aviles" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName
"Thomas" -Surname "Aviles" -UserPrincipalName "t.aviles@vlabs1.com" -SamAccountName
"t.aviles" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -
Enabled $true -PasswordNeverExpires $true

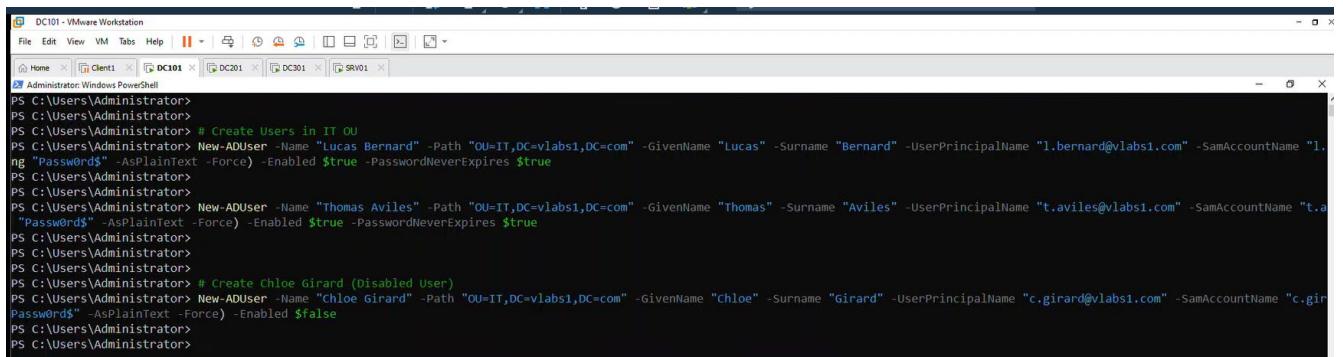
```

Create Chloe Girard (Disabled User)

```

New-ADUser -Name "Chloe Girard" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName "Chloe" -
Surname "Girard" -UserPrincipalName "c.girard@vlabs1.com" -SamAccountName "c.girard" -
AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled
$false

```



```

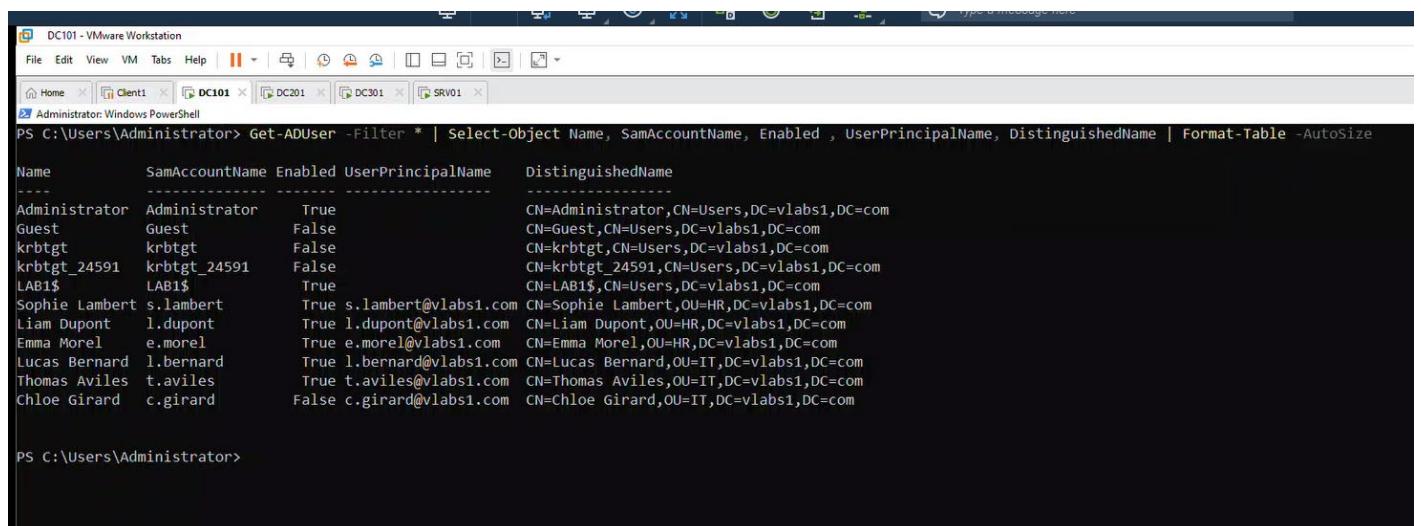
PS C:\Users\Administrator>
PS C:\Users\Administrator> # Create Users in IT OU
PS C:\Users\Administrator> New-ADUser -Name "Lucas Bernard" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName "Lucas" -Surname "Bernard" -UserPrincipalName "l.bernard@vlabs1.com" -SamAccountName "l.bernard" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled $true -PasswordNeverExpires $true
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> New-ADUser -Name "Thomas Aviles" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName "Thomas" -Surname "Aviles" -UserPrincipalName "t.aviles@vlabs1.com" -SamAccountName "t.aviles" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled $true -PasswordNeverExpires $true
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> # Create Chloe Girard (Disabled User)
PS C:\Users\Administrator> New-ADUser -Name "Chloe Girard" -Path "OU=IT,DC=vlabs1,DC=com" -GivenName "Chloe" -Surname "Girard" -UserPrincipalName "c.girard@vlabs1.com" -SamAccountName "c.girard" -AccountPassword (ConvertTo-SecureString "Passw0rd$" -AsPlainText -Force) -Enabled $false
PS C:\Users\Administrator>
PS C:\Users\Administrator>

```

3.3.1 Verify users were created

3.3.1.1 Powershell

Get-ADUser -Filter * | Select-Object Name, SamAccountName, Enabled , UserPrincipalName, DistinguishedName | Format-Table -AutoSize



Name	SamAccountName	Enabled	UserPrincipalName	DistinguishedName
Administrator	Administrator	True		CN=Administrator,CN=Users,DC=vlabs1,DC=com
Guest	Guest	False		CN=Guest,CN=Users,DC=vlabs1,DC=com
krbtgt	krbtgt	False		CN=krbtgt,CN=Users,DC=vlabs1,DC=com
krbtgt_24591	krbtgt_24591	False		CN=krbtgt_24591,CN=Users,DC=vlabs1,DC=com
LAB1\$	LAB1\$	True		CN=LAB1\$,CN=Users,DC=vlabs1,DC=com
Sophie Lambert	s.lambert	True	s.lambert@vlabs1.com	CN=Sophie Lambert,OU=HR,DC=vlabs1,DC=com
Liam Dupont	l.dupont	True	l.dupont@vlabs1.com	CN=Liam Dupont,OU=HR,DC=vlabs1,DC=com
Emma Morel	e.morel	True	e.morel@vlabs1.com	CN=Emma Morel,OU=HR,DC=vlabs1,DC=com
Lucas Bernard	l.bernard	True	l.bernard@vlabs1.com	CN=Lucas Bernard,OU=IT,DC=vlabs1,DC=com
Thomas Aviles	t.aviles	True	t.aviles@vlabs1.com	CN=Thomas Aviles,OU=IT,DC=vlabs1,DC=com
Chloe Girard	c.girard	False	c.girard@vlabs1.com	CN=Chloe Girard,OU=IT,DC=vlabs1,DC=com

3.3.1.2 Active Directory Administrative Center

The screenshot shows the VMware Workstation interface with multiple tabs open. The active tab is 'DC101 - VMware Workstation'. Below the tabs, the title bar reads 'Active Directory Administrative Center'.

The main window displays the 'IT' container under 'vlabs1 (local)'. The left sidebar shows a tree view of the domain structure, with 'IT' selected. The right pane lists three users:

Name	Type
Chloe Girard	User
Lucas Bernard	User
Thomas Aviles	User

DC101 - VMware Workstation

File Edit View VM Tabs Help | || | | | | | | | | | | | | | | | | | |

Home Client1 DC101 DC201 DC301 SRV01

Active Directory Administrative Center

Active Directory Administrative Center > vLabs1 (local) > HR

Active Directory... < HR (3)

Overview vLabs1 (local) Builtin Computers Domain Controllers ForeignSecurityPrincipals HR IT Keys LostAndFound Managed Service Account NTDS Quotas Program Data System TPM Devices Users Dynamic Access Control Authentication Global Search

Filter

Name	Type	Description
Emma Morel	User	
Liam Dupont	User	
Sophie Lambert	User	

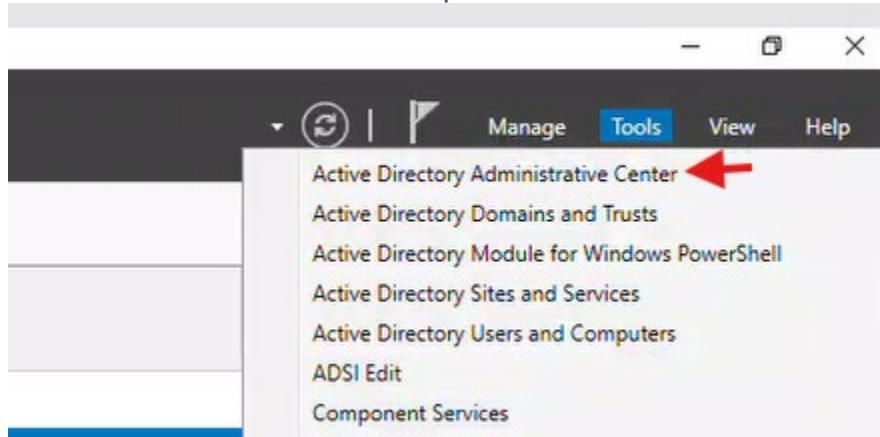
4 Task 3: Delete Users

4.1 Delete user account using Active Directory Administrative Center

Delete the user account **Liam Dupont** using **Active Directory Administrative Center**

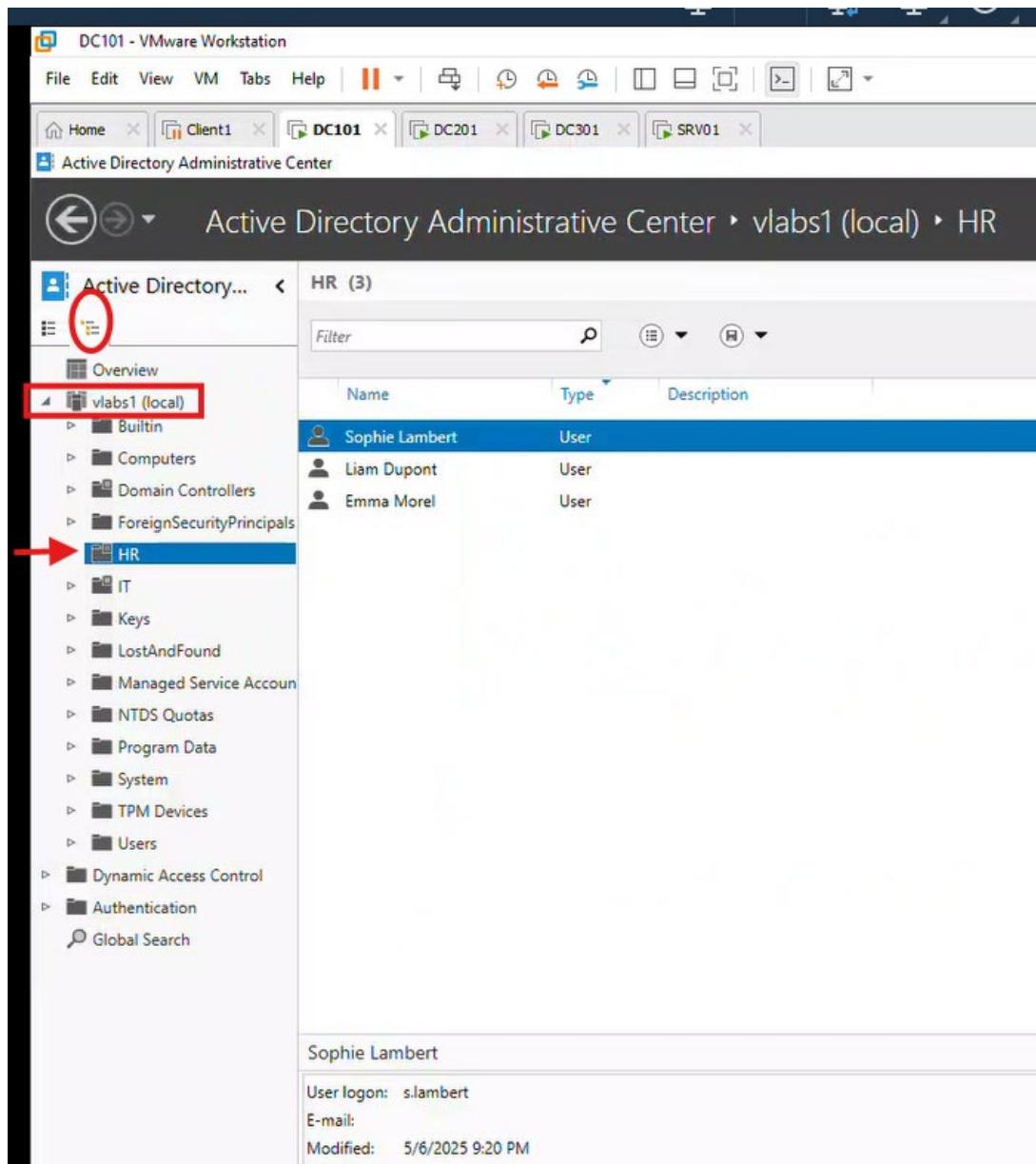
1. Open Active Directory Administrative Center

- On **DC101** server manager, click **Tools** and search for "**Active Directory Administrative Center**" and open it.



2. Navigate to the HR OU

- In the left pane, expand your domain (**v labs1.com**).
- Locate and click on the **HR** Organizational Unit (OU).



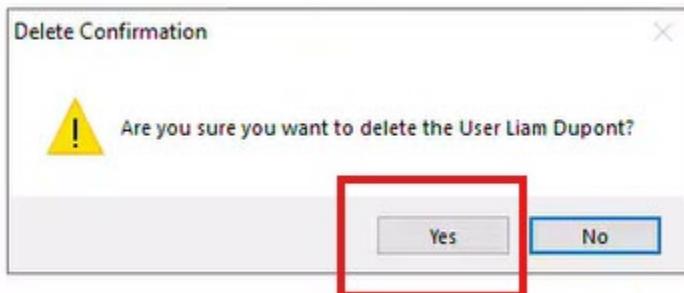
3. Find and Select Liam Dupont

- In the center pane, locate the user "**Liam Dupont**" (or **l.dupont** in the username column).
- Right-click on the user and select **Delete**.

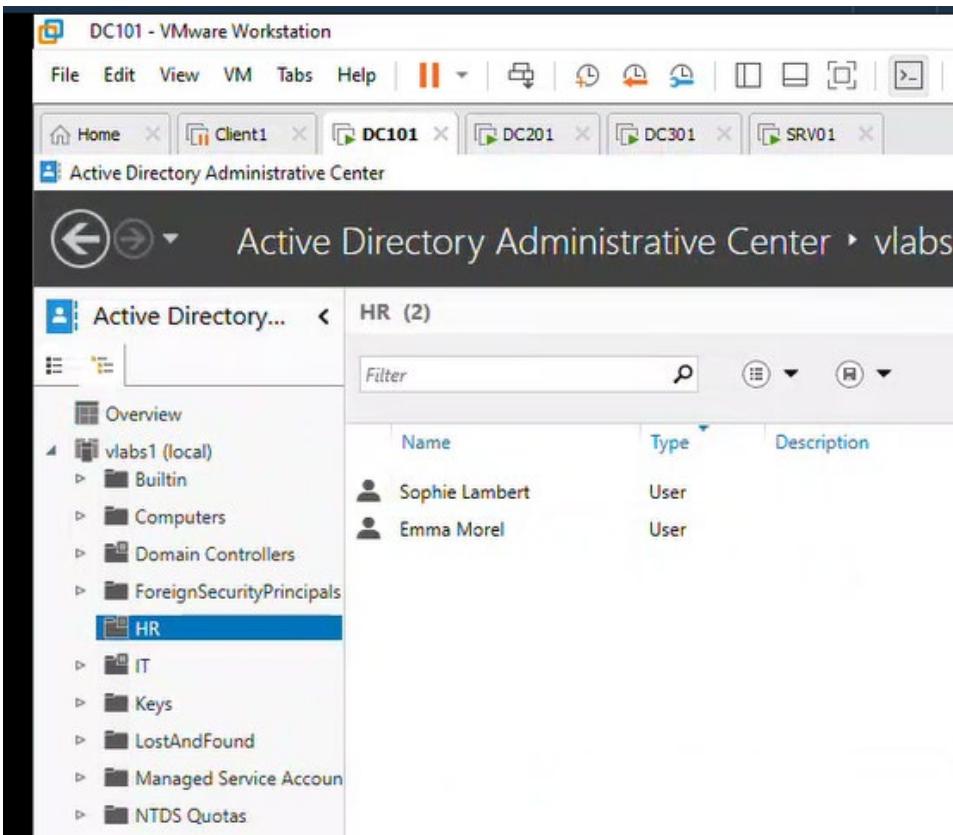
The screenshot shows the Active Directory Administrative Center interface. The left navigation pane is expanded, showing the 'Active Directory...' node and its sub-containers: Overview, vlabs1 (local), HR, IT, Keys, LostAndFound, Managed Service Account, NTDS Quotas, Program Data, System, TPM Devices, Users, Dynamic Access Control, Authentication, and Global Search. The 'HR' container is selected. The main pane displays the 'HR (3)' users: Sophie Lambert (User), Liam Dupont (User), and Emma Morel (User). A context menu is open over the user 'Liam Dupont', listing options: Reset password..., View resultant password settings..., Add to group..., Disable, Delete (highlighted with a red arrow), Move..., and Properties.

4. Confirm Deletion

- A confirmation prompt will appear:
"Are you sure you want to delete the user Liam Dupont?"
- Click **Yes** to permanently delete the user.



5. See user does not appear anymore



4.2 Delete user account using PowerShell

Delete the user account **Thomas Aviles** using **PowerShell**.

- Find the User's DistinguishedName

Get-ADUser -Identity "t.aviles" -Properties DistinguishedName | Select-Object DistinguishedName

- Now, use the Remove-ADUser command with the full DN:

Remove-ADUser -Identity "CN=Thomas Aviles,OU=IT,DC=vLabs1,DC=com" -Confirm:\$false

- Verify Deletion

Check if the user no longer exists:

Get-ADUser -Filter "SamAccountName -eq 't.aviles'"

```
PS C:\Users\Administrator> Get-ADUser -Identity "t.aviles" -Properties DistinguishedName | Select-Object DistinguishedName
DistinguishedName
-----
CN=Thomas Aviles,OU=IT,DC=vLabs1,DC=com

PS C:\Users\Administrator> Remove-ADUser -Identity "CN=Thomas Aviles,OU=IT,DC=vLabs1,DC=com" -Confirm:$false
PS C:\Users\Administrator>
PS C:\Users\Administrator> Get-ADUser -Filter "SamAccountName -eq 't.aviles'"
PS C:\Users\Administrator>
```

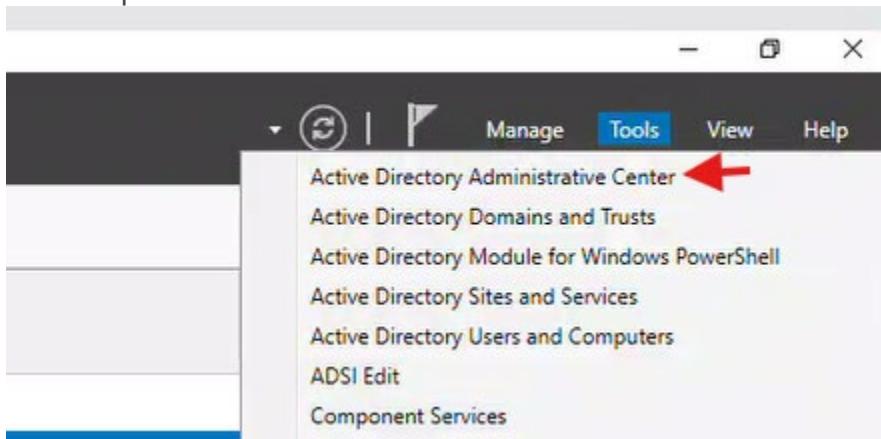
5 Task 4: Move Users Between Organizational Units (OUs)

5.1 Move the user account using Active Directory Administrative Center

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

1. Open Active Directory Administrative Center (ADAC)

- On DC101, click **Tools** → Search for "Active Directory Administrative Center" and open it.



2. Locate Sophie Lambert

- In the left pane, expand **vlabs1.com** → Navigate to the **HR** OU.
- Find and select **Sophie Lambert** (or **s.lambert**).

The screenshot shows the Active Directory Administrative Center interface. The left sidebar navigation pane is open, showing the structure of the domain. The 'vLabs1 (local)' container is expanded, revealing 'Builtin', 'Computers', 'Domain Controllers', 'ForeignSecurityPrincipals', 'HR' (which is selected and highlighted in blue), 'IT', 'Keys', 'LostAndFound', 'Managed Service Account', 'NTDS Quotas', 'Program Data', 'System', 'TPM Devices', 'Users', 'Dynamic Access Control', 'Authentication', and 'Global Search'. The main pane displays the 'HR (2)' results table with two entries:

Name	Type	Description
Sophie Lambert	User	
Emma Morel	User	

3. Move the User to the IT OU

- Right-click on **Sophie Lambert** → Select **Move...**
- In the **Move** dialog, browse to **IT OU** → Click **OK**.

The screenshot shows the Active Directory Administrative Center interface with the 'Move' dialog box open over the user list. The 'Move' dialog has three columns: 'Find in this column' (containing 'vLabs1'), 'Find in this column' (containing 'IT'), and 'Find in this column' (containing 'No results found'). The 'IT' entry is selected in the second column. At the bottom of the dialog are 'OK' and 'Cancel' buttons. Below the dialog, the user details for 'Sophie Lambert' are shown: 'User logon: slambert' and 'Expiration: <Never>'.

4. Verify the Move

- Navigate to **IT OU** and confirm **Sophie Lambert** appears there.

The screenshot shows the Active Directory Administrative Center interface. The left navigation pane lists several OUs: Overview, vlabs1 (local), Builtin, Computers, Domain Controllers, ForeignSecurityPrincipals, HR, and IT. A red arrow points to the 'IT' OU. The main pane displays a table titled 'IT (3)' with three entries:

Name	Type
Sophie Lambert	User
Lucas Bernard	User
Chloe Girard	User

A red arrow points to the row for Sophie Lambert.

5.2 Move the user account using PowerShell

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

1. Find the User to be moved

```
Get-ADUser -Identity "l.bernard" -Properties DistinguishedName | Select-Object  
DistinguishedName
```

2. Run the following command to move user

```
Move-ADObject -Identity "CN=Lucas Bernard,OU=IT,DC=vlabs1,DC=com" -TargetPath  
"OU=HR,DC=vlabs1,DC=com"
```

3. Find the moved User

Get-ADUser -Identity "l.bernard" -Properties DistinguishedName | Select-Object DistinguishedName

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> PS C:\Users\Administrator> Get-ADUser -Identity "l.bernard" -Properties DistinguishedName | Select-Object DistinguishedName
DistinguishedName
-----
CN=Lucas Bernard,OU=IT,DC=vlabs1,DC=com

PS C:\Users\Administrator> Move-ADObject -Identity "CN=Lucas Bernard,OU=IT,DC=vlabs1,DC=com" -TargetPath "OU=HR,DC=vlabs1,DC=com"
PS C:\Users\Administrator> PS C:\Users\Administrator> Get-ADUser -Identity "l.bernard" -Properties DistinguishedName | Select-Object DistinguishedName
DistinguishedName
-----
CN=Lucas Bernard,OU=HR,DC=vlabs1,DC=com

PS C:\Users\Administrator>
```

6 Task 5: Modify Users in IT OU

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

1. First, we need to get Sophie Lambert's full distinguished name (DN):

```
$manager = Get-ADUser "s.lambert" -Properties DistinguishedName | Select-Object -ExpandProperty DistinguishedName
```

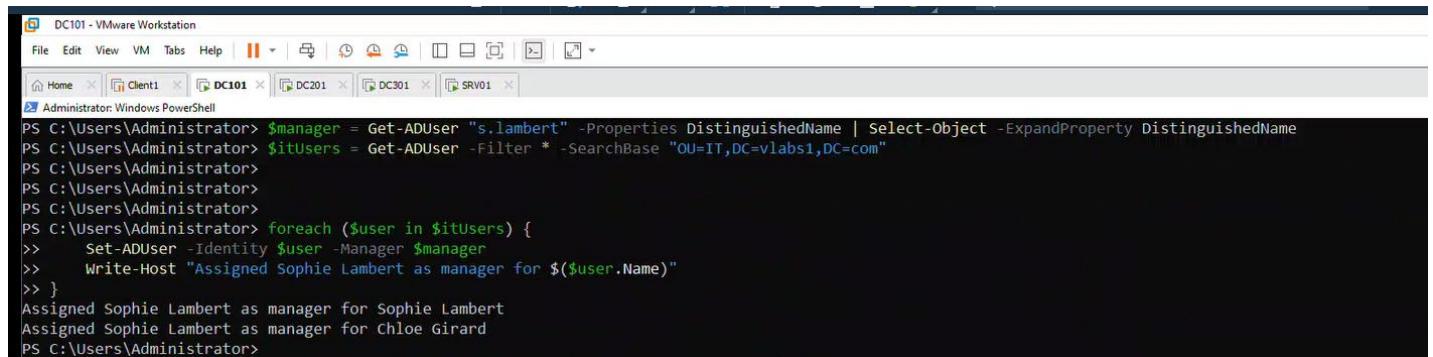
2. Get All Users in the IT OU

```
$itUsers = Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com"
```

3. Assign Sophie Lambert as Manager

Loop through each user and assign Sophie Lambert as their manager:

```
foreach ($user in $itUsers) {
    Set-ADUser -Identity $user -Manager $manager
    Write-Host "Assigned Sophie Lambert as manager for $($user.Name)"
}
```



```
PS C:\Users\Administrator> $manager = Get-ADUser "s.lambert" -Properties DistinguishedName | Select-Object -ExpandProperty DistinguishedName
PS C:\Users\Administrator> $itUsers = Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com"
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> foreach ($user in $itUsers) {
>>     Set-ADUser -Identity $user -Manager $manager
>>     Write-Host "Assigned Sophie Lambert as manager for $($user.Name)"
>> }
Assigned Sophie Lambert as manager for Sophie Lambert
Assigned Sophie Lambert as manager for Chloe Girard
PS C:\Users\Administrator>
```

4. Verify the changes:

```
Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com" -Properties Name,SamAccountName,Manager | Select-Object Name, SamAccountName, @{Name="Manager";Expression={(Get-ADUser $_.Manager -ErrorAction SilentlyContinue).Name}} |
Format-Table -AutoSize
```

```
PS C:\Users\Administrator>
PS C:\Users\Administrator> Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com" -Properties Name, SamAccountName, Manager | Select-Object Name, SamAccountName, @{Name="Manager";Expression={(Get-ADUser $_.Manager -ErrorAction SilentlyContinue).Name}} | Format-Table -AutoSize
Name      SamAccountName Manager
----      -----
Sophie Lambert s.lambert   Sophie Lambert
Chloe Girard  c.girard    Sophie Lambert

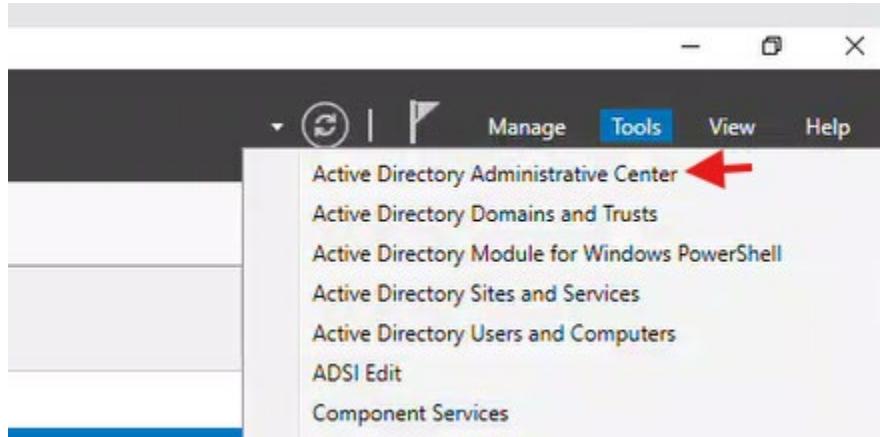
PS C:\Users\Administrator>
```

7 Task 6: Enable and Disable User Accounts

7.1 Disable user account using the Active Directory Administrative Center

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

1. Open ADAC



2. Navigate to HR OU (vlabs1.com → HR).
3. Right-click Emma Morel → Select Disable.

The screenshot shows the Active Directory Administrative Center interface. The left navigation pane shows the 'Active Directory...' tree with the 'vLabs1 (local)' container expanded, and the 'HR' organizational unit selected. The right pane displays the 'HR (1)' results table with one user entry: 'Emma Morel' (User). A context menu is open over this user entry, with a red arrow pointing to the 'Disable' option. Other menu items include 'Reset password...', 'View resultant password settings...', 'Add to group...', and 'Properties'.

4. Verify user is disabled

The screenshot shows the 'DC101 - VMware Workstation' window with multiple tabs open. The active tab is 'Client1'. Inside, the 'User Accounts' section displays a user named 'Emma Morel'. The 'Enabled' checkbox is unchecked, indicating the account is disabled. Other fields visible include 'First name: Emma', 'Middle initials: Morel', 'Last name: Morel', 'User UPN logon: emorel@vlab1.com', and 'User SamAccountName logon: e.morel'. The 'Account' tab is selected, showing account expiration options ('Never' is selected), password options (radio button for 'User must change password at next log on' is selected), and other account settings like 'Protect from accidental deletion'. The 'Organization' tab shows basic organizational details like job title, department, company, and manager, along with contact information like phone numbers and address.

7.2 Enable the user account using PowerShell

Enable the user account **Chloe Girard** using **PowerShell**.

1. Check if **Chloe Girard** is currently disabled:

Get-ADUser "c.girard" -Properties Enabled | Select Name, Enabled

2. Command to Enable the Account:

Enable-ADAccount -Identity "c.girard"

3. Post-Check (Verify Enabled Status)

Get-ADUser "c.girard" -Properties Enabled | Select Name, Enabled

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> Get-ADUser "c.girard" -Properties Enabled | Select Name, Enabled
Name      Enabled
----      -----
Chloe Girard False

PS C:\Users\Administrator> Enable-ADAccount -Identity "c.girard"
PS C:\Users\Administrator> Get-ADUser "c.girard" -Properties Enabled | Select Name, Enabled
Name      Enabled
----      -----
Chloe Girard True

PS C:\Users\Administrator>
```

8 Task 7: Lock and Unlock Users

1. Find all locked-out users using **PowerShell**.

```
Search-ADAccount -LockedOut -UsersOnly | Select-Object Name, SamAccountName, LastBadPasswordAttempt, LockedOut, DistinguishedName | Format-Table -AutoSize
```

```
Get-ADUser -Filter {LockedOut -eq $true} -Properties LockedOut,LastBadPasswordAttempt | Select Name, SamAccountName, LockedOut, LastBadPasswordAttempt, DistinguishedName
```

2. Try to unlock the user account **Chloe Girard** using **PowerShell**. *Note: His account is not locked. It is just to practice this command.*

```
Unlock-ADAccount -Identity "c.girard" -Verbose
```

3. Find all locked-out users using **PowerShell**.

```
Search-ADAccount -LockedOut -UsersOnly | Select-Object Name, SamAccountName, LastBadPasswordAttempt, LockedOut, DistinguishedName | Format-Table -AutoSize
```

```
Get-ADUser -Filter {LockedOut -eq $true} -Properties LockedOut,LastBadPasswordAttempt | Select Name, SamAccountName, LockedOut, LastBadPasswordAttempt, DistinguishedName
```

```
PS C:\Users\Administrator> Search-ADAccount -LockedOut -UsersOnly | Select-Object Name, SamAccountName, LastBadPasswordAttempt, LockedOut, DistinguishedName | Format-Table -AutoSize
PS C:\Users\Administrator>
PS C:\Users\Administrator> Search-ADAccount -LockedOut -UsersOnly
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> Unlock-ADAccount -Identity "c.girard" -Verbose
VERBOSE: Performing the operation "set" on target "CN=Chloe Girard,OU=IT,DC=vlabs1,DC=com".
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> Search-ADAccount -LockedOut -UsersOnly | Select-Object Name, SamAccountName, LastBadPasswordAttempt, LockedOut, DistinguishedName | Format-Table -AutoSize
PS C:\Users\Administrator> Search-ADAccount -LockedOut -UsersOnly
PS C:\Users\Administrator>
```

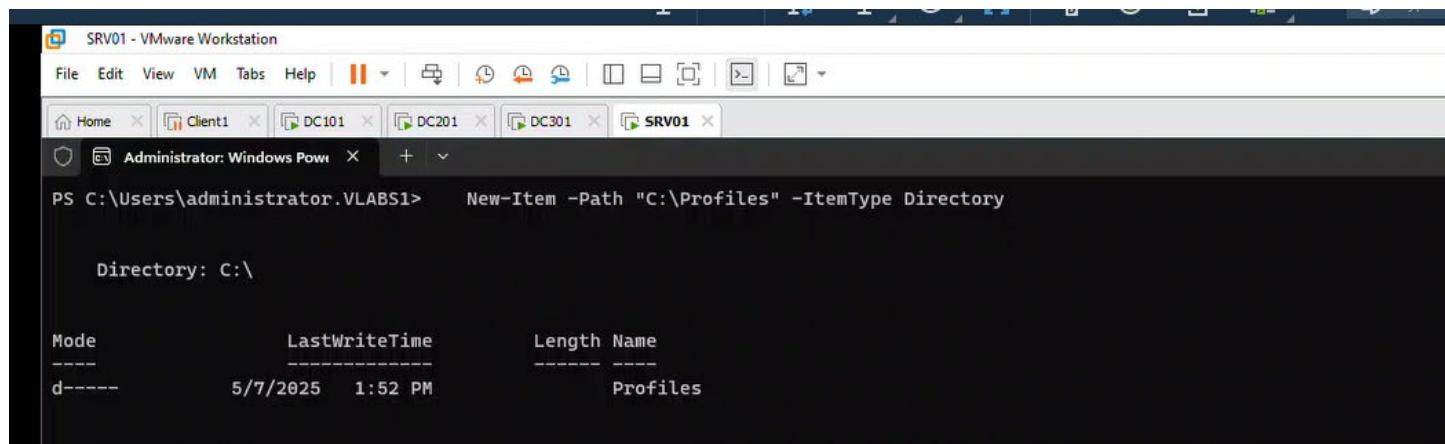
9 Task 8: Configure Roaming Profiles on SRV01

9.1 Create a shared folder C:\Profiles on SRV01.

On SRV01 (Windows Server 2025):

1. Create the profiles folder:

New-Item -Path "C:\Profiles" -ItemType Directory

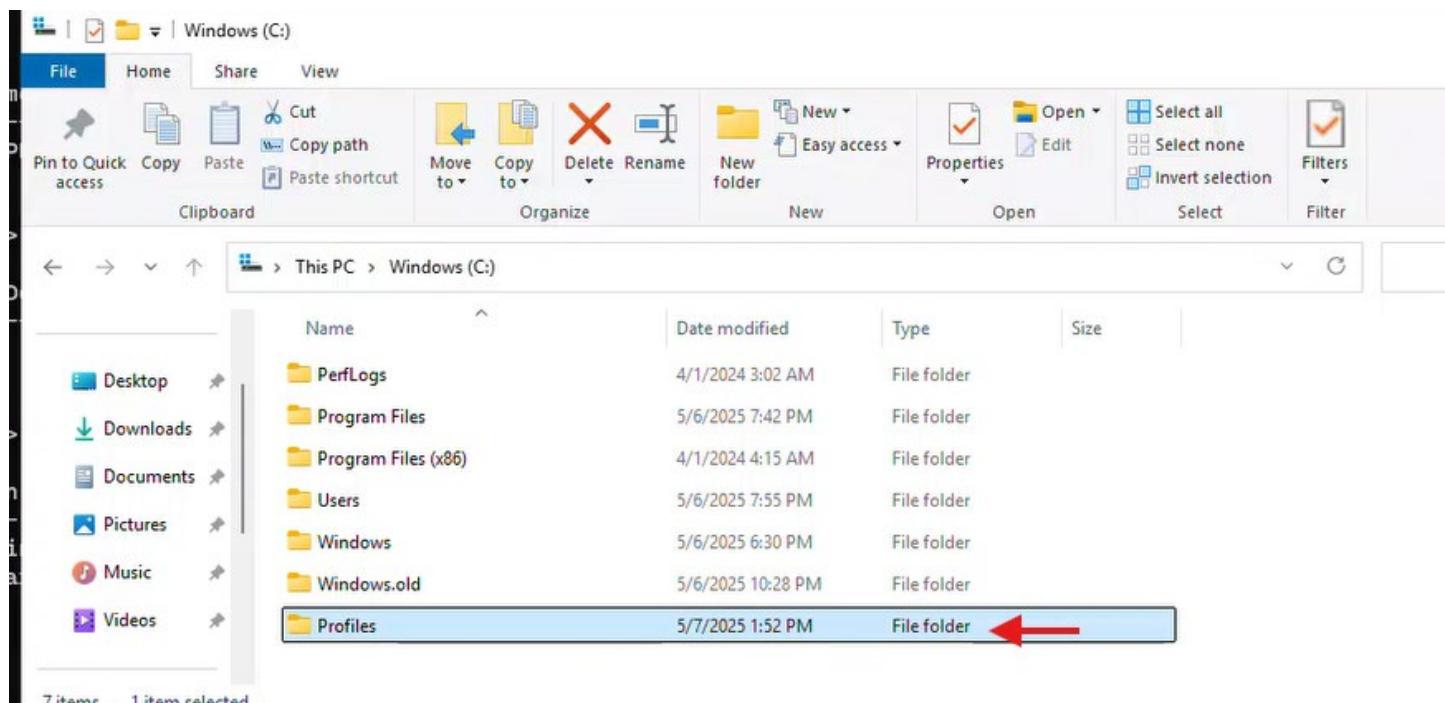


```
PS C:\Users\administrator.VLABS1> New-Item -Path "C:\Profiles" -ItemType Directory

Directory: C:\

Mode                LastWriteTime     Length Name
----                <-----          ----- 
d-----        5/7/2025 1:52 PM          Profiles
```

2. Locate the Folder:



9.2 Share the folder with appropriate permissions

9.2.1 Create and share the profile on a File Server

```
New-SmbShare -Name "Profiles$" -Path "C:\Profiles" -FullAccess "Authenticated Users", "Administrators" -ChangeAccess "Domain Users"
```

PS C:\Users\administrator.VLABS1> New-SmbShare -Name "Profiles\$" -Path "C:\Profiles" -FullAccess "Authenticated Users", "Administrators" -ChangeAccess "Domain Users"			
Name	ScopeName	Path	Description
Profiles\$ *		C:\Profiles	

9.2.2 Verify folder permissions

9.2.2.1 Via powershell

Check Existing SMB Shares

```
Get-SmbShare | Format-Table Name, Path, Description
```

Verify permissions on the share

```
Get-SmbShareAccess -Name "Profiles$"
```

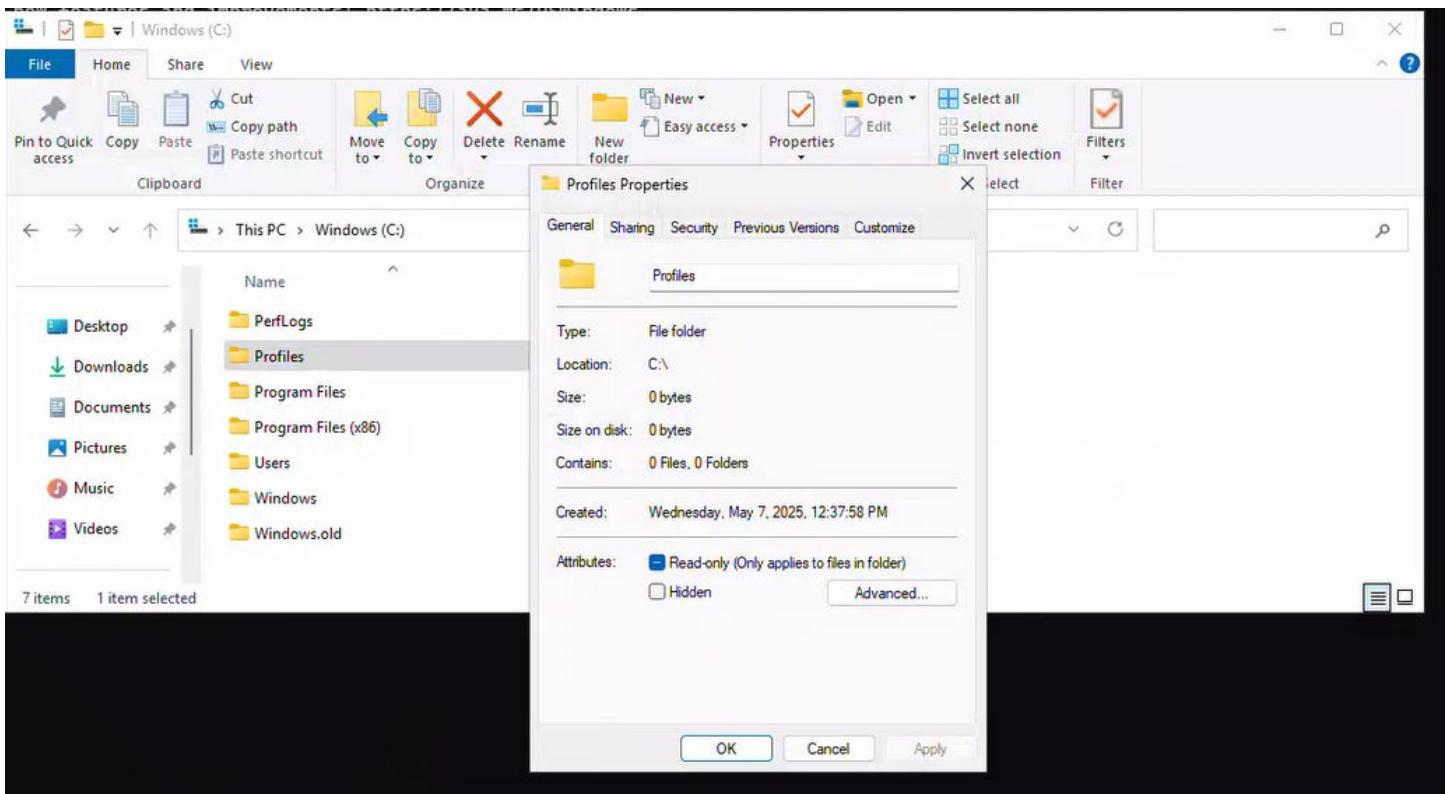
PS C:\Users\administrator.VLABS1> Get-SmbShare Format-Table Name, Path, Description				
Name	Path	Description	AccessControlType	AccessRight
ADMIN\$	C:\WINDOWS	Remote Admin		
C\$	C:\	Default share		
IPC\$		Remote IPC		
Profiles\$	C:\Profiles			

PS C:\Users\administrator.VLABS1> Get-SmbShareAccess -Name "Profiles\$"				
Name	ScopeName	AccountName	AccessControlType	AccessRight
Profiles\$ *		NT AUTHORITY\Authenticated Users	Allow	Full
Profiles\$ *		BUILTIN\Administrators	Allow	Full
Profiles\$ *		VLABS1\Domain Users	Allow	Change


```
PS C:\Users\administrator.VLABS1> |
```

9.2.2.2 Via GUI

1. Right-click the folder → Properties.

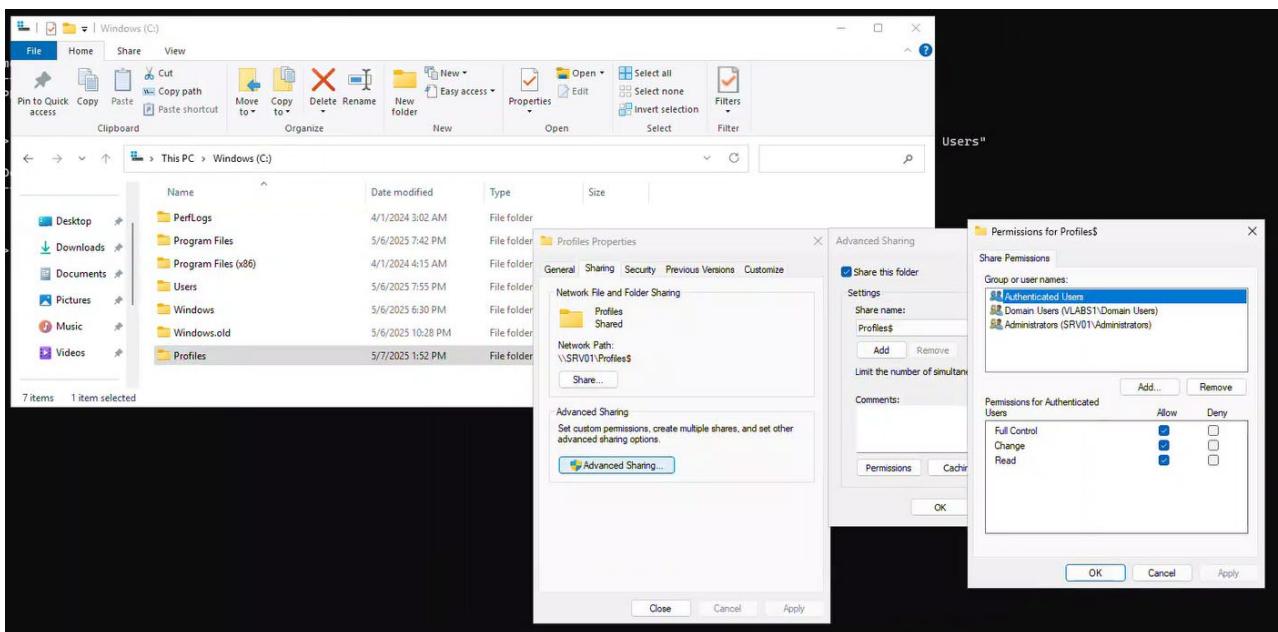


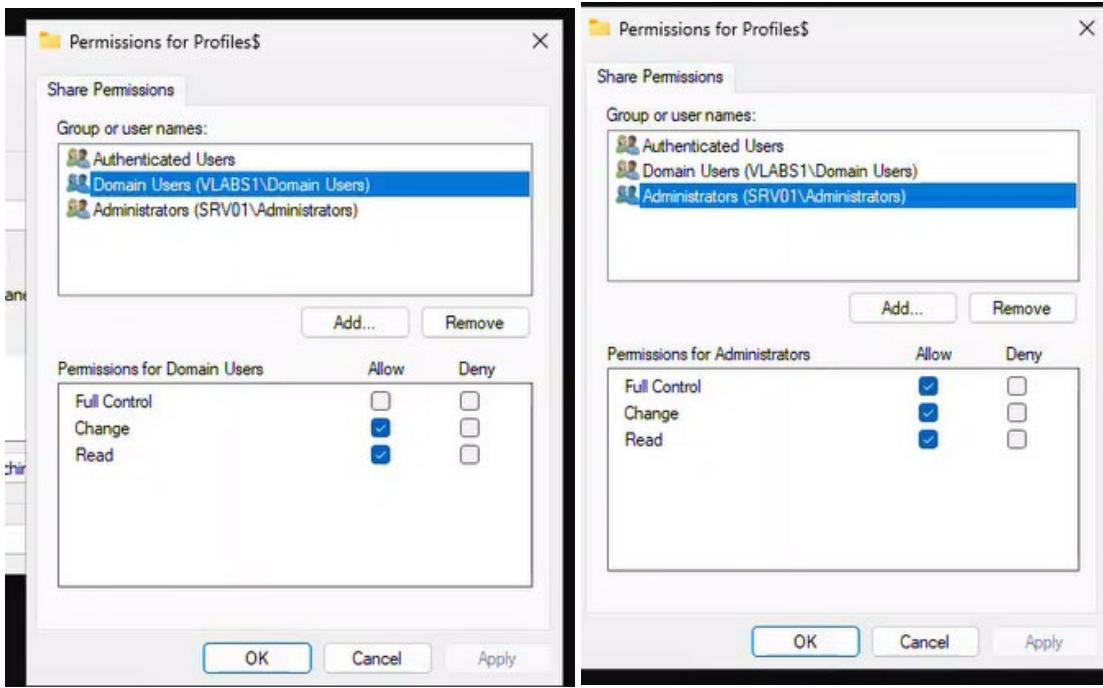
2. Enable Sharing

- Go to the Sharing tab → Click Advanced Sharing.

3. Click Permissions, see:

- Authenticated Users → Full Control.
- Domain Users → Change.
- Administrators → Full Control.





9.3 Configure NTFS and share permissions for roaming profiles

9.3.1 Configure NTFS permissions for the Profiles folder

```
icacls "C:\Profiles" /grant "Authenticated Users:(OI)(CI)(M)" "Administrators:(OI)(CI)(F)"
"SYSTEM:(OI)(CI)(F)"
```

```
>>
PS C:\Users\administrator.VLABS1> icacls "C:\Profiles" /grant "Authenticated Users:(OI)(CI)(M)" "Administrators:(OI)(CI)(F)" "SYSTEM:(OI)(CI)(F)"
processed file: C:\Profiles
Successfully processed 1 files; Failed processing 0 files
PS C:\Users\administrator.VLABS1>
```

This command:

1. Grants Modify permissions (M) to Authenticated Users with object inherit (OI) and container inherit (CI)
2. Grants Full control (F) to Administrators with inheritance
3. Grants Full control (F) to SYSTEM with inheritance

9.3.2 Verify

9.3.2.1 Powershell

```
icacls "C:\Profiles"
```

```

PS C:\Users\administrator.VLABS1>
PS C:\Users\administrator.VLABS1> icacls "C:\Profiles"
C:\Profiles BUILTIN\Administrators:(F)
    NT AUTHORITY\SYSTEM:(OI)(CI)(F)
    BUILTIN\Administrators:(OI)(CI)(F)
    NT AUTHORITY\Authenticated Users:(OI)(CI)(M)
    NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)
    BUILTIN\Administrators:(I)(OI)(CI)(F)
    BUILTIN\Users:(I)(OI)(CI)(RX)
    BUILTIN\Users:(I)(CI)(AD)
    BUILTIN\Users:(I)(CI)(WD)
    CREATOR OWNER:(I)(OI)(CI)(IO)(F)

```

Successfully processed 1 files; Failed processing 0 files

```
PS C:\Users\administrator.VLABS1> |
```

- F) = **Full Control**
- (M) = **Modify**
- (RX) = **Read & Execute**
- (AD) = **Append Data** (ability to add files but not modify existing ones)
- (WD) = **Write Data** (ability to create files)
- (OI) = **Object Inherit** (applies to files inside the folder)
- (CI) = **Container Inherit** (applies to subfolders)
- (I) = **Inherited** (this permission was inherited from a parent folder)
- (IO) = **Inherit Only** (applies only to child objects, not the folder itself)

Get-Acl "C:\Profiles" | Format-List

```

PS C:\Users\administrator.VLABS1> Get-Acl "C:\Profiles" | Format-List

Path   : Microsoft.PowerShell.Core\FileSystem::C:\Profiles
Owner  : BUILTIN\Administrators
Group  : VLABS1\Domain Users
Access : NT AUTHORITY\Authenticated Users Allow Modify, Synchronize
          NT AUTHORITY\SYSTEM Allow FullControl
          BUILTIN\Administrators Allow FullControl
          NT AUTHORITY\SYSTEM Allow FullControl
          BUILTIN\Administrators Allow FullControl
          BUILTIN\Users Allow ReadAndExecute, Synchronize
          BUILTIN\Users Allow AppendData
          BUILTIN\Users Allow CreateFiles
          CREATOR OWNER Allow 268435456
Audit  :
Sddl   : O:BAG:DUD:AI(A;OICI;0x1301bf;;;AU)(A;OICI;FA;;;SY)(A;OICI;FA;;;BA)(A;OICIID;FA;;;SY)(A;OICIID;FA;;;BA)(A;OICIID;0x1200a9;;;BU)(A;CIID;LC;;;BU)(A;CIID;DC;;;BU)(A;OICII OID;GA;;;CO)

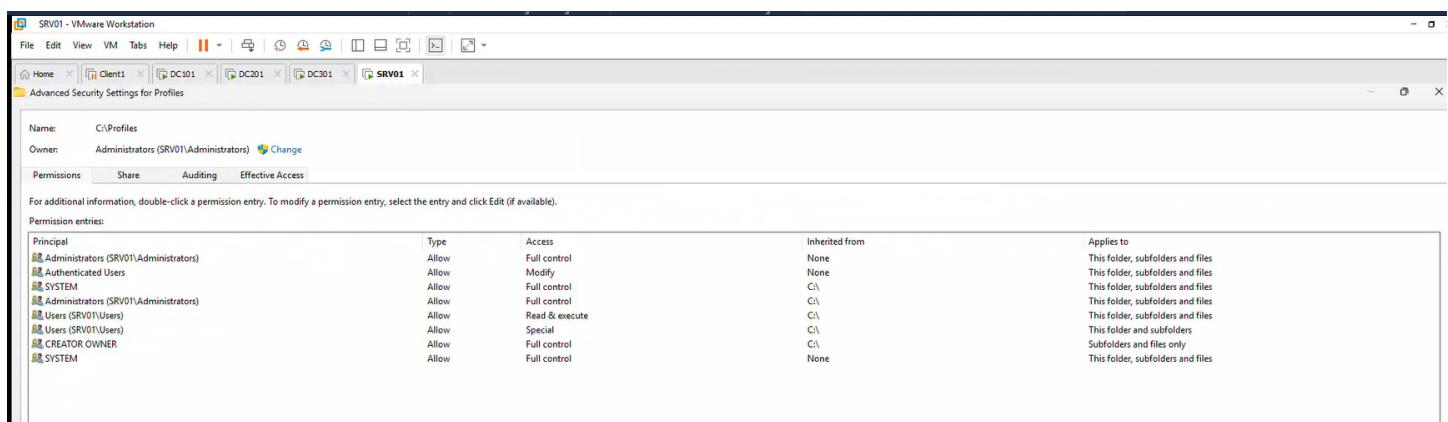
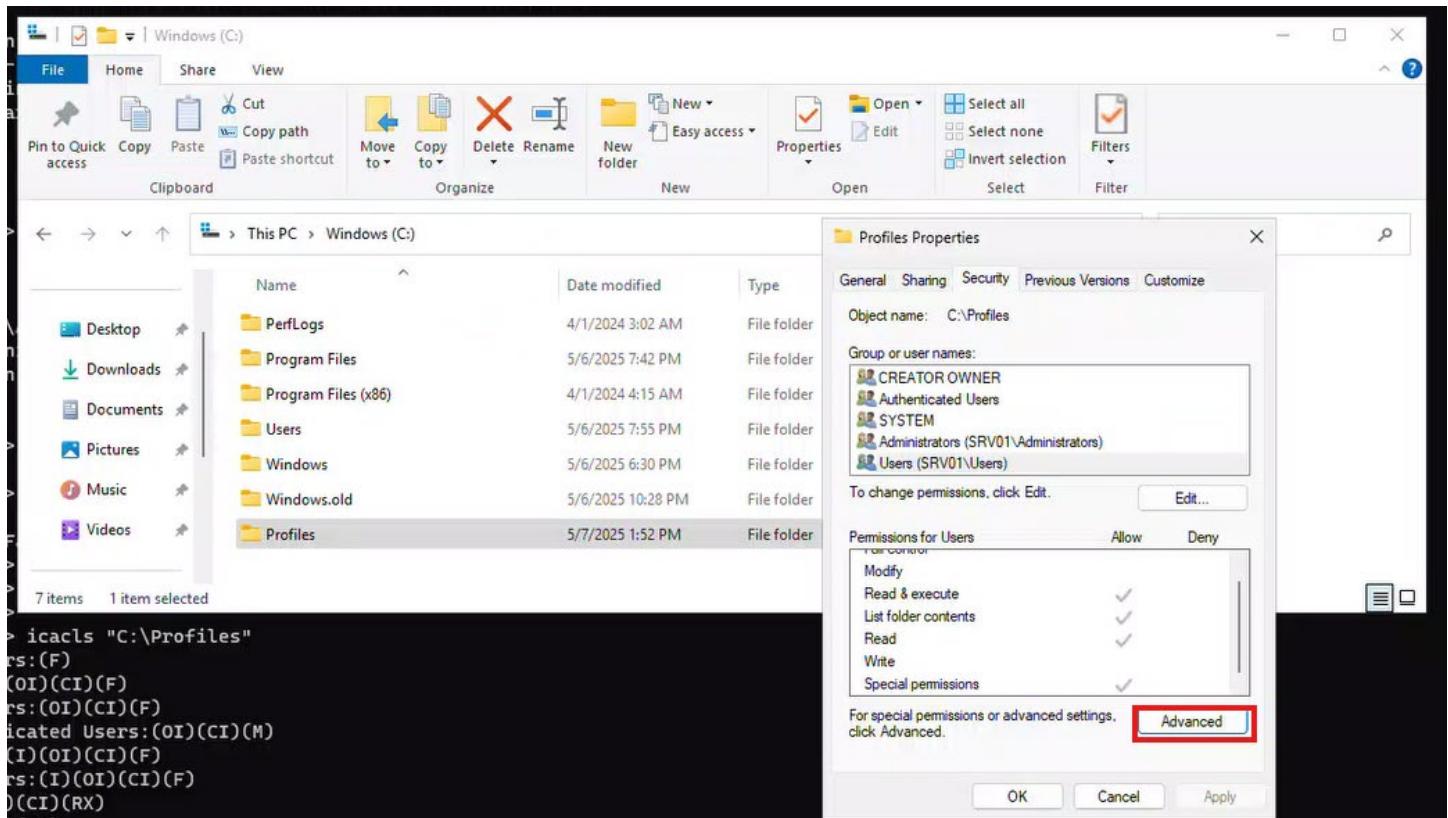
PS C:\Users\administrator.VLABS1>
PS C:\Users\administrator.VLABS1>
```

- **Owner:** BUILTIN\Administrators (who owns the folder).
- **Group:** VLABS1\Domain Users (the security group assigned to the folder).
- **Access Entries:**
 - Modify, Synchronize → **Authenticated Users**
 - FullControl → **SYSTEM & Administrators**
 - ReadAndExecute → **Domain Users**
 - AppendData → **Domain Users**

- CreateFiles → **Domain Users**
- 268435456 → **CREATOR OWNER** (Full Control in numeric form).
- **SDDL:** A security descriptor string (binary representation of permissions).

9.3.2.2 GUI

Right-click the folder → Properties → Advanced → Permissions / Share



SRV01 - VMware Workstation

File Edit View VM Tabs Help | □ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞ ⊞

Home Client1 DC101 DC201 DC301 SRV01 Advanced Security Settings for Profiles

Name: C:\Profiles
Owner: Administrators (SRV01\Administrators) Change

Permissions Share Auditing Effective Access

To modify share permissions, use the Share Wizard from the network location for this share.
Network location for this share: \\SRV01\Profiles\$

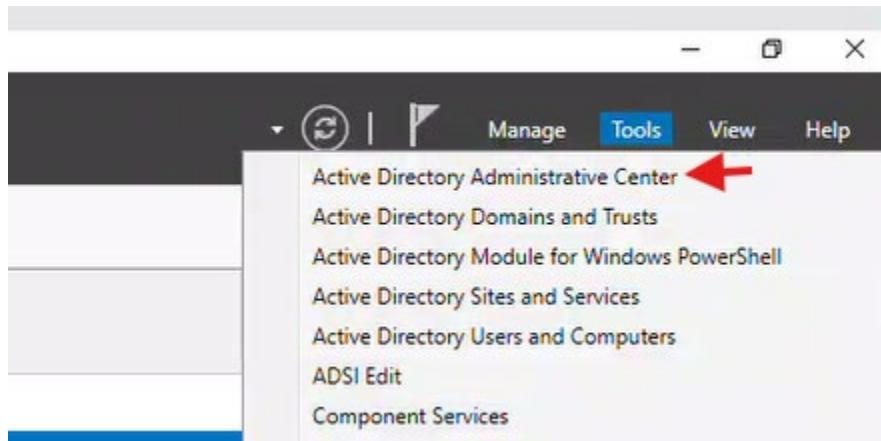
Permission entries:

Principal	Type	Access
Authenticated Users	Allow	Full Control
Administrators (SRV01\Administrators)	Allow	Full Control
Domain Users (VLABS1\Domain Users)	Allow	Change

9.4 Assign a roaming profile path using the Active Directory Administrative Center.

9.4.1 Assign Roaming Profile for Emma Morel (AD Administrative Center)

1. Open ADAC



2. Navigate to HR OU (vlabs1.com → HR).
3. Right-click Emma Morel → Select Properties.

The screenshot shows the ADUC interface with the title bar 'DC101 - VMware Workstation'. The tabs at the top include Home, Client1, DC101, DC201, DC301, and SRV01. The main window displays the properties of the user 'Emma Morel (Disabled)'. The left sidebar lists account-related tabs: Account, Organization, Member Of, Password Settings, Profile, Policy, Silo, and Extensions. The 'Account' tab is selected, showing fields for First name (Emma), Middle initials (Morel), Last name (Morel), Full name (Emma Morel), User UPN logon (e.morel), User SamAccountName (vlabs1), and Log on hours... and Log on to... buttons. Below the account section is the 'Organization' section with a single field for Display name (Emma Morel). A note at the bottom of the account section says 'Protect from accidental deletion'.

- Set the Roaming Profile Path. Go to the Profile tab.

Under Profile path, enter:

\SRV01\Profiles\$\%username%

The screenshot shows the 'Profile' tab of the ADUC interface. The 'Profile path' field is populated with the value '\SRV01\Profiles\$\%username%'. Below it, the 'Home folder' section has two options: 'Local path:' (radio button selected) and 'Connect' (checkbox). To the right, there is a 'Log on script:' field and a 'To:' dropdown. At the bottom of the tab, there is an 'Authentication Policy' section.

- Click OK to save.
- Since Emma Morel's account was disabled, enable it

The screenshot shows the ADUC interface with the title bar 'DC101 - VMware Workstation'. The tabs at the top include Home, Client1, DC101, DC201, DC301, and SRV01. The main window displays the users under the 'HR' organizational unit. A context menu is open over the user 'Emma Morel', listing options: Reset password..., View resultant password settings..., Add to group..., Enable (with a red arrow pointing to it), Delete, Move..., and Properties.

- Verify Account is Roaming profile

Get-ADUser -Identity "e.morel" -Properties ProfilePath | Select-Object Name, ProfilePath

```
PS C:\Users\Administrator> Get-ADUser -Identity "e.morel" -Properties ProfilePath | Select-Object Name, ProfilePath

Name      ProfilePath
----- 
Emma Morel \\SRV01\Profiles$\%username%
```

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

1. Verify Lucas Bernard's SamAccountName

Since we need the exact username (SamAccountName), run:

Get-ADUser -Filter "Name -like 'Lucas*'" | Select-Object Name, SamAccountName

2. Assign the Roaming Profile Path

Use the confirmed SamAccountName to set the profile path:

Set-ADUser -Identity "l.bernard" -ProfilePath "\\SRV01\Profiles\$\%username%"

3. Verify the Configuration

Check if the path was set correctly:

Get-ADUser -Identity "l.bernard" -Properties ProfilePath | Select-Object Name, ProfilePath

```
PS C:\Users\Administrator> Get-ADUser -Filter "Name -like 'Lucas*'" | Select-Object Name, SamAccountName

Name      SamAccountName
----- 
Lucas Bernard l.bernard

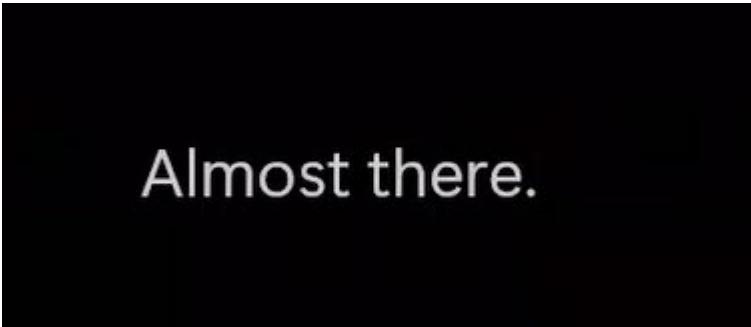
PS C:\Users\Administrator> Set-ADUser -Identity "l.bernard" -ProfilePath "\\SRV01\Profiles$\%username%"
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> Get-ADUser -Identity "l.bernard" -Properties ProfilePath | Select-Object Name, ProfilePath

Name      ProfilePath
----- 
Lucas Bernard \\SRV01\Profiles$\%username%

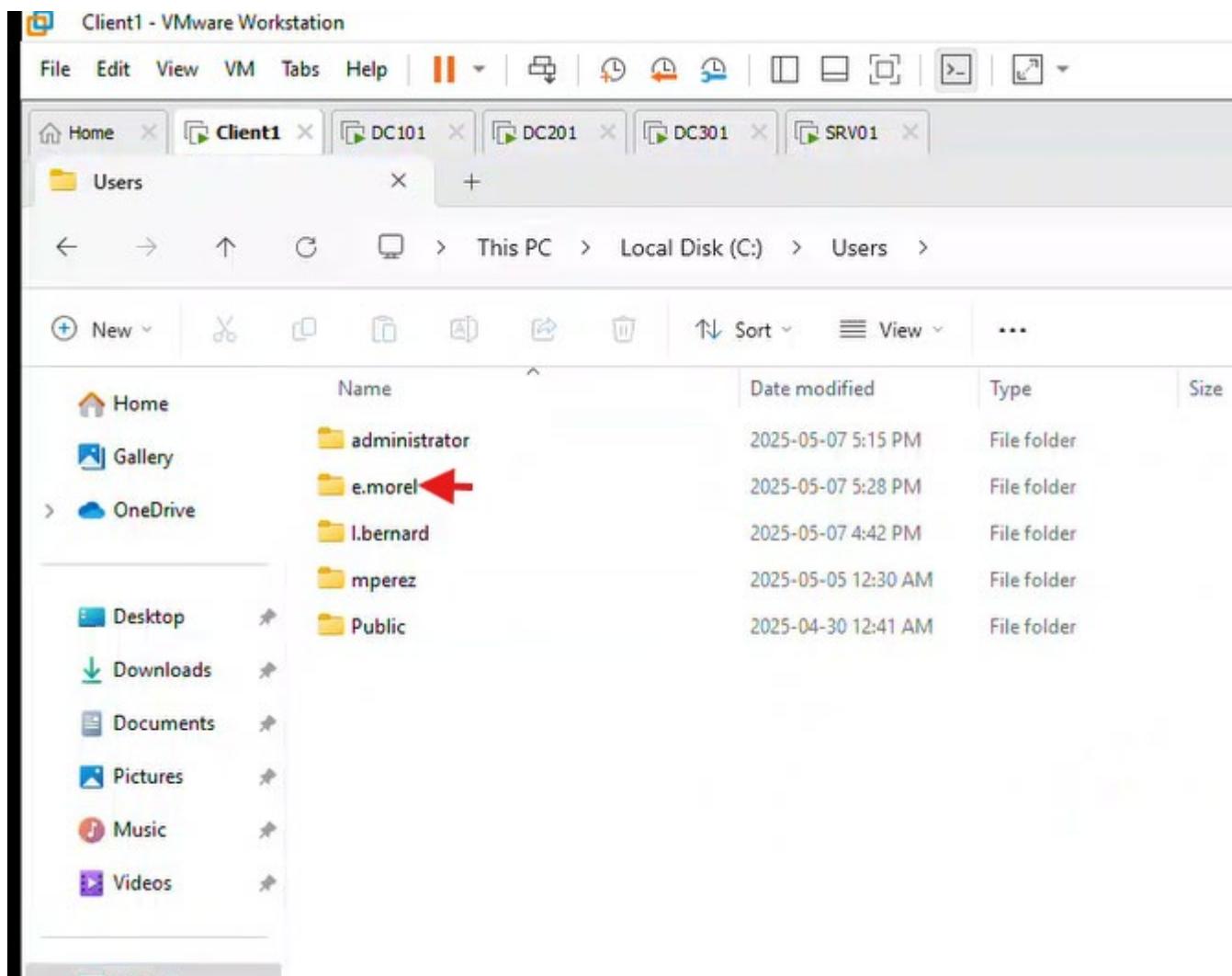
PS C:\Users\Administrator>
```

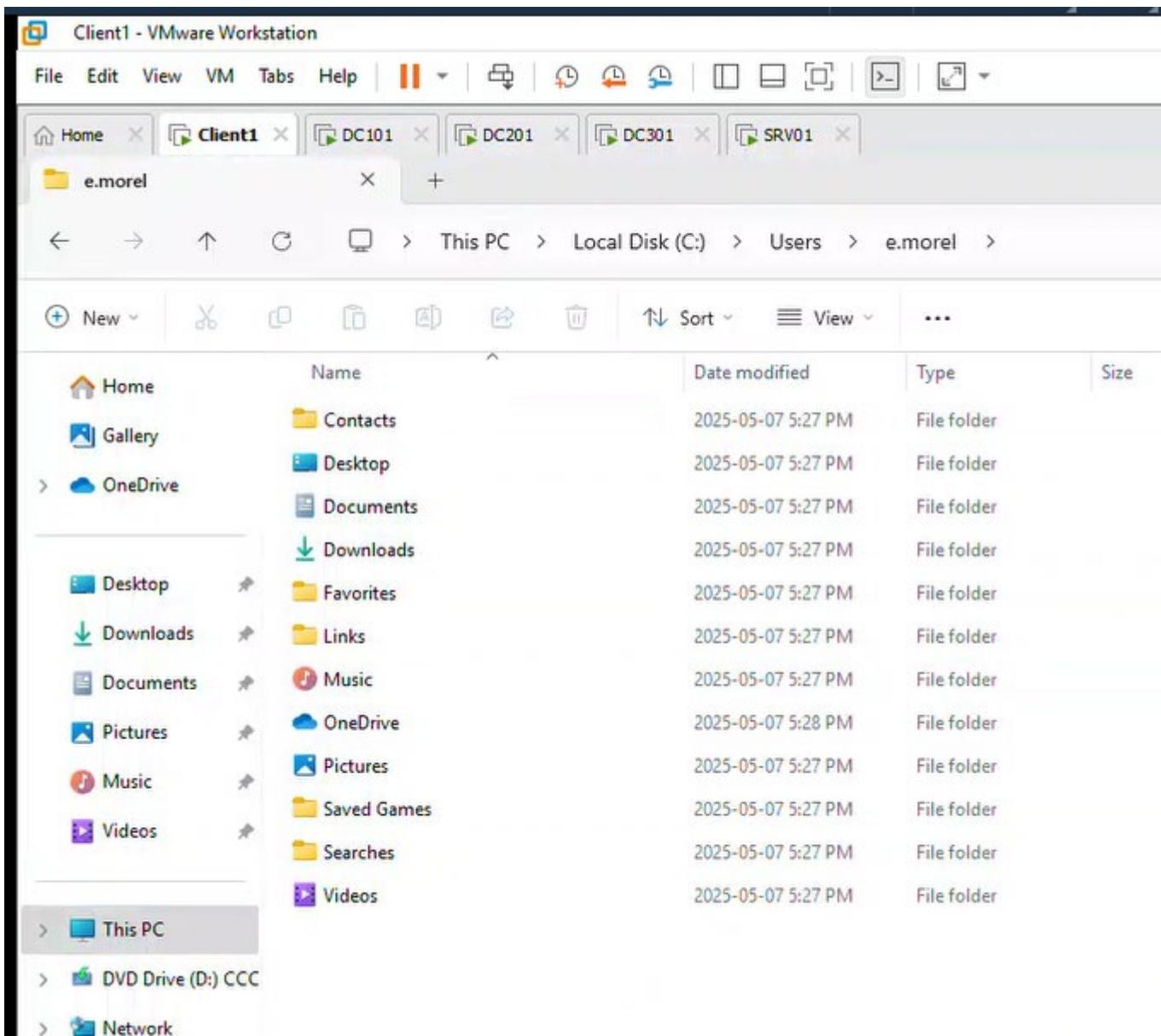
9.6 Log in from **Client1** and verify the profile is stored in
\SRV01\Profiles\$\%username%.

Emma



Almost there.





Lucas



Other user

VLABS1\l.bernard

••••••••

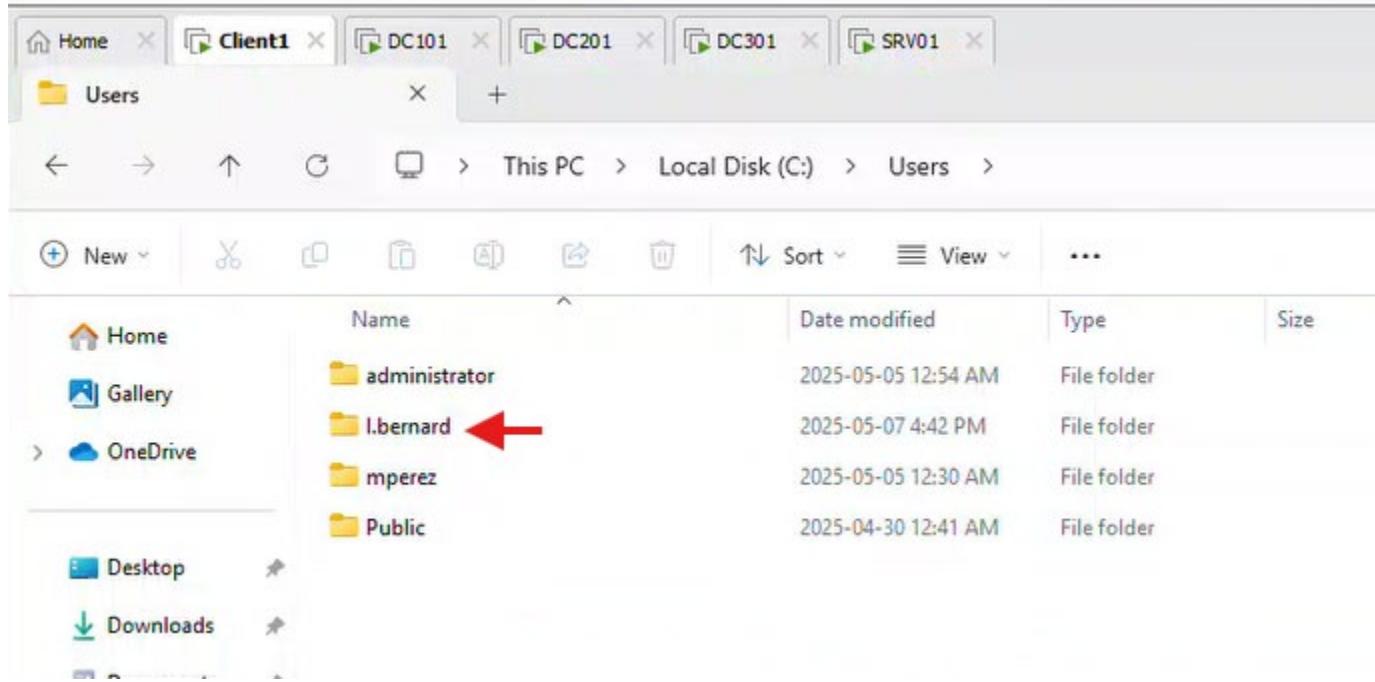
ⓘ →

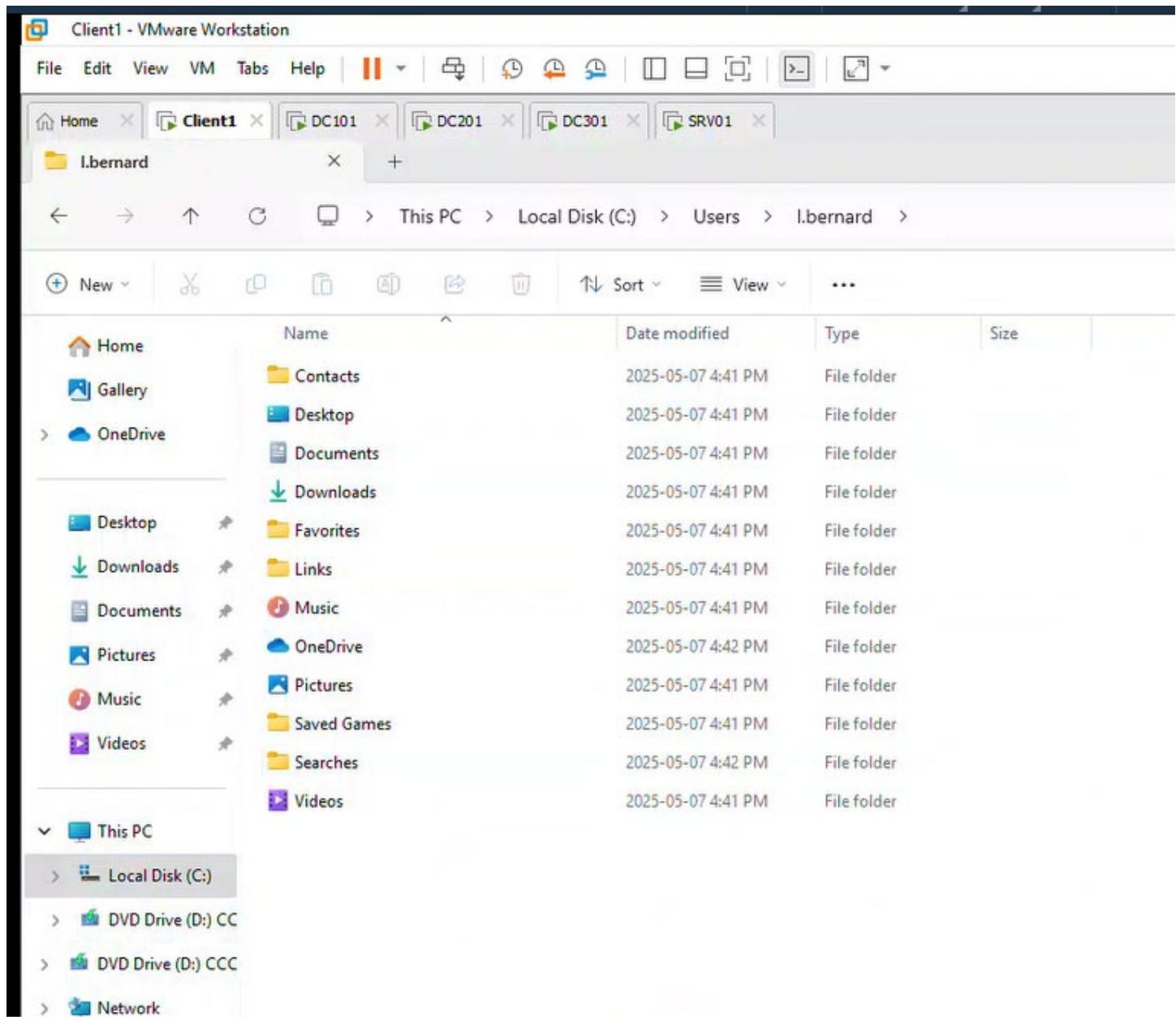
Sign in to: VLABS1

How do I sign in to another domain?

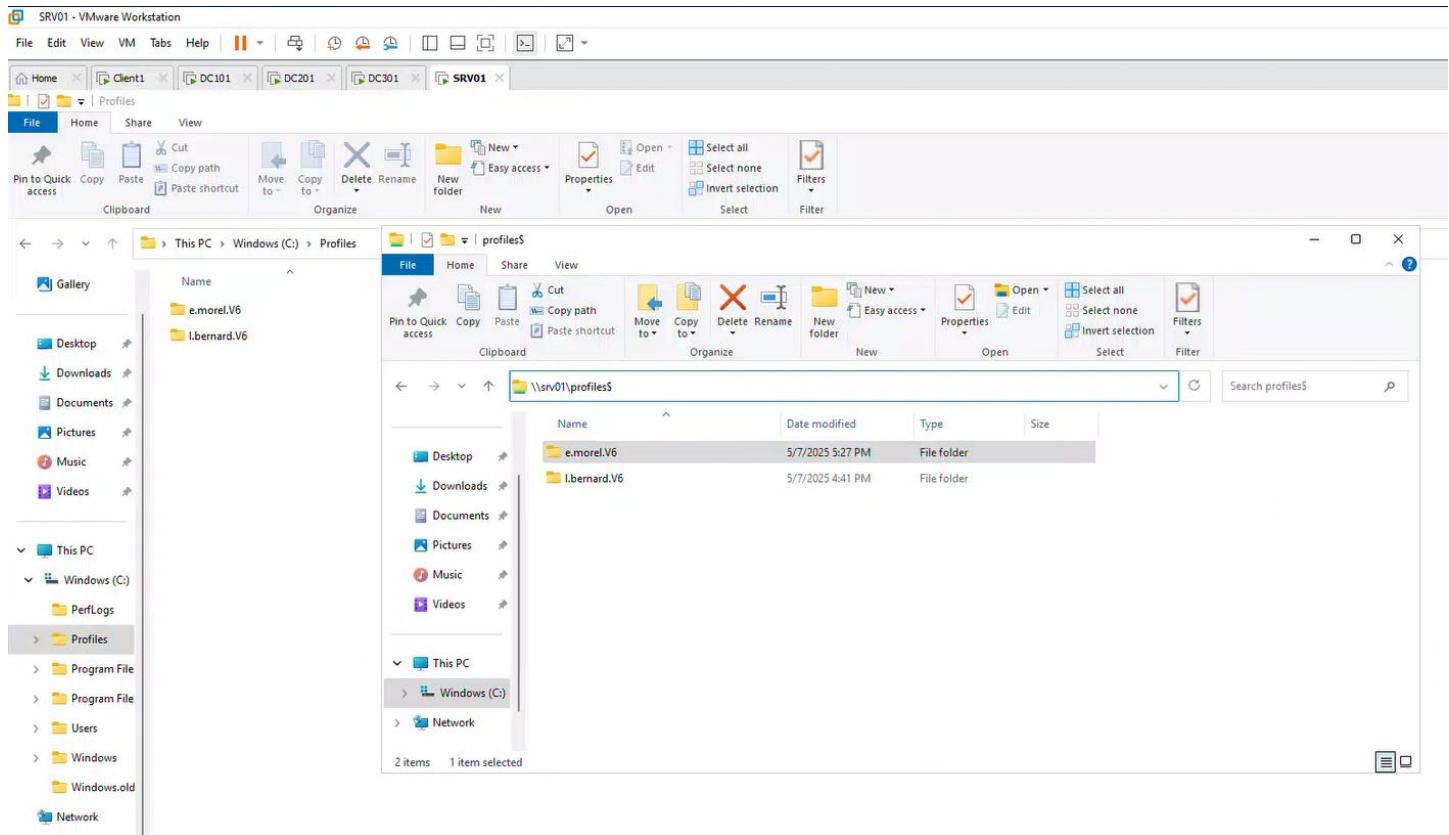
This will take time

Getting things ready for you.





Verify profile is stored in [\\SRV01\Profiles\\$\%username%](\\SRV01\Profiles$\%username%).



10 Task 9: Create a Template User for HR

10.1 Create template

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

- o Full Name: **HR Template**
- o sAMAccountName: **hr.template**
- o Job Title: **HR Assistant**
- o Department: **HR**
- o Email: **hr.template@vlabs.com**
- o Account Status: **Disabled**
- o Description: **Template user for HR new hires.**
- o Profile: **\SRVX\Profiles\$\%username%**

```
New-ADUser`  
-Name "HR Template" `  
-SamAccountName "hr.template" `  
-DisplayName "HR Template" `  
-Title "HR Assistant" `  
-Department "HR" `  
-EmailAddress "hr.template@vlabs1.com" `  
-UserPrincipalName "hr.template@vlabs1.com" `  
-Enabled $false `  
-Description "Template user for HR new hires." `  
-ProfilePath "\SRV01\Profiles$\%username%" `  
-Path "OU=HR,DC=vlabs1,DC=com"
```

```
PS C:\Users\Administrator> New-ADUser`  
->     -Name "HR Template" `  
->     -SamAccountName "hr.template" `  
->     -DisplayName "HR Template" `  
->     -Title "HR Assistant" `  
->     -Department "HR" `  
->     -EmailAddress "hr.template@vlabs1.com" `  
->     -UserPrincipalName "hr.template@vlabs1.com" `  
->     -Enabled $false `  
->     -Description "Template user for HR new hires." `  
->     -ProfilePath "\SRV01\Profiles$\%username%" `  
->     -Path "OU=HR,DC=vlabs1,DC=com"  
PS C:\Users\Administrator> ■
```

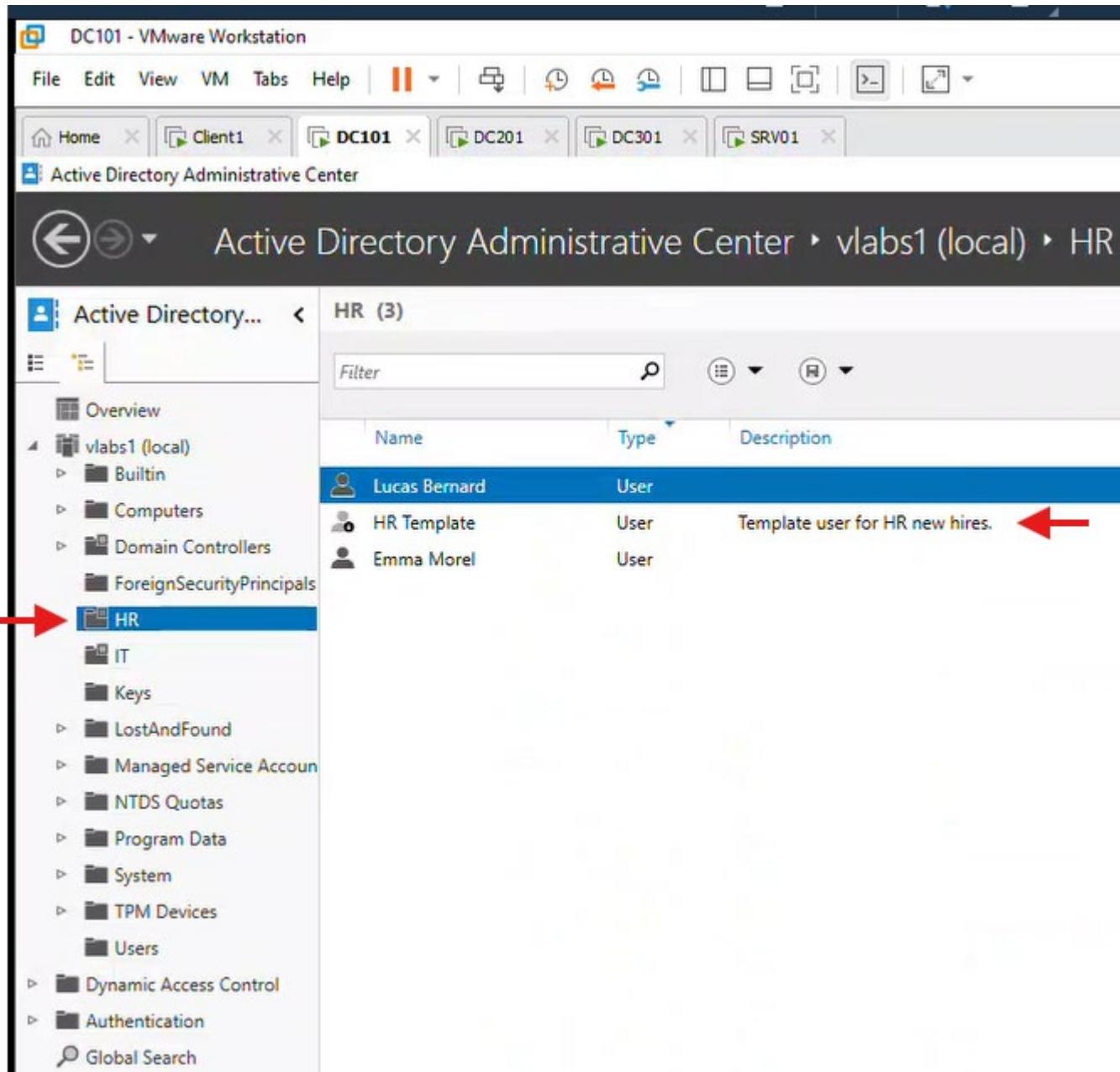
10.2 Verify Template

```
Get-ADUser -Identity "hr.template" -Properties * |  
Select-Object Name, SamAccountName, Enabled, ProfilePath, EmailAddress, UserPrincipalName
```

```
PS C:\Users\Administrator> Get-ADUser -Identity "hr.template" -Properties * |  
>>     Select-Object Name, SamAccountName, Enabled, ProfilePath, EmailAddress, UserPrincipalName
```

```
Name          : HR Template  
SamAccountName : hr.template  
Enabled        : False  
ProfilePath    : \\SRV01\Profiles$\%username%  
EmailAddress   : hr.template@vlabs1.com  
UserPrincipalName : hr.template@vlabs1.com
```

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



The screenshot shows the Active Directory Users & Computers (ADUC) interface. A user account named "HR Template" is selected. The "Account" tab is active, showing the following details:

- First name: HR Template
- Middle initials:
- Last name:
- Full name: HR Template
- User UPN: hr.template@vlabs1.com
- User SamAccountName: vlabs1
- Account expires: Never (radio button selected)
- Protect from accidental deletion:
- Log on hours... Log on to...

The "Organization" tab displays the following information:

- Display name: HR Template
- Office:
- E-mail: hr.template@vlabs1.com
- Web page:
- Job title: HR Assistant
- Department: HR
- Company:
- Manager:
- Direct reports:
- Other web pages...
- Phone numbers:
 - Main:
 - Home:
 - Mobile:
 - Fax:
 - Pager:
 - IP Phone:
- Address:
 - Street:
 - City:
 - State/Province:
 - Zip/Postal code:
- Description: Template user for HR new hires.
- Other phone numbers...

The "Member Of" tab shows the user is a member of the "Domain Users" and "Administrators" groups.

The screenshot shows the properties of the 'HR Template (Disabled)' object in Active Directory. The 'Member Of' tab is active, displaying the user's group membership. The 'Domain Users' group is listed under 'Active-Directory Domain Services Folder'. Other tabs like 'Account', 'Organization', and 'Profile' are visible on the left.

DC101 - VMware Workstation

File Edit View VM Tabs Help

Home Client1 DC101 DC01 DC301 SRV01

HR Template (Disabled)

Account Organization Member Of Password Settings Profile Policy Silo Extensions

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.

Authentication Policy Silo

Assign Authentication Policy Silo

Authentication Policy Silo:

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

Extensions

Remote Desktop Services Profile Security Dial-in
Published Certificates Password Replication Attribute Editor
COM+ Environment Sessions Remote control

This user is a member of the following COM+ partition set:
Partition Set
(none)

Activate Windows
Go to Settings to activate Windows.

OK Cancel

More Information

The screenshot shows the 'HR Template (Disabled)' object in the Active Directory Users and Computers console. The left sidebar lists several tabs: Account, Organization, Member Of, Password Settings, Profile, Policy, Silo, and Extensions. The 'Silos' tab is selected. The main pane contains three sections: 'Authentication Policy', 'Authentication Policy Silo', and 'Extensions'. The 'Authentication Policy' section has a note: 'No authentication policies were found. Create at least one authentication policy prior to assigning an authentication policy to a principal.' The 'Authentication Policy Silo' section has a note: 'No authentication policy silos were found. Create at least one authentication policy silo prior to assigning an authentication policy silo to a principal.' The 'Extensions' section shows a 'Partition Set' dropdown menu which is currently empty. A watermark for 'Activate Windows' is visible in the bottom right corner of the main pane.

11Task 10: Verify New Users from DC201 (RODC Core Server)

Requirements:

1. Use **PowerShell** on **DC201** to verify the newly created users exist and are replicated correctly in the **RODC**.
2. Ensure the users from **HR and IT OUs** are visible.
3. Confirm that disabled or deleted users are reflected on DC201.

To verify that users are properly replicated to your Read-Only Domain Controller (DC201), follow these steps:

11.1 Connect to DC201 and Verify Users

First, establish a PowerShell session with DC201:

Enter-PSSession -ComputerName DC201

```
Administrator: C:\WINDOWS\system32\cmd.exe
PS C:\Users\Administrator.VLabs1> Enter-PSSession -ComputerName DC201
[DC201] PS C:\Users\Administrator.VLabs1\Documents>
```

11.2 Check Replication Status

Verify that replication is working properly:

```
repadmin /showrepl
```

Note - Not all printout is shown

```
[DC201]: PS C:\Users\Administrator.VLABS1\Documents> repadmin /showrepl
```

```
Readmin: running command /showrepl against full DC localhost
```

```
Default-First-Site-Name\DC201
```

```
DSA Options: IS_GC DISABLE_OUTBOUND_REPL IS_RODC
```

```
Site Options: (none)
```

```
DSA object GUID: baee489a-95f5-48de-a56d-9b7dadfb57fd
```

```
DSA invocationID: bcc25508-7de9-42e0-b28f-062e6682cf71
```

```
===== INBOUND NEIGHBORS =====
```

```
DC=lab1,DC=vlabs1,DC=com
```

```
Default-First-Site-Name\DC101 via RPC
```

```
DSA object GUID: be029329-3ebb-4c85-b57e-d1a1e5fe4e87
```

```
Last attempt @ 2025-05-08 00:56:24 was successful.
```

```
Default-First-Site-Name\DC301 via RPC
```

```
DSA object GUID: 250991af-de4f-4e49-b0df-f46c18bb4651
```

```
Last attempt @ 2025-05-08 01:34:03 was successful.
```

```
DC=vlabs1,DC=com
```

```
Default-First-Site-Name\DC101 via RPC
```

```
DSA object GUID: be029329-3ebb-4c85-b57e-d1a1e5fe4e87
```

```
Last attempt @ 2025-05-08 01:49:32 was successful.
```

```
repadmin /replsummary
```

```
[DC201]: PS C:\Users\Administrator.VLABS1\Documents>
[DC201]: PS C:\Users\Administrator.VLABS1\Documents> repadmin /replsummary
Replication Summary Start Time: 2025-05-08 01:49:50
```

```
Beginning data collection for replication summary, this may take awhile:
```

```
.....
```

```
Source DSA      largest delta    fails/total %%   error
DC101           53m:26s     0 /   6    0
DC301           53m:26s     0 /   4    0
```

```
Destination DSA      largest delta    fails/total %%   error
DC201           53m:26s     0 /  10    0
```

```
Experienced the following operational errors trying to retrieve replication information:
```

```
110 - DC101.vlabs1.com
110 - DC301.lab1.vlabs1.com
```

11.3 Verify HR and IT Users Exist

For HR Users:

```
Get-ADUser -Filter * -SearchBase "OU=HR,DC=vlabs1,DC=com" -Server DC201 | Select-Object
Name, SamAccountName, Enabled, DistinguishedName
```

```
[DC201]: PS C:\Users\Administrator.VLABS1\Documents>
[DC201]: PS C:\Users\Administrator.VLABS1\Documents> Get-ADUser -Filter * -SearchBase "OU=HR,DC=vlabs1,DC=com" -Server DC201 | Select-Object Name, SamAccountName, Enabled, DistinguishedName
Name      SamAccountName Enabled DistinguishedName
-----  -----
Emma Morel  e.morel      True CN=Emma Morel,OU=HR,DC=vlabs1,DC=com
Lucas Bernard l.bernard  True CN=Lucas Bernard,OU=HR,DC=vlabs1,DC=com
HR Template hr.template  False CN=HR Template,OU=HR,DC=vlabs1,DC=com
```

For IT Users:

```
Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com" -Server DC201 | Select-Object
Name, SamAccountName, Enabled, DistinguishedName
```

```
[DC201]: PS C:\Users\Administrator.VLabs1\Documents>
[DC201]: PS C:\Users\Administrator.VLabs1\Documents>
[DC201]: PS C:\Users\Administrator.VLabs1\Documents> Get-ADUser -Filter * -SearchBase "OU=IT,DC=vlabs1,DC=com" -Server DC201 | Select-Object Name, SamAccountName, Enabled, DistinguishedName
Name      SamAccountName Enabled DistinguishedName
-----  -----
Sophie Lambert s.lambert    True CN=Sophie Lambert,OU=IT,DC=vlabs1,DC=com
Chloe Girard   c.girard    True CN=Chloe Girard,OU=IT,DC=vlabs1,DC=com
```

11.4 Verify Specific Template User

Check the HR template user specifically:

```
Get-ADUser -Identity "hr.template" -Server DC201 -Properties * | Select-Object Name, SamAccountName, Enabled, ProfilePath, WhenCreated
```

```
[DC201]: PS C:\Users\Administrator.VLabs1\Documents>
[DC201]: PS C:\Users\Administrator.VLabs1\Documents> Get-ADUser -Identity "hr.template" -Server DC201 -Properties * | Select-Object Name, SamAccountName, Enabled, ProfilePath, WhenCreated
Name      SamAccountName Enabled ProfilePath          WhenCreated
-----  -----
HR Template hr.template    False  \\$RV01\Profiles$\%username%  5/8/2025 1:36:59 AM
```

11.5 Verify Disabled/Deleted Users

11.5.1 Check Disabled Users

```
Get-ADUser -Filter {Enabled -eq $false} -Server DC201 | Select-Object Name, SamAccountName, DistinguishedName
```

```
[DC201]: PS C:\Users\Administrator.VLabs1\Documents>
[DC201]: PS C:\Users\Administrator.VLabs1\Documents>
[DC201]: PS C:\Users\Administrator.VLabs1\Documents> Get-ADUser -Filter {Enabled -eq $false} -Server DC201 | Select-Object Name, SamAccountName, DistinguishedName
Name      SamAccountName DistinguishedName
-----  -----
Guest     Guest        CN=Guest,CN=Users,DC=vlabs1,DC=com
krbtgt   krbtgt       CN=krbtgt,CN=Users,DC=vlabs1,DC=com
krbtgt_24591 krbtgt_24591 CN=krbtgt_24591,CN=Users,DC=vlabs1,DC=com
HR Template hr.template  CN=HR Template,OU=HR,DC=vlabs1,DC=com
```

11.5.2 Verify Deleted Users

```
Get-ADObject -Filter {isDeleted -eq $true} -IncludeDeletedObjects -Server DC201 | Select-Object Name, ObjectClass, Deleted
```

```
[DC201]: PS C:\Users\Administrator.VLABS1\Documents>
[DC201]: PS C:\Users\Administrator.VLABS1\Documents> Get-ADObject -Filter {isDeleted -eq $true} -IncludeDeletedObjects -Server DC201 | Select-Object Name, ObjectClass, Deleted
```

Name	ObjectClass	Deleted

Deleted Objects		
gc...	container	True
.Deleted_msdcsvlabs1.com...	dnsNode	True
be029329-3ebb-4c85-b57e-d1a1e5fe4e87...	dnsZone	True
_ldap._tcp.pdc...	dnsNode	True
_ldap._tcp.gc...	dnsNode	True
_ldap._tcp.Default-First-Site-Name._sites.gc...	dnsNode	True
_ldap._tcp.Default-First-Site-Name._sites.dc...	dnsNode	True
_ldap._tcp.dc...	dnsNode	True
_ldap._tcp.402b24e7-c605-4172-bb2c-f1356eab96a2.domains...	dnsNode	True
kerberos._tcp.Default-First-Site-Name._sites.dc...	dnsNode	True
kerberos._tcp.dc...	dnsNode	True
@...	dnsNode	True
ForestDnsZones...	dnsNode	True
.Deleted-vlabs1.com...	dnsZone	True
DomainDnsZones...	dnsNode	True
dc101...	dnsNode	True
_msdcsv...	dnsNode	True
_ldap._tcp.ForestDnsZones...	dnsNode	True
_ldap._tcp.DomainDnsZones...	dnsNode	True
_ldap._tcp.Default-First-Site-Name._sites.DomainDnsZones...	dnsNode	True
_ldap._tcp.Default-First-Site-Name._sites...	dnsNode	True
_ldap._tcp...	dnsNode	True
kpasswd._udp...	dnsNode	True
kpasswd._tcp...	dnsNode	True
kerberos._udp...	dnsNode	True
kerberos._tcp...	dnsNode	True
kerberos._tcp.Default-First-Site-Name._sites...	dnsNode	True
kerberos._tcp...	dnsNode	True
gc._tcp.Default-First-Site-Name._sites...	dnsNode	True
gc._tcp...	dnsNode	True
@...	dnsNode	True
Liam Dupont...	user	True
Thomas Aviles...	user	True
HR Template...	user	True