

8/5/2025

Lab 6

Managing Computer Objects and
Organizational Units



Mohammed, Laetitia, 0931512

NETWORK INSTALLATION AND ADMINISTRATION II

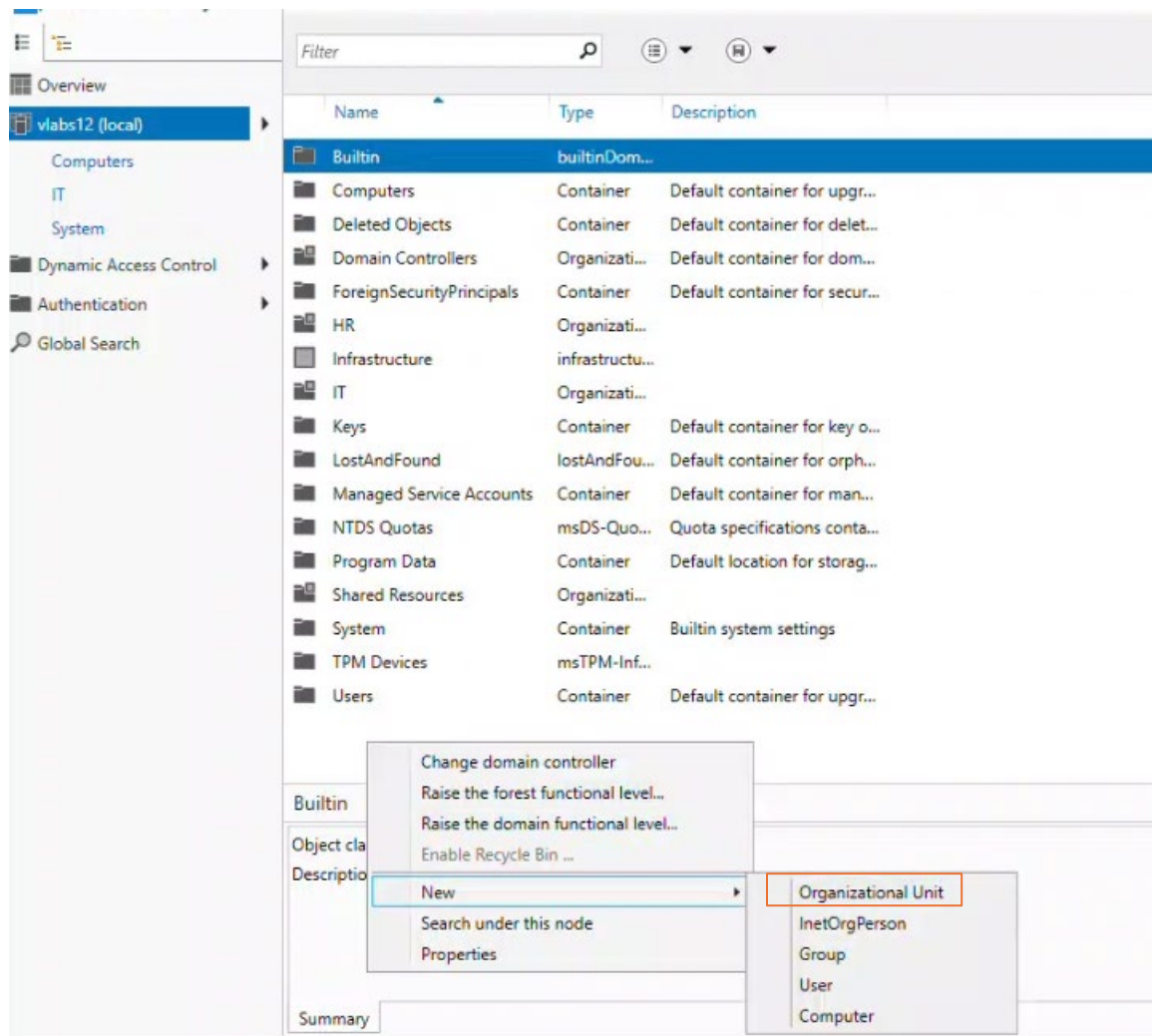
Contents

Task 1: Managing Computer Objects	1
Task 2: Redirecting the Computers Container.....	6
Task 3: Moving Computer Objects	8
Task 4: Changing the Default Quota for Creating Computer Objects.....	11
Task 5: Managing Organizational Units (OUs).....	13
Task 6: Delegating Control of an OU.....	17
Task 7: Managing Permissions on Ous	22

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.

Task 1: Managing Computer Objects

Start by creating the OU “Workstations” in vlabs12 by right-clicking on vlabs12 → New → Organizational Unit



Name it and click OK

Create Organizational Unit: Workstations

Organizational Unit

Managed By

Name: * Workstations

Create in: DC=vlabs

Description:

Address: Street

City State/Province Zip/Postal code

Country/Region:

☒ Protect from ac

Managed By

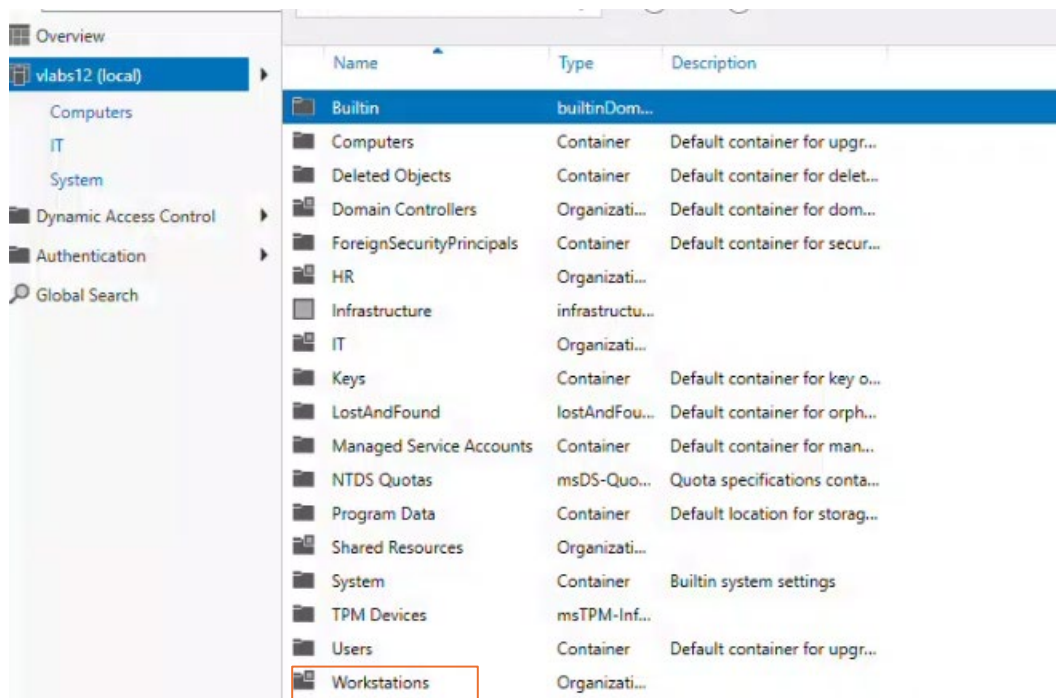
Managed by: Edit... Clear Office:

Phone numbers:

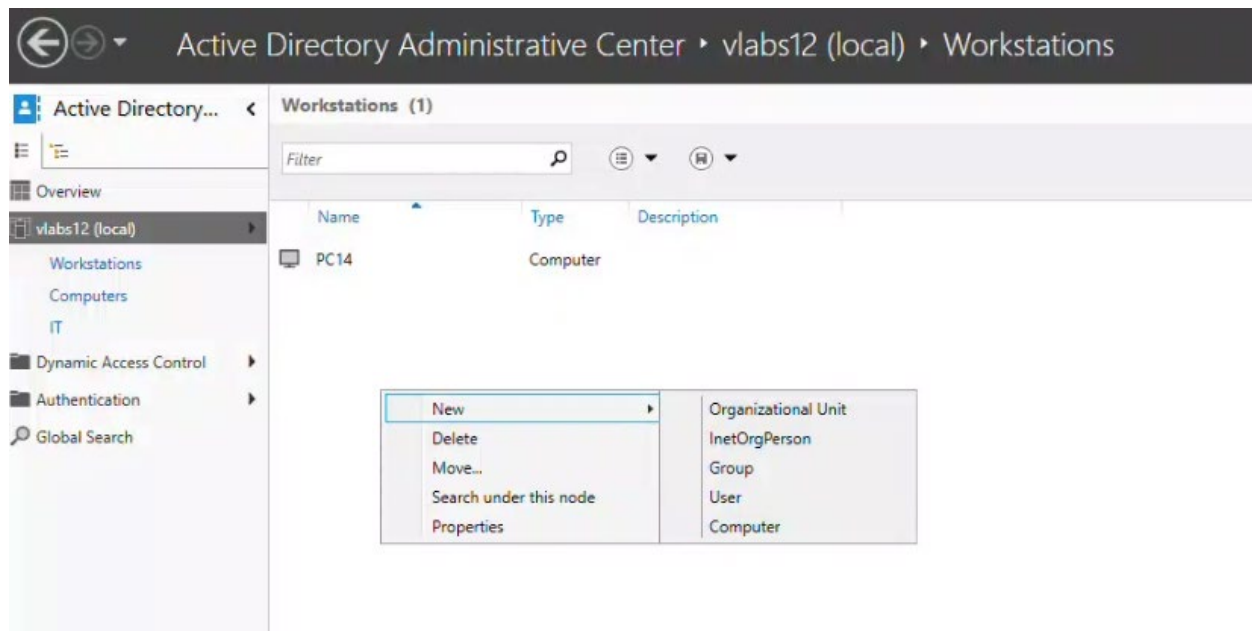
Main: Address: Street

Mobile: City

Fax: Country/Region:



In the Workstation OU, create a new computer object. New → Computer



Name it PC14. Press OK.

Create Computer: PC14

Computer	Computer
Managed By	Computer name: * PC14
Member Of	Computer (NetBIOS) name: * PC14
Policy	Create in: OU=Workstations,DC=vlabs12,DC=com Change...
Silo	User or Group: Default: Domain Admins The above user or group can join this computer to a domain
	<input type="checkbox"/> Assign this computer account as a Pre-Windows 2000 computer
	<input type="checkbox"/> Protect from accidental deletion

Confirm it's creation on PowerShell using

Get-ADComputer -Identity "PC14"

```
PS C:\Users\Administrator.DC112> Get-ADComputer -Identity "PC14"

DistinguishedName : CN=PC14,OU=Workstations,DC=vlabs12,DC=com
DNSHostName       :
Enabled           : True
Name              : PC14
ObjectClass       : computer
ObjectGUID        : 994b394c-0648-4088-aed0-cdc8cecd3c98
SamAccountName    : PC14$
SID               : S-1-5-21-1463046243-3978224867-743297864-1125
UserPrincipalName :
```

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

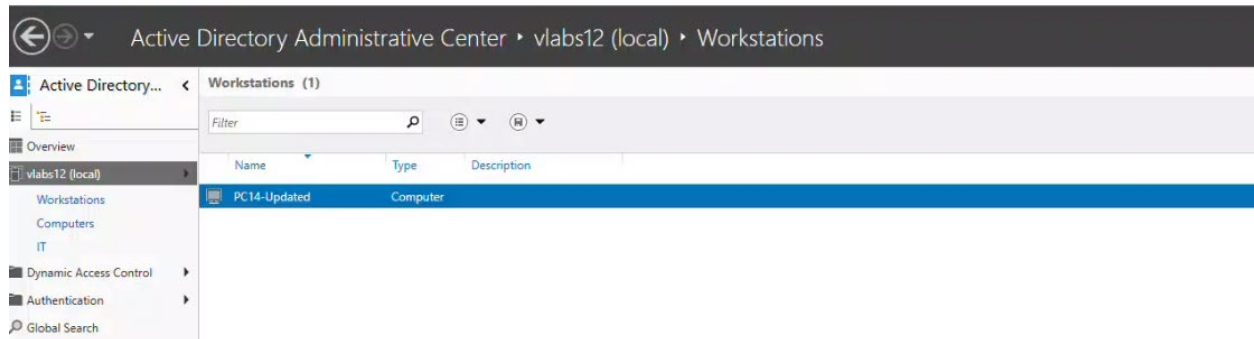
I could not find how to rename PC14 through ADAC. Everything I found online suggested only using PowerShell. There is apparently the option to "rename" on certain versions on ADAC.

Rename-ADObject -Identity

"CN=PC14,OU=Workstations,DC=vlabs12,DC=local" -NewName "PC14-Updated"

Set-ADComputer -Identity "CN=PC14-Updated,OU=Workstations,DC=vlabs12,DC=com" -SamAccountName "PC14-Updated"

```
PS C:\Users\Administrator.DC112> Rename-ADObject -Identity "CN=PC14,OU=Workstations,DC=vlabs12,DC=com" -NewName "PC14-Updated"
PS C:\Users\Administrator.DC112> Set-ADComputer -Identity "CN=PC14-Updated,OU=Workstations,DC=vlabs12,DC=com" -SamAccountName "PC14-Updated"
PS C:\Users\Administrator.DC112> _
```



Remove PC14-Updated in PowerShell using the following commands:

Remove-ADComputer -Identity "CN=PC14-Updated,OU=Workstations,DC=vlabs12,DC=com" -Confirm:\$false

Get-ADComputer -Filter {Name -eq "PC14-Updated"} -SearchBase "OU=Workstations,DC=vlabs12,DC=com"

```
PS C:\Users\Administrator.DC112> Remove-ADComputer -Identity "CN=PC14-Updated,OU=Workstations,DC=vlabs12,DC=com" -Confirm:$false
PS C:\Users\Administrator.DC112> Get-ADComputer -Filter {Name -eq "PC14-Updated"} -SearchBase "OU=Workstations,DC=vlabs12,DC=com"
PS C:\Users\Administrator.DC112> _
```

Reset the secure channel for Client12 using PowerShell

Nltest /sc_reset:vlabs12.com

Test-ComputerSecureChannel

The return prompt “True” means the secure channel is restored

```
PS C:\Users\Administrator.VLABS12> nltest /sc_reset:vlabs12.com
Flags: 30 HAS_IP HAS_TIMESERV Authentication Service: Netlogon
Trusted DC Name \\DC112.vlabs12.com
Trusted DC Connection Status Status = 0 0x0 NERR_Success
The command completed successfully
PS C:\Users\Administrator.VLABS12> nltest /sc_verify:vlabs12.com
Flags: 400000b0 HAS_IP HAS_TIMESERV Authentication Service: Netlogon
Trusted DC Name \\DC112.vlabs12.com
Trusted DC Connection Status Status = 0 0x0 NERR_Success
Trust Verification Status = 0 0x0 NERR_Success
The command completed successfully
PS C:\Users\Administrator.VLABS12> Test-ComputerSecureChannel
True
PS C:\Users\Administrator.VLABS12>
PS C:\Users\Administrator.VLABS12> |
```

Task 2: Redirecting the Computers Container

Verify the default Computers container location using PowerShell.

Redirect the default location of the Computers container to the Workstations OU using PowerShell.

Verify that the redirection was applied using PowerShell.

Verify the Computers container with the following command:

**Get-ADComputer -Filter * -SearchBase
"CN=Computers,DC=vlabs12,DC=com"**

```
PS C:\Users\Administrator.DC112> Get-ADComputer -Filter * -SearchBase "CN=Computers,DC=vlabs12,DC=com"

DistinguishedName : CN=CLIENT12,CN=Computers,DC=vlabs12,DC=com
DNSHostName       : Client12.vlabs12.com
Enabled           : True
Name              : CLIENT12
ObjectClass       : computer
ObjectGUID        : ece182ba-2536-437d-8984-c3807eae2ab
SamAccountName    : CLIENT12$
SID               : S-1-5-21-1463046243-3978224867-743297864-1107
UserPrincipalName :

DistinguishedName : CN=SRV12,CN=Computers,DC=vlabs12,DC=com
DNSHostName       : SRV12.vlabs12.com
Enabled           : True
Name              : SRV12
ObjectClass       : computer
ObjectGUID        : d31ec61d-dc19-4bc5-b65b-1125d8b5e5cd
SamAccountName    : SRV12$
SID               : S-1-5-21-1463046243-3978224867-743297864-1108
UserPrincipalName :

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

Redirect the default Computers container to Workstation OU using the following:

redircmp OU=Workstations,DC=vlabs12,DC=com

Confirm the redirection with **Get-ADDomain | Select-Object ComputersContainer**

```
PS C:\Users\Administrator.DC112> redircmp OU=Workstations,DC=vlabs12,DC=com
Redirection was successful.
PS C:\Users\Administrator.DC112> Get-ADDomain | Select-Object ComputersContainer

ComputersContainer
-----
OU=Workstations,DC=vlabs12,DC=com

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

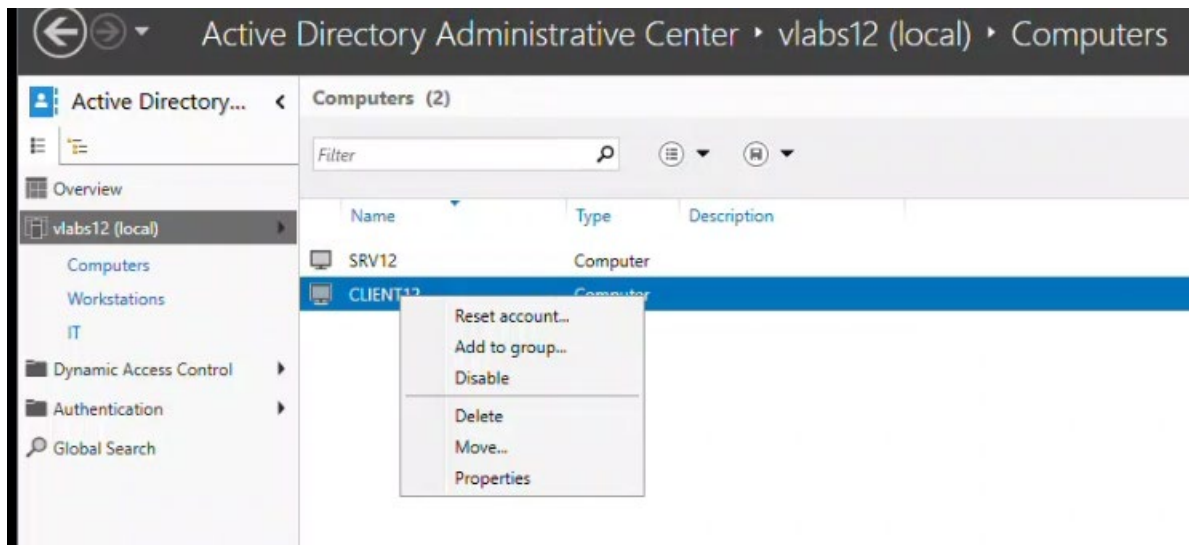

Task 3: Moving Computer Objects

Move ClientXX from Computers container to Workstations OU using ADAC.

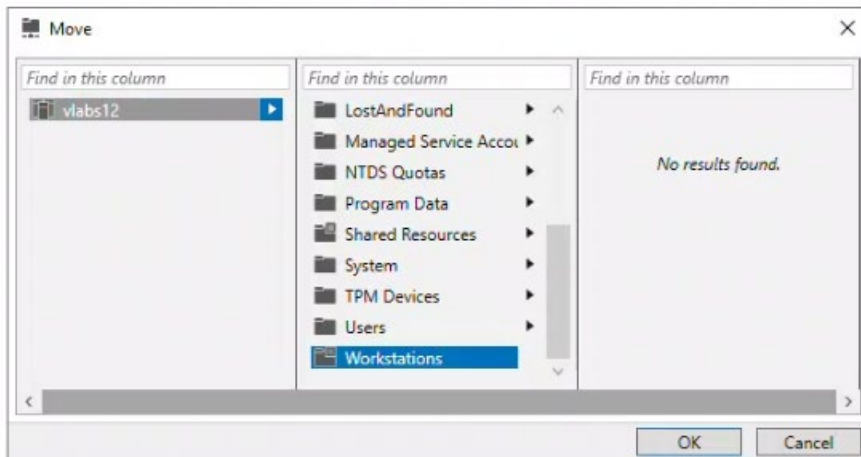
Create an OU named Servers using PowerShell.

Move SRVXX to the Servers OU using PowerShell.

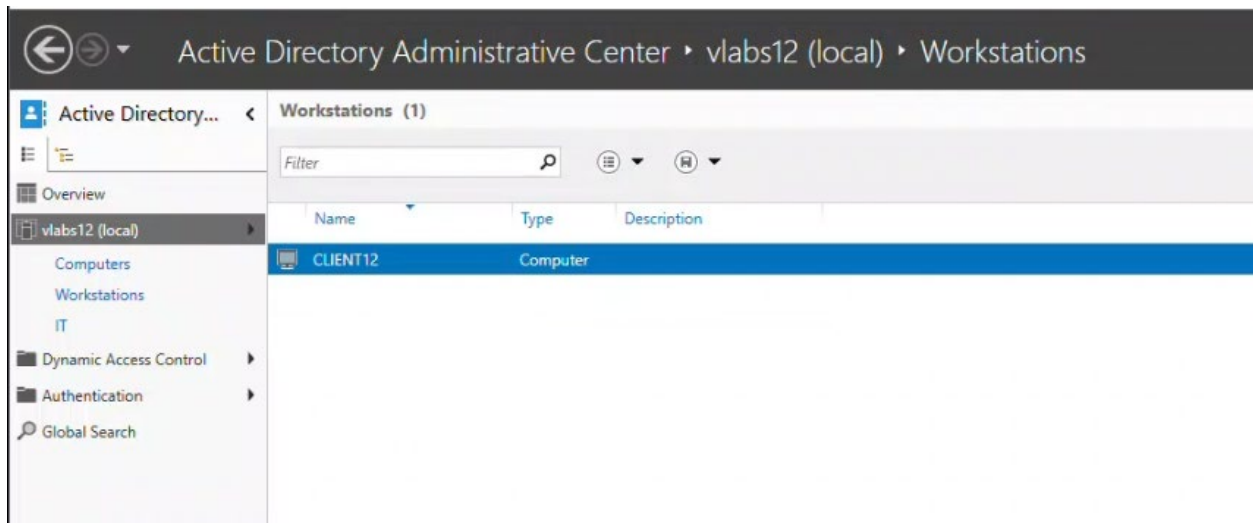
Move Client12 from the Computers container to the Workstation OU by right clicking → Move



Select Workstations and then click OK



Confirm Client12 has been moved to Workstations



This would be the PowerShell command:

```
Get-ADComputer -Filter * -SearchBase  
"CN=Client12,CN=Computers,DC=vlab12,DC=com" | Move-ADObject-  
TargetPath "OU=Workstations,DC=vlab12,DC=com"
```

**Get-ADComputer -Filter * -SearchBase
"CN=Client12,OU=Workstations,DC=vlabs12,DC=com"**

Create the OU "Servers" in PowerShell

**New-ADOrganizationalUnit -Name "Servers" -Path "DC=vlabs12,DC=com" -
ProtectedFromAccidentalDeletion:\$true**

**Get-ADOrganizationalUnit -Filter {Name -eq "Servers"} -SearchBase
"DC=vlabs12,DC=com"**

```
PS C:\Users\Administrator.DC112> New-ADOrganizationalUnit -Name "Servers" -Path "DC=vlabs12,DC=com" -ProtectedFromAccidentalDeletion:$true
PS C:\Users\Administrator.DC112> Get-ADOrganizationalUnit -Filter {Name -eq "Servers"} -SearchBase "DC=vlabs12,DC=com"

City                :
Country             :
DistinguishedName   : OU=Servers,DC=vlabs12,DC=com
LinkedGroupPolicyObjects : {}
ManagedBy          :
Name                : Servers
ObjectClass          : organizationalUnit
ObjectGUID           : aa8f639c-53fc-4017-a4e5-a7086a94682d
PostalCode           :
State                :
StreetAddress        :
```

PS C:\Users\Administrator.DC112>

Move SRV12 to Servers using the following PowerShell commands:

**Move-ADObject -Identity "CN=SRV12,CN=Computers,DC=vlabs12,DC=com" -
TargetPath "OU=Servers,DC=vlabs12,DC=com"**

**Get-ADComputer -Filter {Name -eq "SRV12"} -SearchBase
"OU=Servers,DC=vlabs12,DC=com"**

```
PS C:\Users\Administrator.DC112> Move-ADObject -Identity "CN=SRV12,CN=Computers,DC=vlabs12,DC=com" -TargetPath "OU=Servers,DC=vlabs12,DC=com"
PS C:\Users\Administrator.DC112> Get-ADComputer -Filter {Name -eq "SRV12"} -SearchBase "OU=Servers,DC=vlabs12,DC=com"

DistinguishedName : CN=SRV12,OU=Servers,DC=vlabs12,DC=com
DNSHostName       : SRV12.vlabs12.com
Enabled           : True
Name              : SRV12
ObjectClass       : computer
ObjectGUID        : d31ec61d-dc19-4bc5-b65b-1125d8b5e5cd
SamAccountName    : SRV12$
SID               : S-1-5-21-1463046243-3978224867-743297864-1108
UserPrincipalName :

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

Task 4: Changing the Default Quota for Creating Computer Objects

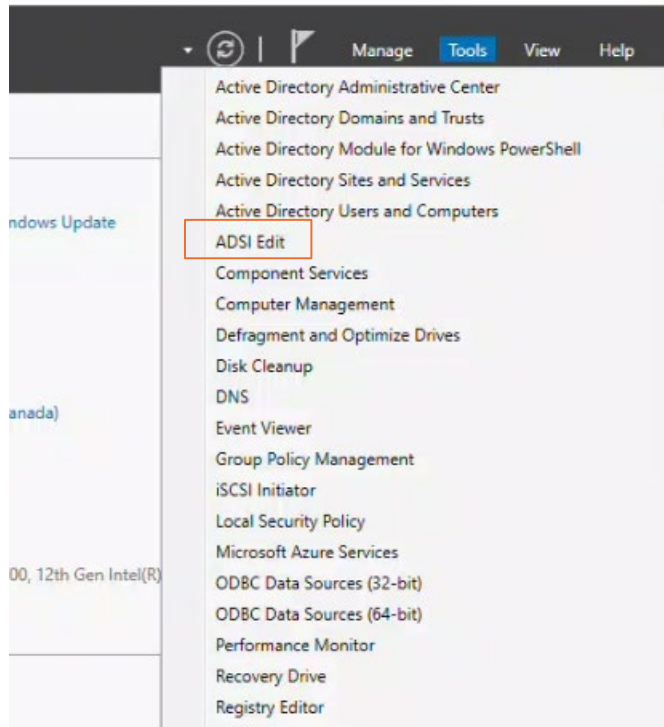
Change the Default Quota for creating Computer Objects to 0 using PowerShell.

Verify the change using ADSI Edit.

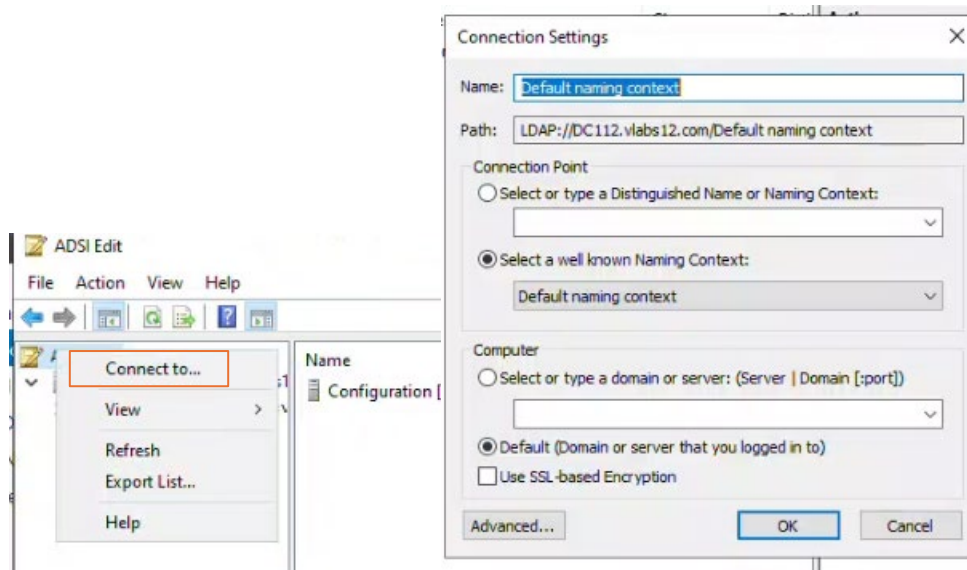
Set-ADDomain -Identity "vlabs12.com" -Replace @{"ms-DS-MachineAccountQuota"=0}

```
PS C:\Users\Administrator.DC112> Set-ADDomain -Identity "vlabs12.com" -Replace @{"ms-DS-MachineAccountQuota"=0}
PS C:\Users\Administrator.DC112> _
```

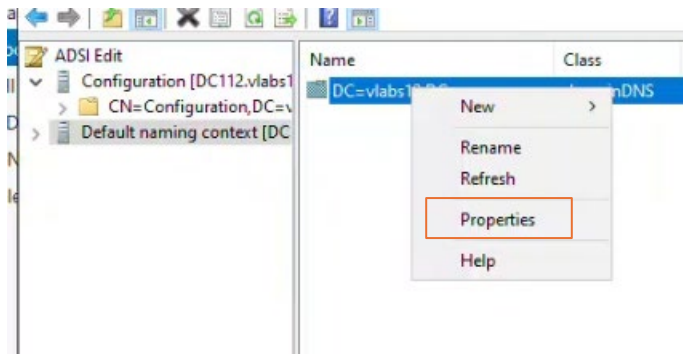
Confirm graphically by using ADSI Edit in AD. Go to Tools → ADSI Edit



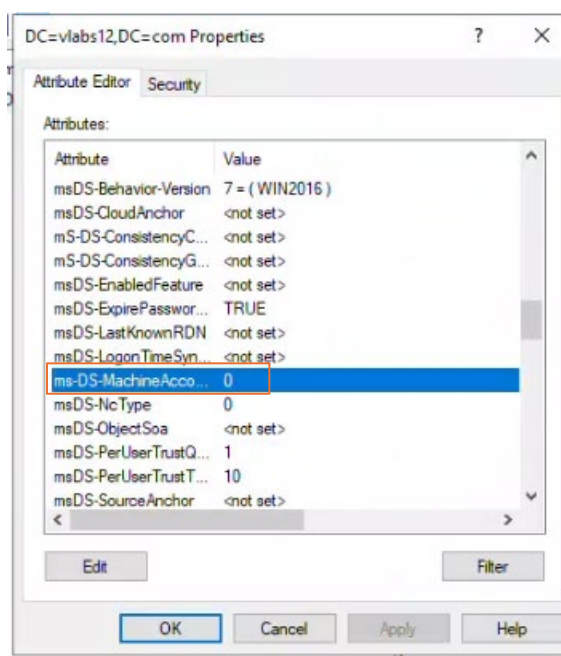
Right-click and select “connect to..” → Name: Default naming context. Click OK



Right-click on DC=vlabs12,DC=com and go to properties



Scroll down until you find ms-DS-MachineAccountQuota and verify it's set to 0, like we just configured in PowerShell



Task 5: Managing Organizational Units (OUs)

Create IT Department OU under vlabs.com using ADAC:

Verify that IT Department OU has been created using PowerShell.

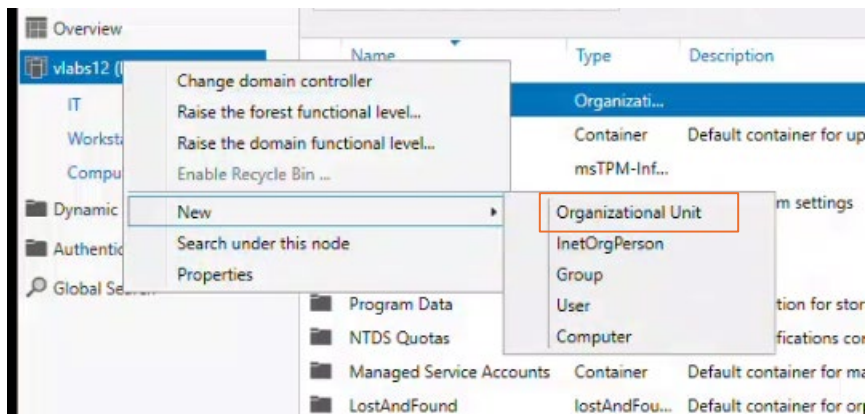
Add a description: "Handles IT operations and security" to the IT Department OU using PowerShell.

Rename IT Department to IT Services using ADAC.

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

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

Create the OU “IT Department”



Create Organizational Unit: IT Department

Organizational Unit

Managed By

Name: * IT Department

Address:

Street

City State/Province Zip/Postal code

Country/Region:

Managed By

Managed by: Edit... Clear

Phone numbers:

Main: Ac S

Mobile: C

Fax: Cc

Get-ADOrganizationalUnit -Filter {Name -eq "IT Department"} -SearchBase "DC=vlabs12,DC=com"


```
PS C:\Users\Administrator.DC112> Get-ADOrganizationalUnit -Filter {Name -eq "IT Department"} -SearchBase "DC=vlabs12,DC=com"

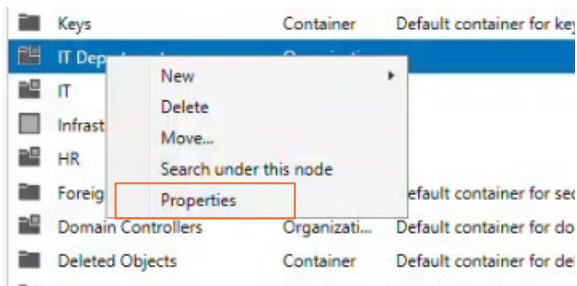
City           :
Country        :
DistinguishedName : OU=IT Department,DC=vlabs12,DC=com
LinkedGroupPolicyObjects : {}
ManagedBy     :
Name           : IT Department
ObjectClass    : organizationalUnit
ObjectGUID     : 01b1b077-2eba-4981-958c-7855a39e9d8a
PostalCode     :
State          :
StreetAddress  :
```

Set-ADOrganizationalUnit -Identity "OU=IT Department,DC=vlabs12,DC=com" - Description "Handles IT operations and security"

```
PS C:\Users\Administrator.DC112> Set-ADOrganizationalUnit -Identity "OU=IT Department,DC=vlabs12,DC=com" -Description "Handles IT operations and security"
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
PS C:\Users\Administrator.DC112>
```

Activate Windows
Go to Settings to activate Windows.

Rename IT Department to IT Services by right clicking → Properties



IT Department

Organizational Unit	Organizational Unit	
Managed By	Name: * IT Services	Description: Handles IT o
Extensions	Address: Street	<input checked="" type="checkbox"/> Protect fr
	City State/Province Zip/Postal code	
	Country/Region:	
Managed By		
	Managed by: Edit Clear	Office:
	Phone numbers:	Address:
	Main:	Street
	Mobile:	City
	Fax:	

Create the Finance OU

Create Organizational Unit: Finance

Organizational Unit	Organizational Unit		Create in: DC=vlabs12,DC=com
Managed By	Name: * Finance		Description:
	Address: Street		
	City	State/Province	Zip/Postal code
	Country/Region:		<input checked="" type="checkbox"/> Protect from accidental deletion
Managed By			
	Managed by:	<input type="button" value="Edit..."/> <input type="button" value="Clear"/>	Office:
	Phone numbers:		Address: Street
	Main:		City
	Mobile:		Country/Region:
	Fax:		

Confirm it's creation with PowerShell using the following:

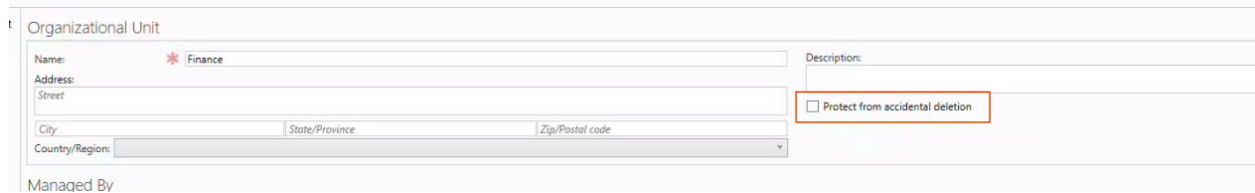
Get-ADOrganizationalUnit-Filter {Name -eq "Finance"}

```
PS C:\Users\Administrator.DC112> Get-ADOrganizationalUnit -Filter {Name -eq "Finance"}

City                :
Country             :
DistinguishedName    : OU=Finance,DC=vlabs12,DC=com
LinkedGroupPolicyObjects : {}
ManagedBy          :
Name                : Finance
ObjectClass          : organizationalUnit
ObjectGUID           : 90f6c72b-8ce7-4e26-ba8b-ef3a25c122a6
PostalCode           :
State               :
StreetAddress        :

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

To delete Finance, we have to first uncheck "Protect from accidental deletion"



Remove-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs12,DC=com" -Confirm:\$false

Get-ADOrganizationalUnit -Filter {Name -eq "Finance"}

```
PS C:\Users\Administrator.DC112> Remove-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs12,DC=com" -Confirm:$false
PS C:\Users\Administrator.DC112> Get-ADOrganizationalUnit -Filter {Name -eq "Finance"}
PS C:\Users\Administrator.DC112> _
```

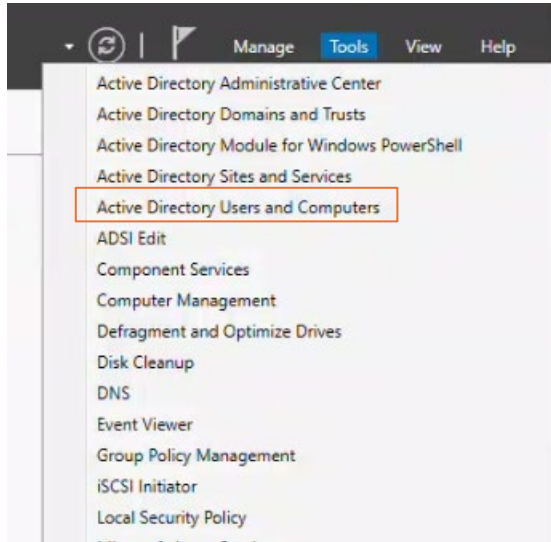
Task 6: Delegating Control of an OU

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

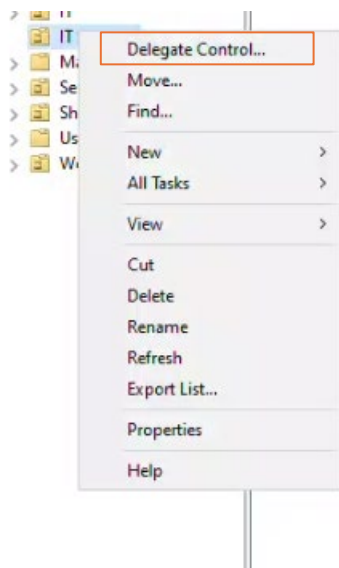
Check which users or groups have been delegated control over the IT Services OU using AD Users and Computers 3.

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

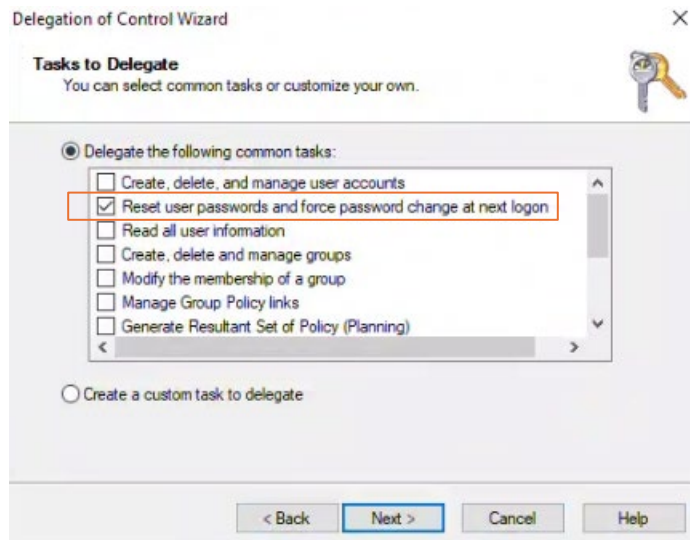
Delegate “Reset Password” permission to Sophie Lambert using AD Users and Computers. Go to Tools → Active Directory Users and Computers



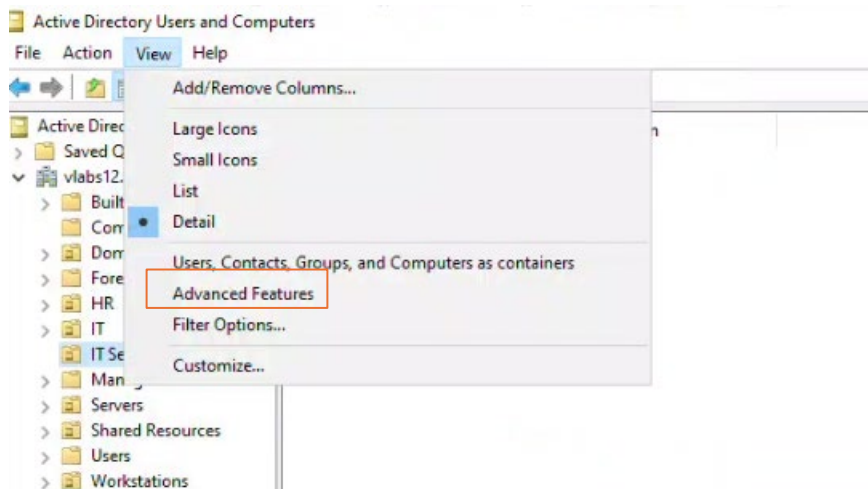
Right click on IT Services and click on Delegate Control



Check the box “Reset user passwords and force password change at next login” →
Next



Once that's done, go to view at the top and select Advanced Features



Right click on IT Services → Properties → Security → Advanced

Type	Principal	Access	Inherited from	Applies to
Deny	Everyone	Special	None	This object only
Allow	Sophie Lambert (s.lambert@...)	Reset password	None	Descendant User objects
Allow	Sophie Lambert (s.lambert@...)		None	Descendant User objects
Allow	Account Operators (VLABS12\...)	Create/delete InetOrg...	None	This object only
Allow	Account Operators (VLABS12\...)	Create/delete Comput...	None	This object only
Allow	Account Operators (VLABS12\...)	Create/delete Group o...	None	This object only
Allow	Print Operators (VLABS12\Pri...)	Create/delete Printer o...	None	This object only
Allow	Account Operators (VLABS12\...)	Create/delete User obj...	None	This object only
Allow	Domain Admins (VLABS12\D...)	Full control	None	This object only
Allow	ENTERPRISE DOMAIN CONT...	Special	None	This object only

Verify the current permissions for IT Services using PowerShell

dsacls "OU=IT Services,DC=vlabs12,DC=com"

```
PS C:\Users\Administrator.DC112> dscls "OU=IT Services,DC=vlabs12,DC=com"
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins

Access list:
Deny Everyone
SPECIAL ACCESS
DELETE
DELETE TREE
Allow VLABS12\Domain Admins
FULL CONTROL
Allow NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS
SPECIAL ACCESS
READ PERMISSIONS
LIST CONTENTS
READ PROPERTY
LIST OBJECT
Allow NT AUTHORITY\Authenticated Users
SPECIAL ACCESS
READ PERMISSIONS
LIST CONTENTS
READ PROPERTY
LIST OBJECT
Allow NT AUTHORITY\SYSTEM
FULL CONTROL
Allow VLABS12\Enterprise Admins
FULL CONTROL <Inherited from parent>
Allow BUILTIN\Pre-Windows 2000 Compatible Access
SPECIAL ACCESS <Inherited from parent>
LIST CONTENTS
Allow BUILTIN\Administrators
SPECIAL ACCESS <Inherited from parent>
DELETE
READ PERMISSIONS
WRITE PERMISSIONS
CHANGE OWNERSHIP
CREATE CHILD
LIST CONTENTS
```


Allow BUILTIN\Administrators	LIST CONTENTS SPECIAL ACCESS <Inherited from parent> DELETE READ PERMISSIONS WRITE PERMISSIONS CHANGE OWNERSHIP CREATE CHILD LIST CONTENTS WRITE SELF WRITE PROPERTY READ PROPERTY LIST OBJECT CONTROL ACCESS
Allow BUILTIN\Account Operators	SPECIAL ACCESS for inetOrgPerson CREATE CHILD DELETE CHILD
Allow BUILTIN\Account Operators	SPECIAL ACCESS for computer CREATE CHILD DELETE CHILD
Allow BUILTIN\Account Operators	SPECIAL ACCESS for group CREATE CHILD DELETE CHILD
Allow BUILTIN\Print Operators	SPECIAL ACCESS for printQueue CREATE CHILD DELETE CHILD
Allow BUILTIN\Account Operators	SPECIAL ACCESS for user CREATE CHILD DELETE CHILD
Allow VLABS12\Key Admins	SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent> WRITE PROPERTY READ PROPERTY
Allow VLABS12\Enterprise Key Admins	SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent> WRITE PROPERTY READ PROPERTY
Allow NT AUTHORITY\SELF	SPECIAL ACCESS for msDS-AllowedToActOnBehalfOfOtherIdentity <Inherited from parent>

Allow BUILTIN\Account Operators	DELETE CHILD SPECIAL ACCESS for group CREATE CHILD
Allow BUILTIN\Print Operators	DELETE CHILD SPECIAL ACCESS for printQueue CREATE CHILD
Allow BUILTIN\Account Operators	DELETE CHILD SPECIAL ACCESS for user CREATE CHILD
Allow VLABS12\Key Admins	DELETE CHILD SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent> WRITE PROPERTY READ PROPERTY
Allow VLABS12\Enterprise Key Admins	SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent> WRITE PROPERTY READ PROPERTY
Allow NT AUTHORITY\SELF	SPECIAL ACCESS for msDS-AllowedToActOnBehalfOfOtherIdentity <Inherited from parent> WRITE PROPERTY READ PROPERTY
Allow NT AUTHORITY\SELF	SPECIAL ACCESS for Private Information <Inherited from parent> WRITE PROPERTY READ PROPERTY CONTROL ACCESS

Permissions inherited to subobjects are:

Inherited to all subobjects

Allow VLABS12\Enterprise Admins	FULL CONTROL <Inherited from parent>
Allow BUILTIN\Pre-Windows 2000 Compatible Access	SPECIAL ACCESS <Inherited from parent> LIST CONTENTS
Allow BUILTIN\Administrators	SPECIAL ACCESS <Inherited from parent> DELETE READ PERMISSIONS WRITE PERMISSIONS CHANGE OWNERSHIP


```

READ PROPERTY
LIST OBJECT
CONTROL ACCESS
low VLABS12\Key Admins SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent>
WRITE PROPERTY
READ PROPERTY
low VLABS12\Enterprise Key Admins SPECIAL ACCESS for msDS-KeyCredentialLink <Inherited from parent>
WRITE PROPERTY
READ PROPERTY
low NT AUTHORITY\SELF SPECIAL ACCESS for msDS-AllowedToActOnBehalfOfOtherIdentity <Inherited from parent>
WRITE PROPERTY
READ PROPERTY
low NT AUTHORITY\SELF SPECIAL ACCESS for Private Information <Inherited from parent>
WRITE PROPERTY
READ PROPERTY
CONTROL ACCESS

Inherited to user
low VLABS12\s.lambert Reset Password
low VLABS12\s.lambert SPECIAL ACCESS for pwdLastSet
WRITE PROPERTY
READ PROPERTY
low BUILTIN\Pre-Windows 2000 Compatible Access
SPECIAL ACCESS for Account Restrictions <Inherited from parent>
READ PROPERTY
low BUILTIN\Pre-Windows 2000 Compatible Access
SPECIAL ACCESS for Logon Information <Inherited from parent>
READ PROPERTY
low BUILTIN\Pre-Windows 2000 Compatible Access
SPECIAL ACCESS for Group Membership <Inherited from parent>
READ PROPERTY
low BUILTIN\Pre-Windows 2000 Compatible Access
SPECIAL ACCESS for General Information <Inherited from parent>
READ PROPERTY
low BUILTIN\Pre-Windows 2000 Compatible Access

```

Task 7: Managing Permissions on Ous

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

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

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

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

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

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

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

Use the following to deny deletion of objects to Sophie Lambert in IT Services

dsaccls "OU=IT Services,DC=vlabs12,DC=com" /D "vlabs12\s.lambert:SD"

```
PS C:\Users\Administrator.DC112> dsaccls "OU=IT Services,DC=vlabs12,DC=com" /D "vlabs12\s.lambert:SD"
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins

Access list:
Deny VLABS12\s.lambert          SPECIAL ACCESS
                                DELETE
Deny Everyone                   SPECIAL ACCESS
                                DELETE
                                DELETE TREE
Allow VLABS12\Domain Admins     FULL CONTROL
Allow NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS
                                SPECIAL ACCESS
                                READ PERMISSIONS
                                LIST CONTENTS
                                READ PROPERTY
                                LIST OBJECT
```

The following grants Sophie Lambert generic read permissions in IT Services

Dsaccls "OU=IT Services,DC=vlabs12,DC=com" /G "vlabs12\s.lambert:GR"

```
PS C:\Users\Administrator.DC112> dsaccls "OU=IT Services,DC=vlabs12,DC=com" /G "vlabs12\s.lambert:GR"
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins

Access list:
Deny VLABS12\s.lambert          SPECIAL ACCESS
                                DELETE
Deny Everyone                   SPECIAL ACCESS
                                DELETE
                                DELETE TREE
Allow VLABS12\s.lambert         SPECIAL ACCESS
                                READ PERMISSIONS
                                LIST CONTENTS
                                READ PROPERTY
                                LIST OBJECT
Allow VLABS12\Domain Admins     FULL CONTROL
Allow NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS
                                SPECIAL ACCESS
                                READ PERMISSIONS
                                LIST CONTENTS
                                READ PROPERTY
                                LIST OBJECT
```

Grant write permissions in HR OU for modifying the telephoneNumber

DsacIs "OU=HR,DC=vlabs12,DC=com" /G "vlabs12\GG_HR_Admins:WP;telephoneNumber"

```
PS C:\Users\Administrator.DC112> dsacIs "OU=HR,DC=vlabs12,DC=com" /G "vlabs12\GG_HR_Admins:WP;telephoneNumber"
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins
```

```
allow VLABS12\GG_HR_Admins
CREATE CHILD
DELETE CHILD
SPECIAL ACCESS for telephoneNumber
WRITE PROPERTY
```

Remove all permissions for Lucas Bernard in HR OU

dsacIs "OU=HR,DC=vlabs12,DC=com" /R "vlabs12\l.bernard"

```
PS C:\Users\Administrator.DC112> dsacIs "OU=HR,DC=vlabs12,DC=com" /R "vlabs12\l.bernard"
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins
```

In Active Directory Users and Computers, right click on HR → Properties → Security → Advanced and verify the permissions

Type	Principal	Access	Inherited from	Applies to
Deny	Everyone	Special	None	This object only
Allow	GG_HR_Admins (VLABS12\G...		None	This object only
Allow	Account Operators (VLABS12...	Create/delete InetOrg...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete Comput...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete Group o...	None	This object only
Allow	Print Operators (VLABS12\Pri...	Create/delete Printer o...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete User obj...	None	This object only
Allow	Domain Admins (VLABS12\D...	Full control	None	This object only
Allow	ENTERPRISE DOMAIN CONT...	Special	None	This object only
Allow	Authenticated Users	Special	None	This object only

Type	Principal	Access	Inherited from	Applies to
Allow	Authenticated Users	Special	None	This object only
Allow	SYSTEM	Full control	None	This object only
Allow	Pre-Windows 2000 Compatib...	Special	DC=vlabs12,DC=com	Descendant InetOrgPerson o...
Allow	Pre-Windows 2000 Compatib...	Special	DC=vlabs12,DC=com	Descendant Group objects
Allow	Pre-Windows 2000 Compatib...	Special	DC=vlabs12,DC=com	Descendant User objects
Allow	SELF		DC=vlabs12,DC=com	This object and all descendan...
Allow	SELF	Special	DC=vlabs12,DC=com	This object and all descendan...
Allow	Enterprise Admins (VLABS12\...	Full control	DC=vlabs12,DC=com	This object and all descendan...
Allow	Pre-Windows 2000 Compatib...	List contents	DC=vlabs12,DC=com	This object and all descendan...
Allow	Administrators (VLABS12\Ad...	Special	DC=vlabs12,DC=com	This object and all descendan...

Reset all permissions in IT Services with the following:

dsacls "OU=IT Services,DC=vlabs12,DC=com" /resetDefaultDac1

```
PS C:\Users\Administrator.DC112> dsacls "OU=IT Services,DC=vlabs12,DC=com" /resetDefaultDac1
Owner: VLABS12\Domain Admins
Group: VLABS12\Domain Admins

Access list:
Allow VLABS12\Domain Admins          FULL CONTROL
Allow NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS
                                         SPECIAL ACCESS
                                         READ PERMISSIONS
                                         LIST CONTENTS
                                         READ PROPERTY
                                         LIST OBJECT
Allow NT AUTHORITY\Authenticated Users
                                         SPECIAL ACCESS
                                         READ PERMISSIONS
                                         LIST CONTENTS
                                         READ PROPERTY
                                         LIST OBJECT
Allow NT AUTHORITY\SYSTEM             FULL CONTROL
```

Verify again in AD Users and Computers but with IT Services that all the permissions have been reset. Sophie Lambert's deny/allow permissions are no longer listed so it was successful.

Advanced Security Settings for IT Services

Owner: Domain Admins (VLABS12\Domain Admins) [Change](#)

Permissions Auditing Effective Access

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

Type	Principal	Access	Inherited from	Applies to
Allow	Account Operators (VLABS12...	Create/delete InetOrg...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete Comput...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete Group o...	None	This object only
Allow	Print Operators (VLABS12\Pri...	Create/delete Printer o...	None	This object only
Allow	Account Operators (VLABS12...	Create/delete User obj...	None	This object only
Allow	Domain Admins (VLABS12\D...	Full control	None	This object only
Allow	ENTERPRISE DOMAIN CONT...	Special	None	This object only
Allow	Authenticated Users	Special	None	This object only
Allow	SYSTEM	Full control	None	This object only
Allow	Pre-Windows 2000 Compatib...	Special	DC=vlabs12,DC=com	Descendant InetOrgPerson o...

Add

Remove

View

Restore defaults

Disable inheritance

OK

Cancel

Apply