

Lab 6 – Managing Computer Objects and Organizational Units

Task 1: Managing Computer Objects

Step 1: Create Workstations OU **using** ADAC
System: DC107 (Primary Domain Controller **for** vlabs07.com)

Explanation:

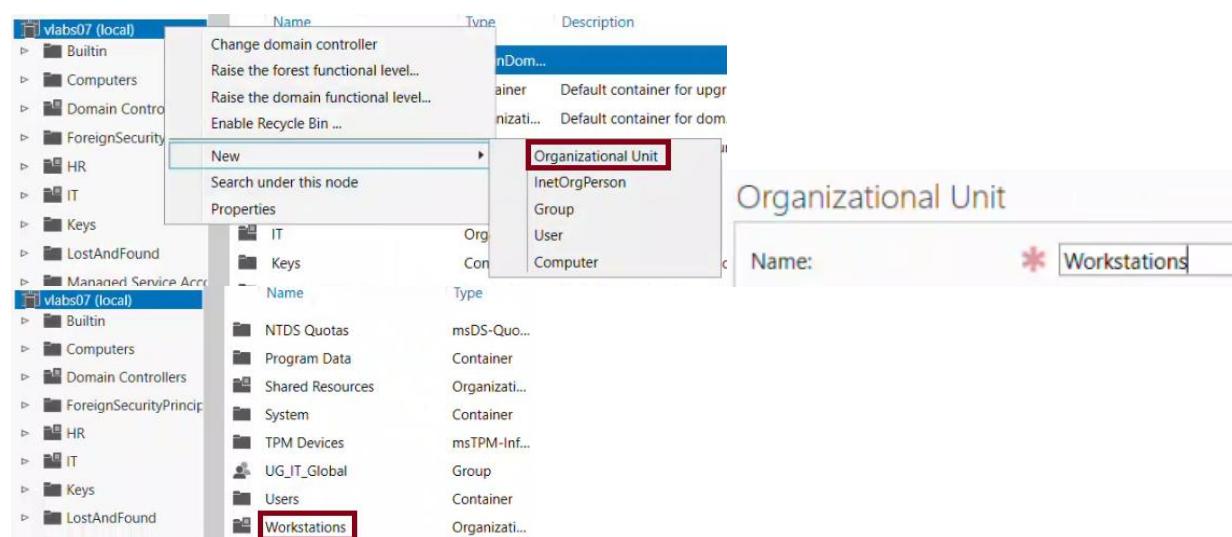
I used Active Directory Administrative Center (ADAC) on DC107 to create a new Organizational Unit called Workstations at the root of the vlabs07.com domain.

This OU will be used to store and manage computer accounts **for** client machines.

Steps:

- Logged **in** to DC107
- Opened Active Directory Administrative Center
- Navigated to the vlabs07.com domain
- Right-clicked the domain name > New > Organizational Unit
- Named the OU: Workstations
- Clicked OK to create **it**

Screenshot:



■ Step 2: Create computer object PC14 **using** ADAC
System: DC107

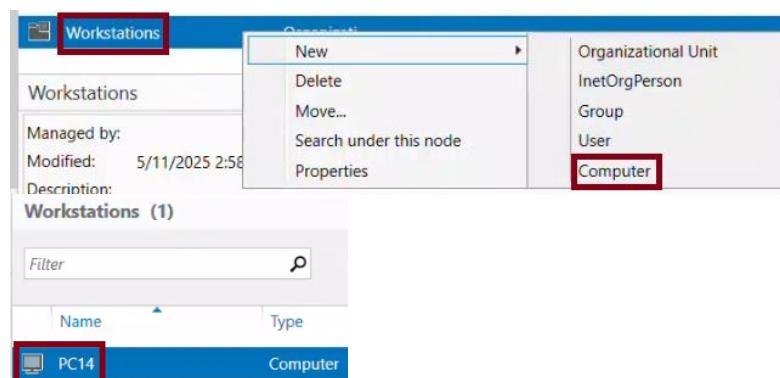
Explanation:

I created a new computer object named PC14 inside the Workstations OU **using** ADAC.

Steps:

- In ADAC, navigated to the Workstations OU
- Right-clicked > New > Computer
- Entered the name: PC14
- Clicked OK to create the computer object

Screenshot:



■ Step 3: Verify the creation of PC14 **using** PowerShell
System: DC107

Command:

```
Get-ADComputer -Identity "PC14"
```

Explanation:

I used this command to verify that PC14 was successfully created **in** Active Directory.

- Get-ADComputer retrieves computer account information
- -Identity "PC14" specifies the object name to look up

Screenshot:

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

DistinguishedName : CN=PC14,OU=Workstations,DC=vlabs07,DC=com
DNSHostName      :
Enabled          : True
Name              : PC14
ObjectClass       : computer
ObjectGUID        : 3538bf09-f7dc-4a8d-8377-f3fa2bcb837d
SamAccountName   : PC14$
SID               : S-1-5-21-2428485534-1961598418-1246186656-1120
UserPrincipalName :
```

■ Step 4: Rename PC14 to PC14-Updated using PowerShell
System: DC107

Command:

```
-----  
Rename-ADObject -Identity "CN=PC14,OU=Workstations,DC=vlabs07,DC=com" -  
NewName "PC14-Updated"
```

Verification:

```
-----  
Get-ADComputer -Filter 'Name -like "PC14*"' | Select-Object Name,  
DistinguishedName
```

Explanation:

I renamed the computer object from PC14 to PC14-Updated using this command. Then I verified that the rename was successful by searching for all objects whose names start with "PC14".

- Rename-ADObject changes the Common Name (CN) of the object
- The Identity must match the full Distinguished Name of the original object
- The second command uses a name filter and displays the name and path of the renamed computer

Screenshot:

```
PS C:\Users\Administrator> Rename-ADObject -Identity "CN=PC14,OU=Workstations,DC=vlabs07,DC=com" -NewName "PC14-Updated"  
PS C:\Users\Administrator> Get-ADComputer -Filter 'Name -like "PC14*"' | Select-Object Name, DistinguishedName  
  
Name      DistinguishedName  
----      -----  
PC14-Updated CN=PC14-Updated,OU=Workstations,DC=vlabs07,DC=com  
Workstations (1)  
  
Filter  
  
Name      Type  
PC14-Updated Computer
```

■ Step 5: Remove PC14-Updated **using** PowerShell
System: DC107

Command:

```
-----  
Remove-ADComputer -Identity "CN=PC14-  
Updated,OU=Workstations,DC=vlabs07,DC=com" -Confirm:$false
```

Explanation:

I deleted the computer object named PC14-Updated **using** its full Distinguished Name, since the simple name or SamAccountName did not match after the rename.

- Remove-ADComputer deletes a computer object from Active Directory
- The Identity must include the full path **if** the objects name was changed
- **-Confirm:\$false** skips the confirmation **prompt** and deletes the object directly

Screenshot:

```
PS C:\Users\Administrator> Remove-ADComputer -Identity "CN=PC14-Updated,OU=Workstations,DC=vlabs07,DC=com"  
  
Confirm  
Are you sure you want to perform this action?  
Performing the operation "Remove" on target "CN=PC14-Updated,OU=Workstations,DC=vlabs07,DC=com".  
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): Y  
PS C:\Users\Administrator>  
  
Workstations (0)  


| Name | Type |
|------|------|
|------|------|


```

■ Step 6: Reset the secure channel **for** Client07 **using** ADAC
System: DC107

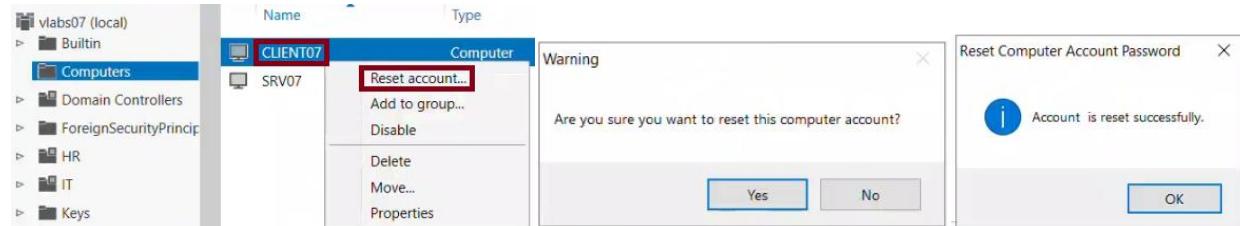
Explanation:

I used ADAC to reset the secure channel **for** Client07 **in** case **it** had issues communicating with the domain.

Steps:

- **In** ADAC, located the computer object named Client07
- Right-clicked **it** > selected Reset Account
- Clicked OK to confirm

Screenshot:



■ Step 7: Test the secure channel from Client07 using PowerShell
System: Client07

Command:

```
-----  
Test-ComputerSecureChannel -Verbose
```

Explanation:

```
-----  
I ran this command from the Windows 11 client (Client07) to check the secure  
channel with the domain.
```

- `Test-ComputerSecureChannel` verifies the trust relationship between the local computer and the domain
- `-Verbose` provides detailed output
- The result "True" and the message confirm the secure channel is working correctly

Screenshot:

```
-----  
PS C:\Users\administrator> Test-ComputerSecureChannel -Verbose  
VERBOSE: Performing the operation "Test-ComputerSecureChannel" on target "CLIENT07".  
True  
VERBOSE: The secure channel between the local computer and the domain vlabs07.com is in good  
condition.
```

Task 2: Redirecting the Computers Container

■ Step 1: Verify the default Computers container location **using** PowerShell
System: DC107

Command:

```
(Get-ADDomain).ComputersContainer
```

Explanation:

I ran this command to see the current default container **for** newly joined computer objects.

- Get-ADDomain retrieves domain-level **configuration**
- .ComputersContainer shows **where** new computer accounts are placed by default
- By default, this points to: CN=Computers,DC=vlabs07,DC=com

Screenshot:

```
PS C:\Users\Administrator> (Get-ADDomain).ComputersContainer
CN=Computers,DC=vlabs07,DC=com
```

■ Step 2: Redirect the default Computers container to the Workstations OU **using** PowerShell
System: DC107

Command:

```
redircmp "OU=Workstations,DC=vlabs07,DC=com"
```

Explanation:

I used the redircmp command to change the default location **for** new computer objects.

- redircmp permanently redirects the default container **for** computer accounts
- This will **move** new domain-joined computers into the Workstations OU automatically

Screenshot:

```
PS C:\Users\Administrator> redircmp "OU=Workstations,DC=vlabs07,DC=com"
Redirection was successful.
```

■ Step 3: Verify that the redirection was applied **using** PowerShell
System: DC107

Command:

(Get-ADDomain).ComputersContainer

Explanation:

I ran the same command again to verify that the redirection was successful.

- The output **should** now show: OU=Workstations,DC=vlabs07,DC=com
- This confirms that new computers will now be created **in** the Workstations OU by default

Screenshot:

```
PS C:\Users\Administrator> (Get-ADDomain).ComputersContainer
OU=Workstations,DC=vlabs07,DC=com
```

Task 3: Moving Computer Objects

Step 1: Move Client07 from the Computers container to the Workstations OU using ADAC

System: DC107

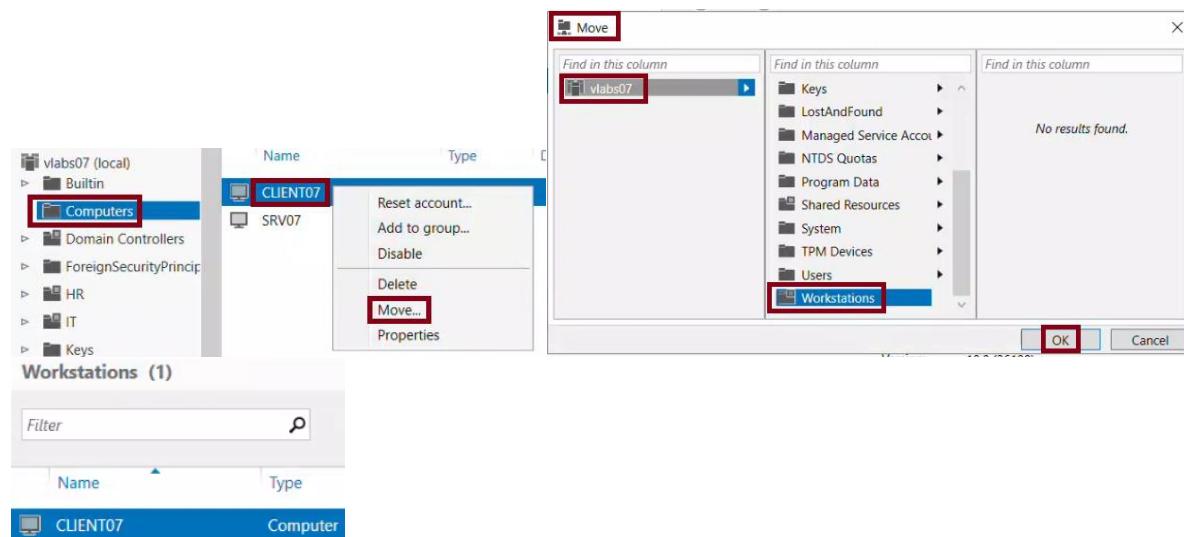
Explanation:

I used Active Directory Administrative Center (ADAC) to move the Client07 computer object into the Workstations OU.

Steps:

- Opened ADAC on DC107
- Navigated to the Computers container
- Right-clicked Client07 and selected "Move"
- Chose the Workstations OU
- Clicked OK to complete the move

Screenshot:



■ Step 2: Create an OU named Servers using PowerShell
System: DC107

Command:

```
-----  
New-ADOrganizationalUnit -Name "Servers" -Path "DC=vlabs07,DC=com" -  
ProtectedFromAccidentalDeletion $true
```

Verification:

```
-----  
Get-ADOrganizationalUnit -Filter 'Name -eq "Servers"' -Properties  
ProtectedFromAccidentalDeletion |  
Select-Object Name, DistinguishedName, ProtectedFromAccidentalDeletion
```

Explanation:

I created a new Organizational Unit named Servers at the root of the vlabs07.com domain.

- New-ADOrganizationalUnit creates a new OU **in** Active Directory
- -Path defines **where** the OU **should** be created (**in** this case, at the domain root)
- -ProtectedFromAccidentalDeletion is a **switch** that controls deletion protection
 - Adding **\$true** explicitly enables this protection
 - **If** I omit **it** or use **\$false**, the OU can be deleted without a warning
- I used the second command to verify that the OU was created and that the protection flag is **set** to True

Screenshot:

```
PS C:\Users\Administrator> New-ADOrganizationalUnit -Name "Servers" -Path "DC=vlabs07,DC=com" -ProtectedFromAccidentalDeletion $true  
PS C:\Users\Administrator> Get-ADOrganizationalUnit -Filter 'Name -eq "Servers"' -Properties ProtectedFromAccidentalDeletion | Select-Object Name, DistinguishedName, ProtectedFromAccidentalDeletion  
  
Name      DistinguishedName          ProtectedFromAccidentalDeletion  
----      -----          -----  
Servers  OU=Servers,DC=vlabs07,DC=com           True
```

■ Step 3: Move SRV07 to the Servers OU **using** PowerShell
System: DC107

Command:

```
-----  
Get-ADComputer -Identity "SRV07" | Move-ADObject -TargetPath  
"OU=Servers,DC=vlabs07,DC=com"
```

Verification:

```
-----  
Get-ADComputer -Identity "SRV07" | Select-Object Name, DistinguishedName
```

Explanation:

I used this command to **move** the SRV07 computer object into the Servers OU.

- Get-ADComputer retrieves the computer object from Active Directory
- Move-ADObject moves **it** to the specified target OU
- I confirmed the **move** was successful by checking the DistinguishedName, which now shows **it** is located **in** the Servers OU

Screenshot:

```
PS C:\Users\Administrator> Get-ADComputer -Identity "SRV07" | Move-ADObject -TargetPath "OU=Servers,DC  
=vlabs07,DC=com"  
  
PS C:\Users\Administrator> Get-ADComputer -Identity "SRV07" | Select-Object Name, DistinguishedName  
Name DistinguishedName  
----  
SRV07 CN=SRV07,OU=Servers,DC=vlabs07,DC=com
```

Task 4: Changing the Default Quota for Creating Computer Objects

■ Step 1: Change the Default Quota for creating Computer Objects to 0 using PowerShell
System: DC107

Command:

```
Set-ADDomain -Identity "vlabs07.com" -Replace @{ "ms-DS-MachineAccountQuota" = 0 }
```

Explanation:

By default, any authenticated user can join up to 10 computers to the domain.

- Set-ADDomain modifies domain-level properties
- -Replace allows me to update the value of specific attributes
- ms-DS-MachineAccountQuota controls how many computer accounts a non-admin user can create
- Setting it to 0 means that only domain admins (or users explicitly delegated) can join computers to the domain

Screenshot:

```
PS C:\Users\Administrator> Set-ADDomain -Identity "vlabs07.com" -Replace @{ "ms-DS-MachineAccountQuota" = 0 }
```

■ Step 2: Verify the change using ADSI Edit
System: DC107

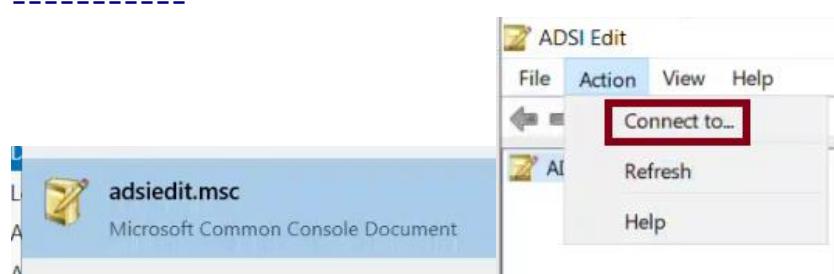
Explanation:

I used ADSI Edit to visually confirm that the ms-DS-MachineAccountQuota attribute was set to 0.

Steps:

- Open ADSI Edit (type `adsiedit.msc` in the Run dialog)
- Connect to the "Default naming context"
- Expand: DC=vlabs07,DC=com
- Right-click the domain > Properties
- Scroll to `ms-DS-MachineAccountQuota` and verify its value is set to 0

Screenshot:



The image consists of three side-by-side windows illustrating the configuration of a naming context in Active Directory.

Left Window: Connection Settings

Name: **Default naming context** (highlighted with a red box)

Path: **LDAP://DC107.vlabs07.com/Default naming context**

Connection Point

Select or type a Distinguished Name or Naming Context:

Select a well-known Naming Context:

Default naming context (highlighted with a red box)

Computer

Select or type a domain or server: (Server | Domain [:port])

Default (Domain or server that you logged in to) (highlighted with a red box)

Use SSL-based Encryption

Advanced... OK Cancel

Middle Window: ADSI Edit

File Action View Help

Default naming context [DC1] > DC=vlabs07,DC=com

Name

New View Rename Refresh Export List... Properties Help

Right Window: DC=vlabs07,DC=com Properties

Attribute Editor Security

Attributes:

Attribute	Value
msDS-AllowedDNSSuffixes	<not set>
msDS-AllUsersTrustQuota	1000
msDS-Behavior-Version	7 = (WIN2016)
msDS-CloudAnchor	<not set>
msDS-ConsistencyChildCount	<not set>
msDS-ConsistencyGuid	<not set>
msDS-EnabledFeature	<not set>
msDS-ExpirePasswordsOnSmartCar...	TRUE
msDS-LastKnownRDN	<not set>
msDS-LoginTimeSyncInterval	<not set>
msDS-MachineAccountQuota	0 (highlighted with a red box)
msDS-NcType	0
msDS-ObjectSeo	<not set>
msDS-PerUserTrustQuota	1

OK Cancel Apply Help

Task 5: Managing Organizational Units (OUs)

- Step 1: Create IT Department OU under vlabs07.com using ADAC System: DC107

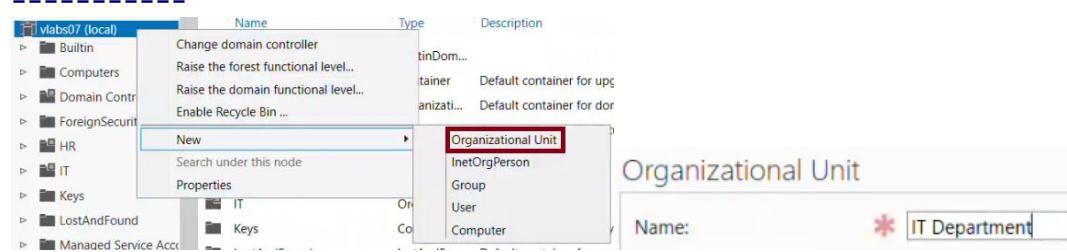
Explanation:

I used Active Directory Administrative Center (ADAC) to create a new Organizational Unit called IT Department at the root of the vlabs07.com domain.

Steps:

- Logged in to DC107
- Opened Active Directory Administrative Center
- Navigated to the vlabs07.com domain
- Right-clicked the domain name > New > Organizational Unit
- Named the OU: IT Department
- Clicked OK to create it

Screenshot:



- Step 2: Verify that IT Department OU has been created using PowerShell System: DC107

Command:

```
Get-ADOrganizationalUnit -Filter 'Name -eq "IT Department"' | Select-Object Name, DistinguishedName
```

Explanation:

I used this command to confirm that the IT Department OU was created successfully.

- Get-ADOrganizationalUnit retrieves OU information from Active Directory
- **-Filter 'Name -eq "IT Department"** searches for the exact OU by name
- **Select-Object** shows the name and location in the directory

Screenshot:

```
PS C:\Users\Administrator> Get-ADOrganizationalUnit -Filter 'Name -eq "IT Department"' | Select-Object Name, DistinguishedName
Name          DistinguishedName
----          -----
IT Department OU=IT Department,DC=vlabs07,DC=com
```

■ Step 3: Add a description to the IT Department OU **using** PowerShell
System: DC107

Command:

```
-----  
Set-ADOrganizationalUnit -Identity "OU=IT Department,DC=vlabs07,DC=com" -  
Description "Handles IT operations and security"
```

Verification:

```
-----  
Get-ADOrganizationalUnit -Filter 'Name -eq "IT Department"' -Properties  
Description | Select-Object Name, Description
```

Explanation:

- ```

I added a description to the IT Department OU to indicate its purpose.

- Set-ADOrganizationalUnit modifies properties of an existing OU
- -Identity uses the full Distinguished Name of the OU
- -Description sets a note that appears in Active Directory properties
- The verification command confirms that the description is visible and
correct in AD
```

Screenshot:

```
PS C:\Users\Administrator> Set-ADOrganizationalUnit -Identity "OU=IT Department,DC=vlabs07,DC=com" -De
scription "Handles IT operations and security"
PS C:\Users\Administrator> Get-ADOrganizationalUnit -Filter 'Name -eq "IT Department"' -Properties Des
cription | Select-Object Name, Description

Name Description
---- -----
IT Department Handles IT operations and security
```

■ Step 4: Rename IT Department to IT Services **using** ADAC  
System: DC107

Explanation:

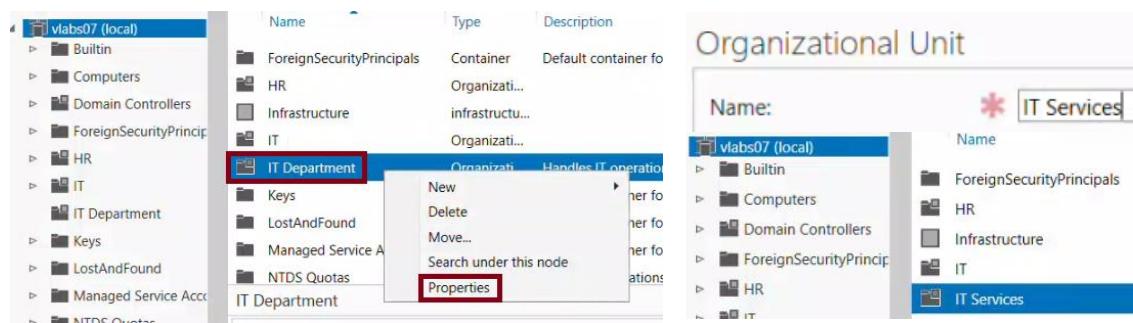
```

I used Active Directory Administrative Center (ADAC) to rename the IT
Department OU to IT Services.
```

Steps:

- Opened ADAC on DC107
- Navigated to the vlabs07.com domain
- Located the IT Department OU **in** the right-hand pane
- Double-clicked the IT Department OU to open its properties
- **In** the "Name" field, changed the name to: IT Services
- Clicked OK to apply the change

## Screenshot:



Step 5: Create Finance OU using ADAC and verify the creation using PowerShell  
System: DC107

## Explanation:

I created the Finance OU in ADAC and then verified its existence using PowerShell.

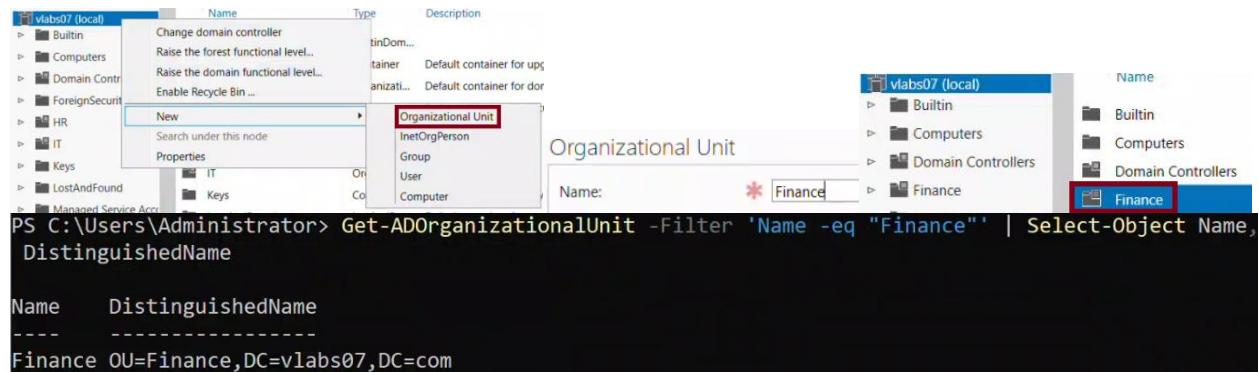
### ADAC Steps:

- Navigated to vlabs07.com
- Right-clicked the domain > New > Organizational Unit
- Named the OU: Finance
- Clicked OK

### PowerShell Verification:

```
Get-ADOrganizationalUnit -Filter 'Name -eq "Finance"' | Select-Object Name, DistinguishedName
```

## Screenshot:



■ Step 6: Delete the Finance OU **using** PowerShell and verify the deletion  
System: DC107

Command:

```

Set-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs07,DC=com" -
ProtectedFromAccidentalDeletion $false
Remove-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs07,DC=com" -
Confirm:$false
```

Verification:

```

Get-ADOrganizationalUnit -Filter 'Name -eq "Finance"'
```

Explanation:

```

Before deleting the Finance OU, I disabled accidental deletion protection.
Then I used Remove-ADOrganizationalUnit to delete it, followed by a
verification command.
```

- Set-ADOrganizationalUnit unprotects the OU
- Remove-ADOrganizationalUnit deletes the OU
- **If** the verification command returns nothing, **it** means the OU was  
successfully deleted

Screenshot:

```
PS C:\Users\Administrator> Set-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs07,DC=com" -Protecte
dFromAccidentalDeletion $false
```

```
PS C:\Users\Administrator> Remove-ADOrganizationalUnit -Identity "OU=Finance,DC=vlabs07,DC=com" -Confir
m:$false
```

```
PS C:\Users\Administrator> Get-ADOrganizationalUnit -Filter 'Name -eq "Finance"'
```

## Task 6: Delegating Control of an OU

---

Step 1: Delegate Reset Password permissions to Sophie Lambert on the IT Services OU using ADUC  
System: DC107

Explanation:

---

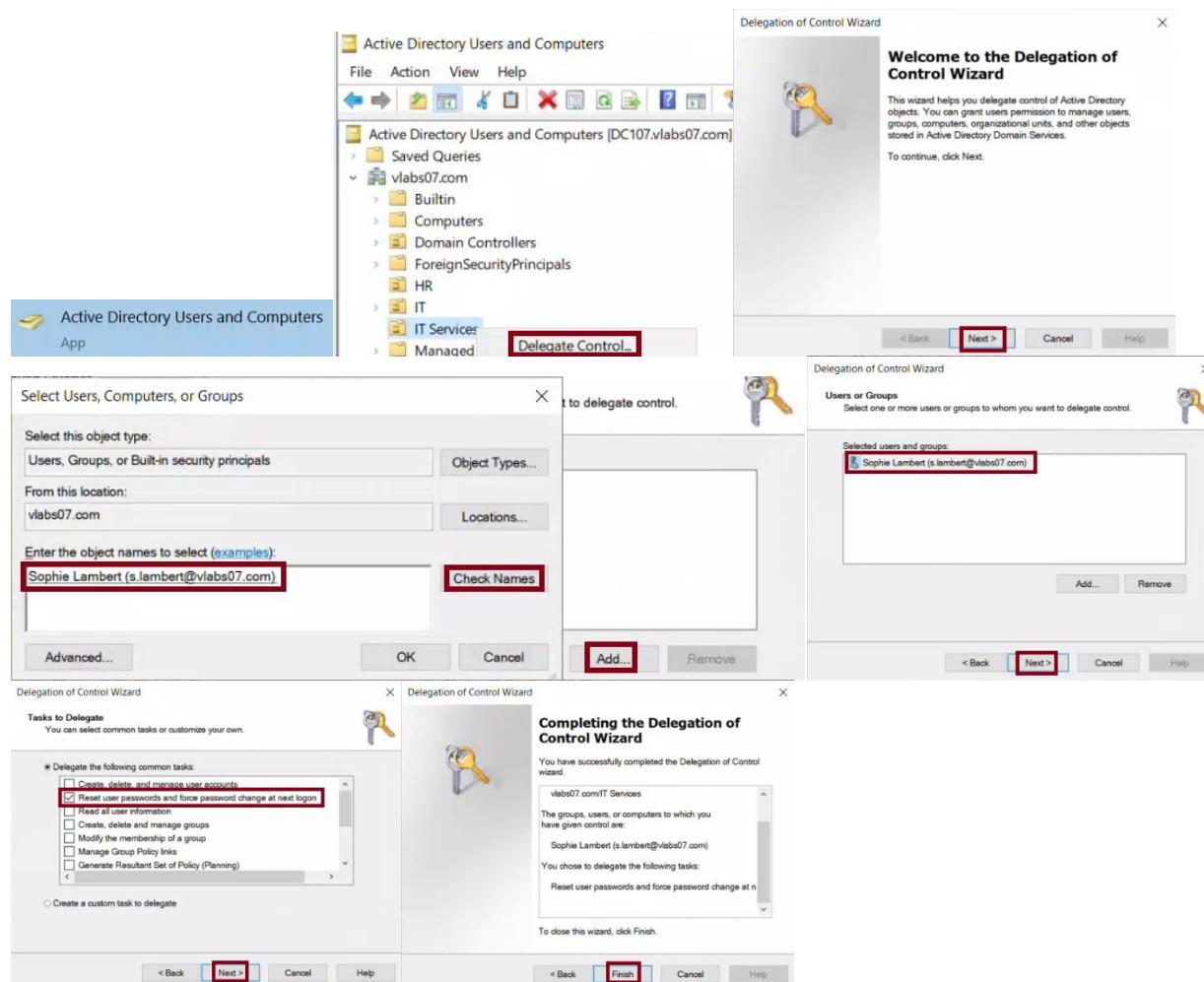
I used Active Directory Users and Computers (ADUC) to delegate "Reset Password" permissions to Sophie Lambert on the IT Services OU.

Steps:

- Opened ADUC on DC107 (type `dsa.msc` in the Run dialog)
- Navigated to the IT Services OU
- Right-clicked the OU and selected "Delegate Control..."
- Clicked Next in the wizard
- Clicked "Add..." and selected Sophie Lambert
- Clicked Next
- Chose "Reset user passwords and force password change at next logon"
- Clicked Next > Finish to complete the delegation

Screenshot:

---



Step 2: Check which users or groups have been delegated control over the IT Services OU using ADUC  
 System: DC107

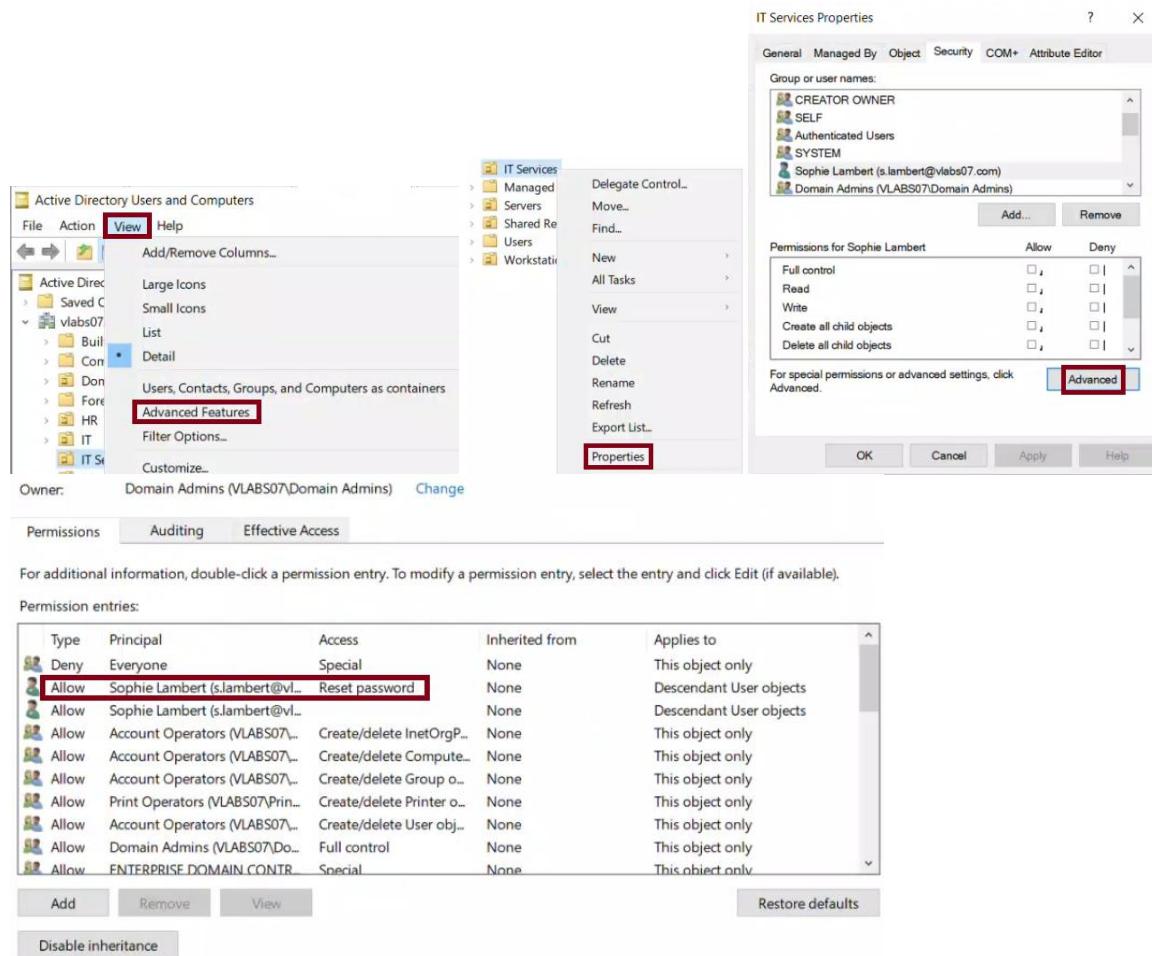
#### Explanation:

I used Active Directory Users and Computers (ADUC) to check which users have delegated permissions on the IT Services OU. To view the Security tab, I had to enable Advanced Features first.

#### Steps:

- Opened ADUC on DC107 (type `dsa.msc` in the Run dialog)
- Clicked the "View" menu and selected "Advanced Features"
- Navigated to the IT Services OU
- Right-clicked IT Services > Properties
- Clicked on the "Security" tab
- Verified that Sophie Lambert was listed with delegated permissions
- Clicked "Advanced" to view more details about the specific rights

#### Screenshot:



■ Step 3: List the delegation permissions on the IT Services OU **using**  
PowerShell  
System: DC107

Command:

```

dsacl "OU=IT Services,DC=vlabs07,DC=com"
```

Explanation:

```

I used the `dsacl` command to view the delegated permissions applied to the
IT Services OU.
```

- dsacl displays the access control list (ACL) of an AD object
- I ran it on the full Distinguished Name of the IT Services OU
- The output lists all permissions, including delegated rights for users like Sophie Lambert

Screenshot:

```
PS C:\Users\Administrator> dsacl "OU=IT Services,DC=vlabs07,DC=com"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins

Access list:
Deny Everyone SPECIAL ACCESS
 DELETE
 DELETE TREE
Allow VLABS07\Domain Admins FULL CONTROL
Allow NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS
 SPECIAL ACCESS
 READ PERMISSONS
 LIST CONTENTS
 READ PROPERTY
 LIST OBJECT
Allow NT AUTHORITY\Authenticated Users
 SPECIAL ACCESS
 READ PERMISSONS
 LIST CONTENTS
 READ PROPERTY
 LIST OBJECT
Allow NT AUTHORITY\SYSTEM FULL CONTROL

Inherited to user
Allow VLABS07\s.lambert Reset Password
Allow VLABS07\s.lambert SPECIAL ACCESS for pwdLastSet
 WRITE PROPERTY
 READ PROPERTY
```

## Task 7: Managing Permissions on OUs

---

Step 1: Deny deletion of objects inside IT Services OU **for** Sophie Lambert **using** PowerShell  
System: DC107

Command:

---

```
dsacl "OU=IT Services,DC=vlabs07,DC=com" /D "vlabs07\s.lambert:SD"
```

Validation:

---

```
dsacl "OU=IT Services,DC=vlabs07,DC=com"
```

Explanation:

---

I used the dsacl command to deny Sophie Lambert the ability to delete the IT Services OU.

- /D sets a Deny permission
- SD stands **for** Standard Delete
- This prevents her from deleting the OU object itself
- The validation confirms that a deny entry was added correctly

Screenshot:

---

```
PS C:\Users\Administrator> dsacl "OU=IT Services,DC=vlabs07,DC=com" /D "vlabs07\s.lambert:SD"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins
PS C:\Users\Administrator> dsacl "OU=IT Services,DC=vlabs07,DC=com"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins

Access list:
Deny VLABS07\s.lambert SPECIAL ACCESS
 DELETE
```

■ Step 2: Grant Generic Read (GR) permission on the IT Services OU to Sophie Lambert using PowerShell  
System: DC107

Command:

```

dsacl "OU=IT Services,DC=vlabs07,DC=com" /G "vlabs07\s.lambert:GR"
```

Validation:

```

dsacl "OU=IT Services,DC=vlabs07,DC=com"
```

Explanation:

```

I used dsacl to grant Sophie Lambert Generic Read (GR) permission on the IT Services OU.
```

- `/G` stands for "Grant" – it assigns an **Allow** permission.
- GR allows her to view the OU and its contents without modifying anything
- This matches the permissions format taught in the slides
- The validation output confirms that the appropriate permissions were applied correctly

Screenshot:

```

PS C:\Users\Administrator> dsacl "OU=IT Services,DC=vlabs07,DC=com" /G "vlabs07\s.lambert:GR"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins
PS C:\Users\Administrator> dsacl "OU=IT Services,DC=vlabs07,DC=com" /G "vlabs07\s.lambert:GR"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins

Access list:
Deny VLABS07\s.lambert SPECIAL ACCESS
Deny Everyone SPECIAL ACCESS
Allow VLABS07\s.lambert READ PERMISSONS
LIST CONTENTS
READ PROPERTY
LIST OBJECT
```

■ Step 3: Grant `write` permission to modify the `telephoneNumber` attribute **for** users **in** the HR OU **using** PowerShell  
System: DC107

### Command:

```
dsaccls "OU=HR,DC=vlabs07,DC=com" /G "vlabs07\GG_HR_Admins:WP;telephoneNumber"
```

## Validation:

```
dsaccls "OU=HR, DC=vlabs07, DC=com"
```

Expected output **should** include:

Allow VLABS07\GG HR Admins

## WRITE PROPERTY

Property 'telephoneNumber'

#### Explanation:

I granted the GG\_HR\_Admins security group permission to modify the telephoneNumber attribute for user accounts in the HR OU.

- `'/G` means "Grant" – it gives Allow permissions.
  - `vlabs07\GG\_HR\_Admins` is the group that receives the permission.
  - `WP` stands for \*\*Write Property\*\*.
  - `telephoneNumber` is the attribute being delegated.
  - This command matches the format shown in the course slide and applies the permission without needing object type or inheritance flags.

## Screenshot:

```
PS C:\Users\Administrator> dsacl "OU=HR,DC=vlabs07,DC=com" /G "vlabs07\GG_HR_Admins:WP;telephonenumber"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins
PS C:\Users\Administrator> dsacl "OU=HR,DC=vlabs07,DC=com" |
Allow VLABS07\GG_HR_Admins SPECIAL ACCESS for telephoneNumber
 WRITE PROPERTY
```

■ Step 4: Remove all permissions **for** Lucas Bernard on the HR OU **using** PowerShell  
System: DC107

Command:

```

dsacl "OU=HR, DC=vlabs07, DC=com" /R "vlabs07\l.bernard"
```

Explanation:

I removed all delegated permissions **for** Lucas Bernard on the HR OU.

- **/R** revokes all explicit permissions **for** the specified user

Screenshot:

```
PS C:\Users\Administrator> dsacl "OU=HR,DC=vlabs07,DC=com" /R "vlabs07\l.bernard"
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins
```

■ Step 5: Check delegated users and permissions on the HR OU **using** ADUC  
System: DC107

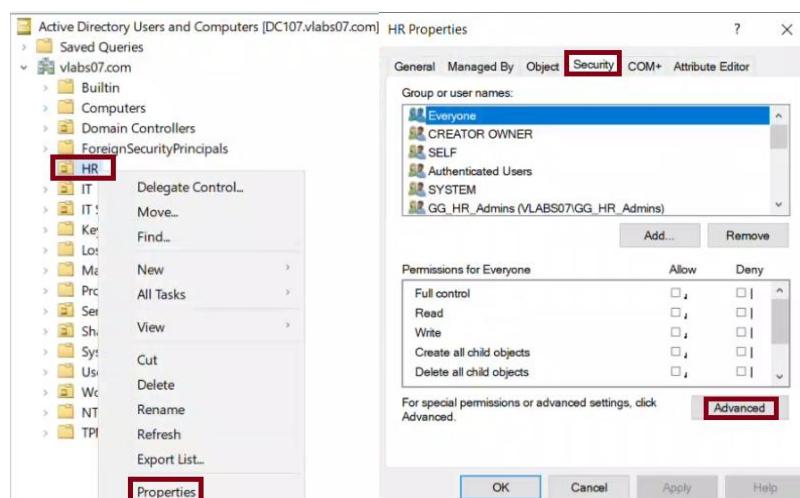
Explanation:

I opened ADUC to check which users have permissions on the HR OU.

Steps:

- Opened ADUC (`dsa.msc`)
- Clicked View > Enabled "Advanced Features"
- Navigated to the HR OU
- Right-clicked > Properties > Security tab
- Clicked "Advanced" to view detailed permissions
- Verified that Lucas Bernard was no longer listed

Screenshot:



**Note:**

Although GG\_HR\_Admins appears **in** the Security > Advanced permission list, the Access column may be blank.

This is normal when permissions are applied at the attribute level (like telephoneNumber), because the GUI doesn't display those details **in** this summary view.

To confirm that the permission was applied, I used the dsacl command (Step 3), which showed:

```
Allow VLABS07\GG_HR_Admins
 WRITE PROPERTY
 telephoneNumber
```

The screenshot shows the Windows Security dialog box for a specific object. At the top, it says "Owner: Domain Admins (VLABS07\Domain Admins) Change". Below that are tabs for "Permissions", "Auditing", and "Effective Access", with "Permissions" being the active tab. A note below the tabs says "For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available)." The main area is titled "Permission entries:" and contains a list of entries. The first entry is selected, showing "Allow" for "GG\_HR\_Admins (VLABS07\GG\_HR\_Admins)" with "Special" access and "None" inheritance. The second entry is "Deny Everyone" with "None" access and "None" inheritance. Other entries include "Allow Account Operators", "Allow Account Operators", "Allow Account Operators", "Allow Print Operators", "Allow Account Operators", "Allow Domain Admins", and "Allow ENTERPRISE DOMAIN CONTROLLERS". At the bottom of the dialog are buttons for "Add", "Remove", "View", "Restore defaults", "Disable inheritance", "OK", "Cancel", and "Apply".

■ Step 6: Reset permissions on the IT Services OU to default **using** PowerShell  
System: DC107

Command:

```

dsacl "OU=IT Services,DC=vlabs07,DC=com" /resetDefaultDacl
```

Validation:

```

dsacl "OU=IT Services,DC=vlabs07,DC=com"
```

Expected output:

Only inherited permissions **should** remain – custom entries like Sophie Lambert **should** no longer be listed

Explanation:

```

I used dsacl with the /resetDefaultDacl option to reset the permissions on
the IT Services OU to their default inherited state.
```

- This removes any custom Allow or Deny rules
- It ensures the OU inherits permissions from the parent container

Screenshot:

```
PS C:\Users\Administrator> dsacls "OU=IT Services,DC=vlabs07,DC=com" /resetDefaultDacl
Owner: VLABS07\Domain Admins
Group: VLABS07\Domain Admins
PS C:\Users\Administrator> dsacls "OU=IT Services,DC=vlabs07,DC=com"
```

Step 7: Verify that permissions on the IT Services OU were reset using ADUC  
System: DC107

Explanation:

I confirmed that all custom permissions on the IT Services OU were removed.

Steps:

- Opened ADUC and enabled Advanced Features
- Navigated to the IT Services OU
- Right-clicked > Properties > Security > Advanced
- Verified that only inherited permissions remained

Screenshot:

Active Directory Users and Computers [DC107.vlabs07.com]

IT Services Properties

General Managed By Object Security COM+ Attribute Editor

Group or user names:

| CREATOR OWNER                                 |
|-----------------------------------------------|
| SELF                                          |
| Authenticated Users                           |
| SYSTEM                                        |
| Domain Admins (VLABS07\Domain Admins)         |
| Enterprise Admins (VLABS07\Enterprise Admins) |

Add... Remove

Permissions for CREATOR OWNER

|                          | Allow                    | Deny                     |
|--------------------------|--------------------------|--------------------------|
| Full control             | <input type="checkbox"/> | <input type="checkbox"/> |
| Read                     | <input type="checkbox"/> | <input type="checkbox"/> |
| Write                    | <input type="checkbox"/> | <input type="checkbox"/> |
| Create all child objects | <input type="checkbox"/> | <input type="checkbox"/> |
| Delete all child objects | <input type="checkbox"/> | <input type="checkbox"/> |

For special permissions or advanced settings, click Advanced.

Owner: Domain Admins (VLABS07\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 (VLABS07\Account Operato... | Create/delete InetOrgP...  | None           | This object only |
| Allow | Account Operators (VLABS07\Account Operato... | Create/delete Compute...   | None           | This object only |
| Allow | Account Operators (VLABS07\Account Operato... | Create/delete Group o...   | None           | This object only |
| Allow | Print Operators (VLABS07\Print Operators)     | Create/delete Printer o... | None           | This object only |
| Allow | Account Operators (VLABS07\Account Operato... | Create/delete User obj...  | None           | This object only |
| Allow | Domain Admins (VLABS07\Domain Admins)         | Full control               | None           | This object only |
| Allow | ENTERPRISE DOMAIN CONTROLLERS                 | Special                    | None           | This object only |
| Allow | Authenticated Users                           | Special                    | None           | This object only |
| Allow | SYSTEM                                        | Full control               | None           | This object only |