

PS&IT Training – Week 1 Report

Virtual Network Setup, Windows Server Configuration & GPO Implementation

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Submitted To:
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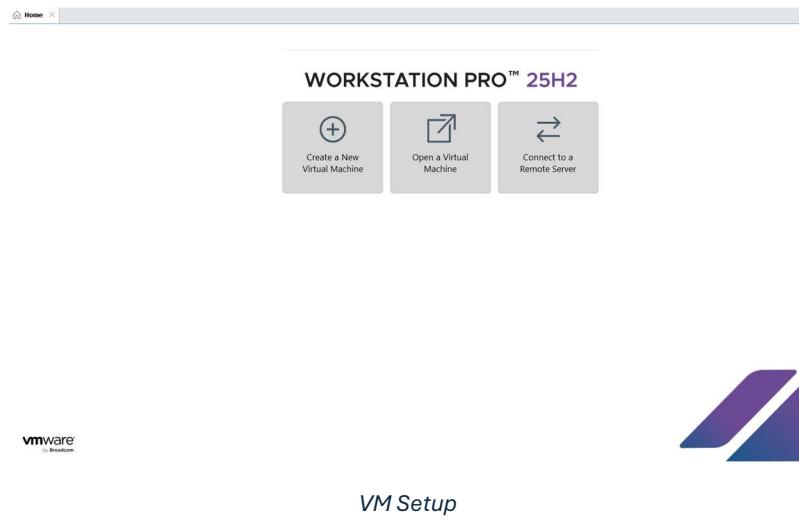
Organization:
Contour Software

Date: 12/3/2025

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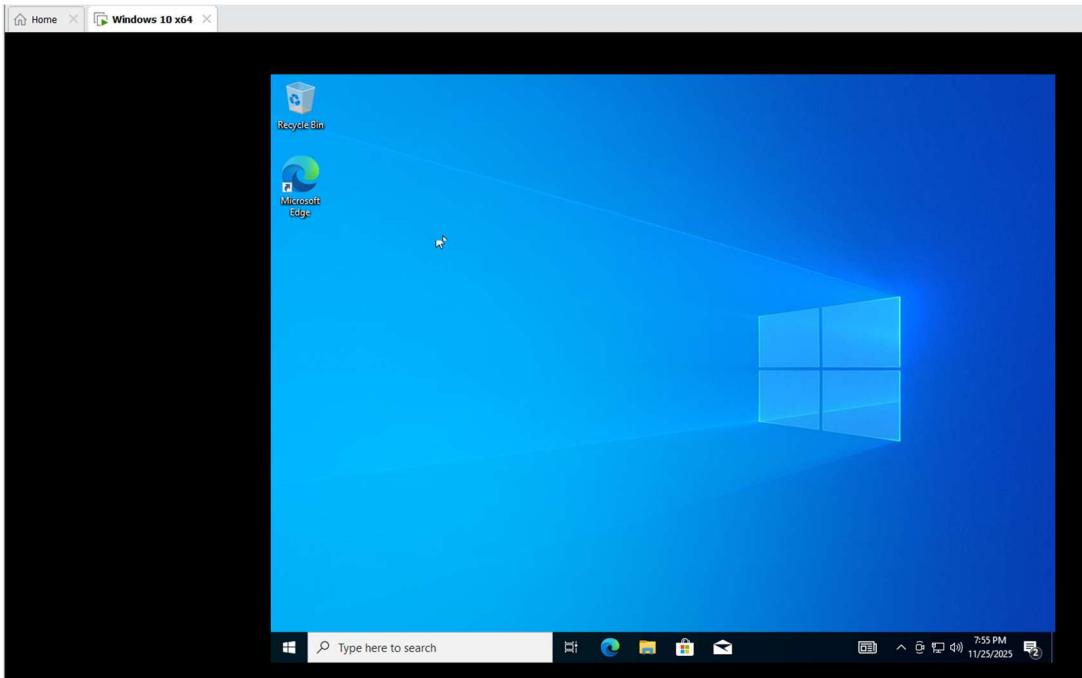
Task 1: Virtual Machine Setup



VM Setup

The screenshot shows the configuration screen for a virtual machine named 'Windows 10 x64'. On the left, there's a sidebar with options like 'Power on this virtual machine' and 'Edit virtual machine settings'. The main area is divided into sections: 'Devices' (listing Memory, Processors, Hard Disk (NVMe), CD/DVD (SATA), Network Adapter, USB Controller, Sound Card, and Display), 'Description' (a placeholder for a machine description), and 'Virtual Machine Details' (showing the state as 'Powered off', configuration file as 'D:\Windows 10\Windows 10 x64.vmx', hardware compatibility as 'Workstation 25H2 virtual machine', and primary IP address as 'Network information is not available'). The central part of the screen is a large black rectangular area representing the virtual machine's display.

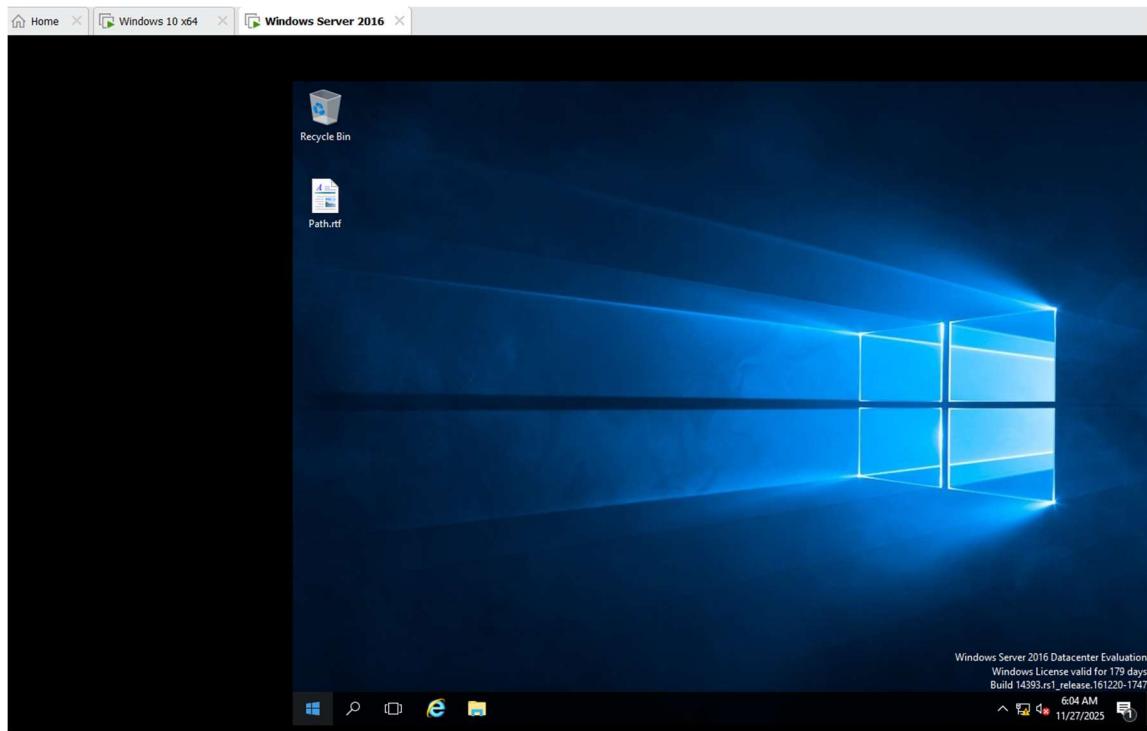
Windows 10 Client Machine



Windows 10 Client Machine

A screenshot of the Hyper-V Manager interface. On the left, there is a list of virtual machines, with 'Windows Server 2016' selected. The main pane shows the configuration details for this VM. The 'Devices' section lists: Memory (4 GB), Processors (8), Hard Disk (NVMe) (60 GB, using file C:\Use...), CD/DVD (SATA) (Host-only), Network Adapter (Host-only), USB Controller (Present), Sound Card (Auto detect), and Display (Auto detect). The 'Description' section is empty. At the bottom, the 'Virtual Machine Details' section shows: State: Powered off, Configuration file: D:\Window server 2016\Windows Server 2016.vmx, Hardware compatibility: Workstation 25H2 virtual machine, and 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

The screenshot shows the Windows Server Manager dashboard. On the left, a navigation pane lists "Dashboard", "Local Server", "All Servers", "AD DS", "DHCP", "DNS", and "File and Storage Services". The main area is titled "WELCOME TO SERVER MANAGER" and features a "QUICK START" section with five numbered steps: 1. Configure this local server, 2. Add roles and features, 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. Below this is a "ROLES AND SERVER GROUPS" section showing "Roles: 4 | Server groups: 1 | Servers total: 1". It lists two roles: "AD DS" (1 instance) and "DHCP" (1 instance), each with "Manageability", "Events", "Services", "Performance", and "BPA results" options.

Server Manager

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

Active Directory Structure Location 1

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

Active Directory Structure Location 2

Active Directory Users and Computers		
	Name	Type
> Active Directory Users and Computers		
> Saved Queries		
shayan.local		
> Builtin		
> Computers		
> Domain Controllers		
> 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 3

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

Admin Department Users

	Name	Type	Description
	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 Controll
 - 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) [Change](#)

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

Group Policy Management

- Forest: shayan.local
- Domains
 - shayan.local
 - Default Domain Policy
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 - 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

HR Wallpaper GPO

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
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

Security Filtering

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

Name
Authenticated Users

Wallpaper for HR Department

Advanced Security Settings for HR

Name: C:\Shared_Folder\HR

Owner: Administrators (SHAYAN\Administrators)

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	Administrators (SHAYAN\Administrators)	Full control	None	This folder, subfolders and files
Allow	HR_Group (SHAYAN\HR_Grou...	Special	None	This folder, subfolders and files
Allow	HR2 (SHAYAN\HR2)	Special	None	This folder, subfolders and files
Allow	HR3 (SHAYAN\HR3)	Special	None	This folder, subfolders and files

Add Remove View

Enable inheritance

Replace all child object permission entries with inheritable permission entries from this object

OK Cancel Apply

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 Controll
 - Default Domain Policy
 - Guest
 - HR Wallpaper GPO
 - IT Wallpaper
 - Registered_User
 - WMI Filters
 - Starter GPOs

IT 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
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

Advanced Security Settings for IT

Name: C:\Shared_Folder\IT
Owner: Administrators (SHAYAN\Administrators)  

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	Administrators (SHAYAN\Ad...)	Full control	None	This folder, subfolders and files
Allow	IT_Group (SHAYAN\IT_Group)	Full control	None	This folder, subfolders and files
Allow	IT2 (SHAYAN\IT2)	Full control	None	This folder, subfolders and files
Allow	IT3 (SHAYAN\IT3)	Full control	None	This folder, subfolders and files

Add Remove View

Enable inheritance

Replace all child object permission entries with inheritable permission entries from this object

OK Cancel Apply

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

Setting	State	Comment
Add or Remove Programs	Not configured	No
Display	Not configured	No
Personalization	Enabled	No
Printers	Not configured	No
Programs	Not configured	No
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
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 - 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

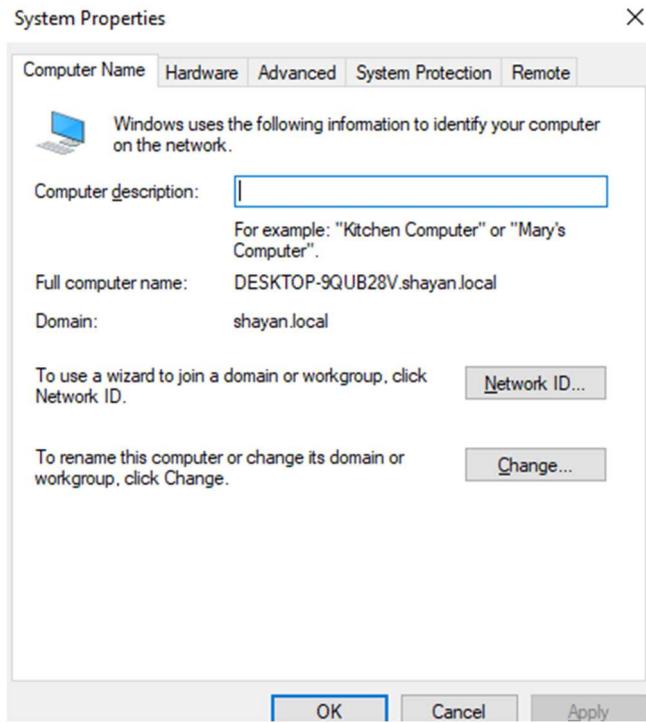
Desktop

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

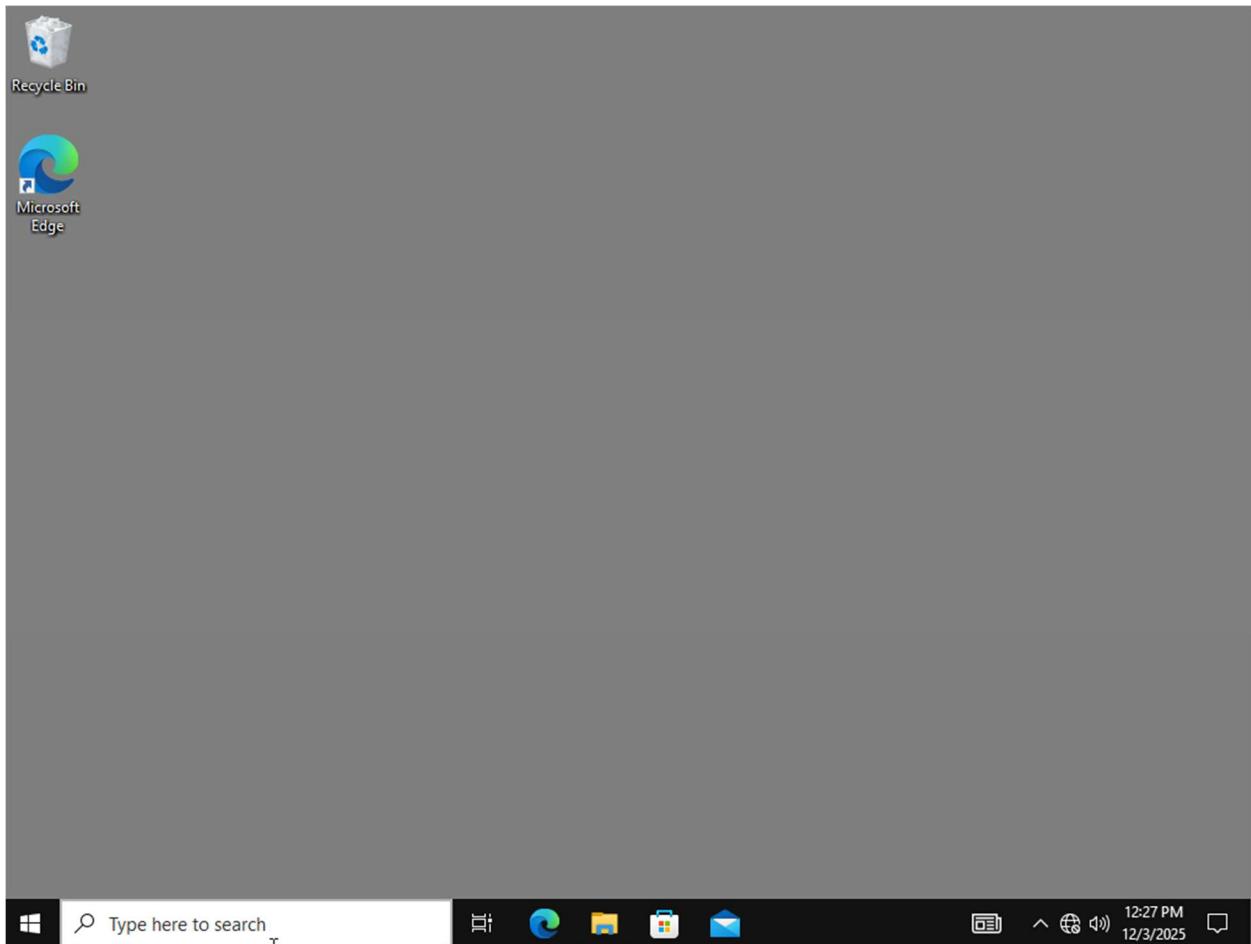
Enable Active Desktop for Register Users

Task 3 Domain Registration

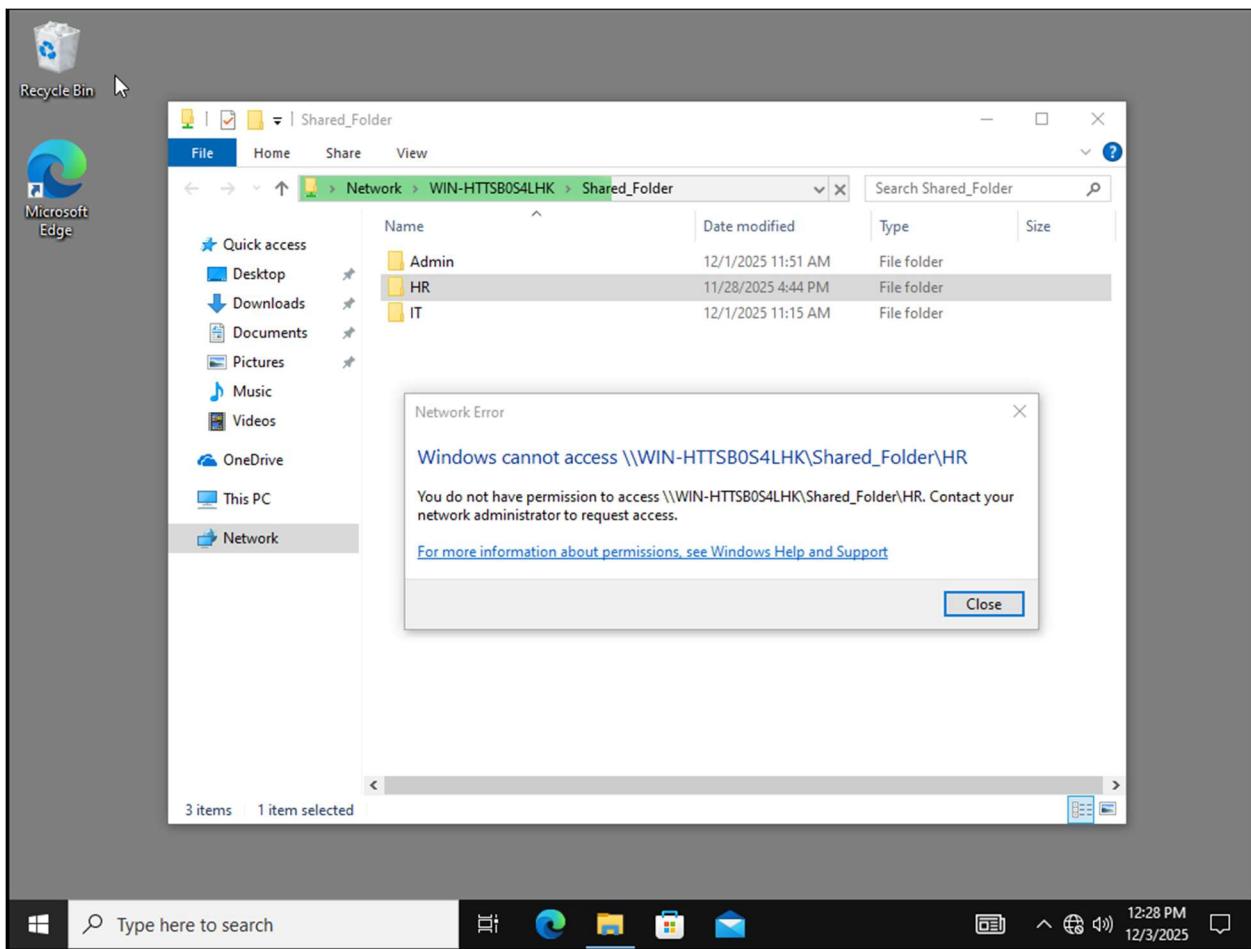


Domain Joining

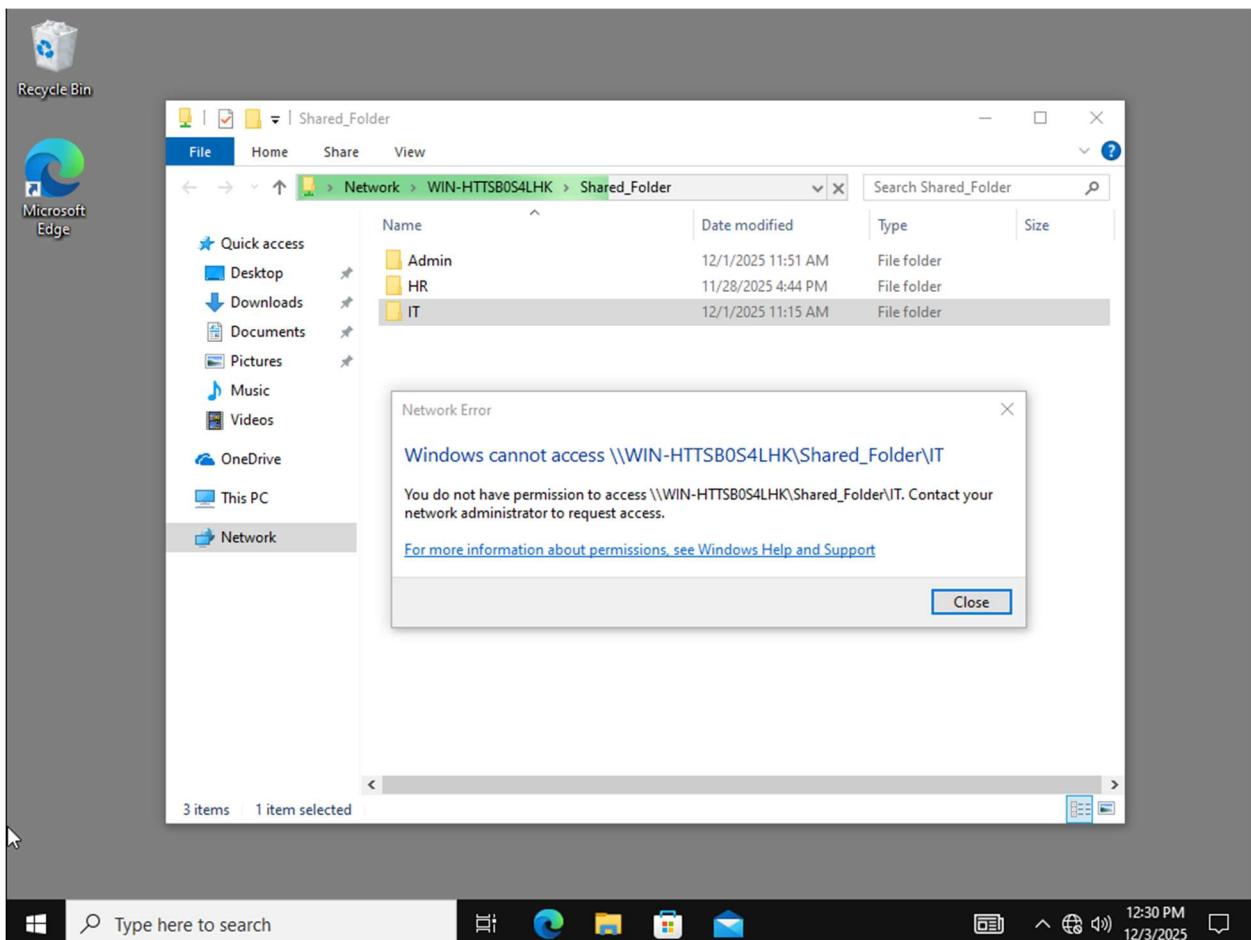
Task 4 Validation and Testing



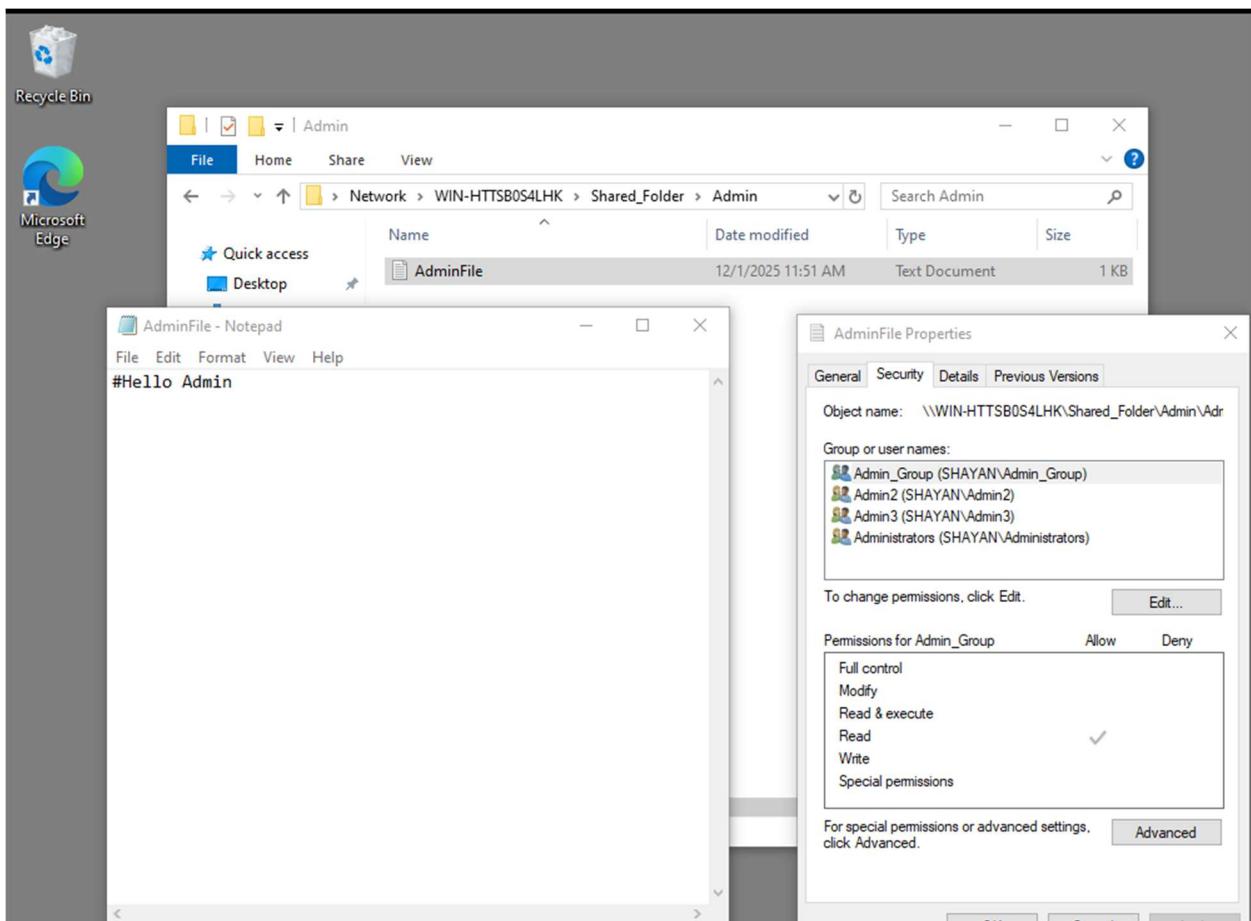
Admin Desktop



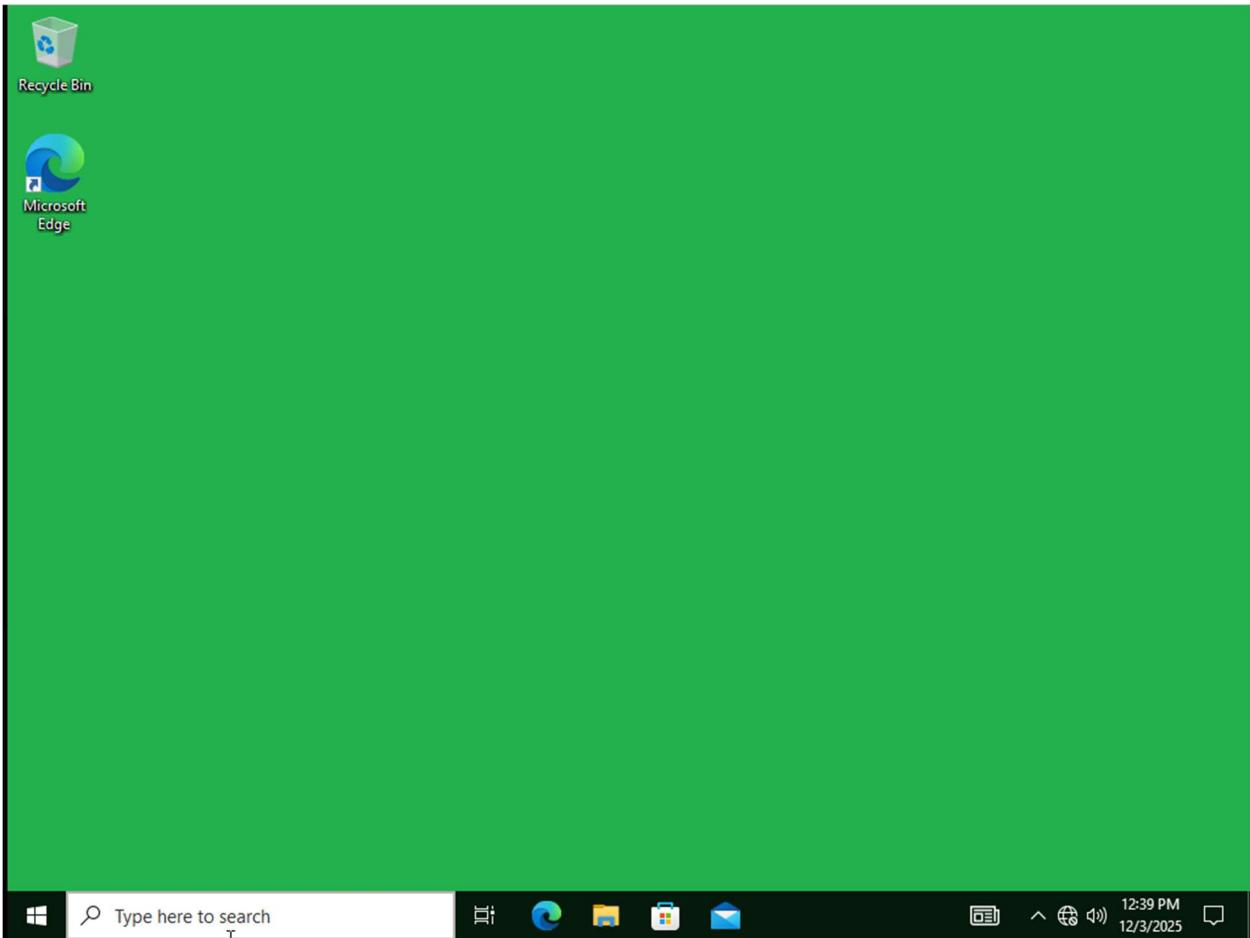
Admin Can't Access HR Folder



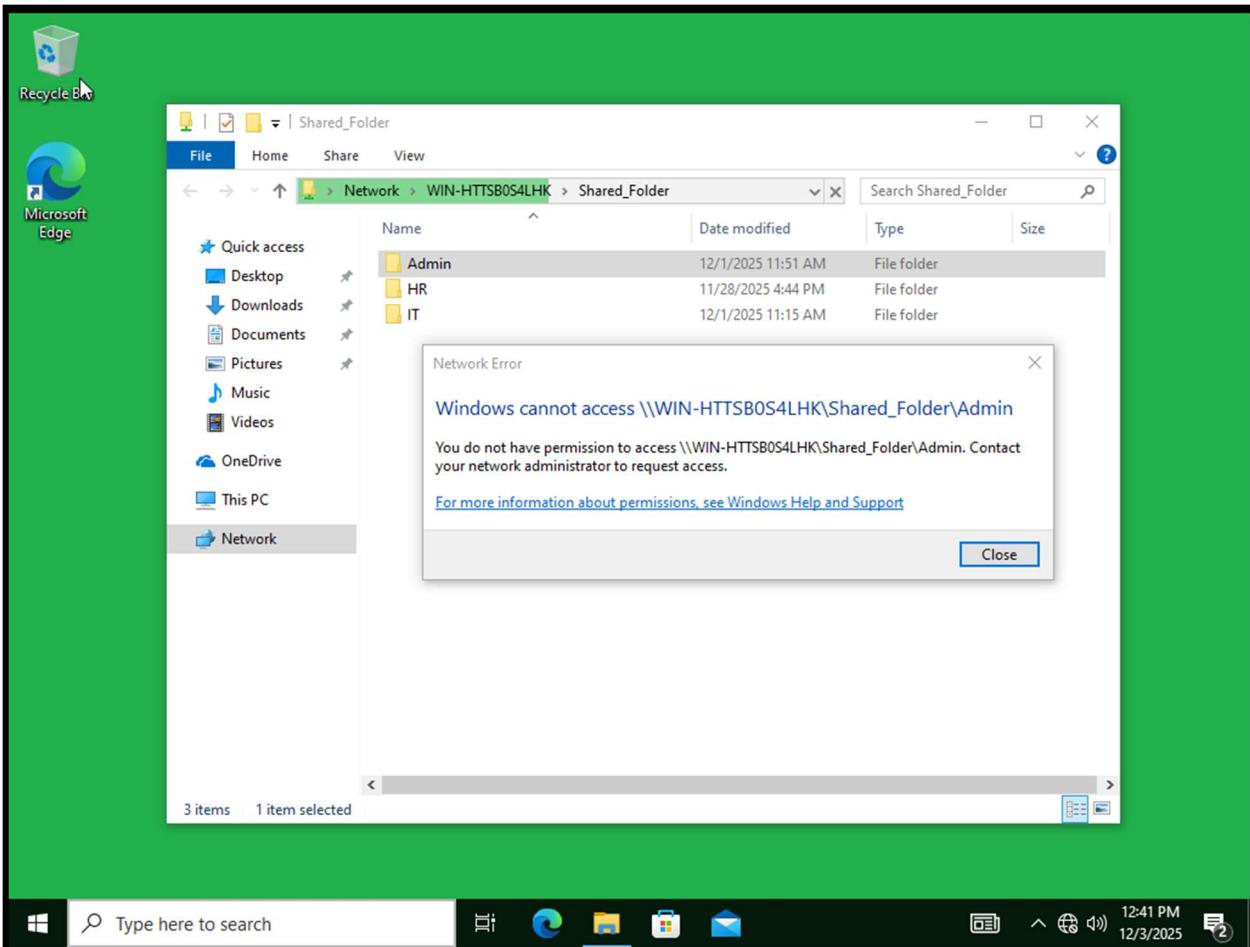
Admin Can't Access IT Folder



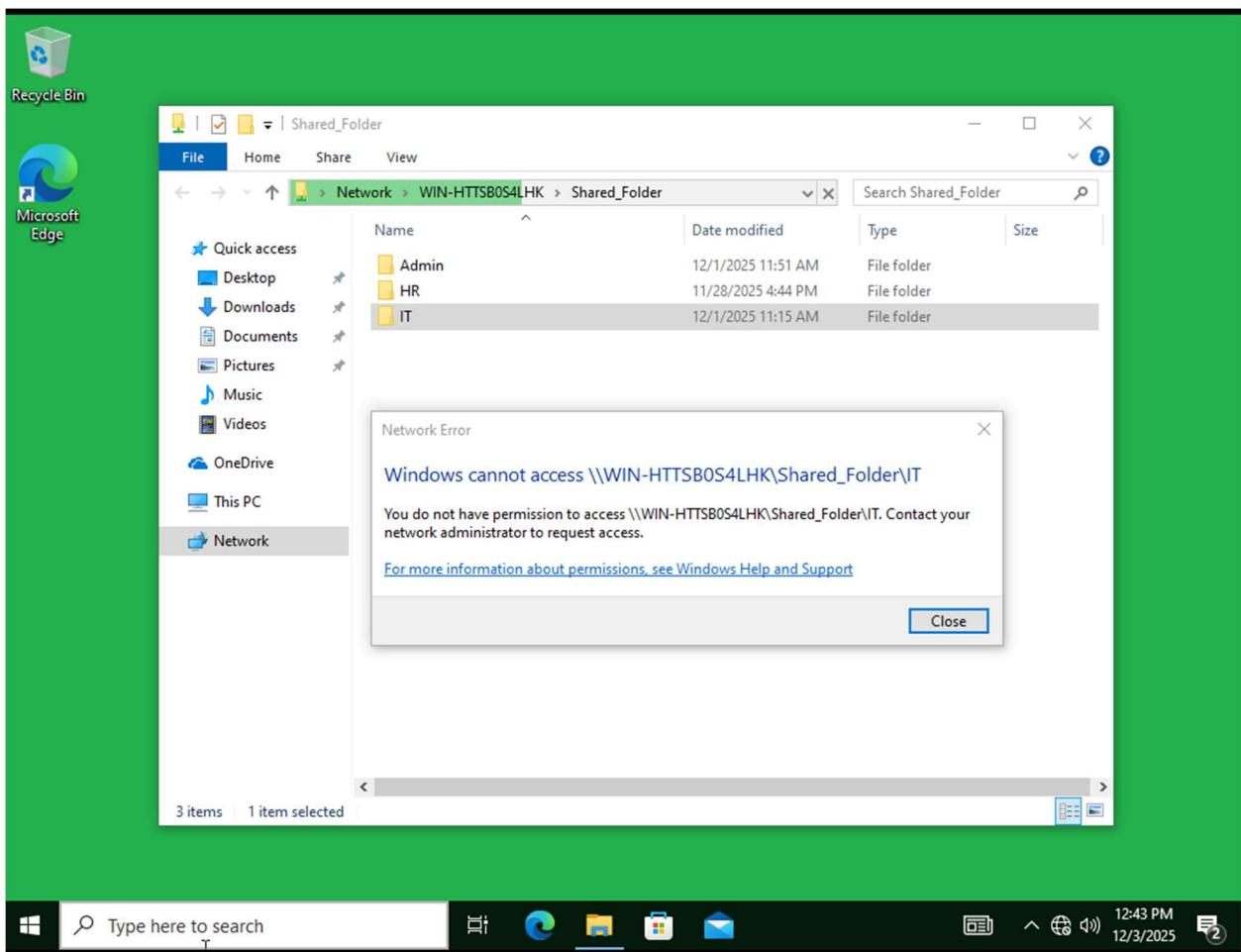
Admin Can Only Have Read Access



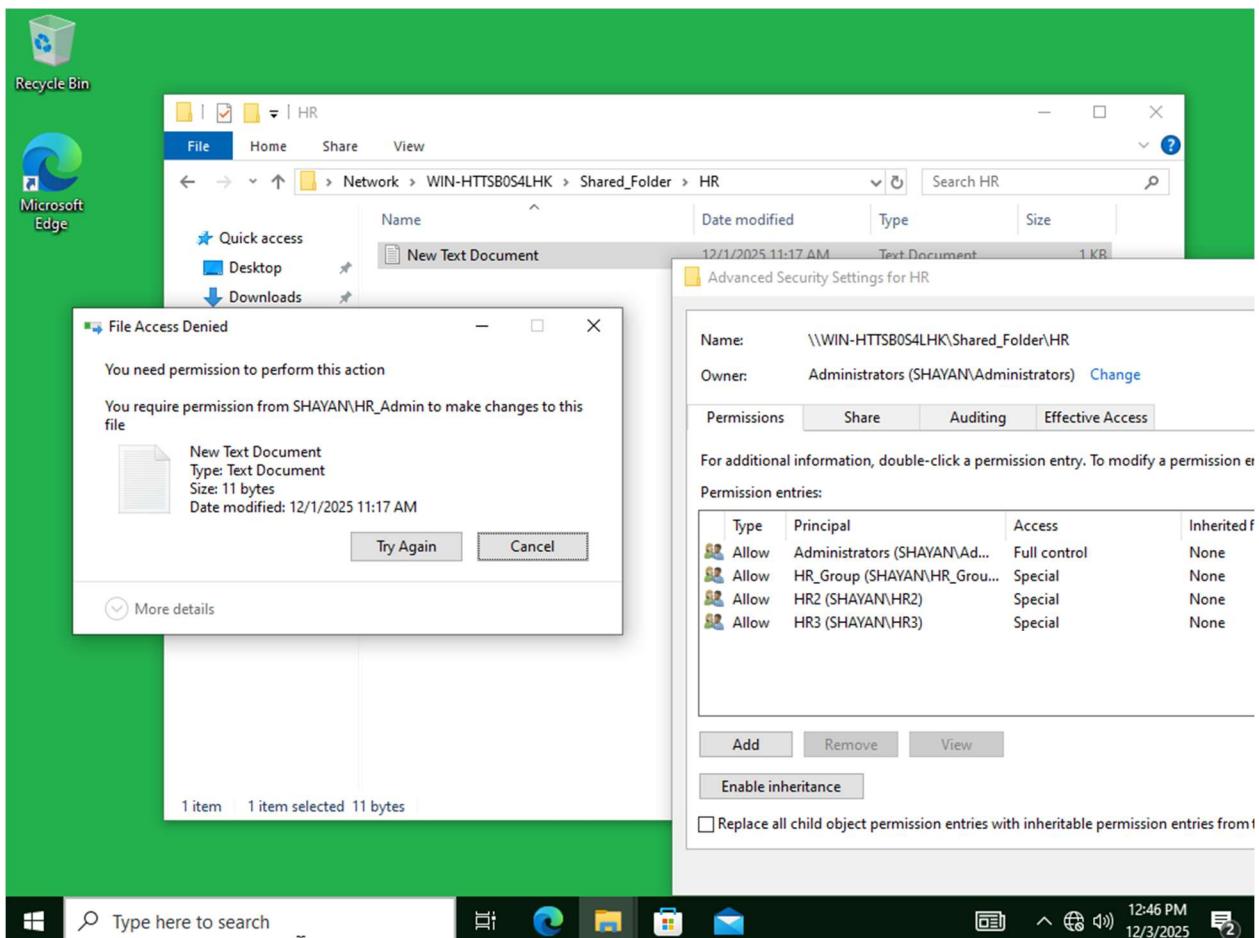
HR Wallpaper



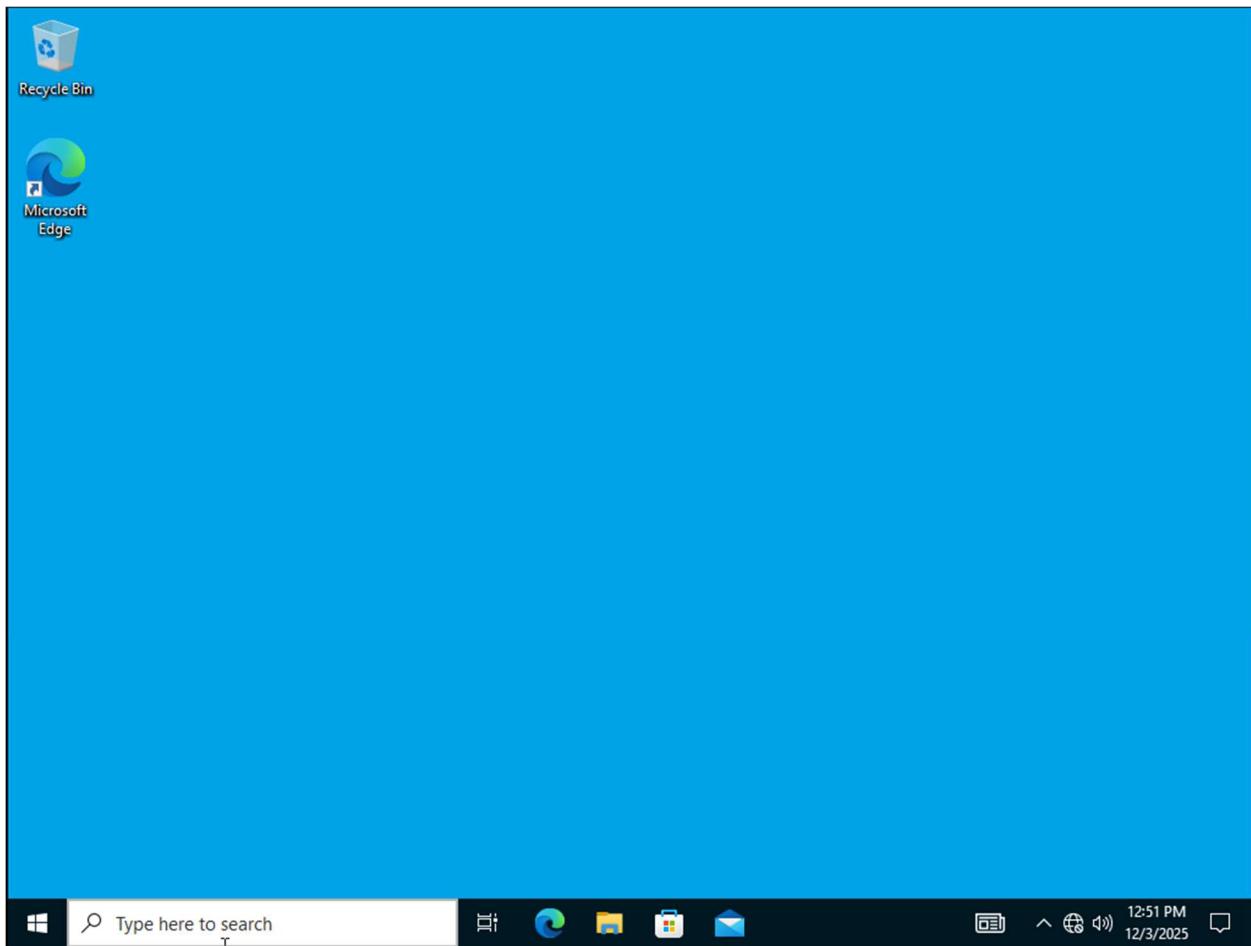
HR Can't Access Admin Folder



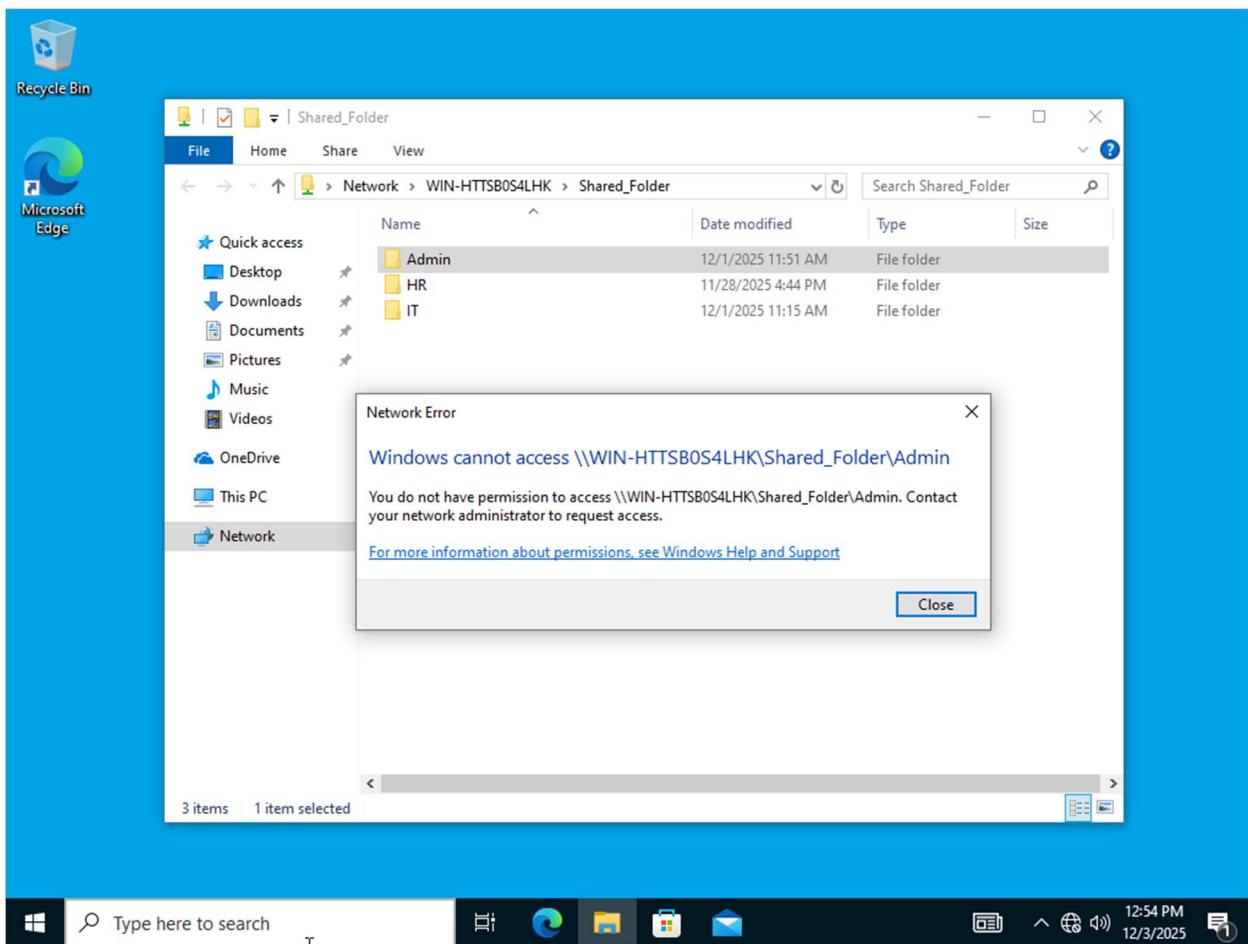
HR Can't Access IT Folder



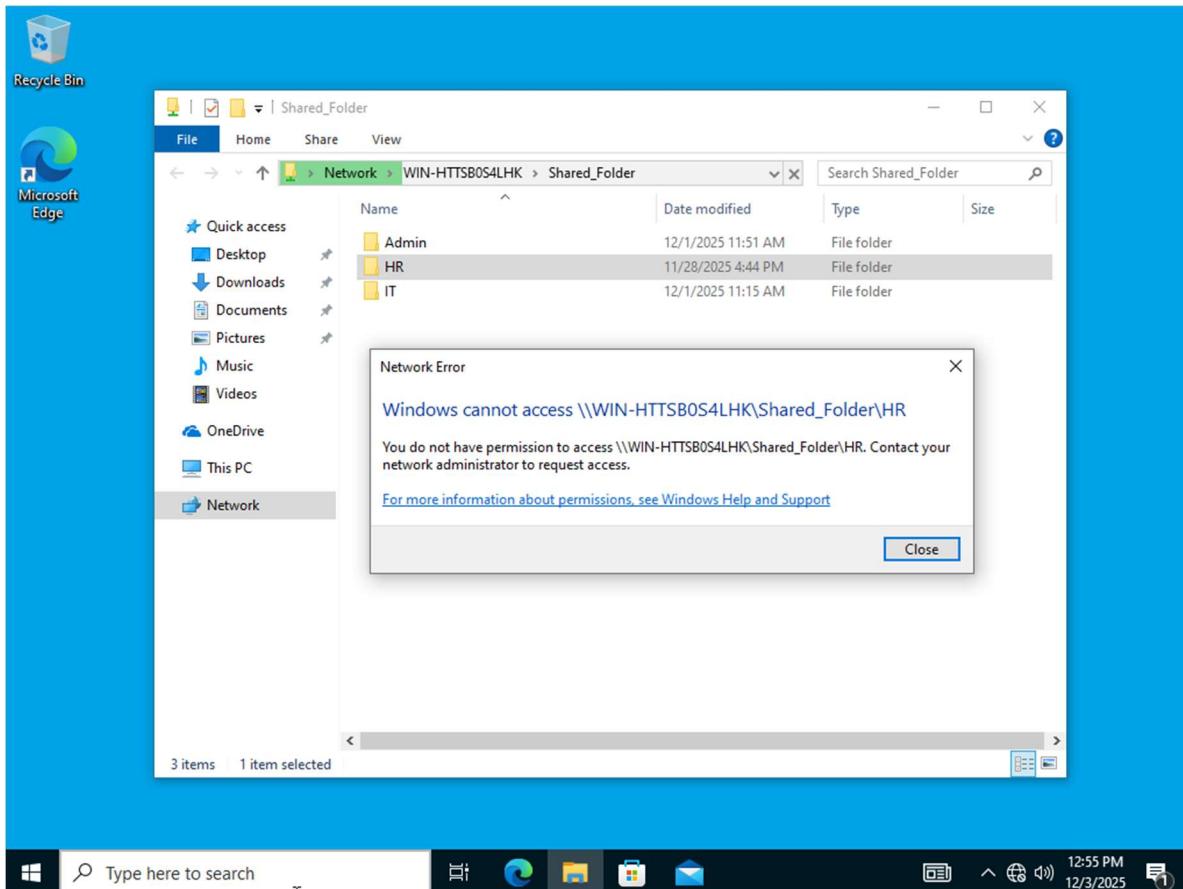
HR have read and write Access and no permission to delete the file



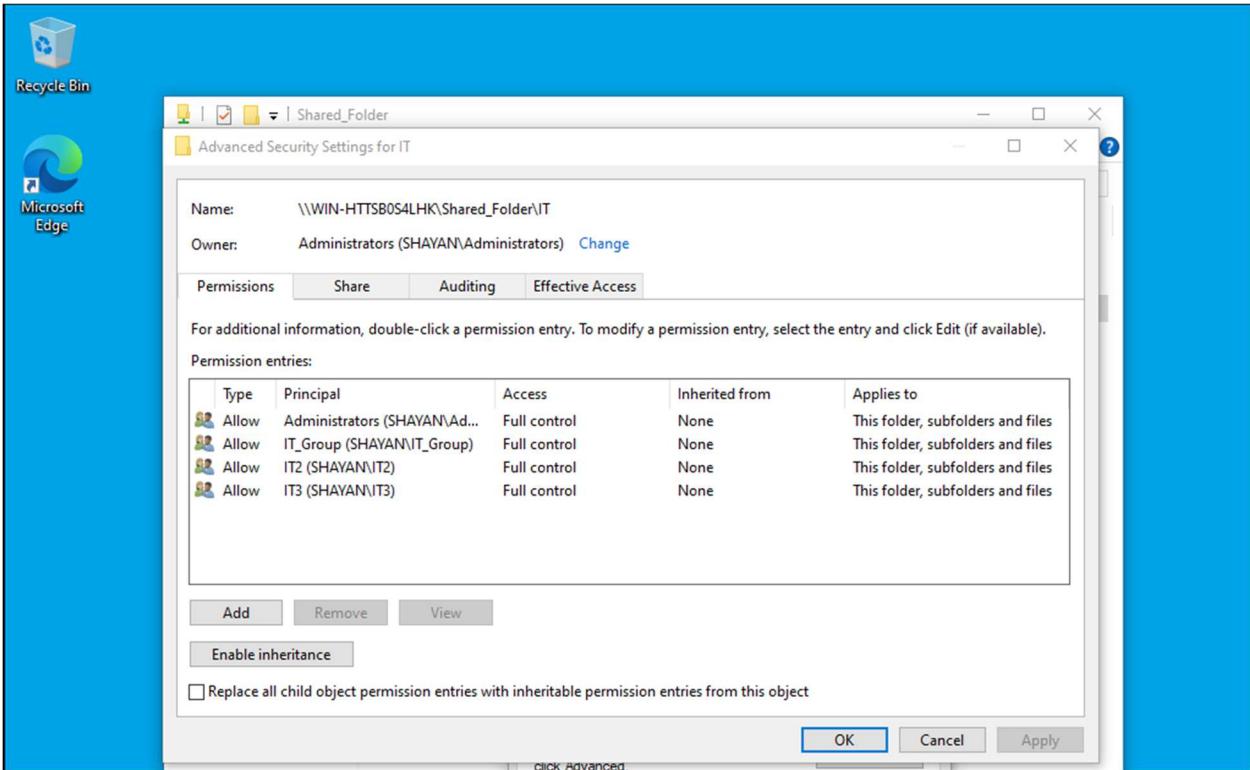
IT Wallpaper



IT can't access Admin folder



IT can't access HR folder



IT have full permission