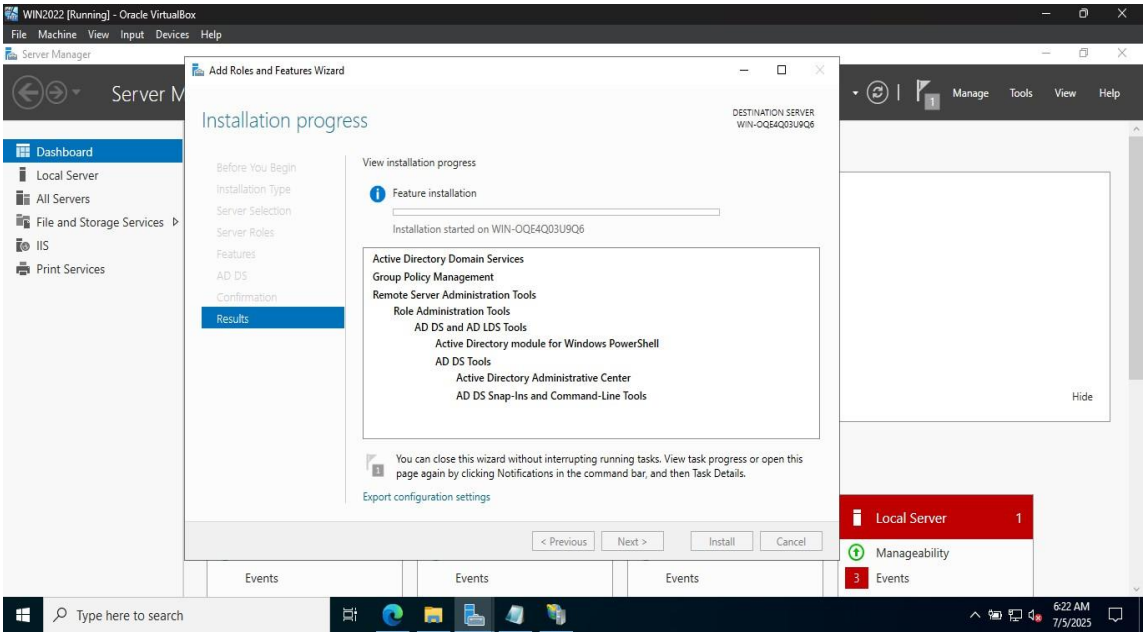
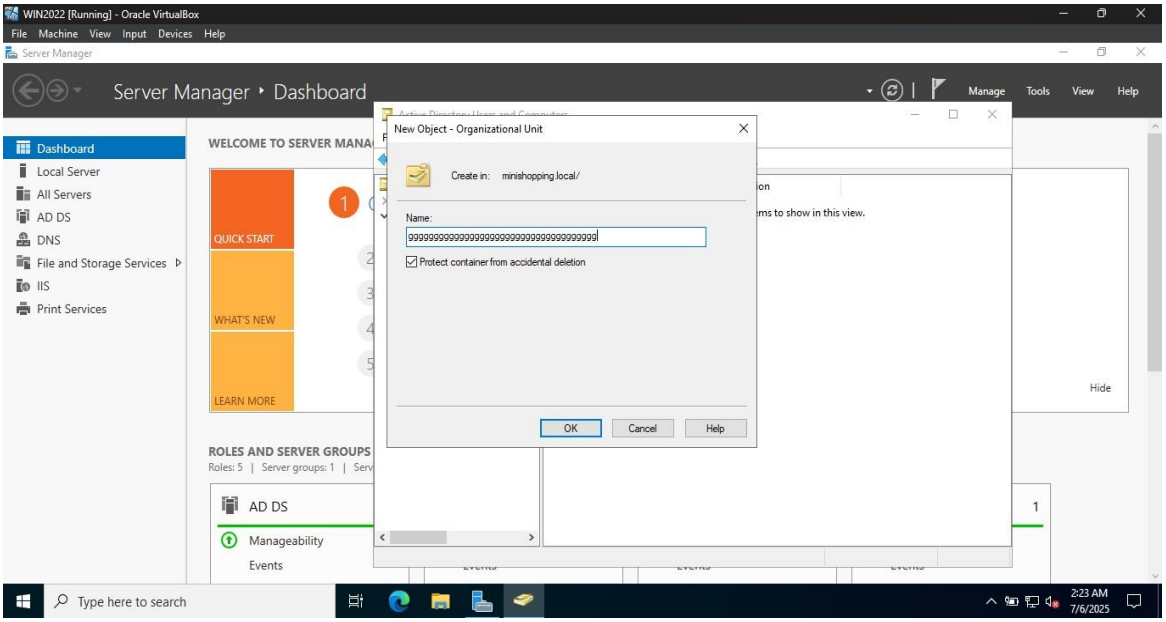
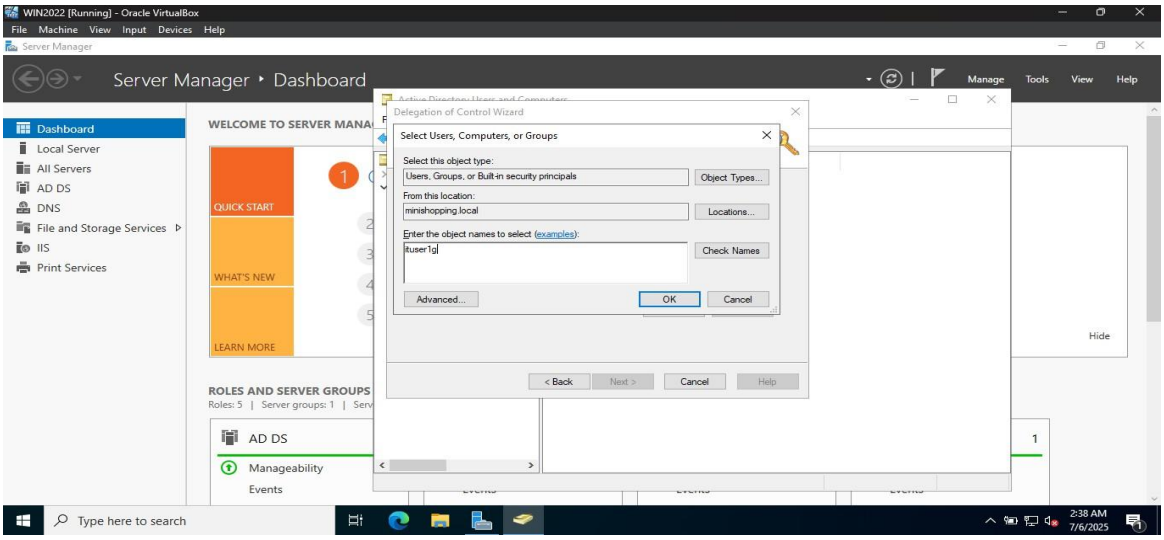
Set up Active directory

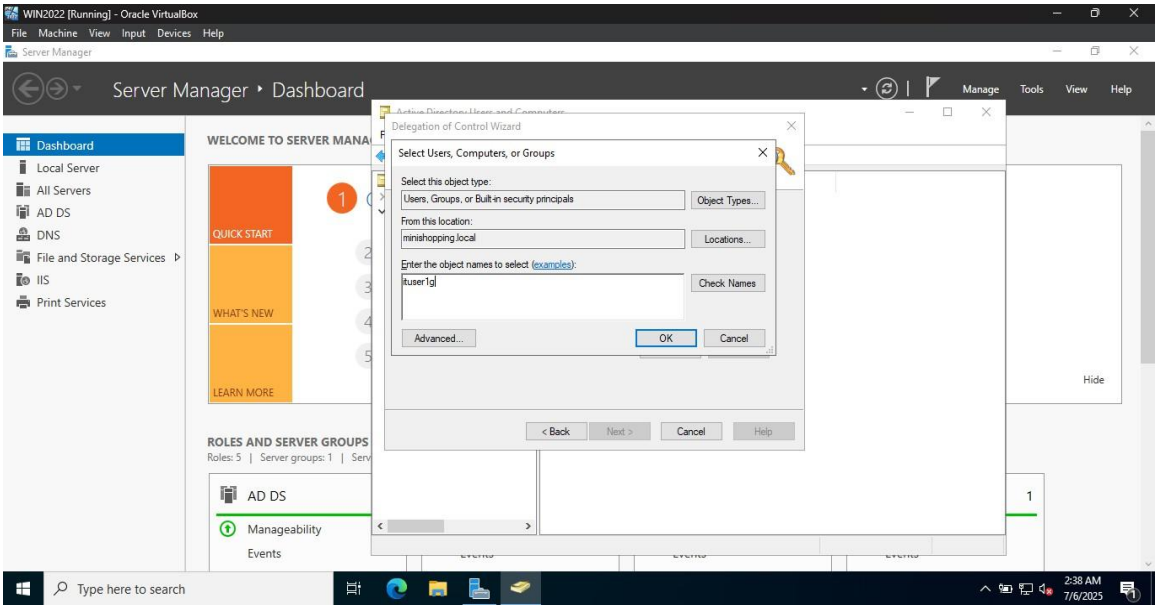
1) Installation of AD DS





2) Create users as per requirements (hruser1,salesuser1,ituser1) and groups


WIN2022 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Services
IIS
Print Services
WELCOME TO SERVER MANA
QUICK START
WHAT'S NEW
LEARN MORE
ROLES AND SERVER GROUPS
Roles: 5 | Server groups: 1 | Serv
AD DS
Manageability
Events
Hide
Delegation of Control Wizard
Select Users, Computers, or Groups
Select this object type:
Users, Groups, or Built-in security principals
Object Types...
From this location:
minishopping.local
Locations...
Enter the object names to select (examples):
ituser1g
Check Names
Advanced...
OK
Cancel
< Back
Next >
Cancel
Help
Type here to search
2:38 AM
7/6/2025


WIN2022 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Services
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Print Services
WELCOME TO SERVER MANA
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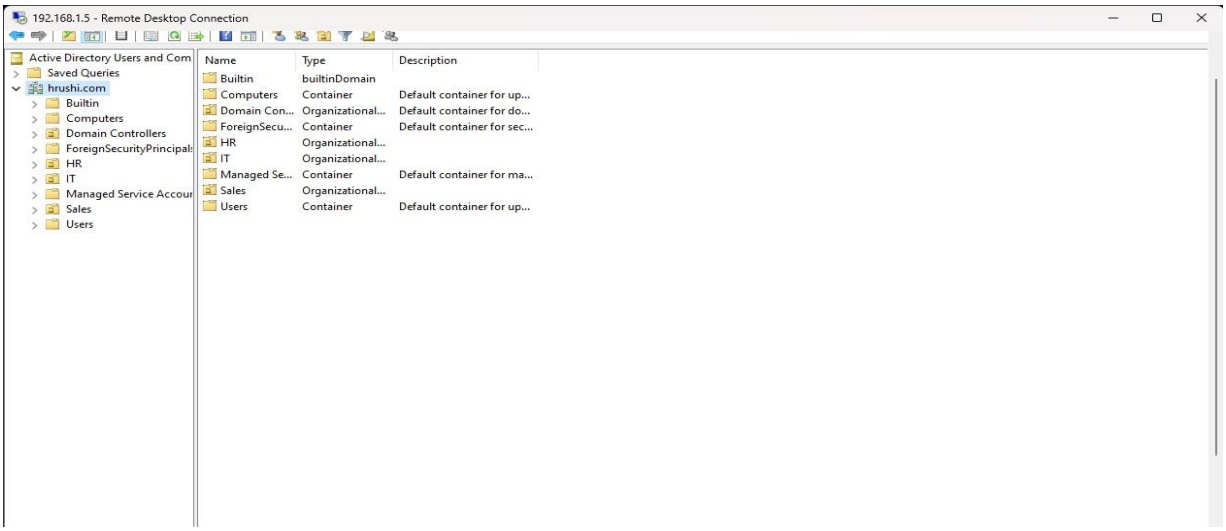
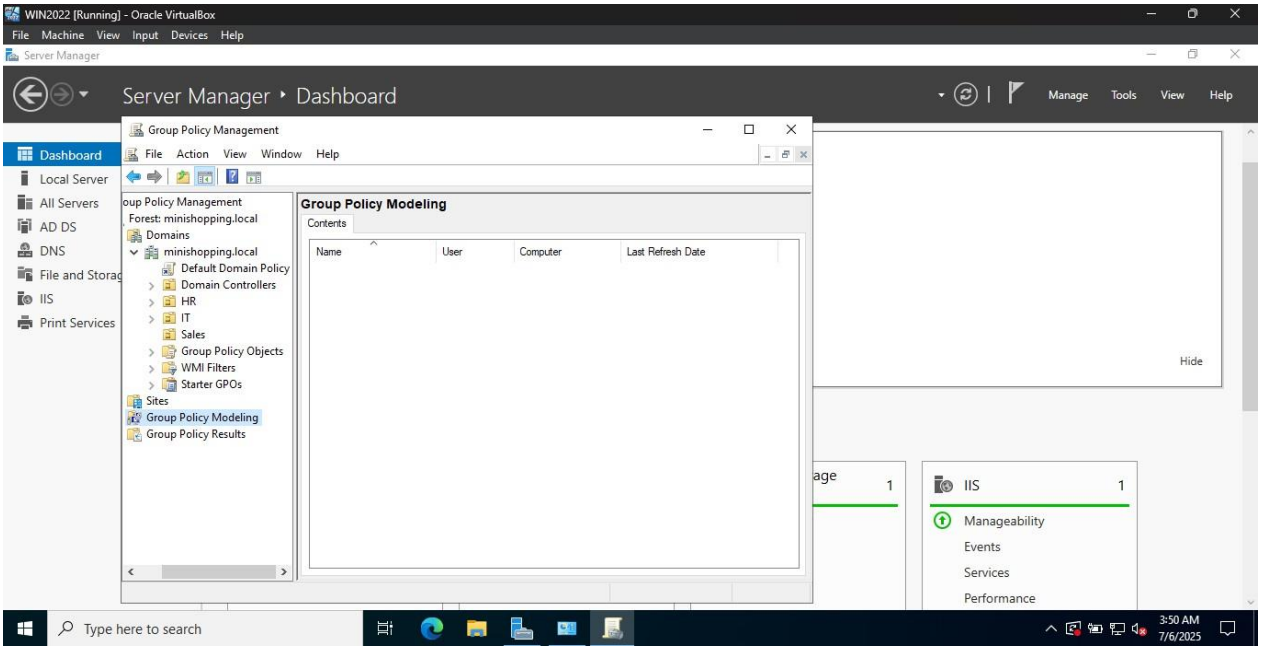
ROLES AND SERVER GROUPS
Roles: 5 | Server groups: 1 | Serv
AD DS
Manageability
Events
Hide
Delegation of Control Wizard
Select Users, Computers, or Groups
Select this object type:
Users, Groups, or Built-in security principals
Object Types...
From this location:
minishopping.local
Locations...
Enter the object names to select (examples):
ituser1g
Check Names
Advanced...
OK
Cancel
< Back
Next >
Cancel
Help
Type here to search
2:38 AM
7/6/2025

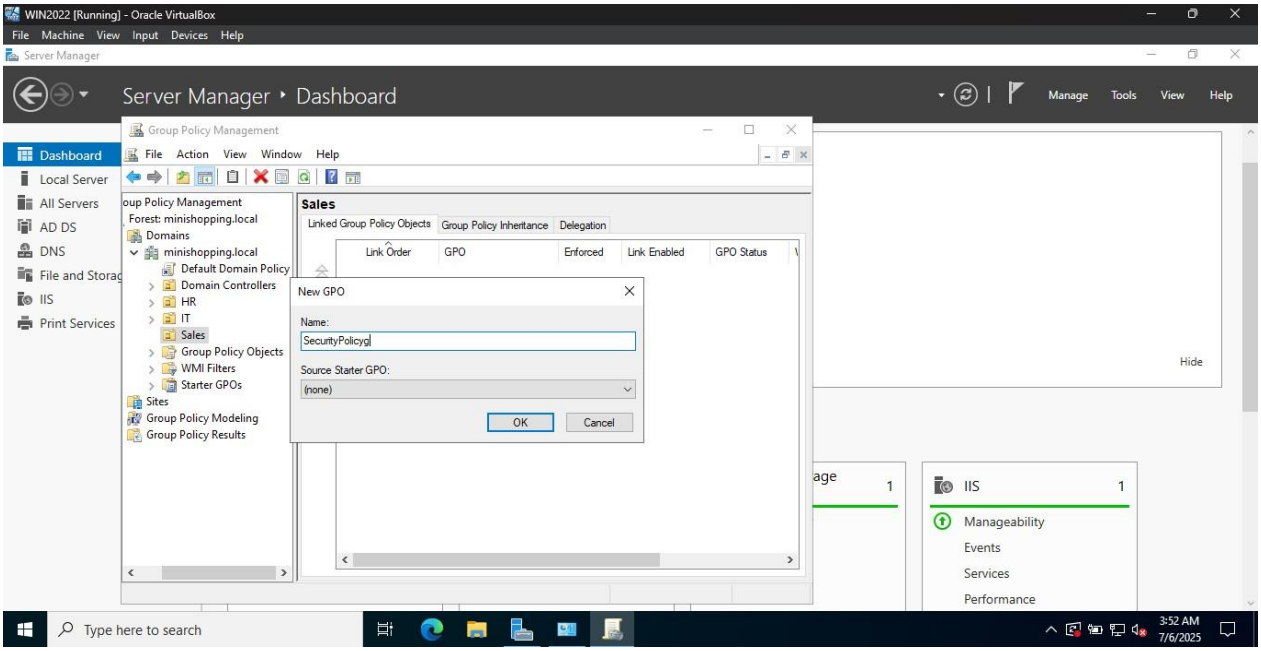

192.168.1.5 - Remote Desktop Connection
Active Directory Users and Com
Saved Queries
hrushi.com
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
HR
IT
Managed Service Accour
Sales
Users
Name
Type
Description
Builtin
builtinDomain
Computers
Container
Default container for up...
Domain Con...
Organizational...
Default container for do...
ForeignSecu...
Container
Default container for sec...
HR
Organizational...
IT
Organizational...
Managed Se...
Container
Default container for ma...
Sales
Organizational...
Users
Container
Default container for up...

Configure Group Policy

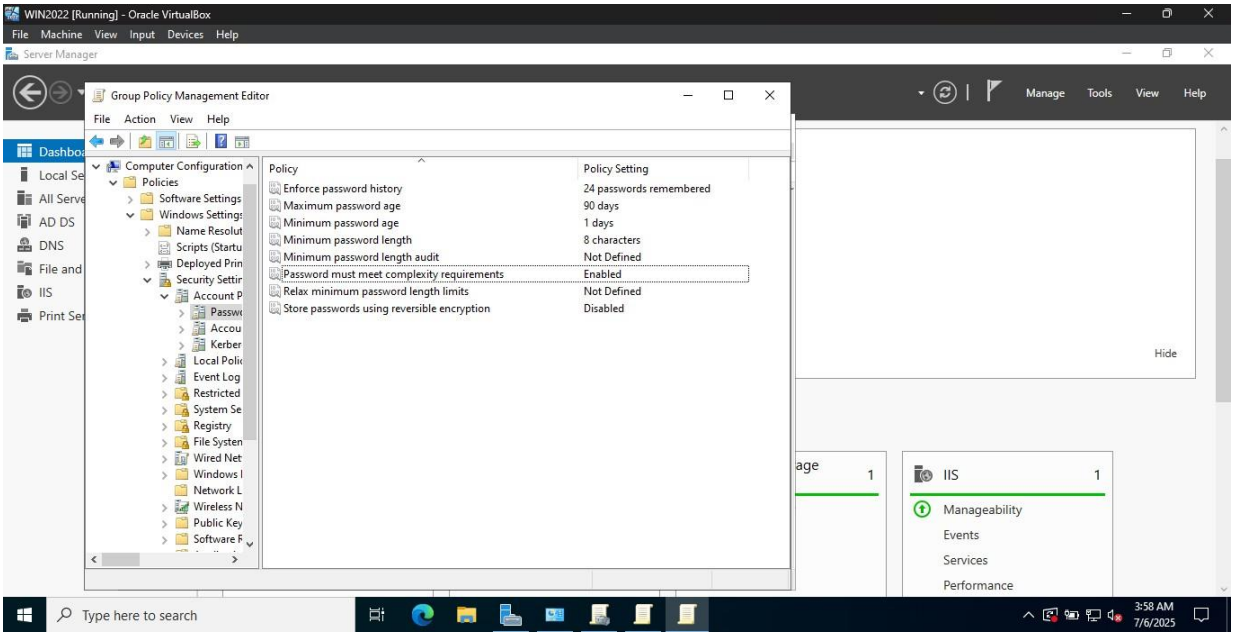
1) Open Group Monitoring

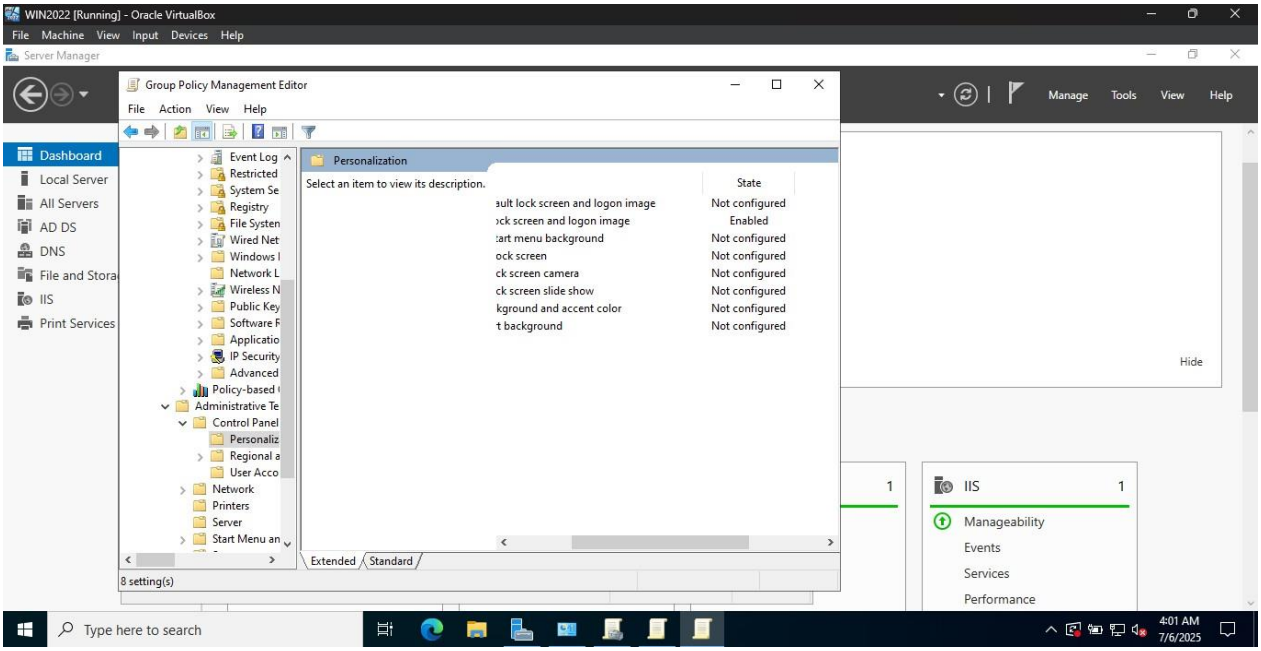


2) create a group by naming “Security Policy”

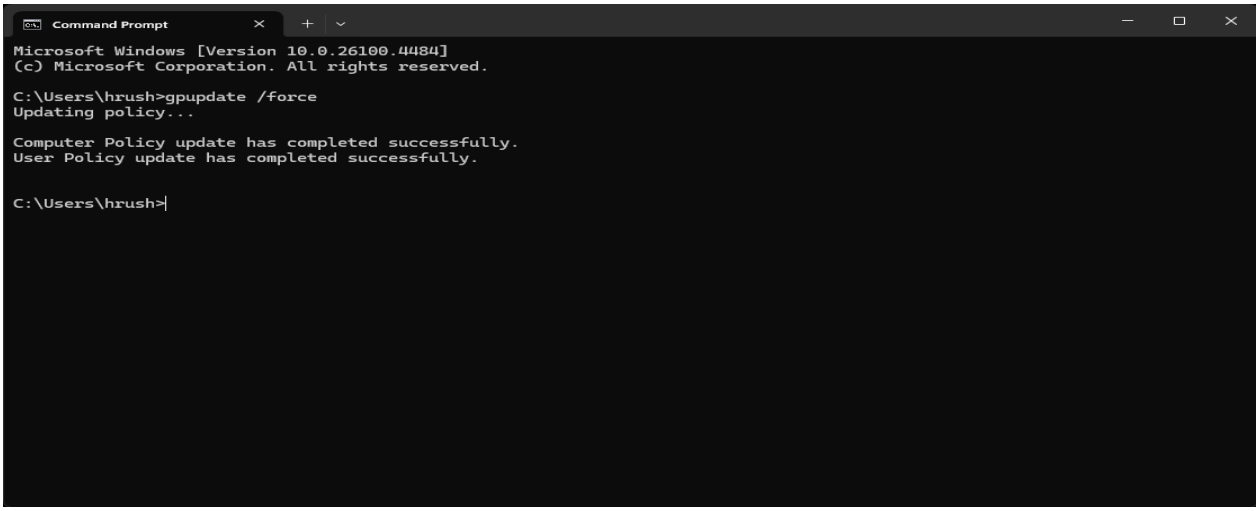


3) Set the required Setting



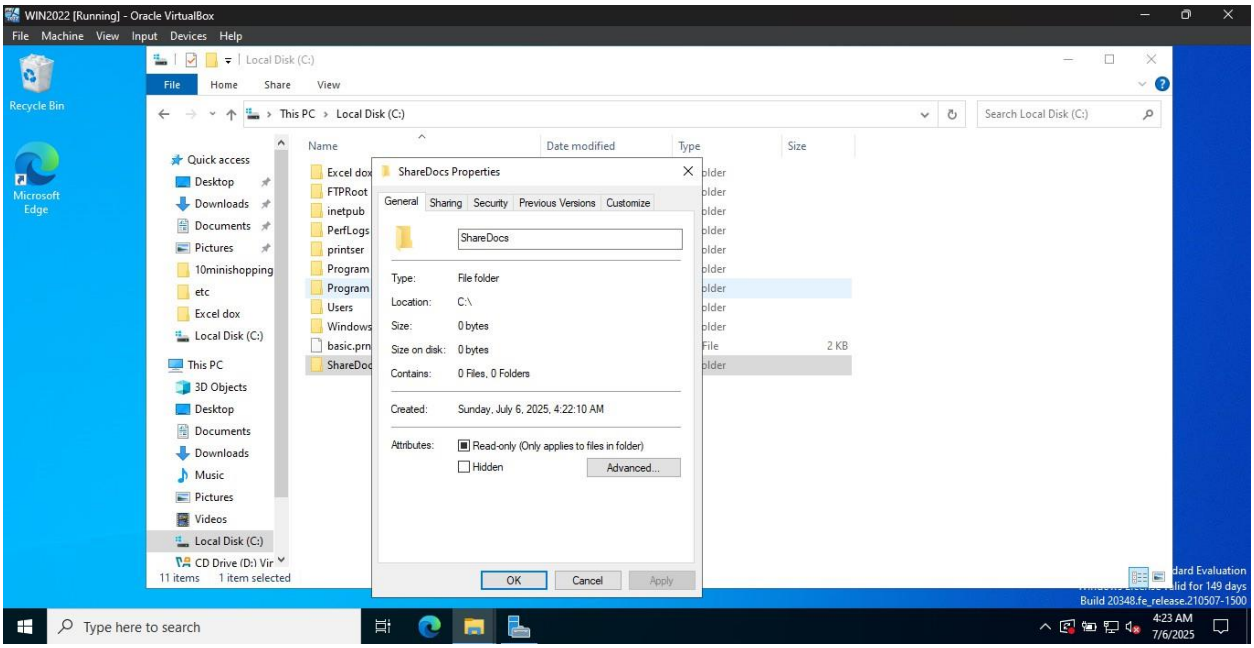


3) Now open command prompt and run code of update policy

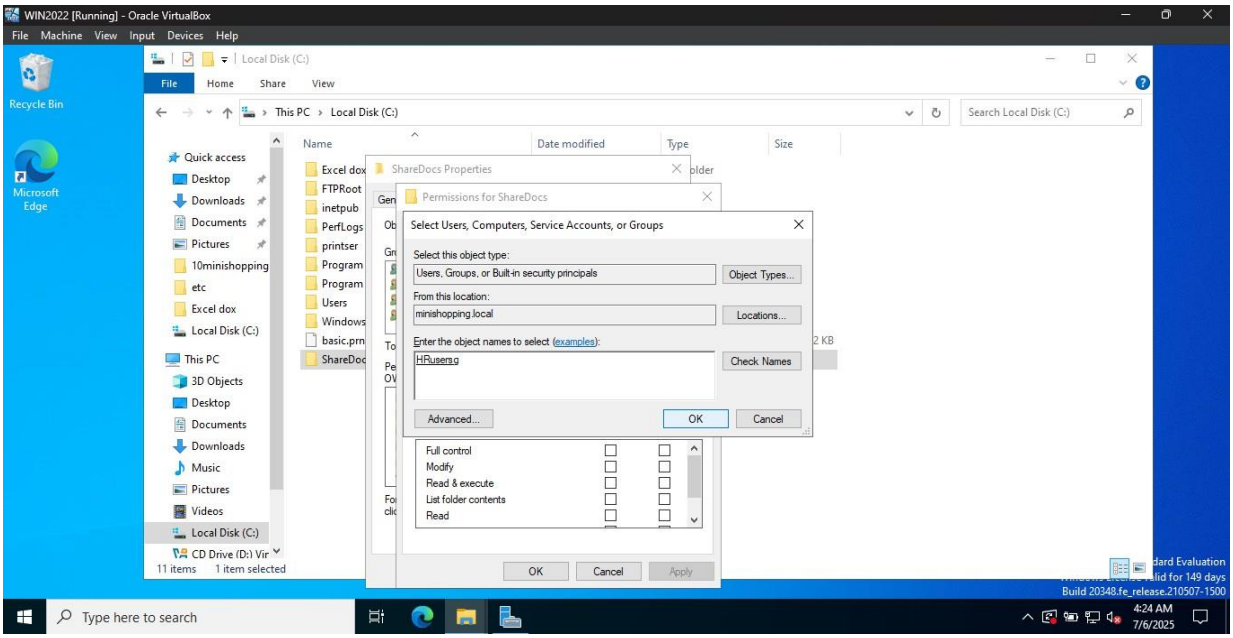


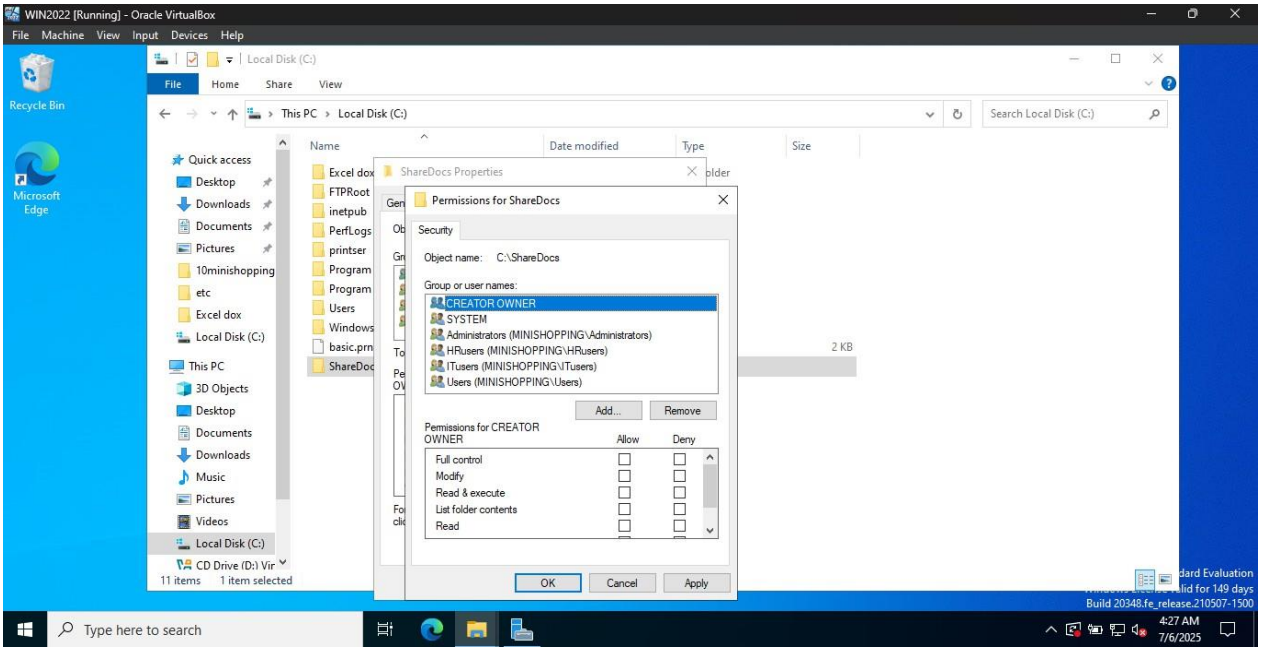
Set up File Sharing

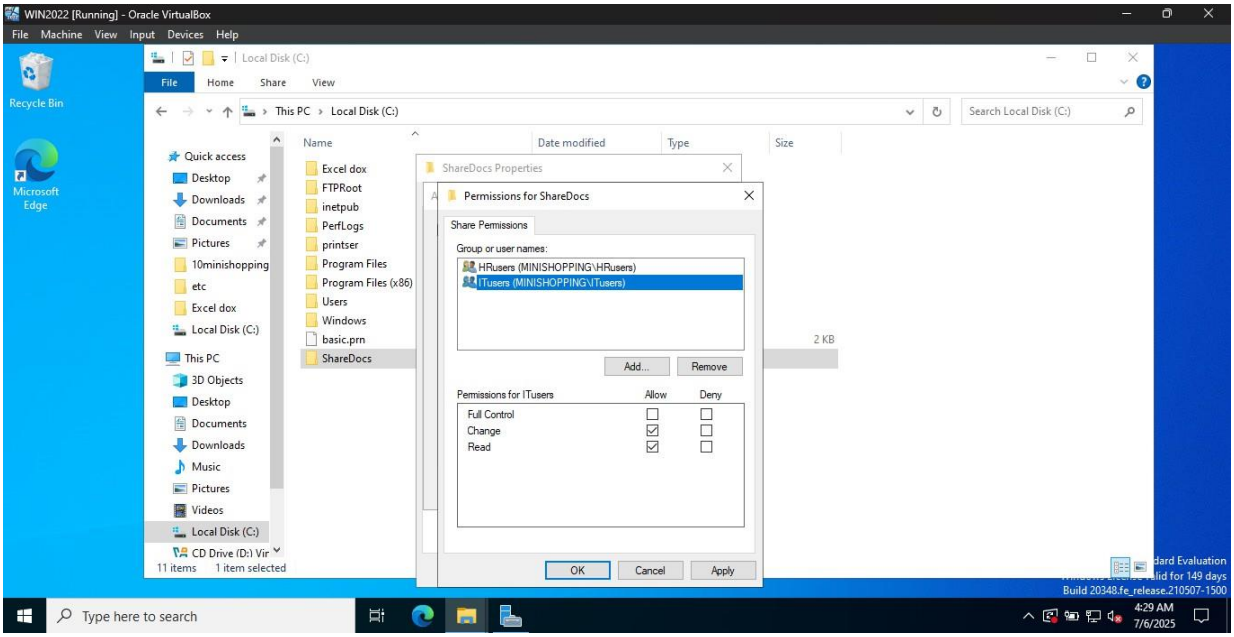
1) Create a Folder

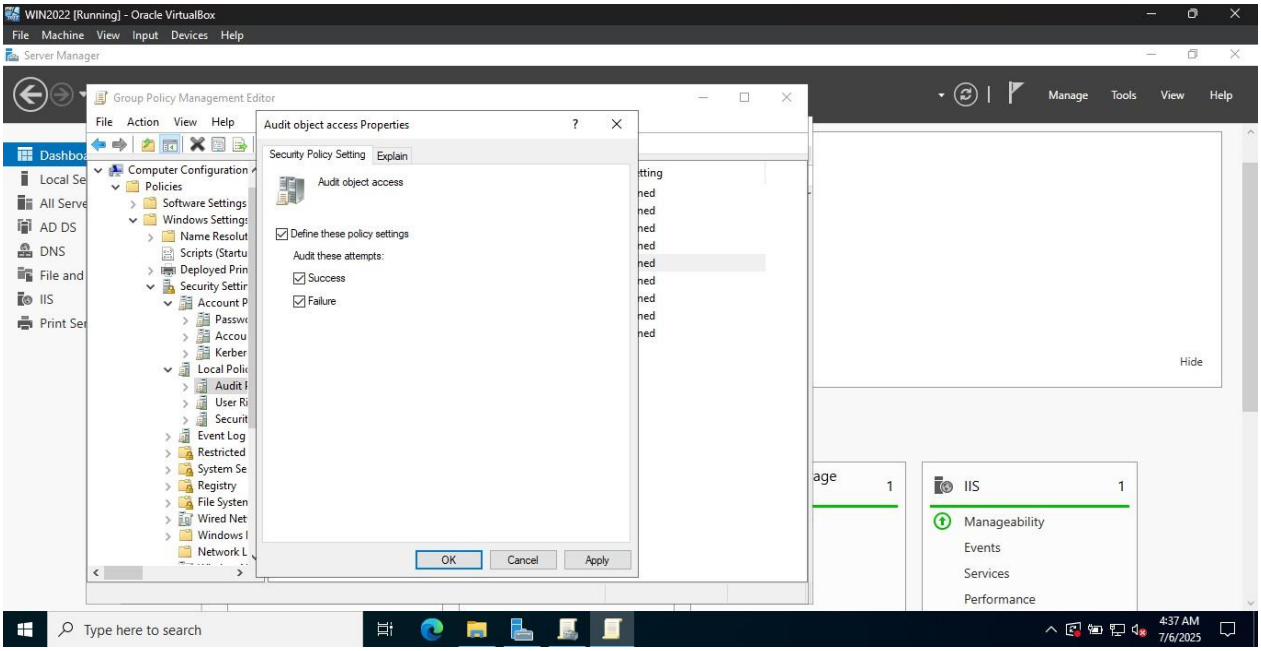


2) Grant permission to user read/write



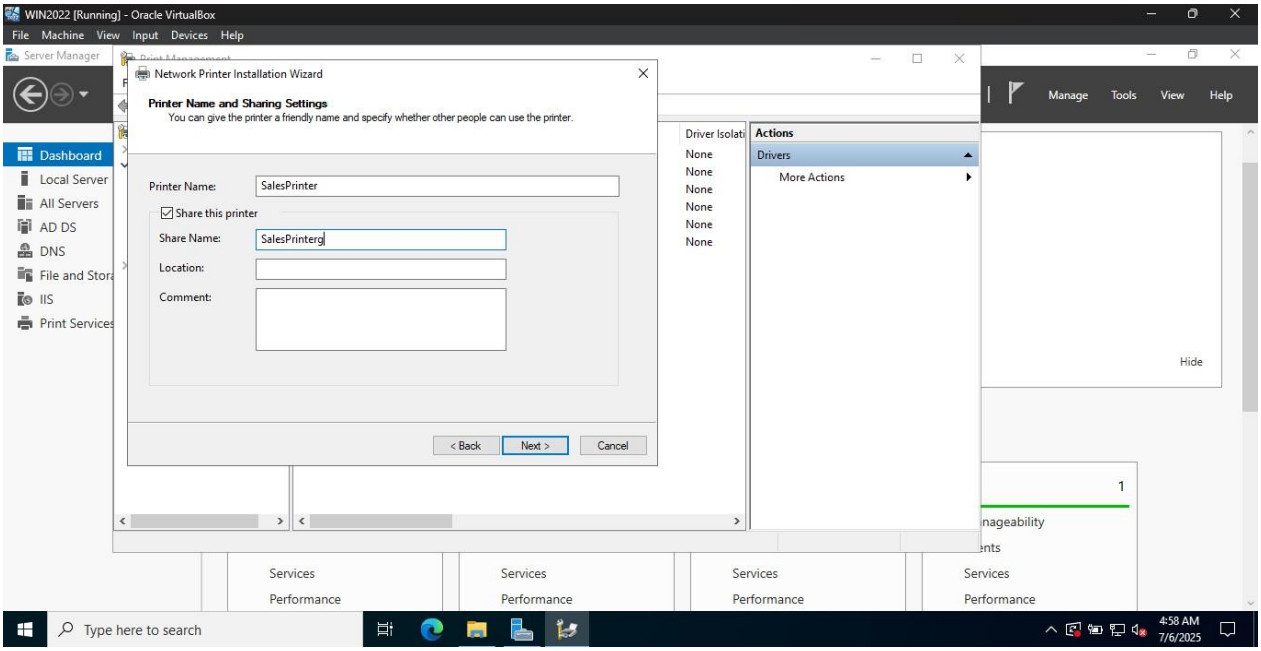

WIN2022 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Recycle Bin
Microsoft Edge
Local Disk (C:)
File Home Share View
This PC › Local Disk (C:)
Search Local Disk (C:)
Quick access
Desktop
Downloads
Documents
Pictures
10minishopping
etc
Excel dox
Local Disk (C:)
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
CD Drive (D:) Vir
11 items 1 item selected
Name
Date modified
Type
Size
Excel dox
FTPRoot
inetpub
PerfLogs
printser
Program
Program
Users
Windows
basic.prn
ShareDoc
2 KB
ShareDocs Properties
Permissions for ShareDocs
Security
Object name: C:\ShareDocs
Group or user names:
CREATOR OWNER
SYSTEM
Administrators (MINISHOPPING\Administrators)
HRusers (MINISHOPPING\HRusers)
ITusers (MINISHOPPING\ITusers)
Users (MINISHOPPING\Users)
Add... Remove
Permissions for CREATOR OWNER
Allow Deny
Full control
Modify
Read & execute
List folder contents
Read
OK Cancel Apply
Type here to search
4:27 AM
7/6/2025
Build 20348.fe_release.210507-1500

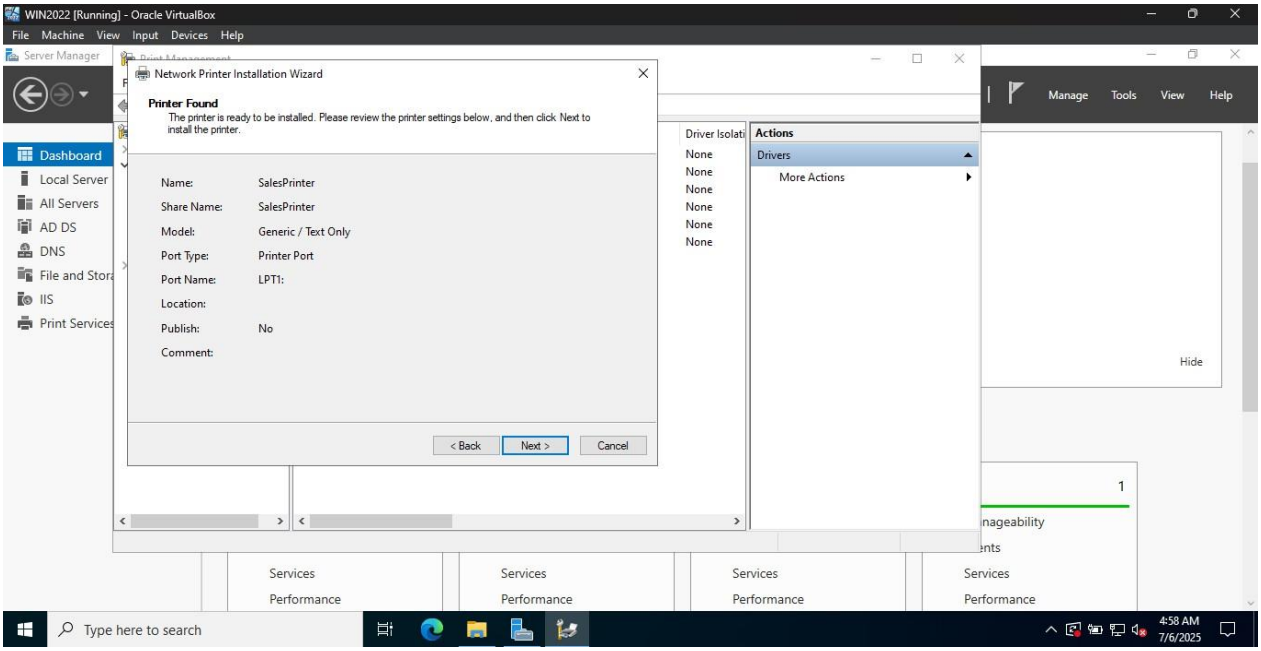

WIN2022 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Recycle Bin
Microsoft Edge
Local Disk (C:)
File Home Share View
This PC › Local Disk (C:)
Search Local Disk (C:)
Quick access
Desktop
Downloads
Documents
Pictures
10minishopping
etc
Excel dox
Local Disk (C:)
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
CD Drive (D:) Vir
11 items 1 item selected
Name
Date modified
Type
Size
Excel dox
FTPRoot
inetpub
PerfLogs
printser
Program Files
Program Files (x86)
Users
Windows
basic.prn
ShareDocs
2 KB
ShareDocs Properties
Permissions for ShareDocs
Share Permissions
Group or user names:
HRusers (MINISHOPPING\HRusers)
ITusers (MINISHOPPING\ITusers)
Add... Remove
Permissions for ITusers
Allow Deny
Full Control
Change
Read
OK Cancel Apply
Type here to search
4:29 AM
7/6/2025
Build 20348.fe_release.210507-1500



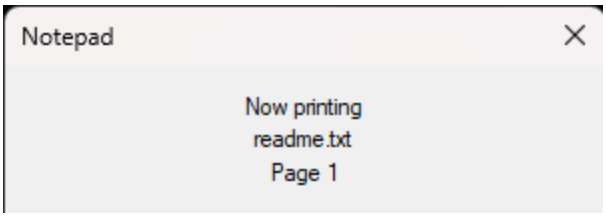
Configure Print Server

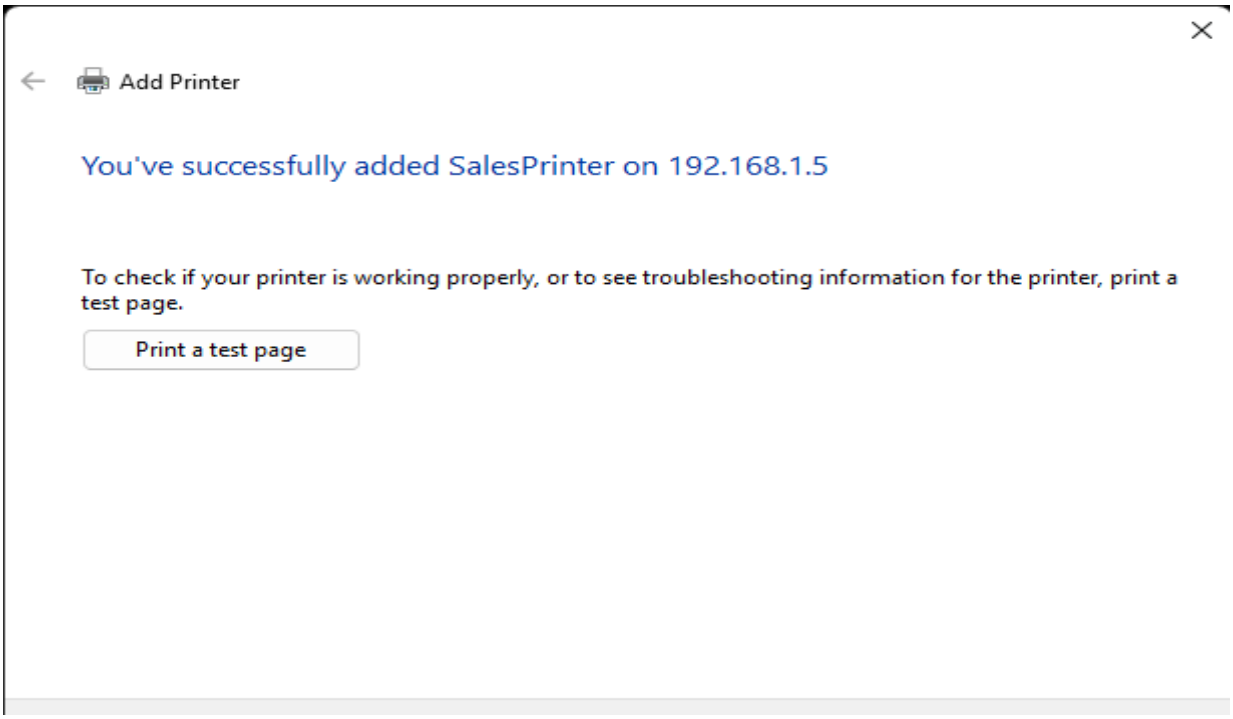
1) Add a virual printer

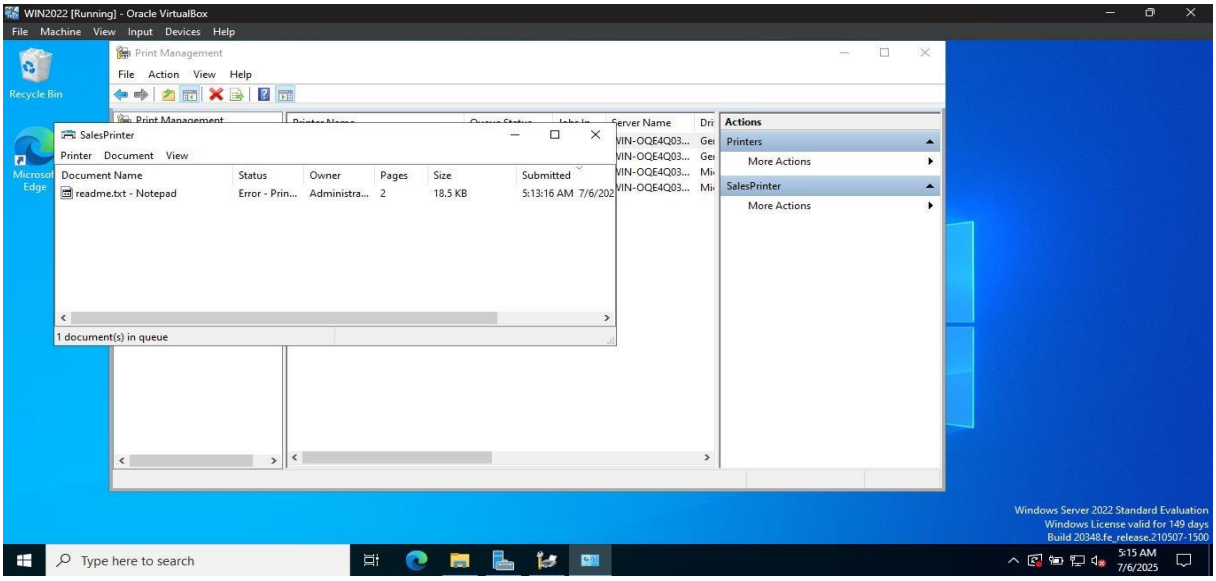




2) Grant SalesUsers print permission and test printer from client VM

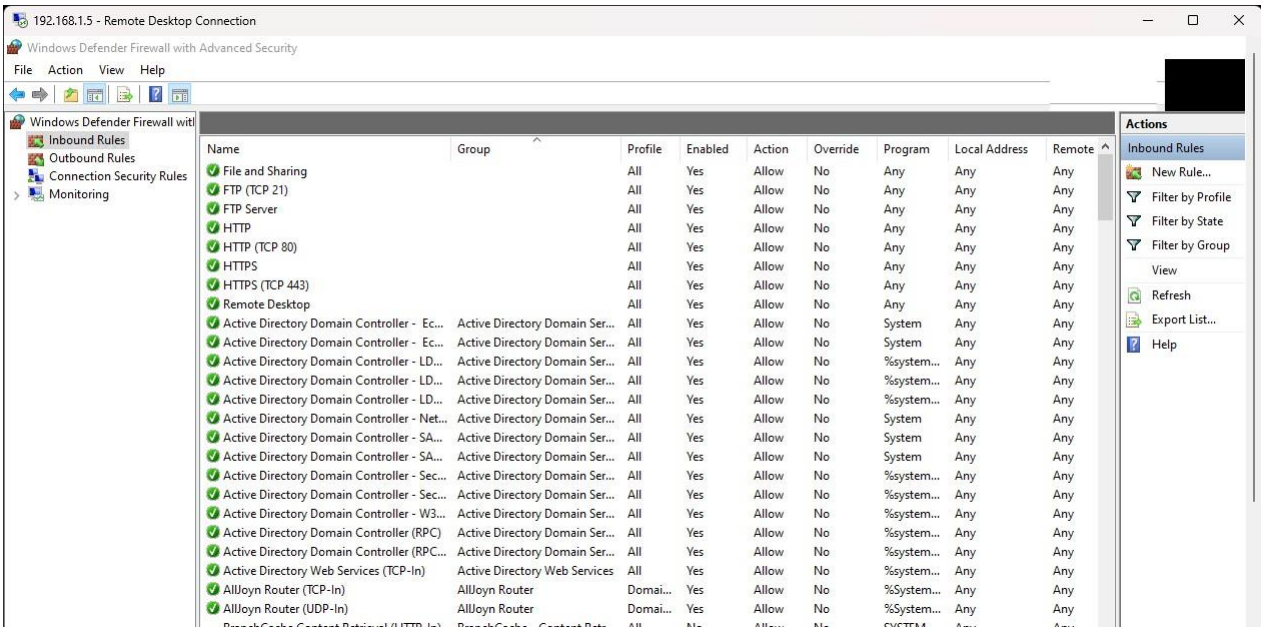

Notepad
Now printing
readme.txt
Page 1

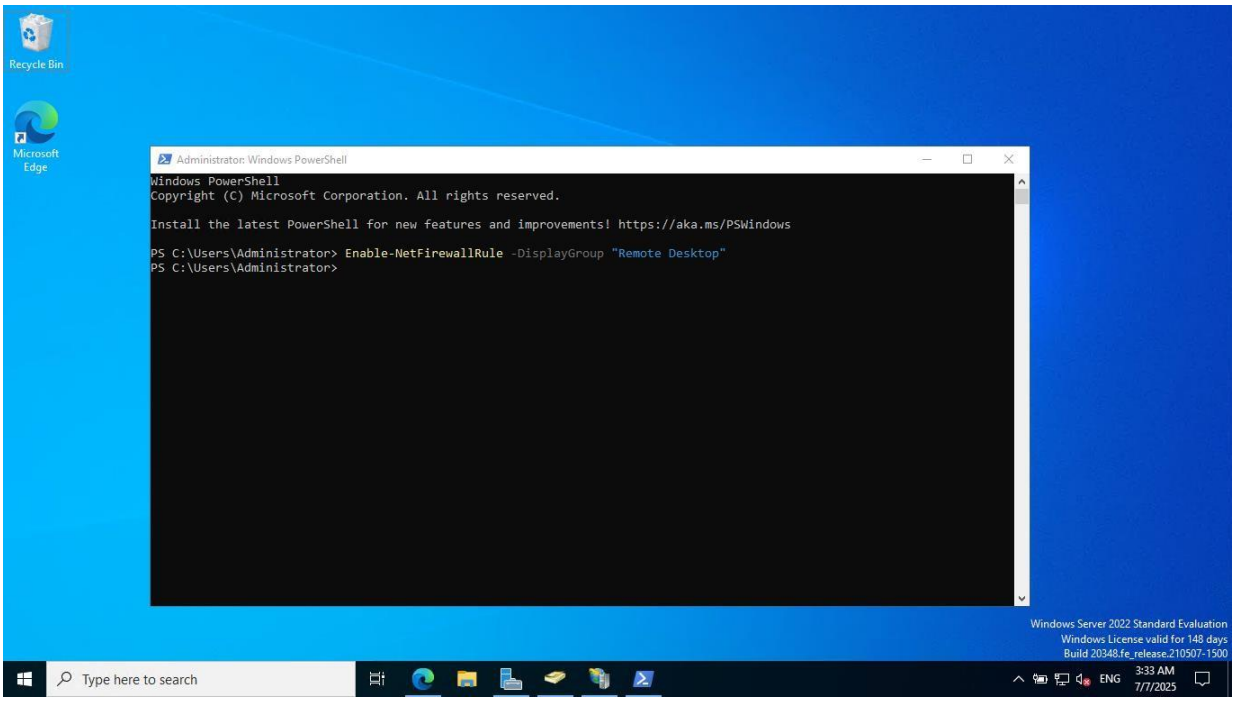

Add Printer
You've successfully added SalesPrinter on 192.168.1.5
To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page.
Print a test page

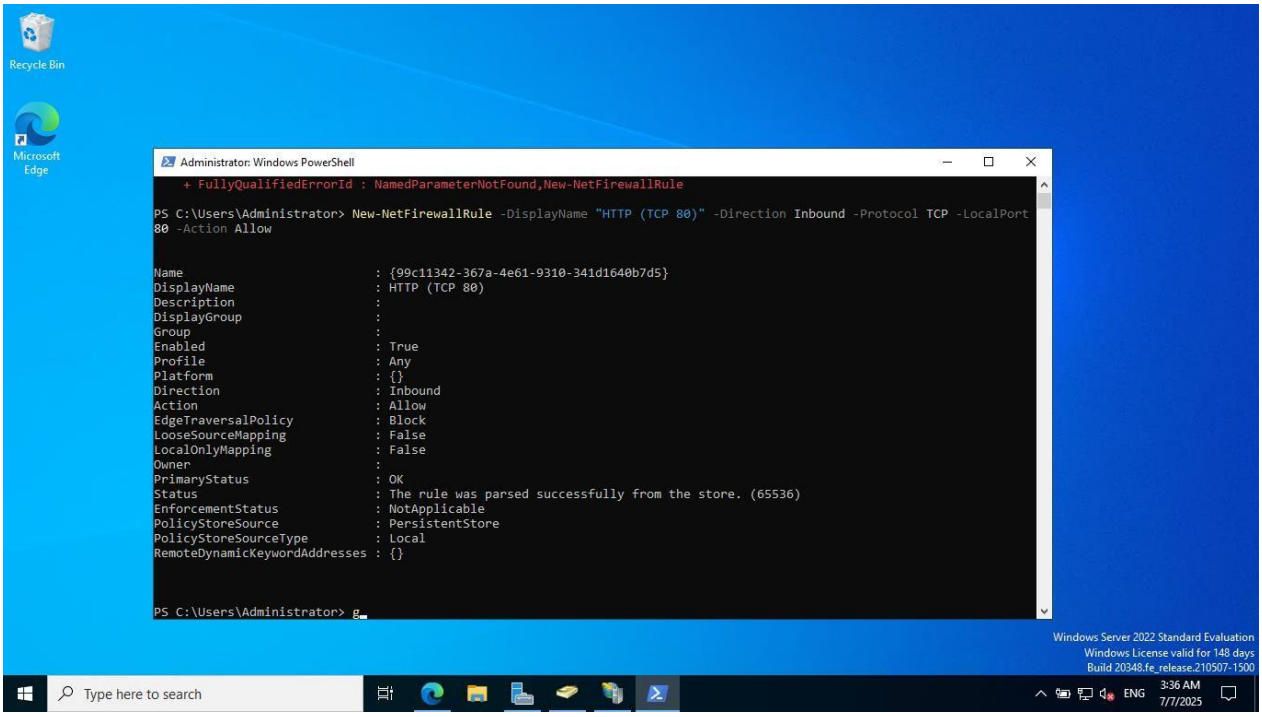

WIN2022 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Print Management
File Action View Help
SalesPrinter
Printer Document View
Document Name Status Owner Pages Size Submitted
readme.txt - Notepad Error - Prin... Administra... 2 18.5 KB 5:13:16 AM 7/6/202
1 document(s) in queue
Actions
Printers
More Actions
SalesPrinter
More Actions
Windows Server 2022 Standard Evaluation
Windows License valid for 149 days
Build 20348.fe_release.210507-1500
Type here to search
5:15 AM
7/6/2025

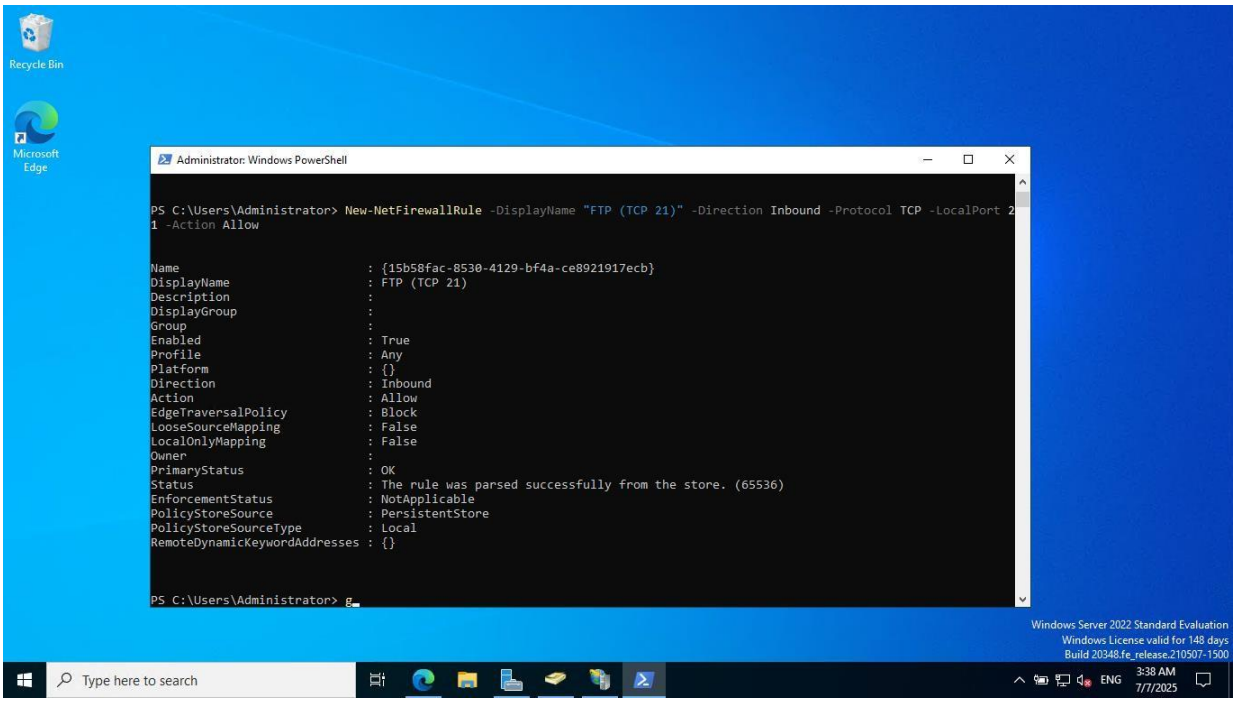
Set up Firewall and RDP

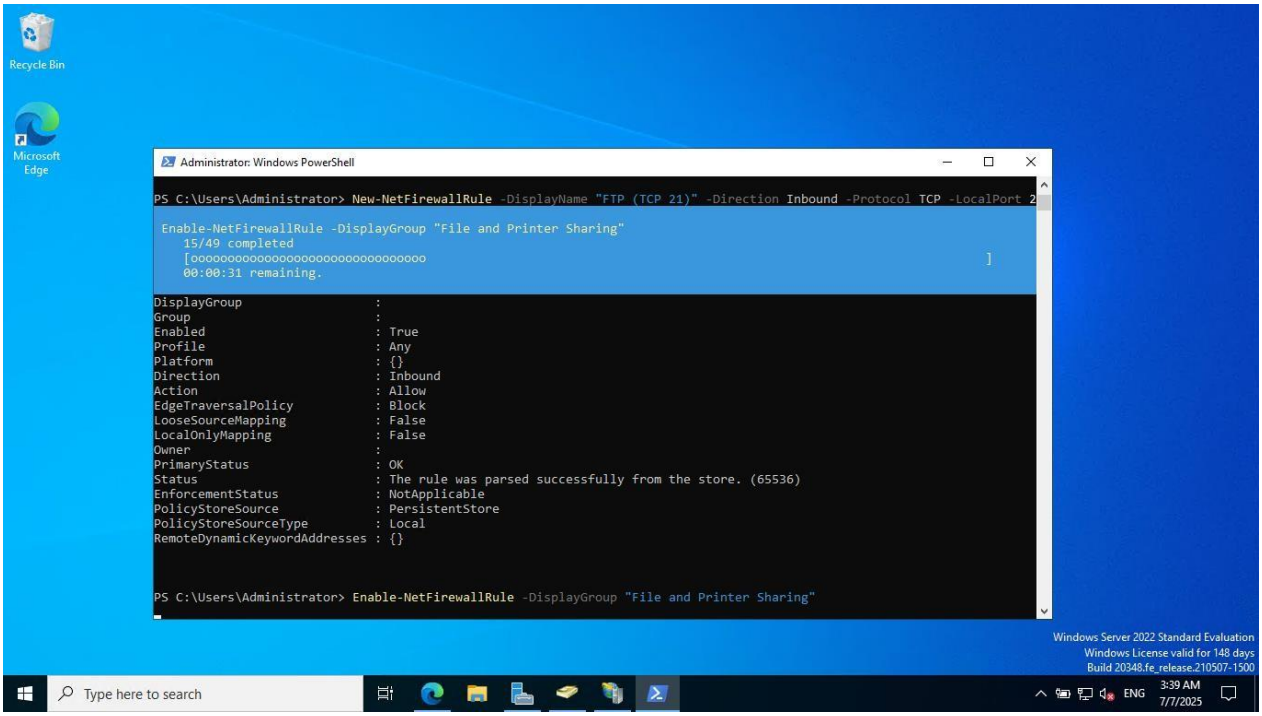
1) Configure firewall rules



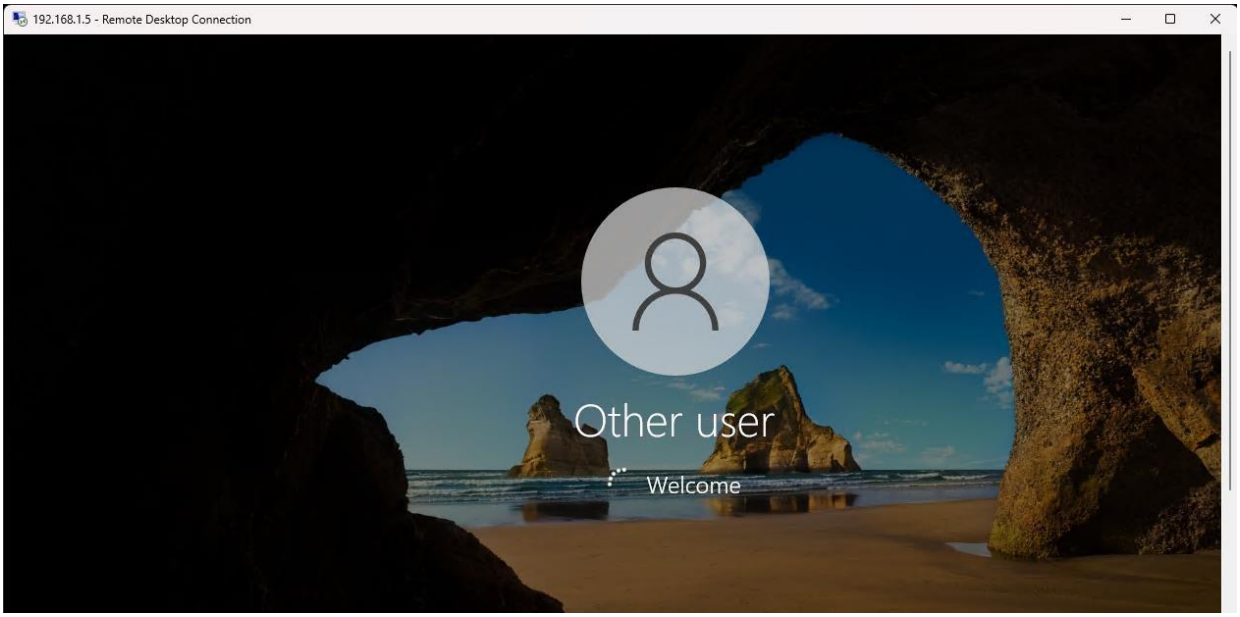



Recycle Bin
Microsoft Edge
Administrator: Windows PowerShell
+ FullyQualifiedErrorId : NamedParameterNotFound,New-NetFirewallRule
PS C:\Users\Administrator> New-NetFirewallRule -DisplayName "HTTP (TCP 80)" -Direction Inbound -Protocol TCP -LocalPort 80 -Action Allow
Name : {99c11342-367a-4e61-9310-341d1640b7d5}
DisplayName : HTTP (TCP 80)
Description :
DisplayGroup :
Group :
Enabled : True
Profile : Any
Platform : {}
Direction : Inbound
Action : Allow
EdgeTraversalPolicy : Block
LooseSourceMapping : False
LocalOnlyMapping : False
Owner :
PrimaryStatus : OK
Status : The rule was parsed successfully from the store. (65536)
EnforcementStatus : NotApplicable
PolicyStoreSource : PersistentStore
PolicyStoreSourceType : Local
RemoteDynamicKeywordAddresses : {}
PS C:\Users\Administrator> g
Windows Server 2022 Standard Evaluation
Windows License valid for 148 days
Build 20348.fe_release.210507-1500
Type here to search
ENG
3:36 AM
7/7/2025


Recycle Bin
Microsoft Edge
Administrator: Windows PowerShell
PS C:\Users\Administrator> New-NetFirewallRule -DisplayName "FTP (TCP 21)" -Direction Inbound -Protocol TCP -LocalPort 21 -Action Allow
Name : {15b58fac-8530-4129-bf4a-ce8921917ecb}
DisplayName : FTP (TCP 21)
Description :
DisplayGroup :
Group :
Enabled : True
Profile : Any
Platform : {}
Direction : Inbound
Action : Allow
EdgeTraversalPolicy : Block
LooseSourceMapping : False
LocalOnlyMapping : False
Owner :
PrimaryStatus : OK
Status : The rule was parsed successfully from the store. (65536)
EnforcementStatus : NotApplicable
PolicyStoreSource : PersistentStore
PolicyStoreSourceType : Local
RemoteDynamicKeywordAddresses : {}
PS C:\Users\Administrator> g
Windows Server 2022 Standard Evaluation
Windows License valid for 148 days
Build 20348.fe_release.210507-1500
Type here to search
ENG
3:38 AM
7/7/2025

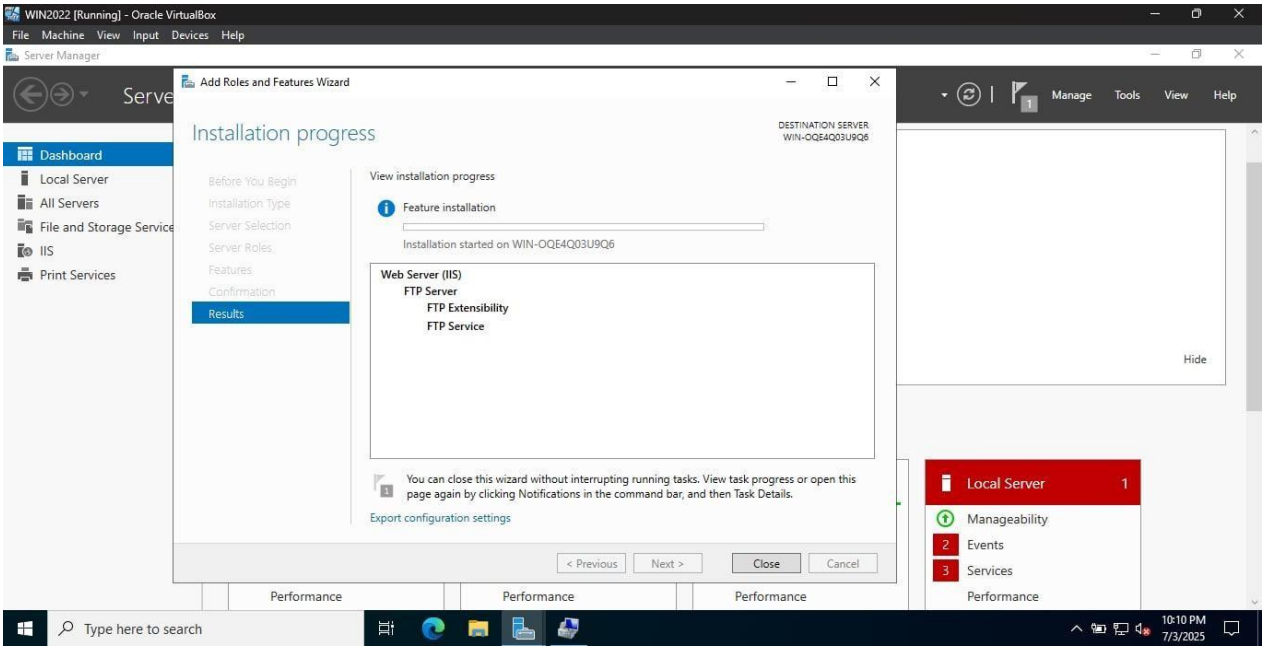


2) Rdp access from client vm

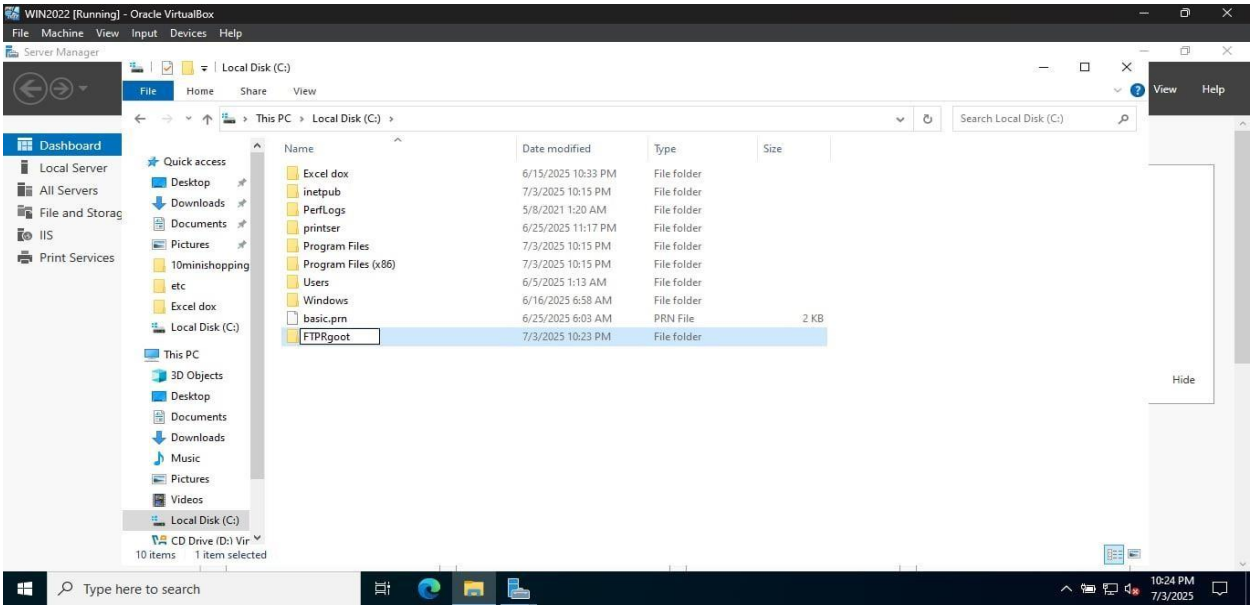


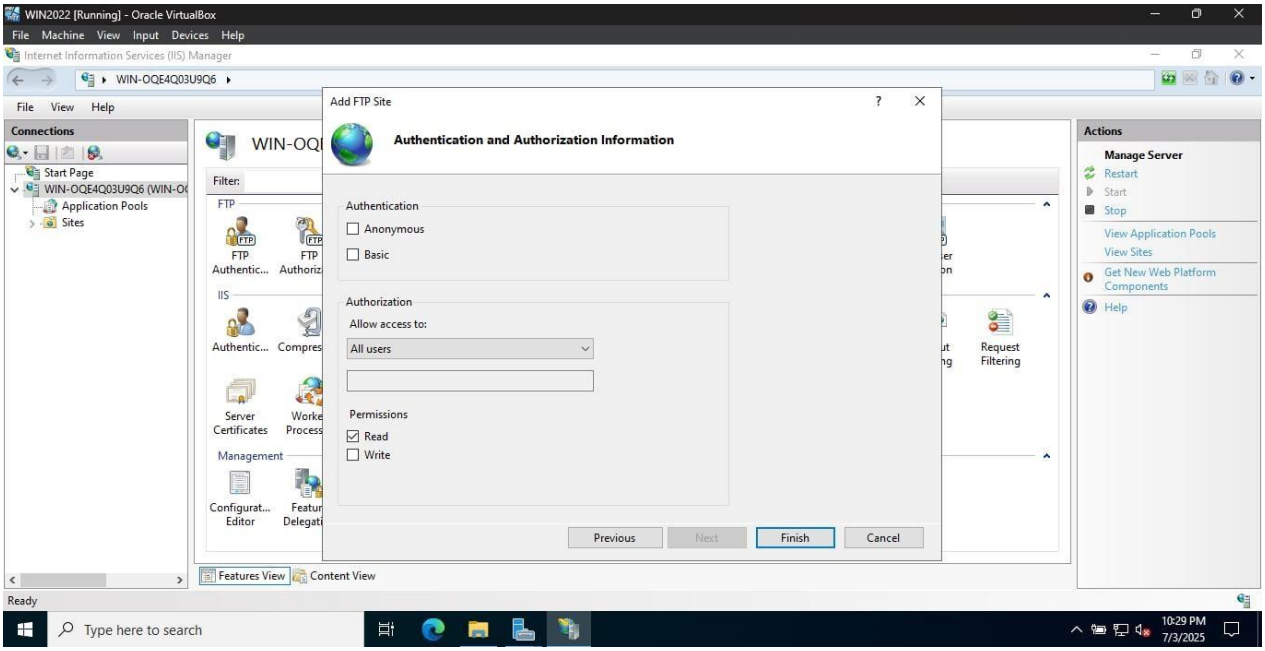
FTP Server

1) Install the FTP server

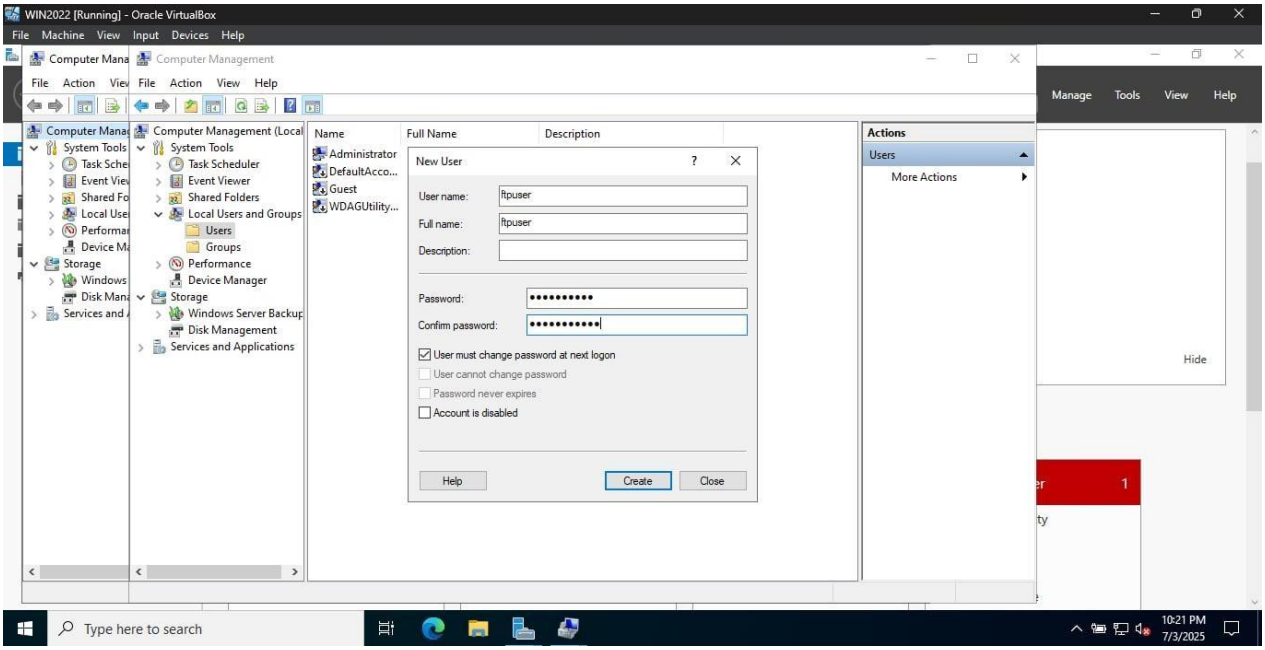


2) Create an FTP site for C:\FTPRoot with baisc Authentication

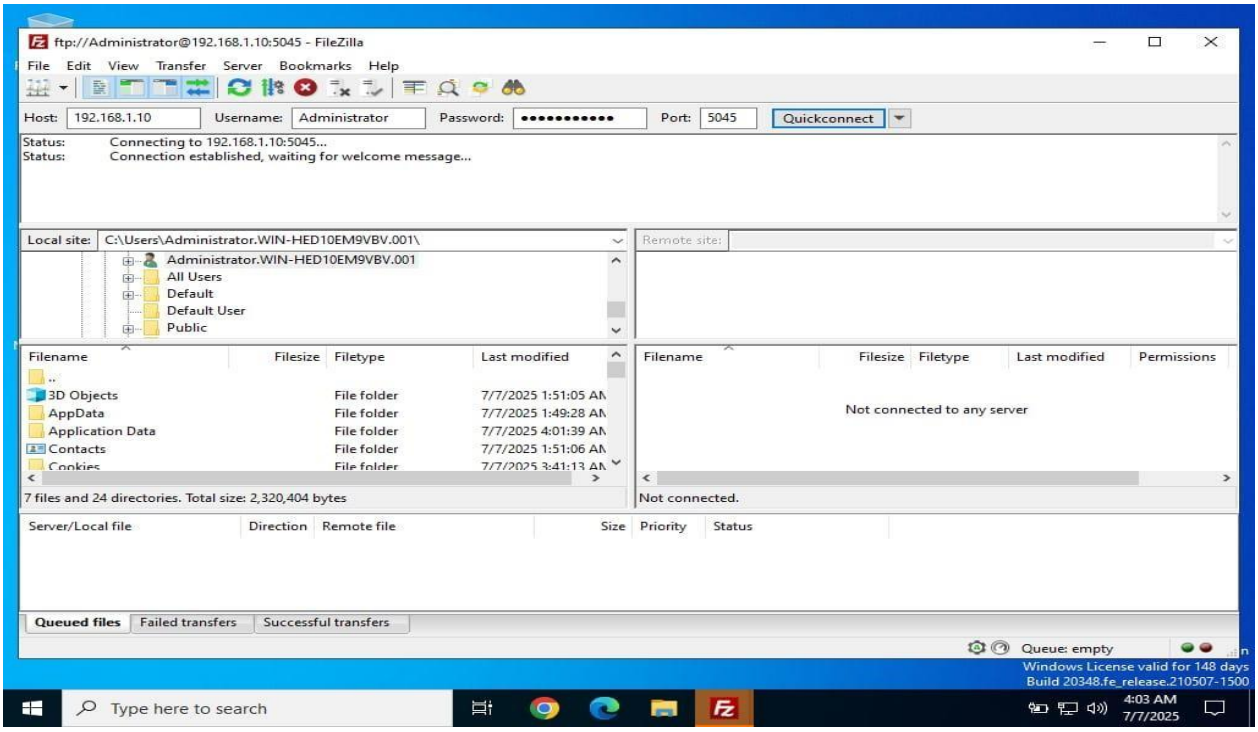




3) Create a user ftpuser with read/write access

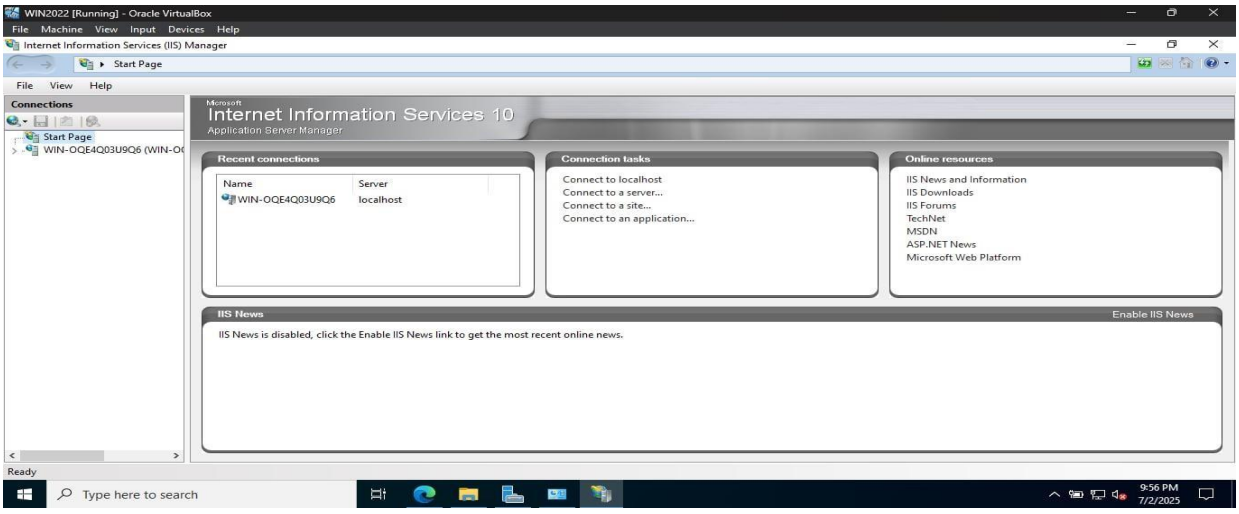


4) Test file from FileZilla

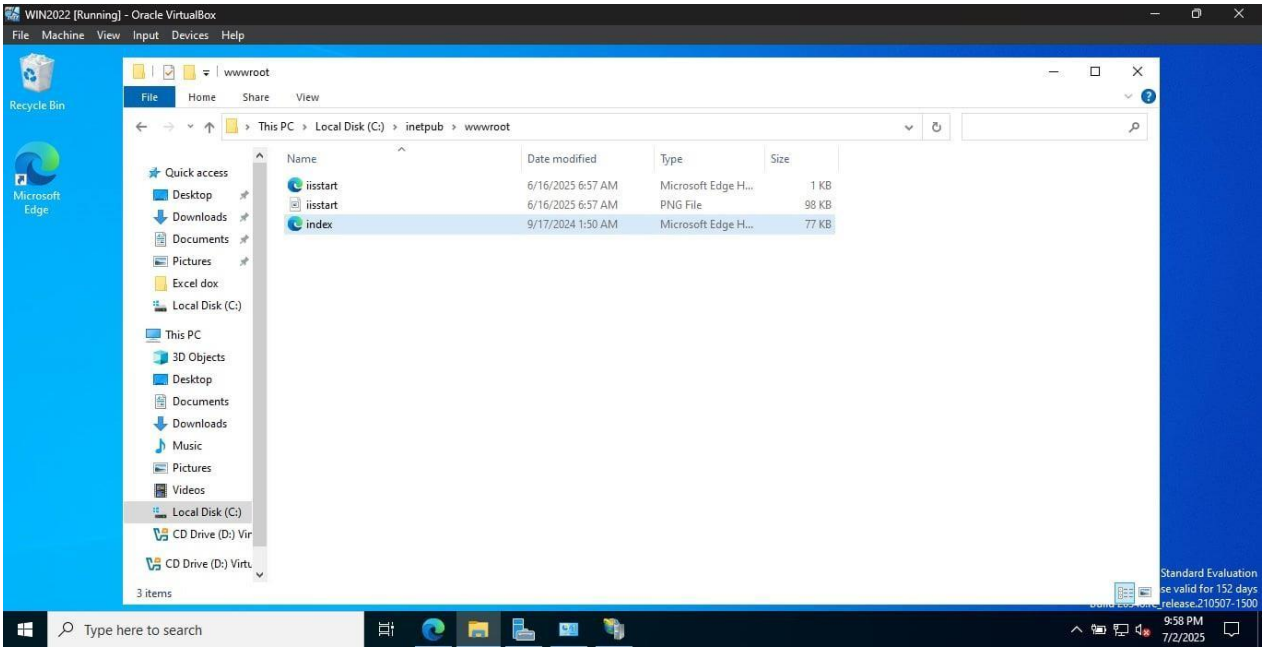


Set up Web Server

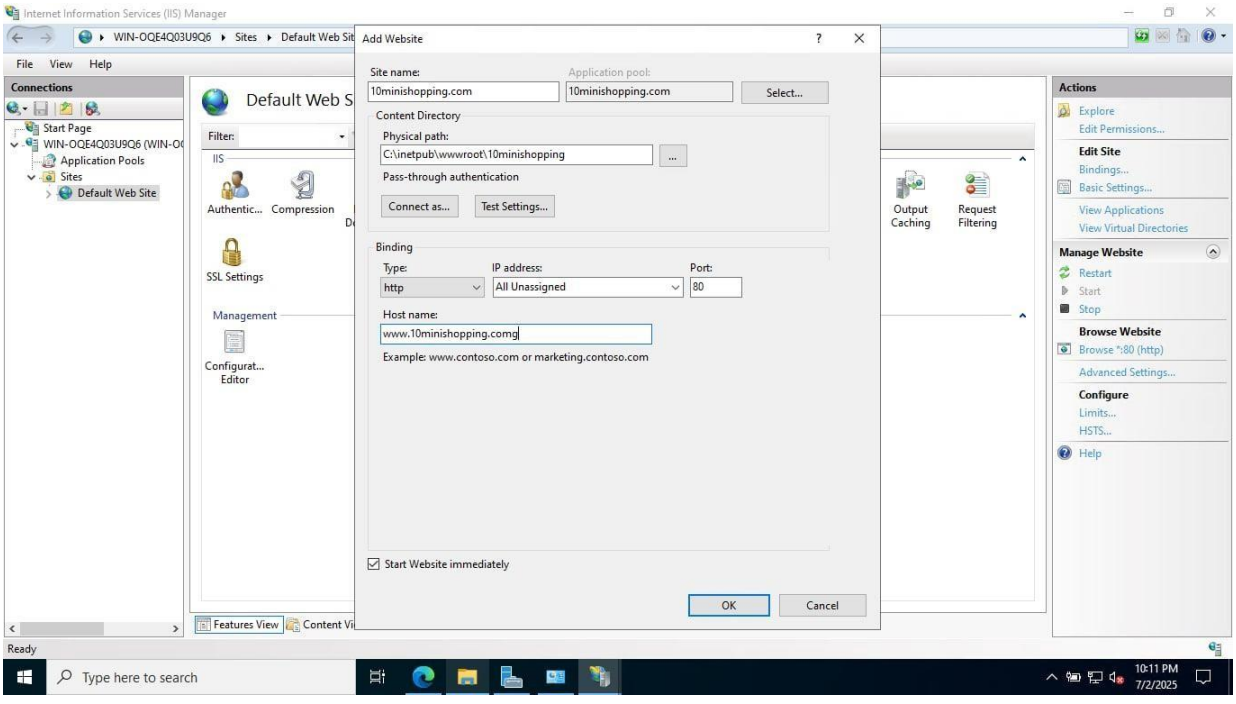
1) Install IIS role



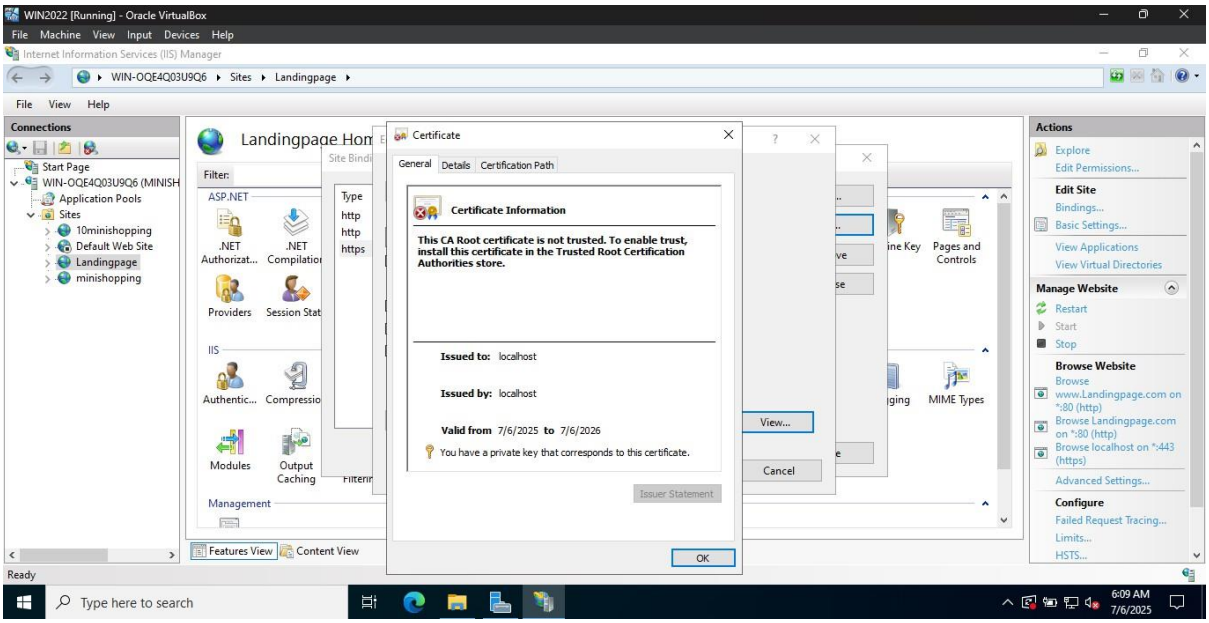
2) Create a Folder for Web page

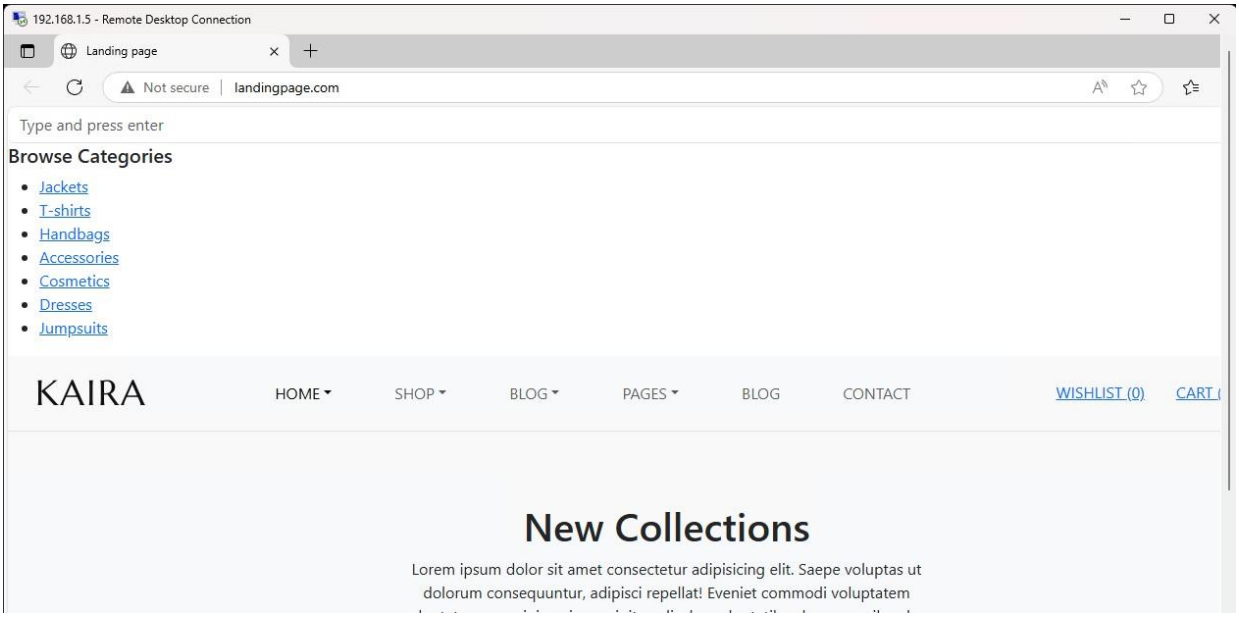


3) Host a website on port 80



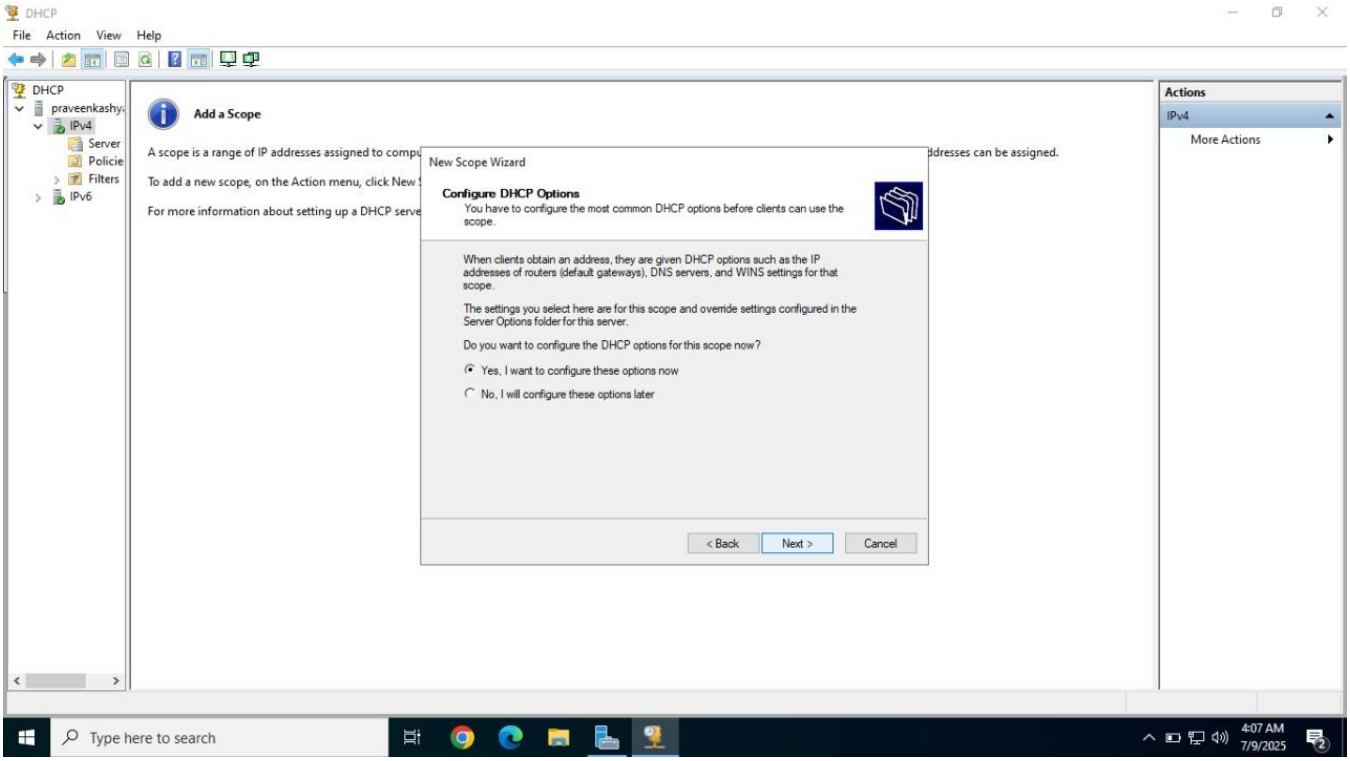
4) Generate a self-signed Certificate

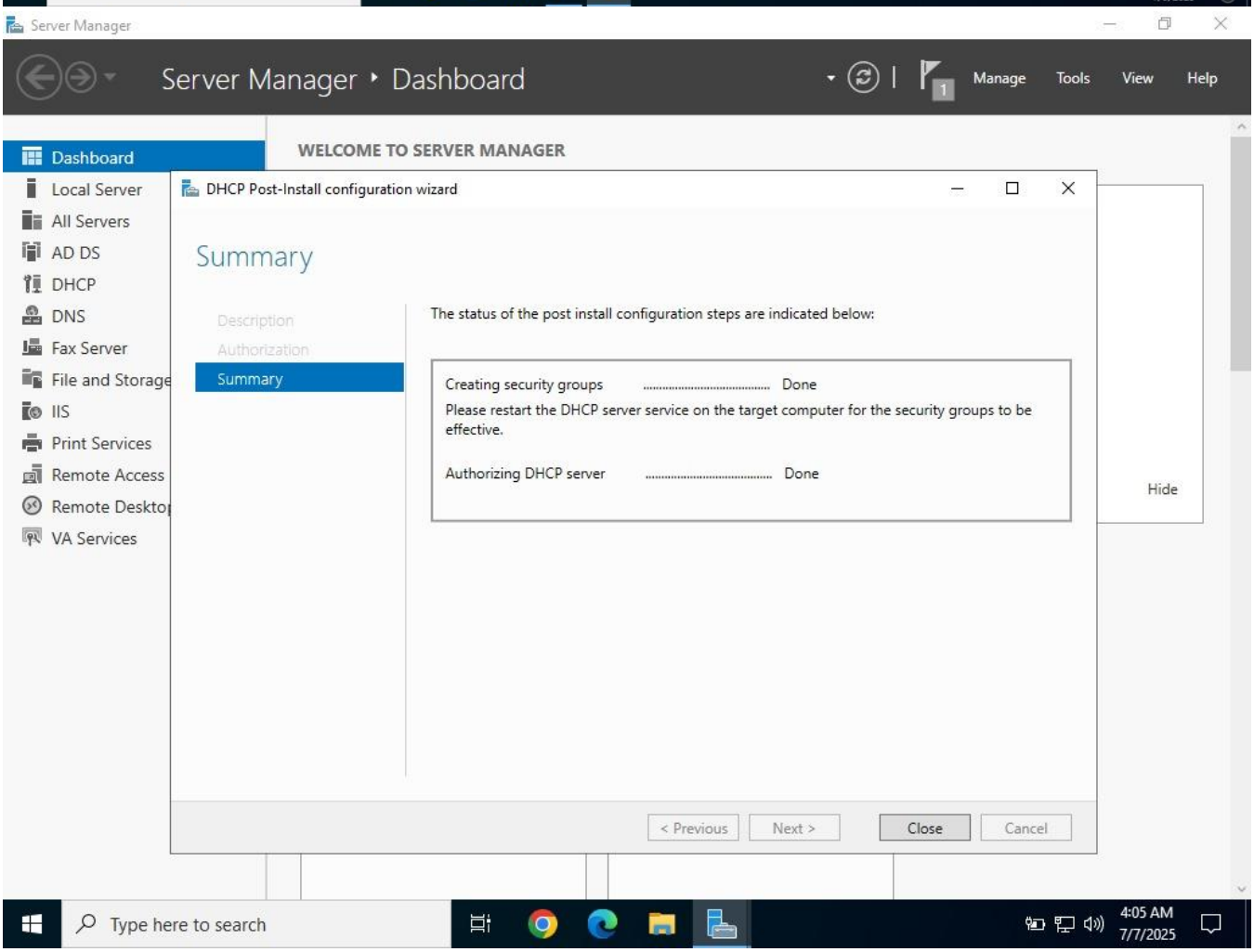




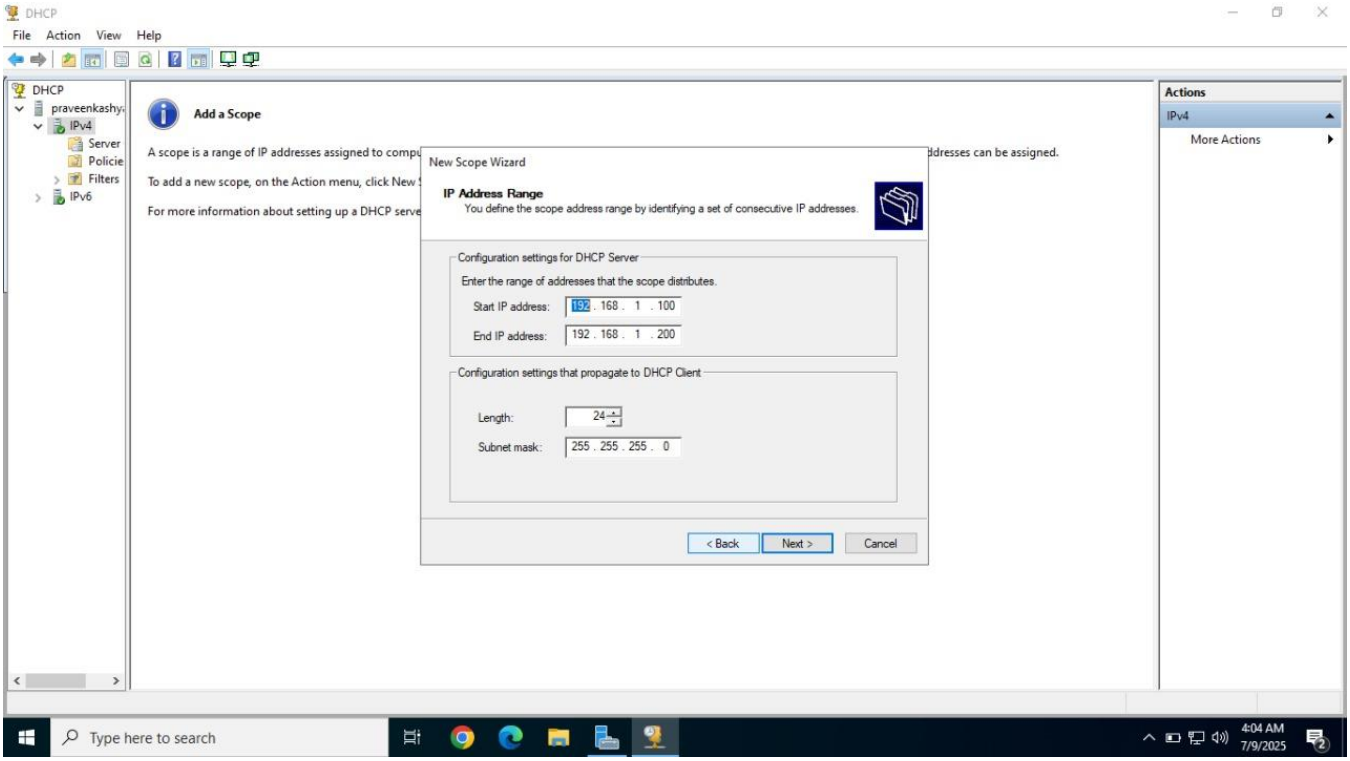
Configure DHCP Server

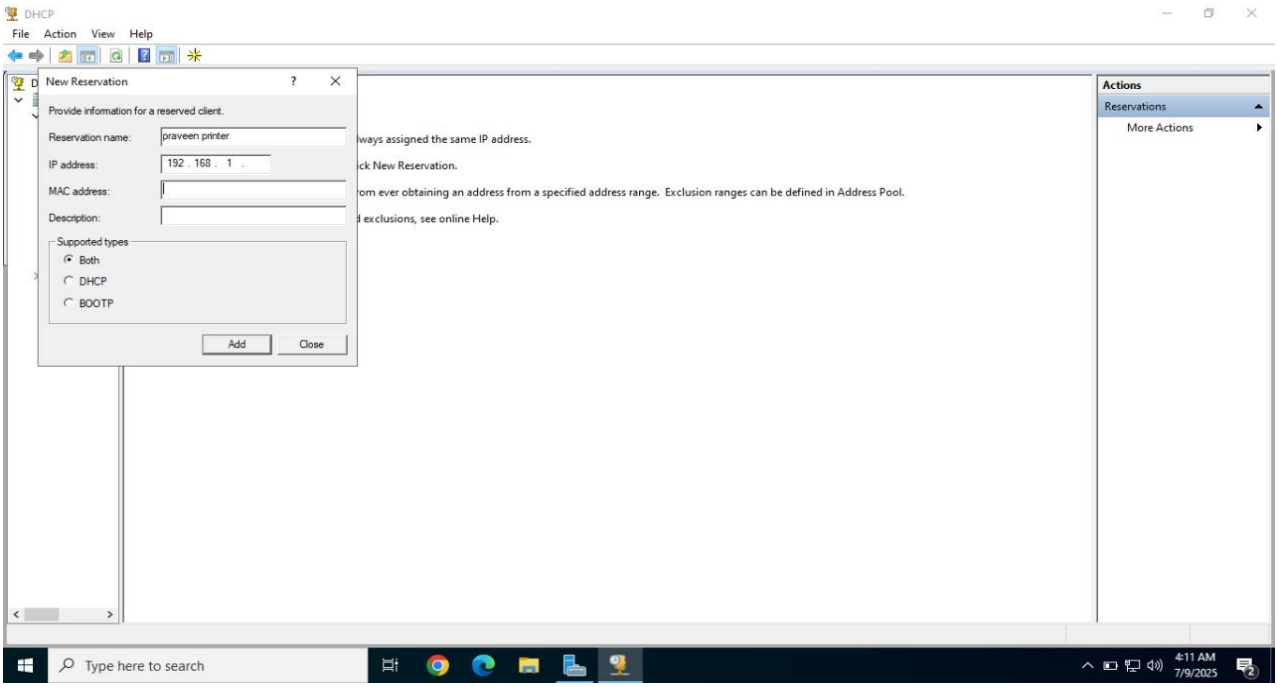
1) Install the role





2) Create a scope with a default gateway and dns server

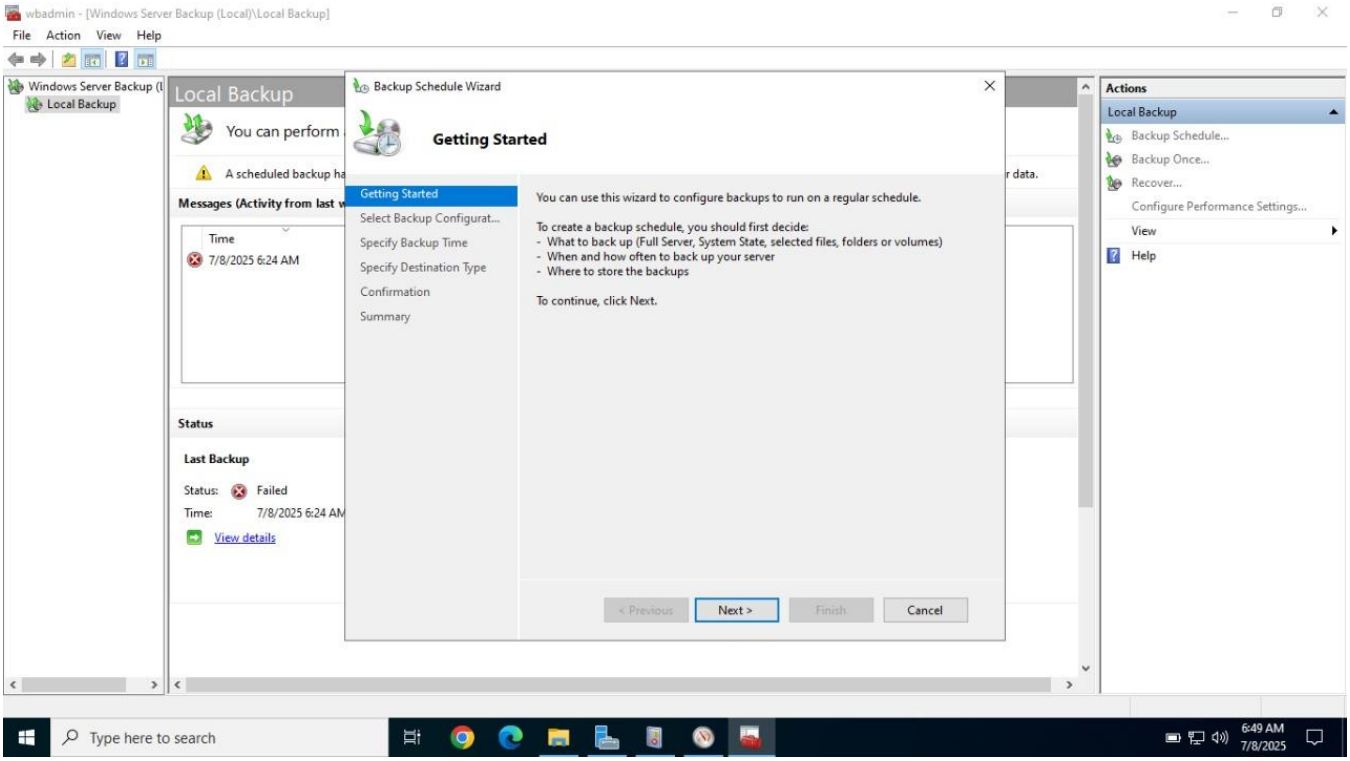


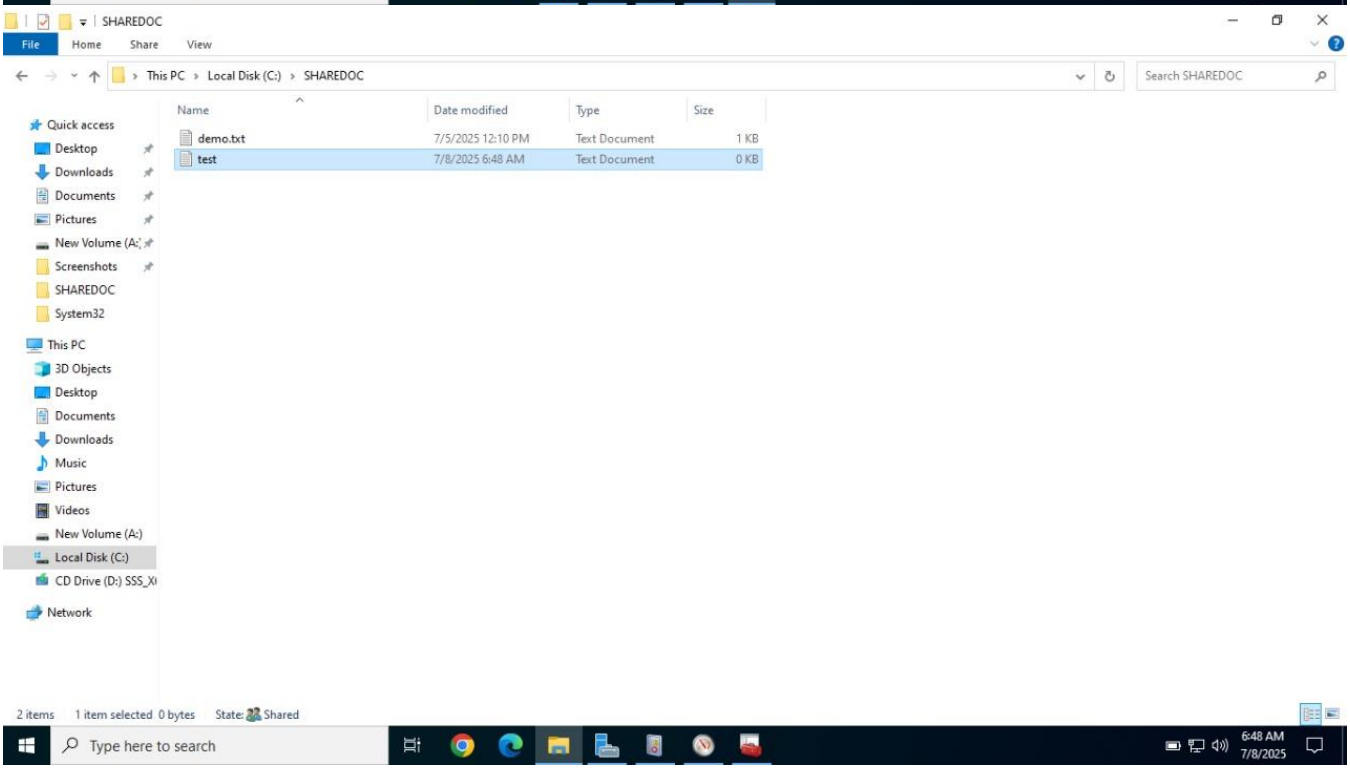


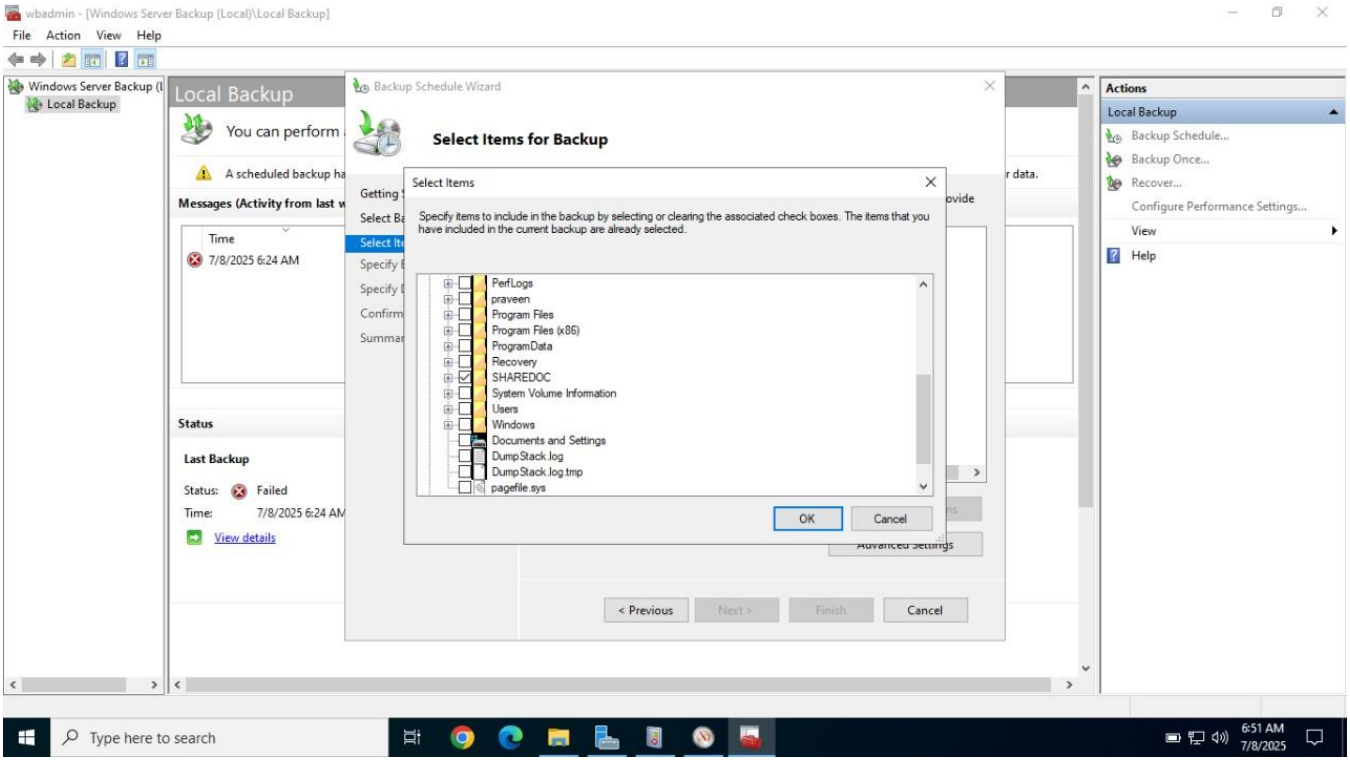
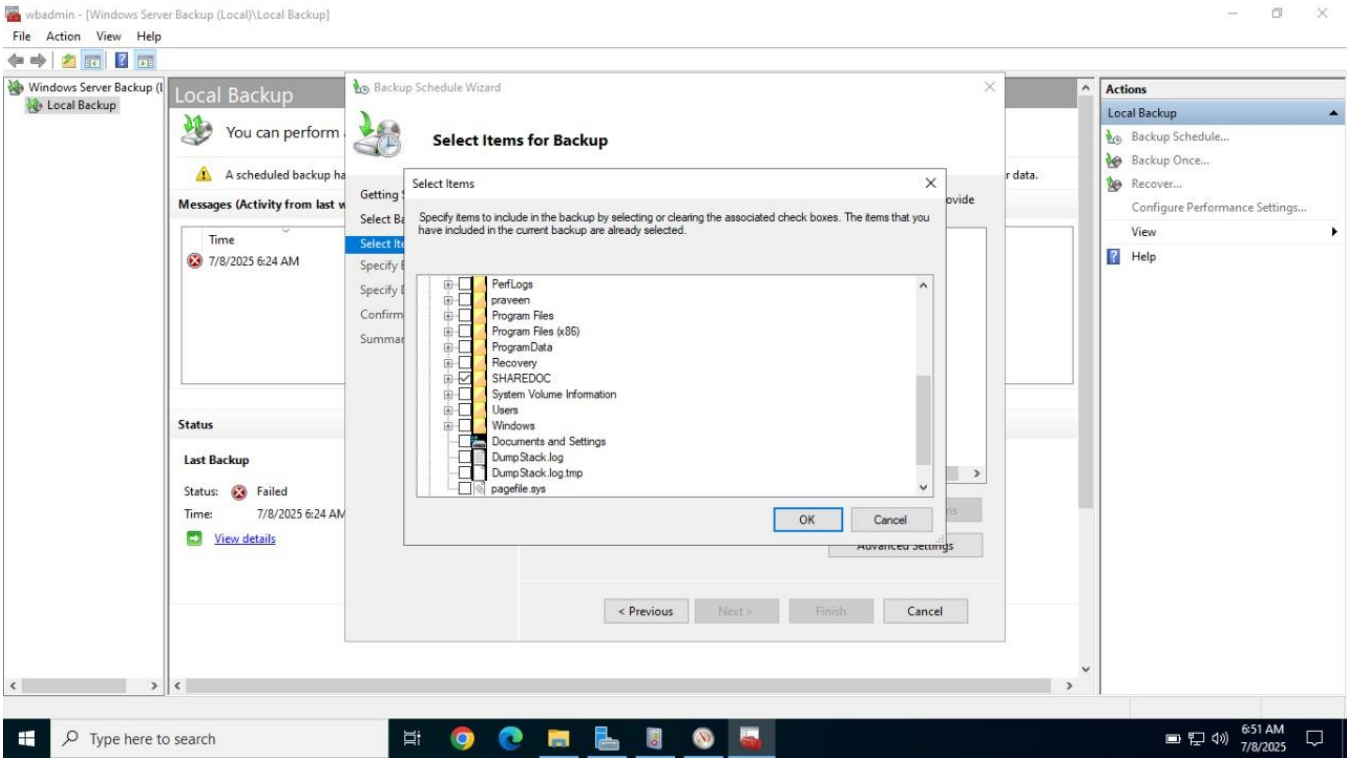
Configure Backup and Monitoring

1)

Install Window Server backup and Schedule a daily backup of C:\sharedDocs


wbadmin - [Windows Server Backup (Local)\Local Backup]
File Action View Help
Windows Server Backup (
Local Backup
Local Backup
You can perform
A scheduled backup ha
r data.
Messages (Activity from last w
Time
7/8/2025 6:24 AM
Status
Last Backup
Status: Failed
Time: 7/8/2025 6:24 AM
View details
Backup Schedule Wizard
Getting Started
Getting Started
Select Backup Configurat...
Specify Backup Time
Specify Destination Type
Confirmation
Summary
You can use this wizard to configure backups to run on a regular schedule.
To create a backup schedule, you should first decide:
- What to back up (Full Server, System State, selected files, folders or volumes)
- When and how often to back up your server
- Where to store the backups
To continue, click Next.
< Previous
Next >
Finish
Cancel
Actions
Local Backup
Backup Schedule...
Backup Once...
Recover...
Configure Performance Settings...
View
Help
Type here to search
6:49 AM
7/8/2025


SHAREDOC
File Home Share View
This PC › Local Disk (C:) › SHAREDOC
Search SHAREDOC
Quick access
Desktop
Downloads
Documents
Pictures
New Volume (A:)
Screenshots
SHAREDOC
System32
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
New Volume (A:)
Local Disk (C:)
CD Drive (D:) SSS_X
Network
Name
Date modified
Type
Size
demo.txt
7/5/2025 12:10 PM
Text Document
1 KB
test
7/8/2025 6:48 AM
Text Document
0 KB
2 items
1 item selected 0 bytes
State: Shared
Type here to search
6:48 AM
7/8/2025



2)Delete test File and restore it