

PS&IT Training – Week 1 Report

Virtual Network Setup, Windows Server Configuration & GPO Implementation

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Organization:

Contour Software

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Contents

Task 1: Virtual Machine Setup	3
Task 2: Server Role Installation and Organizational Setup	6
Task 3 Domain Registration	15
Task 4 Validation and Testing	16

Task 1: Virtual Machine Setup

Home

WORKSTATION PRO™ 25H2

+

Create a New Virtual Machine

Open a Virtual Machine

Connect to a Remote Server

vmware

VM Setup

Windows 10 x64

▶ Power on this virtual machine

🔧 Edit virtual machine settings

▼ Devices

Memory	4 GB
Processors	8
Hard Disk (NVMe)	60 GB
CD/DVD (SATA)	Using file C:\Use...
Network Adapter	Host-only
USB Controller	Present
Sound Card	Auto detect
Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.

▼ Virtual Machine Details

State:

Powered off

Configuration file:

D:\Windows 10\Windows 10 x64.vmx

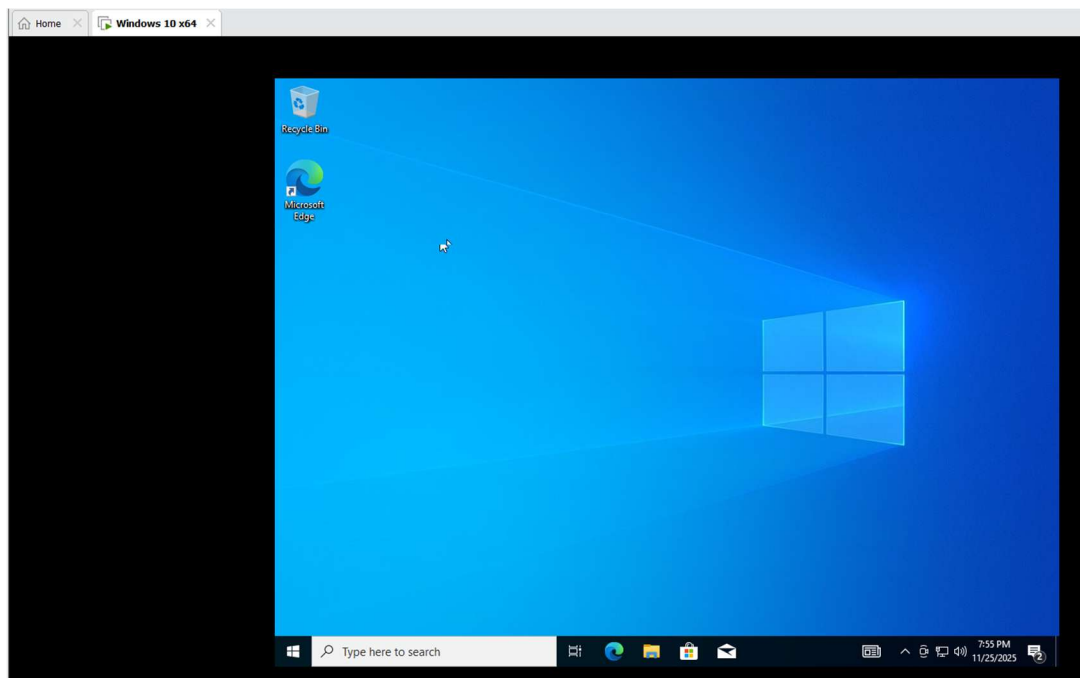
Hardware compatibility:

Workstation 25H2 virtual machine

Primary IP address:

Network information is not available

Windows 10 Client Machine



Windows 10 Client Machine

Windows Server 2016

Power on this virtual machine

Edit virtual machine settings

Devices

Memory	4 GB
Processors	8
Hard Disk (NVMe)	60 GB
CD/DVD (SATA)	Using file C:\Use...
Network Adapter	Host-only
USB Controller	Present
Sound Card	Auto detect
Display	Auto detect

Description

Type here to enter a description of this virtual machine.

Virtual Machine Details

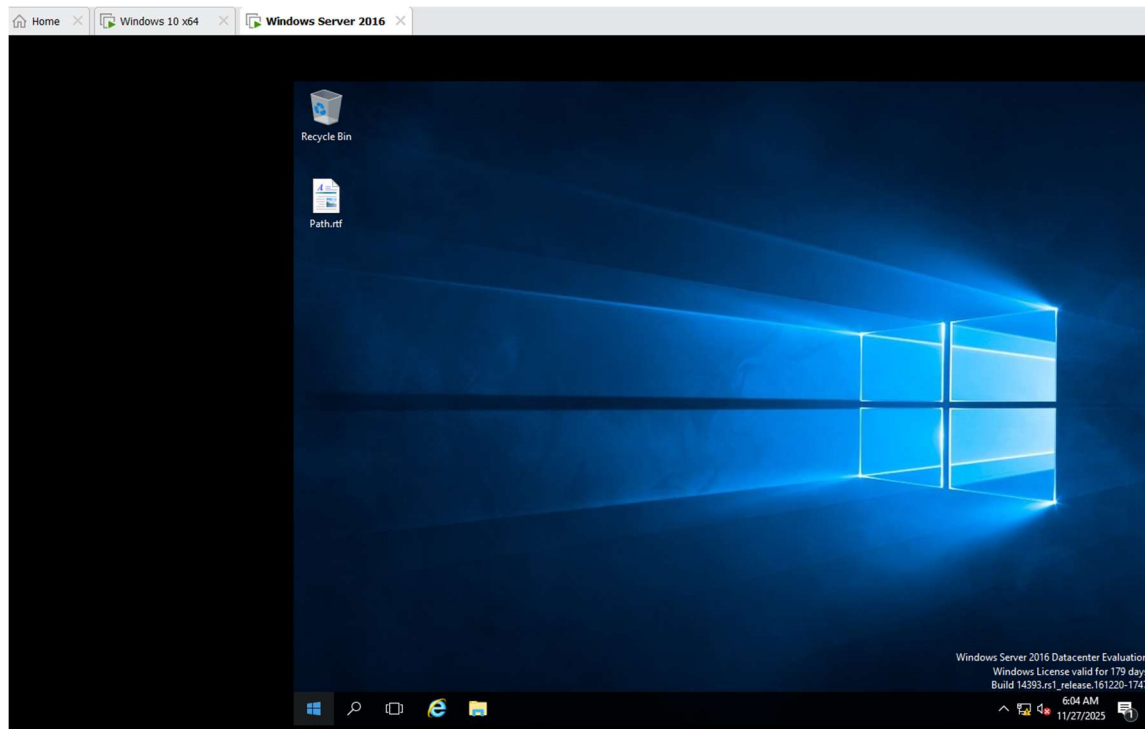
State: Powered off

Configuration file: D:\Window server 2016\Windows Server 2016.vmx

Hardware compatibility: Workstation 25H2 virtual machine

Primary IP address: Network information is not available

Windows Server 2016 (Server Machines)



Windows Server 2016 (Server Machines) 1

Task 2: Server Role Installation and Organizational Setup

Server Manager

Server Manager ▸ Dashboard

Manage Tools View Help

WELCOME TO SERVER MANAGER

QUICK START

- 1 Configure this local server
- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group
- 5 Connect this server to cloud services

Hide

ROLES AND SERVER GROUPS
Roles: 4 | Server groups: 1 | Servers total: 1

AD DS	1	DHCP	1
Manageability		Manageability	
Events		Events	
Services		Services	
Performance		Performance	
BPA results		BPA results	

Server Manager

Active Directory Users and Com	Name	Type	Description
> Saved Queries			
▼ shayan.local			
> Built-in	Admin	Organizational...	
> Computers	HR	Organizational...	
> Domain Controllers	IT	Organizational...	
> ForeignSecurityPrincipal			
> Managed Service Account			
▼ Root Organization			
▼ Location 1			
Admin			
HR			
IT			
▼ Location 2			
Admin			
HR			
IT			
▼ Location 3			
Admin			
HR			
IT			

Active Directory Structure Location 1

Active Directory Users and Com	Name	Type	Description
> Saved Queries			
▼ shayan.local			
> Built-in	Admin	Organizational...	
> Computers	HR	Organizational...	
> Domain Controllers	IT	Organizational...	
> ForeignSecurityPrincipal			
> Managed Service Account			
▼ Root Organization			
▼ Location 1			
Admin			
HR			
IT			
▼ Location 2			
Admin			
HR			
IT			
▼ Location 3			
Admin			
HR			
IT			

Active Directory Structure Location 2

	Name	Type	Description
Active Directory Users and Com			
> Saved Queries			
▼ shayan.local			
> Built-in			
> Computers			
> Domain Controllers			
> ForeignSecurityPrincipal:			
> Managed Service Account			
▼ Root Organization			
▼ Location 1			
Admin	Admin	Organizational...	
HR	HR	Organizational...	
> IT	IT	Organizational...	
▼ Location 2			
Admin			
HR			
> IT			
▼ Location 3			
Admin			
HR			
> IT			

Active Directory Structure Location 3

Name	Type	Description
Admin Admin	User	
Admin Guest	User	
Admin User	User	
Admin_Group	Security Group...	

Admin Department Users

Name	Type	Descri
HR Admin	User	
HR Guest	User	
HR User	User	
HR_Group	Security Group...	

HR Department Users

Name	Type	Description
IT Admin	User	
IT Guest	User	
IT User	User	
IT_Group	Security Group...	

IT Department Users

Group Policy Management
Forest: shayan.local
Domains
shayan.local
Default Domain Policy
Domain Controllers
Root Organization
Location 1
Admin
HR
IT
Location 2
Location 3
Group Policy Objects
Admin Wallpaper
Block_Control_Panel
Default Domain Control
Default Domain Policy
Guest
HR Wallpaper GPO
IT Wallpaper
Registered_User

Admin Wallpaper

Scope
Details
Settings
Delegation
Status

Links
Display links in this location: shayan.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled	Path
Admin	No	Yes	shayan.local/Root Organization/Location 3/Admin
Admin	No	Yes	shayan.local/Root Organization/Location 2/Admin
Admin	No	Yes	shayan.local/Root Organization/Location 1/Admin

Security Filtering
The settings in this GPO can only apply to the following groups, users, and computers:

Name
Authenticated Users

Admin Department Wallpaper

Advanced Security Settings for Admin

Name: C:\Shared_Folder\Admin
Owner: Administrator (SHAYAN\Administrator)

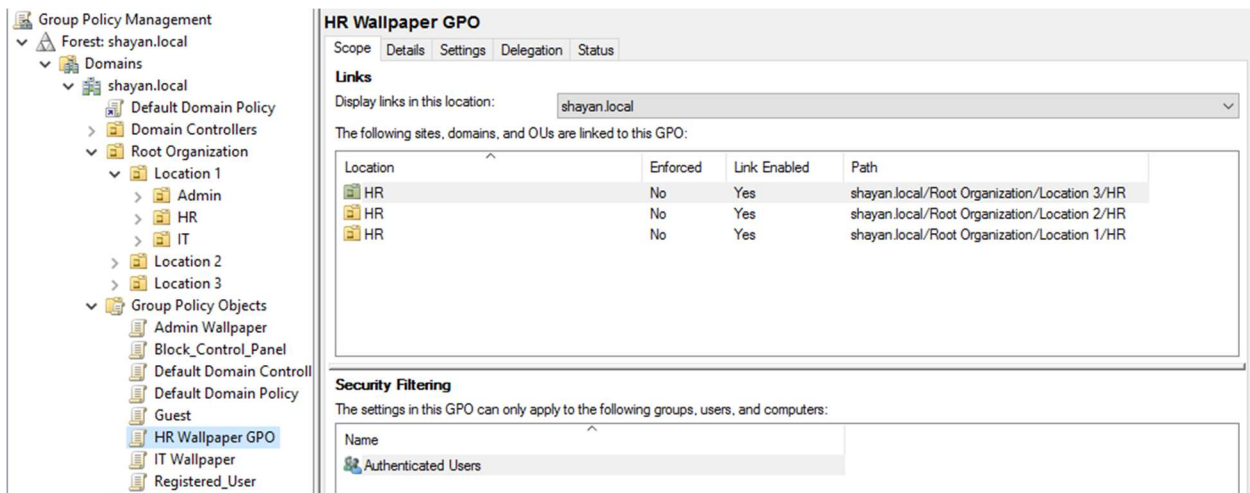
Permissions
Share
Auditing
Effective Access

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

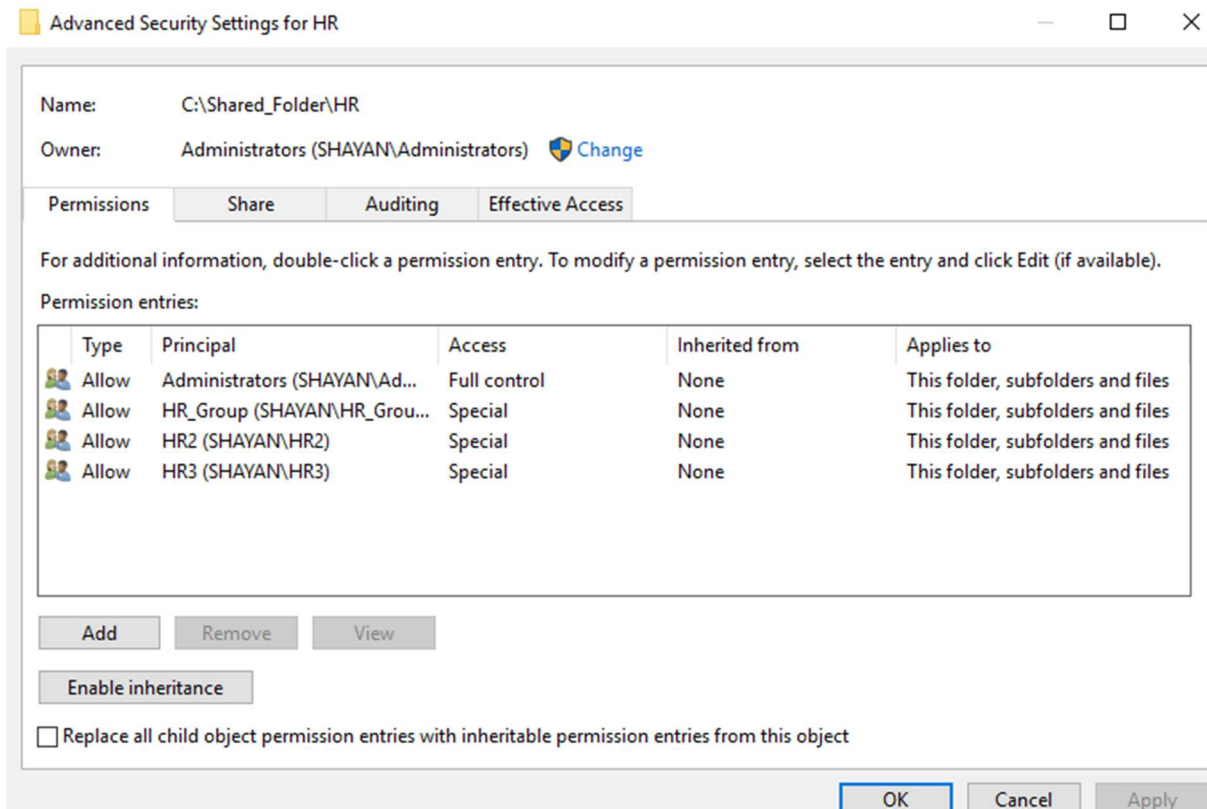
Permission entries:

Type	Principal	Access	Inherited from	Applies to
Allow	Admin_Group (SHAYAN\Adm...	Read	None	This folder, subfolders and files
Allow	Admin2 (SHAYAN\Admin2)	Read	None	This folder, subfolders and files
Allow	Admin3 (SHAYAN\Admin3)	Read	None	This folder, subfolders and files
Allow	Administrators (SHAYAN\Ad...	Full control	None	This folder, subfolders and files

Applying File Permissions to Admin



Wallpaper for HR Department



Applying File Permission for HR users

Group Policy Management

Forest: shayan.local

Domains

shayan.local

Default Domain Policy

Domain Controllers

Root Organization

Location 1

Admin

HR

IT

Location 2

Location 3

Group Policy Objects

Admin Wallpaper

Block_Control_Panel

Default Domain Control

Default Domain Policy

Guest

HR Wallpaper GPO

IT Wallpaper

Registered_User

WMI Filters

Starter GPOs

IT Wallpaper

ScopeDetailsSettingsDelegationStatus

Links

Display links in this location: shayan.local

The following sites, domains, and OUs are linked to this GPO:

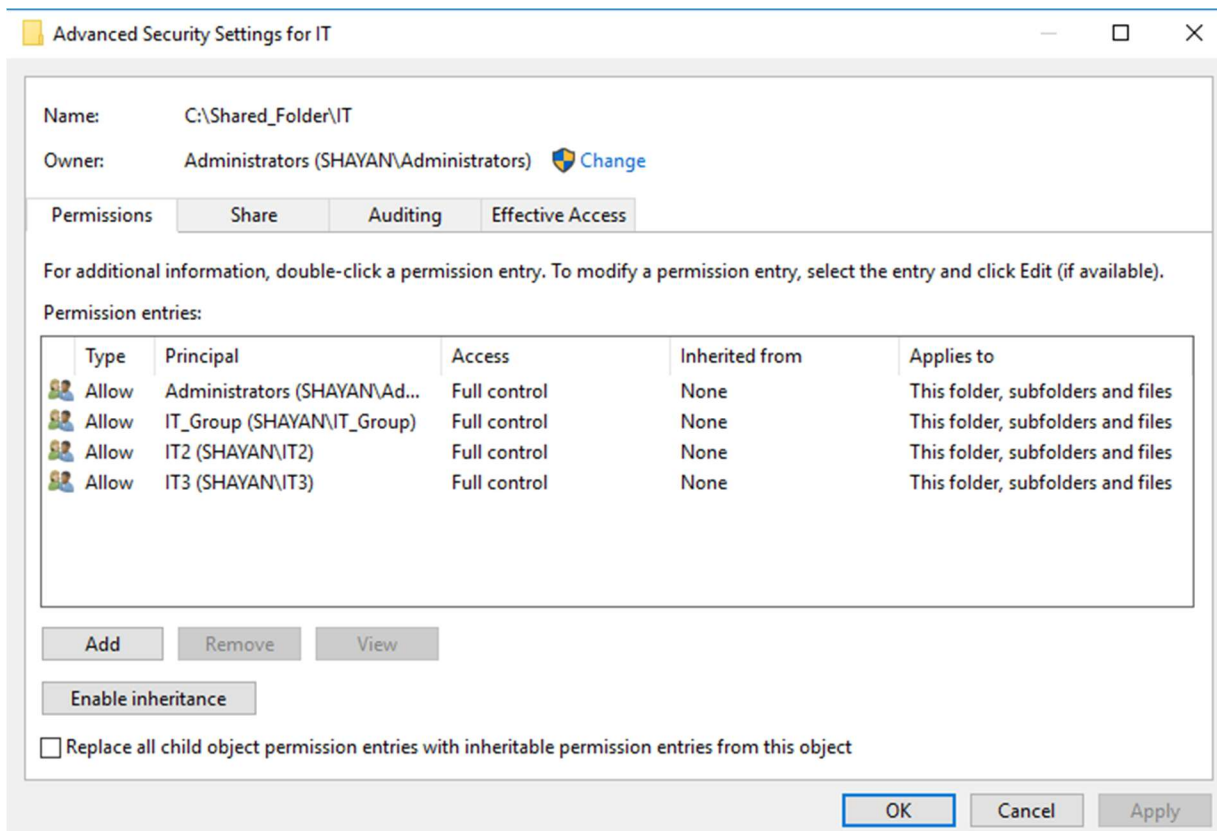
Location	Enforced	Link Enabled	Path
IT	No	Yes	shayan.local/Root Organization/Location 3/IT
IT	No	Yes	shayan.local/Root Organization/Location 2/IT
IT	No	Yes	shayan.local/Root Organization/Location 1/IT

Security Filtering

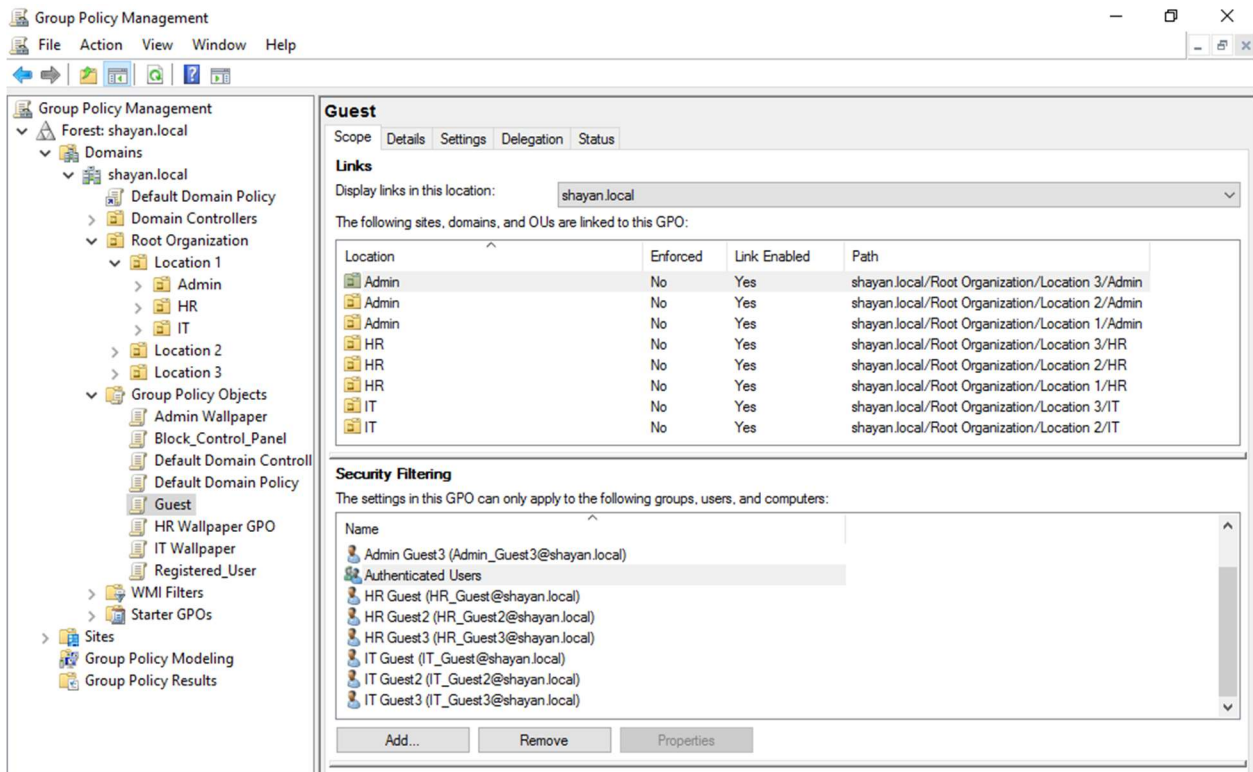
The settings in this GPO can only apply to the following groups, users, and computers:

Name
Authenticated Users

Wallpaper for IT



Applying File Permission for IT users



Applying Security Filtering to all Guest users from each department so that policy only be implemented to these users

Control Panel			
Select an item to view its description.			
Setting	State	Comment	
Add or Remove Programs			
Display			
Personalization			
Printers			
Programs			
Regional and Language Options			
Hide specified Control Panel items	Not configured	No	
Always open All Control Panel Items when opening Control ...	Not configured	No	
Prohibit access to Control Panel and PC settings	Enabled	No	
Show only specified Control Panel items	Not configured	No	

Guest Users Can only login

Group Policy Management
Forest: shayan.local
Domains
shayan.local
Default Domain Policy
Domain Controllers
Root Organization
Location 1
Admin
HR
IT
Location 2
Location 3
Group Policy Objects
Admin Wallpaper
Block Control Panel
Default Domain Controll
Default Domain Policy
Guest
HR Wallpaper GPO
IT Wallpaper
Registered_User
WMI Filters
Starter GPOs
Sites
Group Policy Modeling
Group Policy Results

Registered_User

Scope
Details
Settings
Delegation
Status

Links

Display links in this location: shayan.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled	Path
Admin	No	Yes	shayan.local/Root Organization/Location 3/Admin
Admin	No	Yes	shayan.local/Root Organization/Location 2/Admin
Admin	No	Yes	shayan.local/Root Organization/Location 1/Admin
HR	No	Yes	shayan.local/Root Organization/Location 3/HR
HR	No	Yes	shayan.local/Root Organization/Location 2/HR
HR	No	Yes	shayan.local/Root Organization/Location 1/HR
IT	No	Yes	shayan.local/Root Organization/Location 3/IT
IT	No	Yes	shayan.local/Root Organization/Location 2/IT

Security Filtering

The settings in this GPO can only apply to the following groups, users, and computers:

Name

Admin User (Admin_User@shayan.local)
Admin User2 (Admin_User2@shayan.local)
Admin User3 (Admin_User3@shayan.local)
Authenticated Users
HR User (HR_User@shayan.local)
HR User2 (HR_User2@shayan.local)
HR User3 (HR_User3@shayan.local)
IT User (IT_User@shayan.local)

Applying Security Filtering to all Registered users from each department so that policy only be implemented to these users

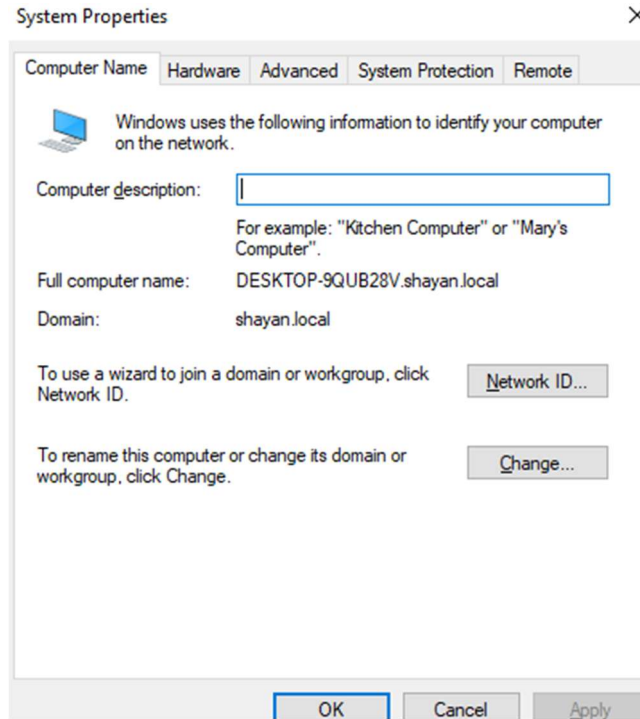
Desktop

Select an item to view its description.

Setting	State	Comment
Enable Active Desktop	Enabled	No
Disable Active Desktop	Not configured	No
Prohibit changes	Not configured	No
Desktop Wallpaper	Not configured	No
Prohibit adding items	Not configured	No
Prohibit closing items	Not configured	No
Prohibit deleting items	Not configured	No
Prohibit editing items	Not configured	No
Disable all items	Not configured	No
Add/Delete items	Not configured	No
Allow only bitmapped wallpaper	Not configured	No

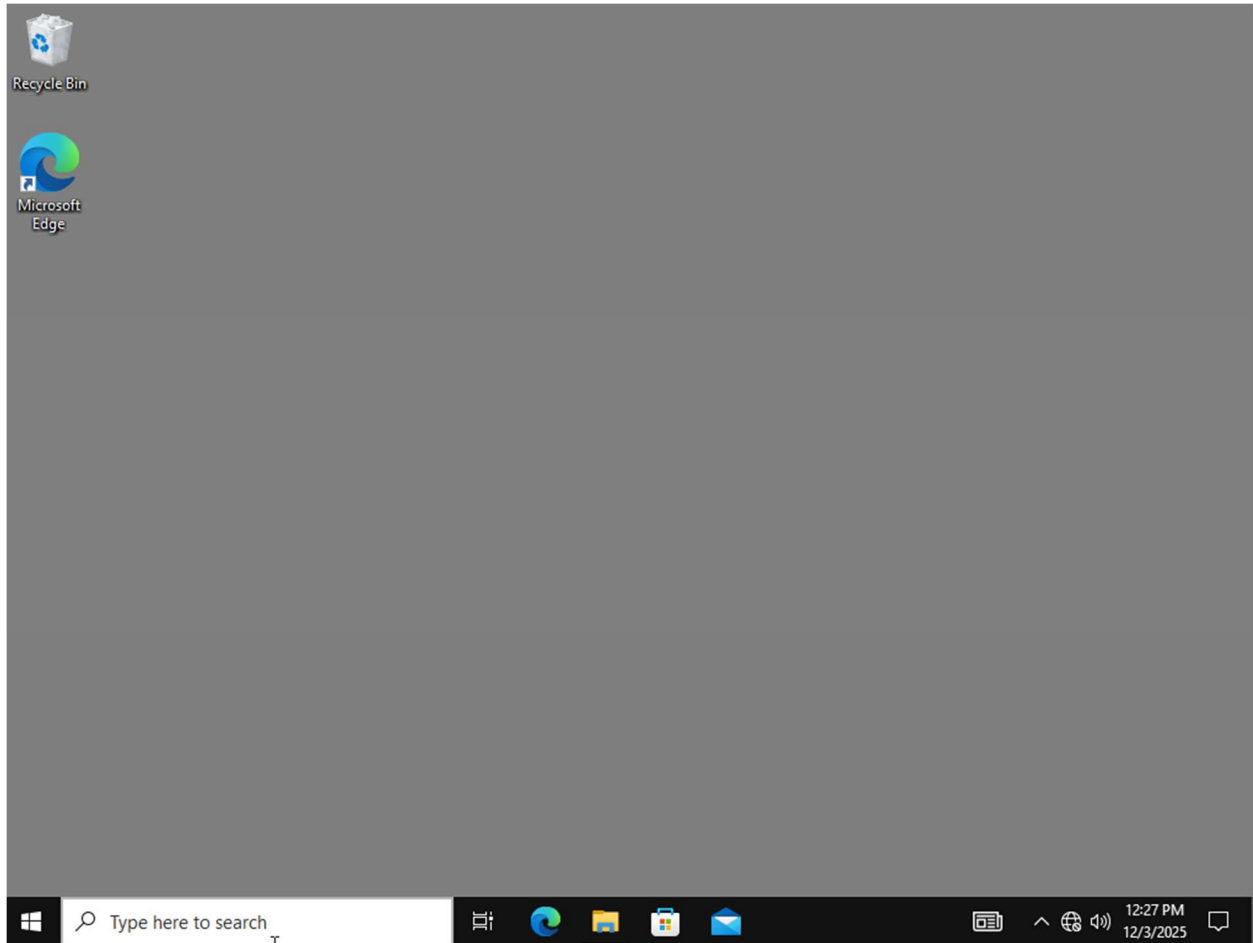
Enable Active Desktop for Register Users

Task 3 Domain Registration

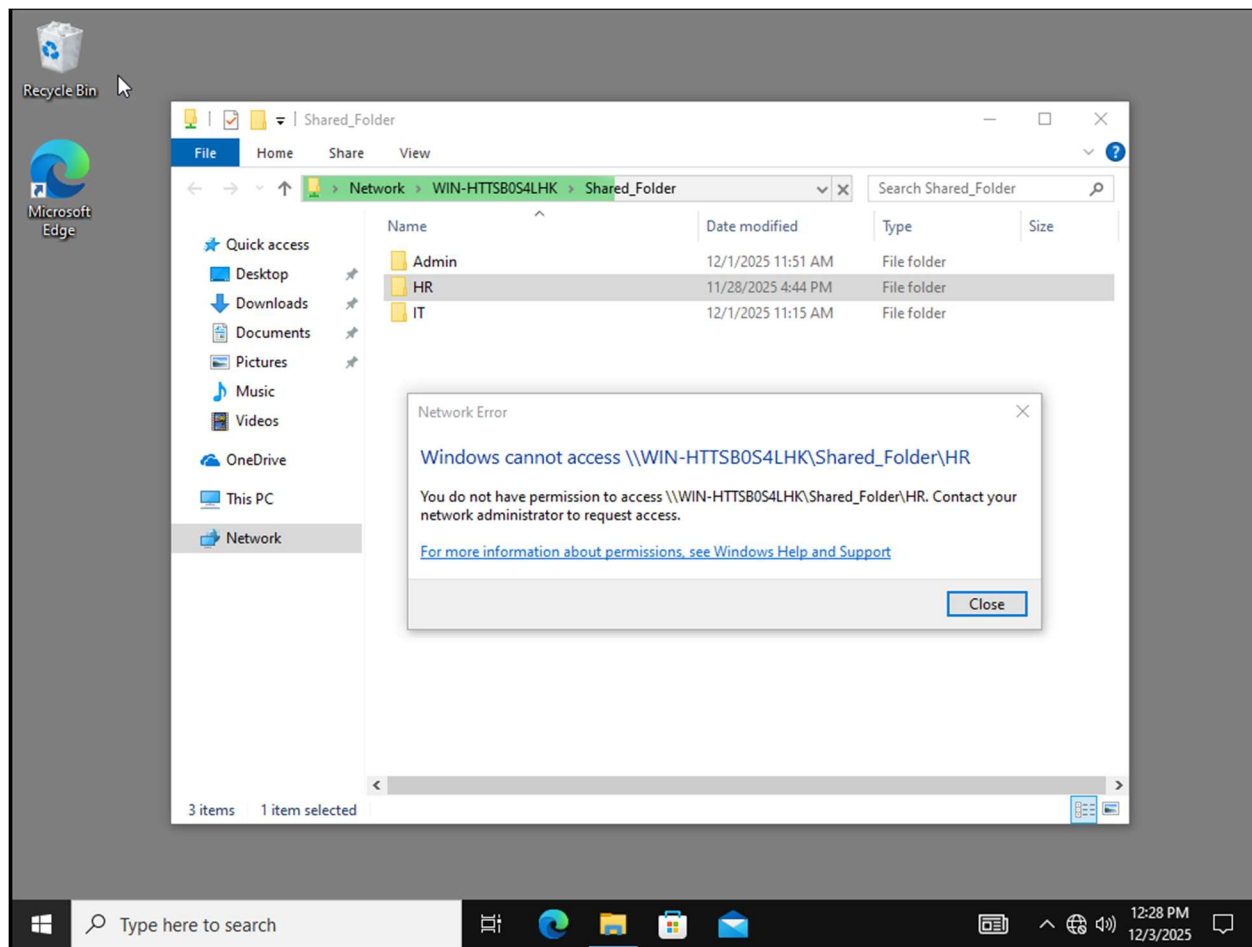


Domain Joining

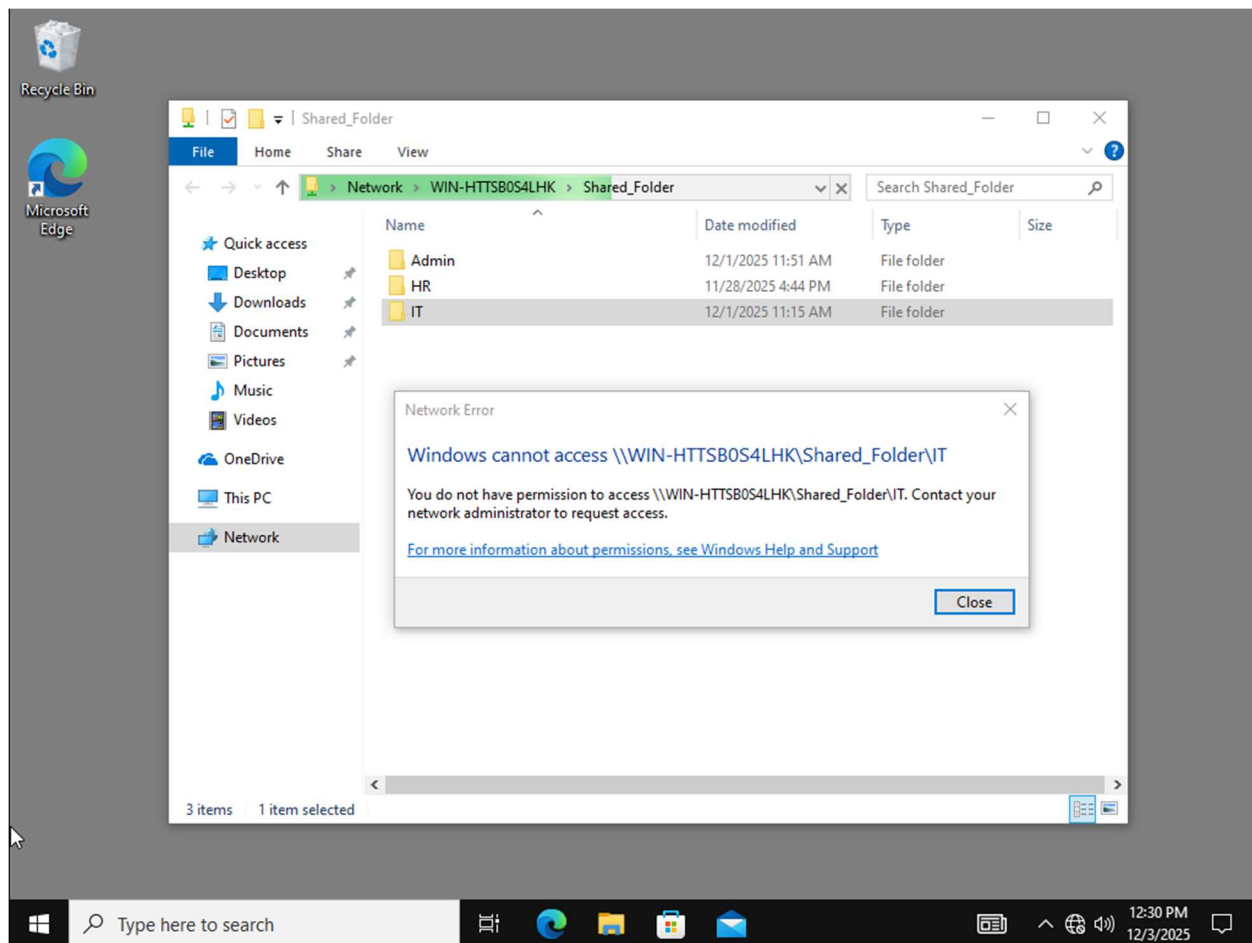
Task 4 Validation and Testing



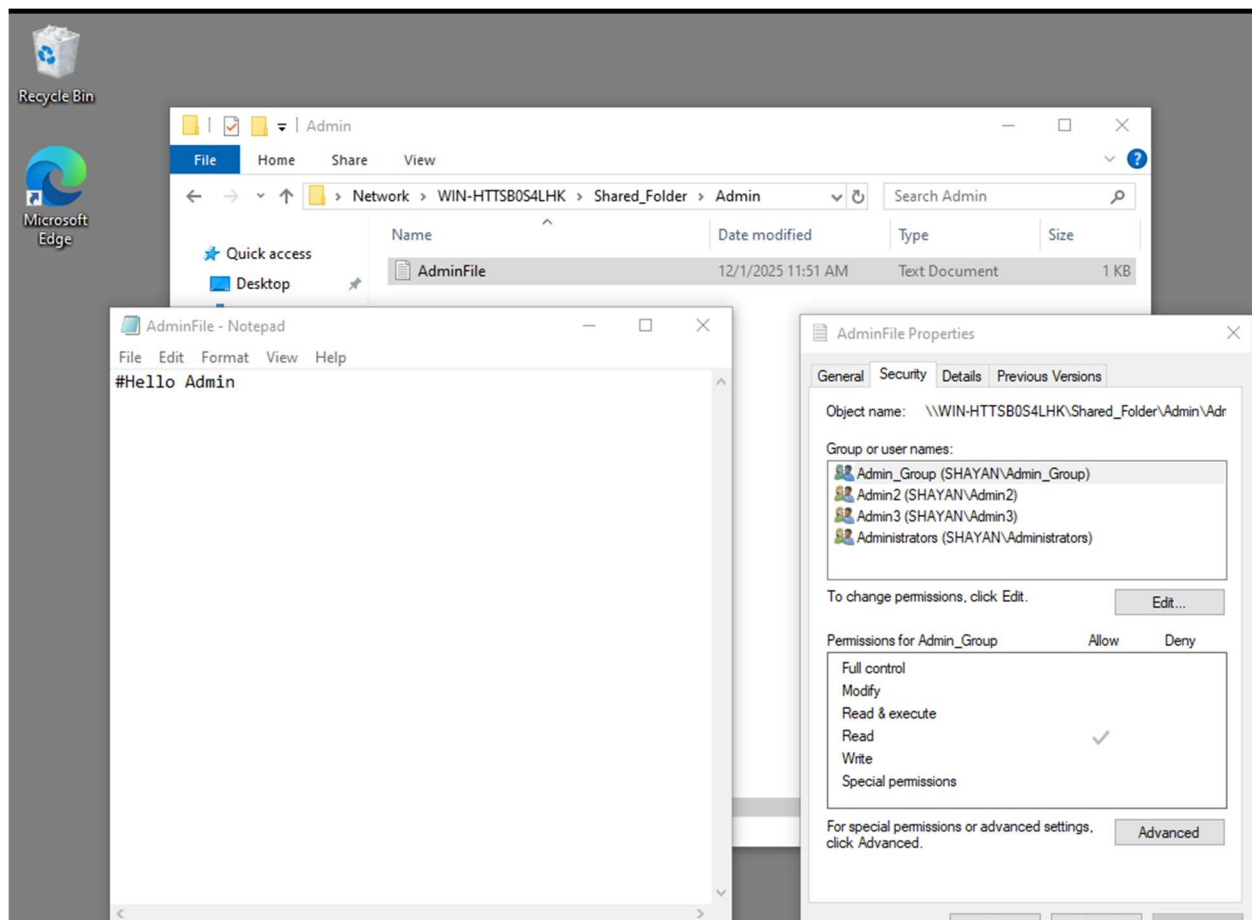
Admin Desktop



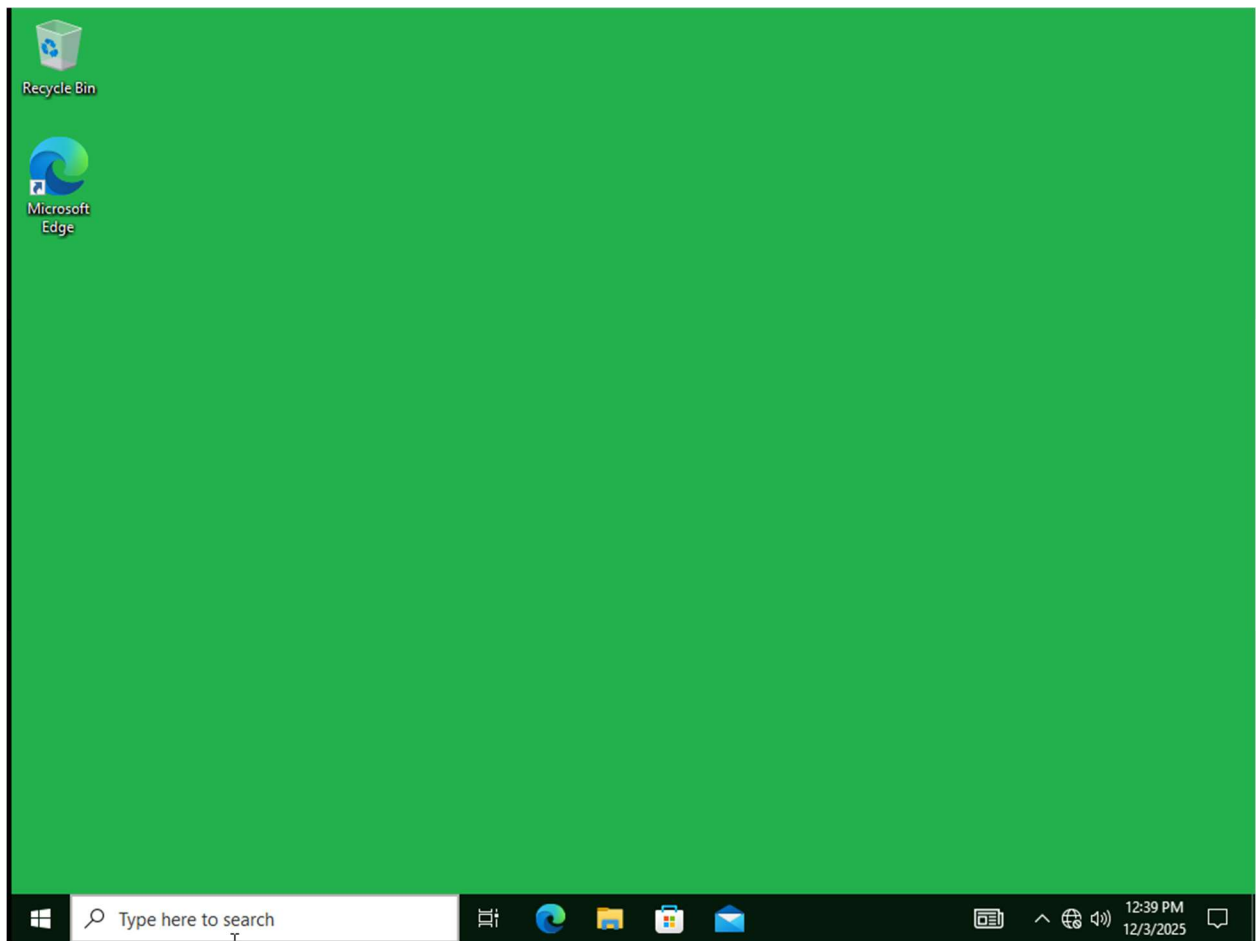
Admin Can't Access HR Folder



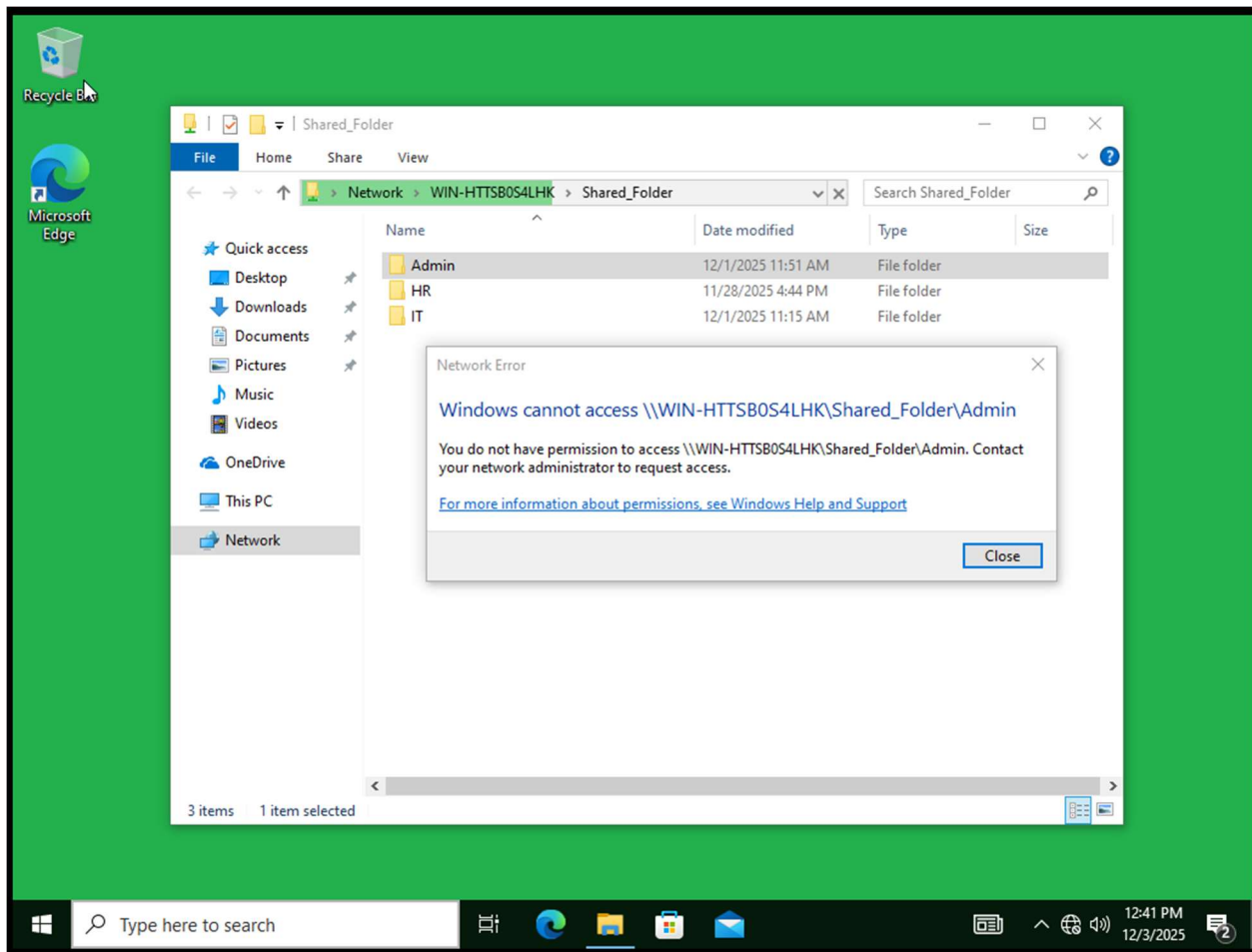
Admin Can't Access IT Folder



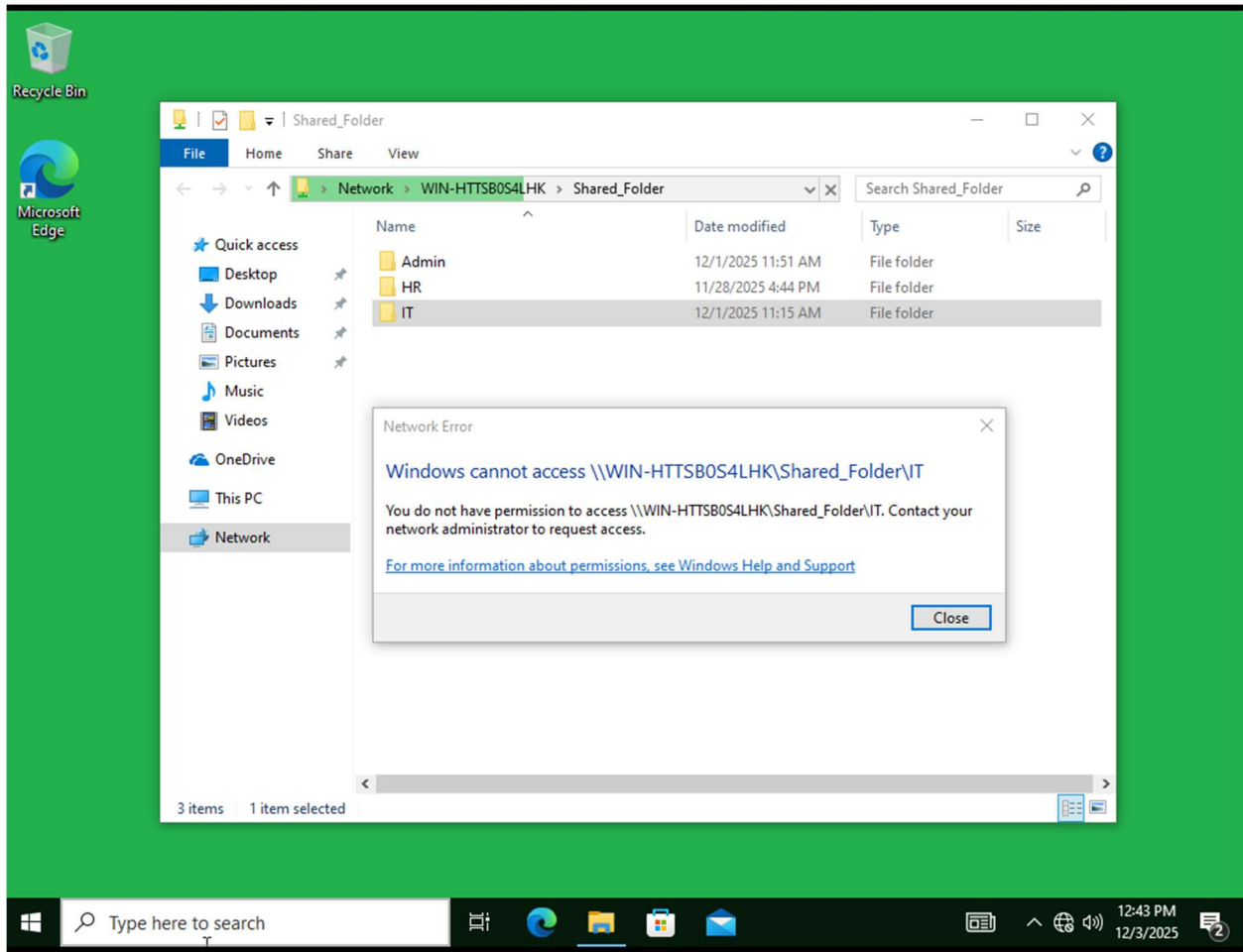
Admin Can Only Have Read Access



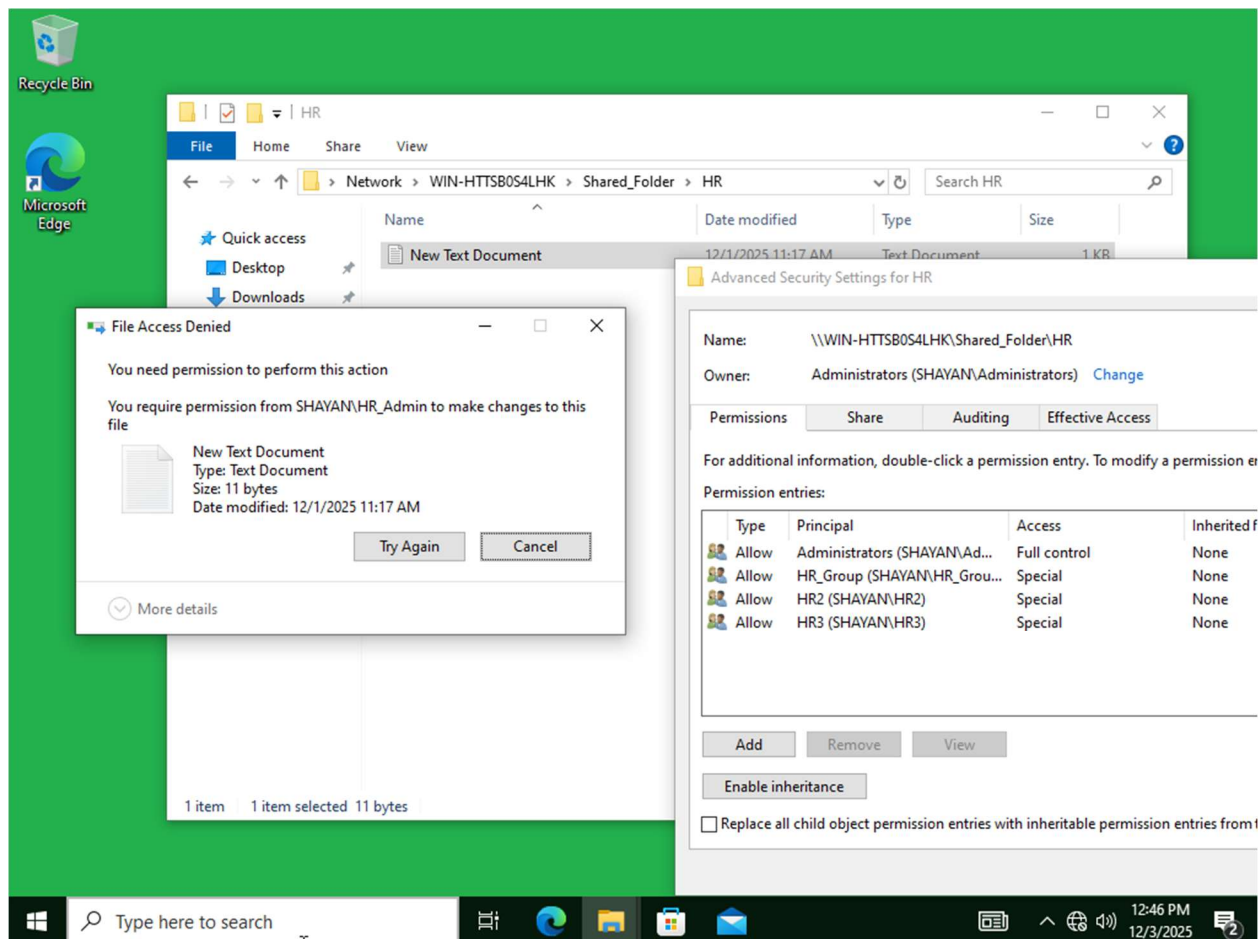
HR Wallpaper



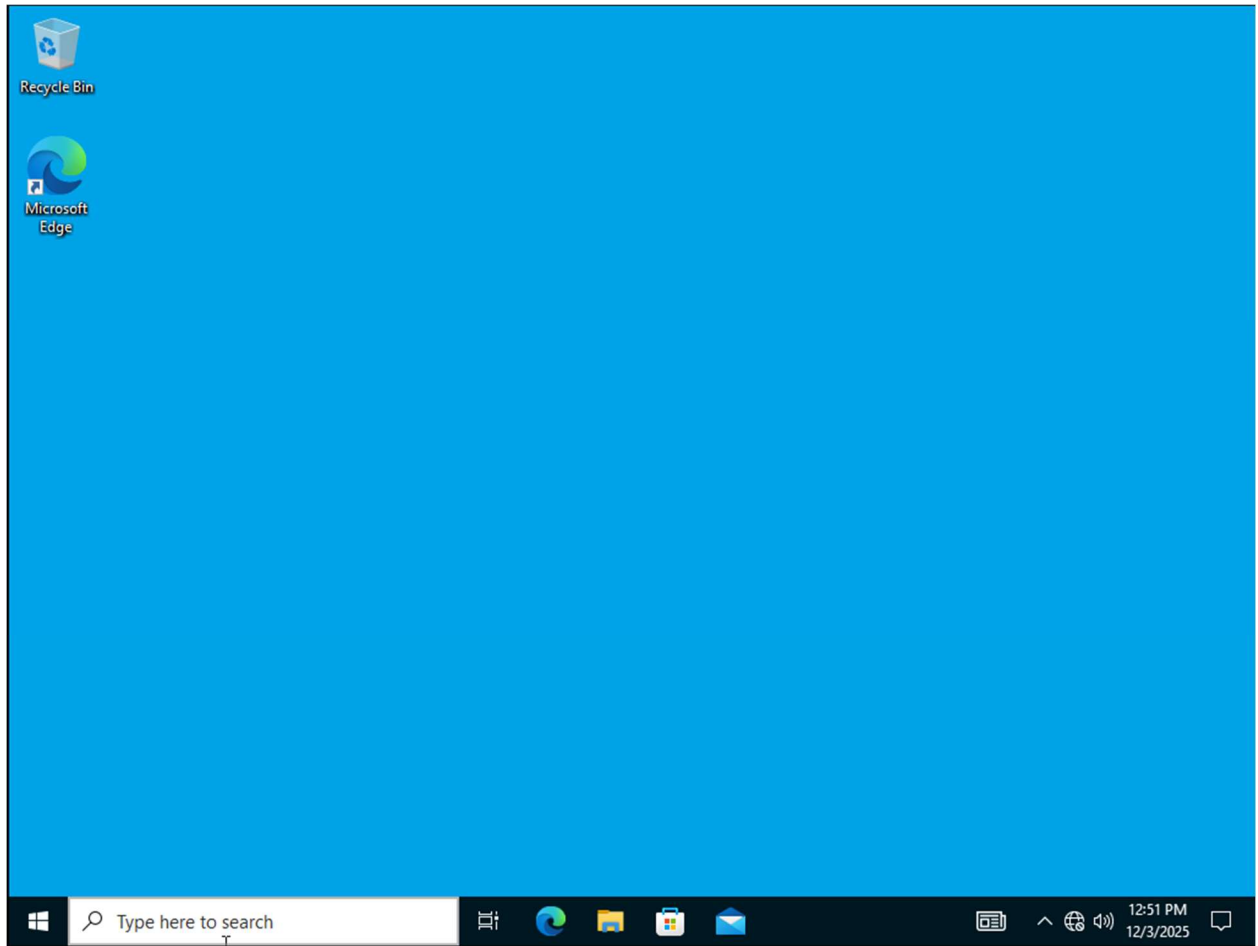
HR Can't Access Admin Folder



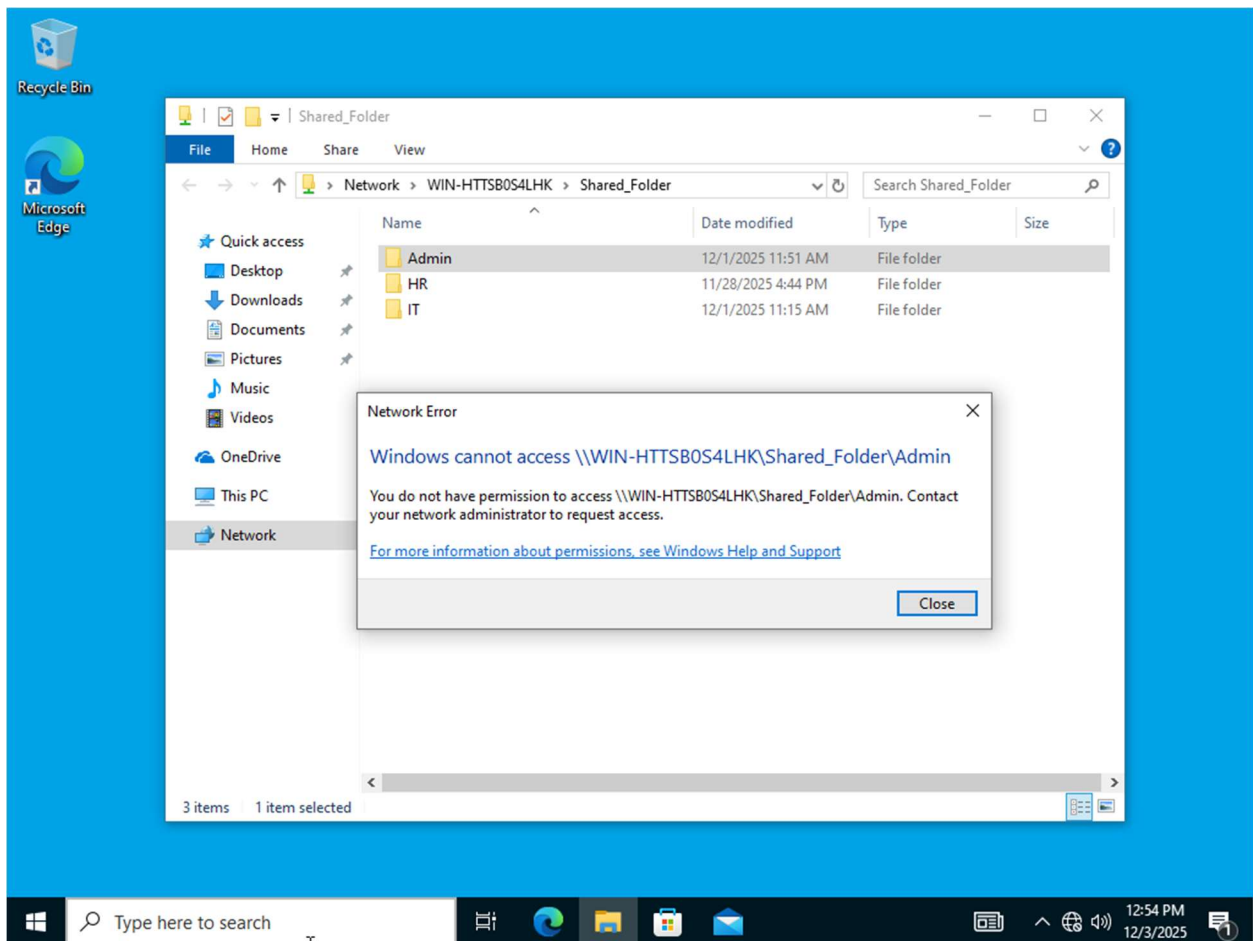
HR Can't Access IT Folder



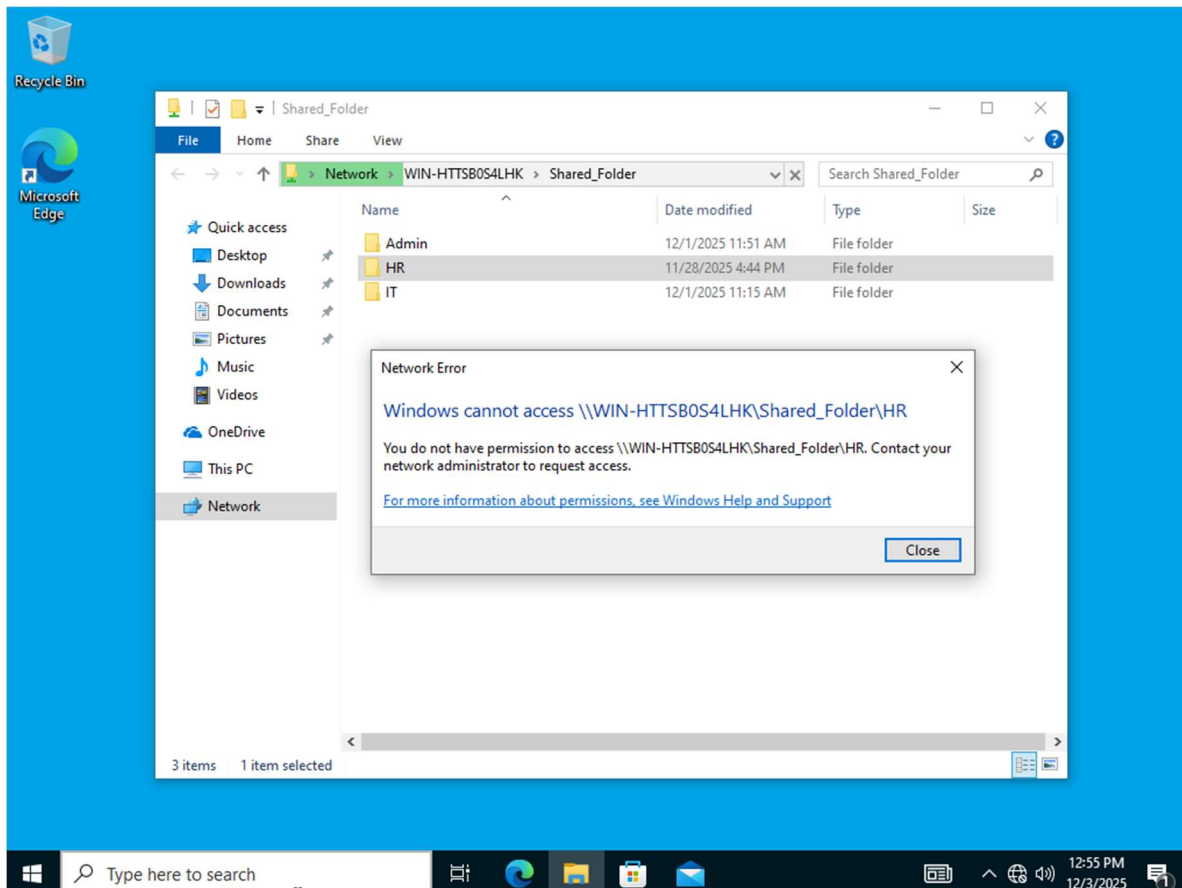
HR have read and write Access and no permission to delete the file



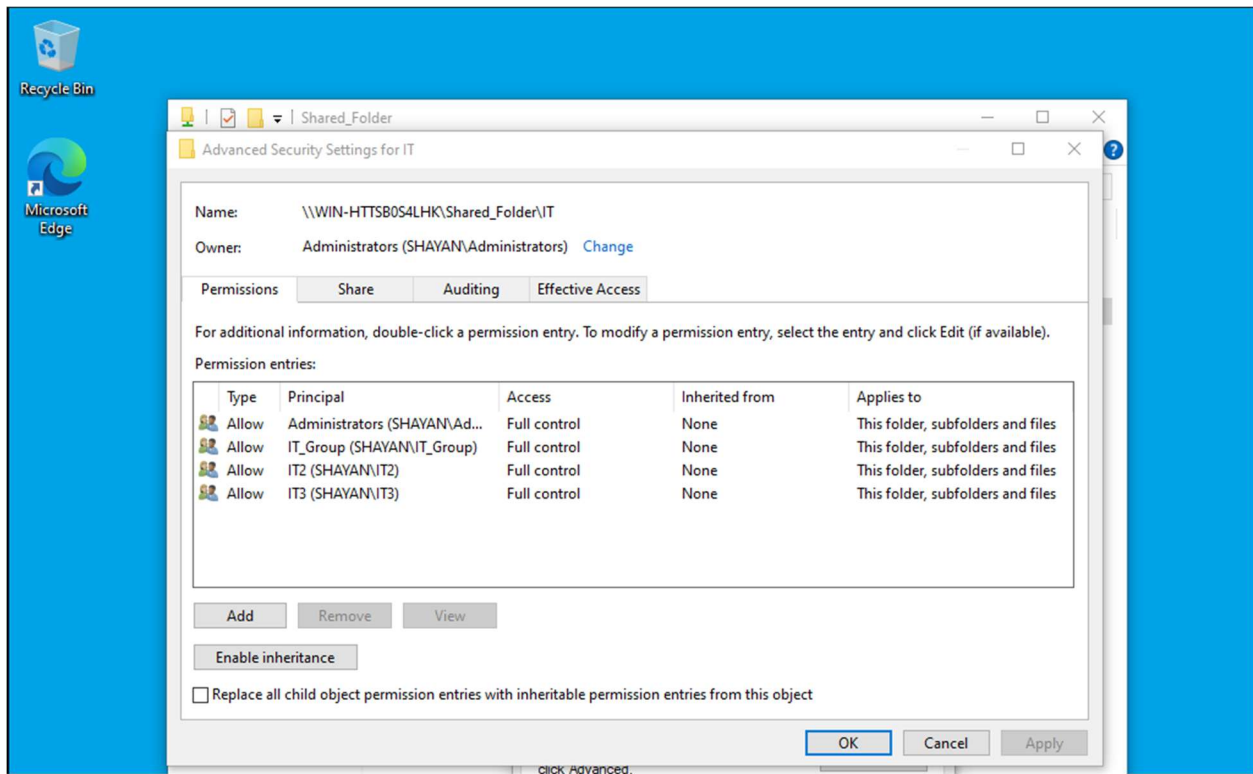
IT Wallpaper



IT can't access Admin folder



IT can't access HR folder



IT have full permission