



MCSA Project

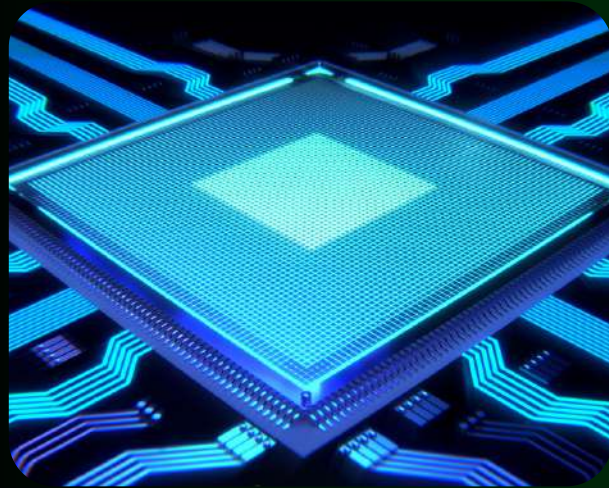


Slide

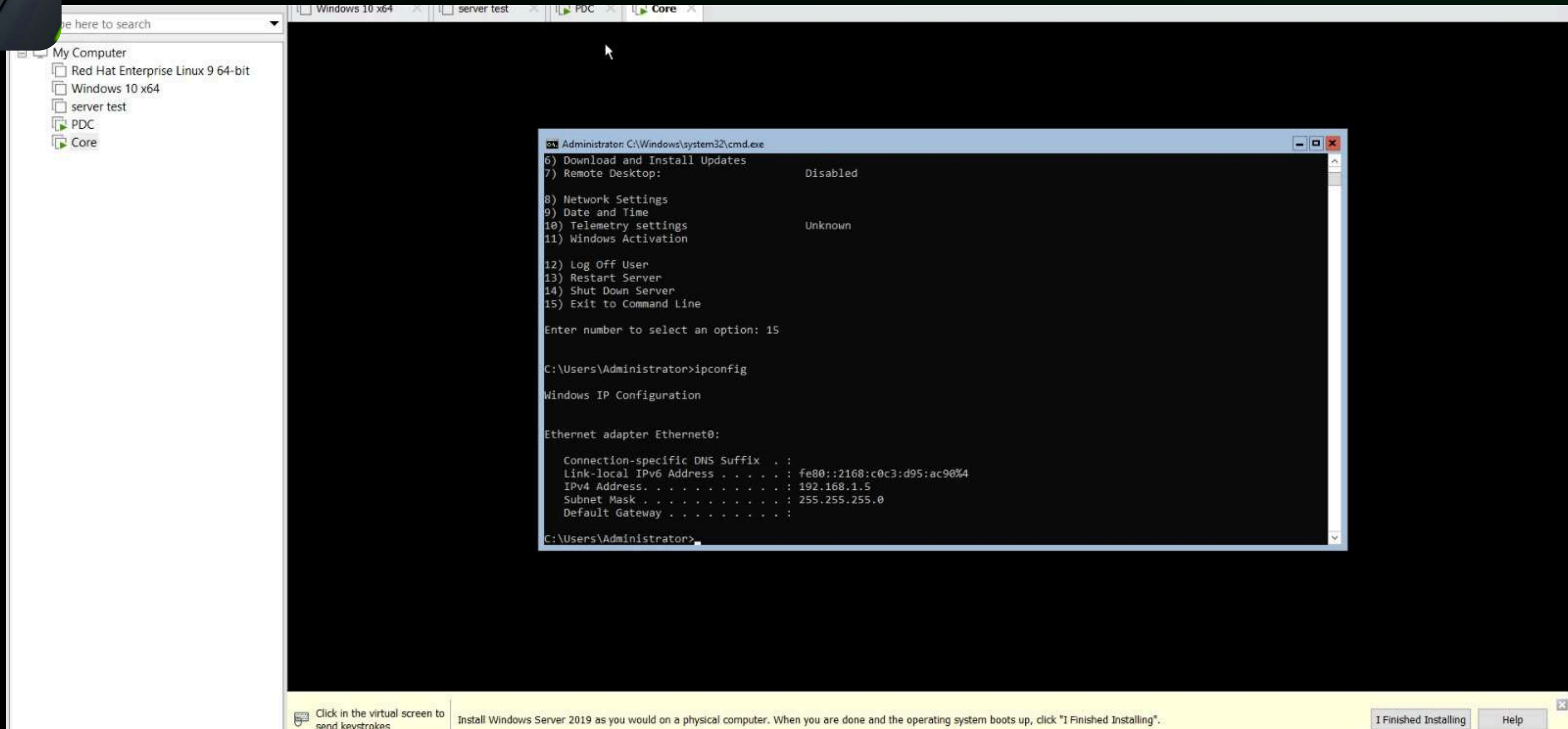
1



First servers Setting



Windows Server Core Configuration



PDC Configuration

The screenshot displays the Windows Server Manager interface for a local server named 'PDC' in the 'abc.local' domain. The left-hand navigation pane shows the 'Local Server' tab selected, with other options like 'Dashboard', 'All Servers', 'AD DS', 'DNS', and 'File and Storage Services' visible. The main area is titled 'PROPERTIES For PDC' and contains a grid of system and security settings. Below this, an 'EVENTS' section shows a list of recent events, including a warning from 'Microsoft-Windows-DNS Client Events' and an error from 'Microsoft-Windows-Security-SPP'.

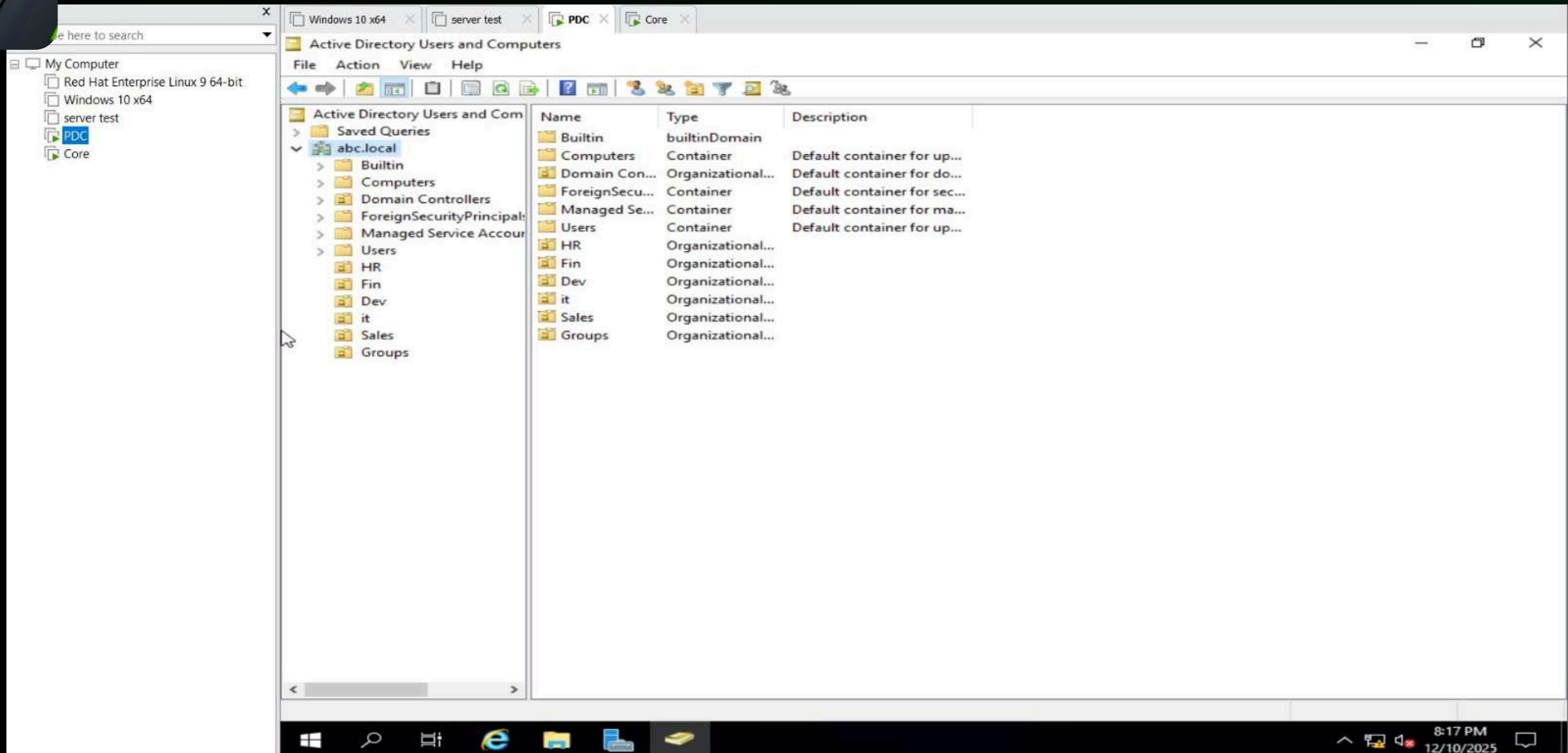
Computer name		Last installed updates	
Computer name	PDC	Last installed updates	Never
Domain	abc.local	Windows Update	Download updates only
		Last checked for updates	Never

Windows Defender Firewall		Windows Defender Antivirus	
Windows Defender Firewall	Public: On	Windows Defender Antivirus	Real-Time Protection: On
Remote management	Enabled	Feedback & Diagnostics	Settings
Remote Desktop	Disabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC+02:00) Cairo
Ethernet0	192.168.1.2	Product ID	Not activated

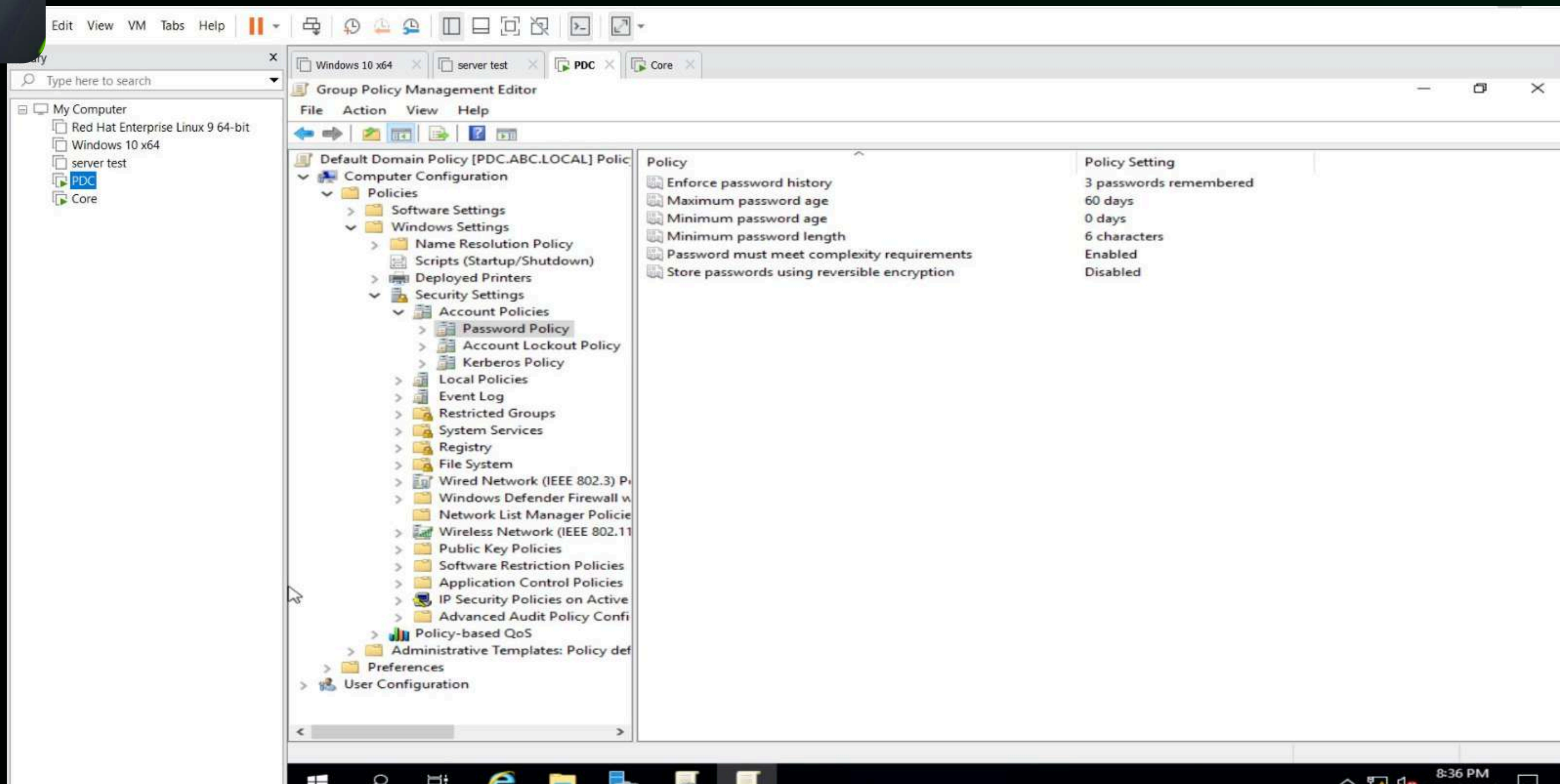
Operating system version		Processors	
Operating system version	Microsoft Windows Server 2019 Standard	Processors	Intel(R) Core(TM) i7-6800K
Hardware information	VMware, Inc. VMware20,1	Installed memory (RAM)	4.92 GB
		Total disk space	59.4 GB

EVENTS					
All events 67 total					
Server Name	ID	Severity	Source	Log	Date and Time
PDC	1014	Warning	Microsoft-Windows-DNS Client Events	System	12/10/2025 6:25:10 PM
PDC	8198	Error	Microsoft-Windows-Security-SPP	Application	12/10/2025 6:24:48 PM

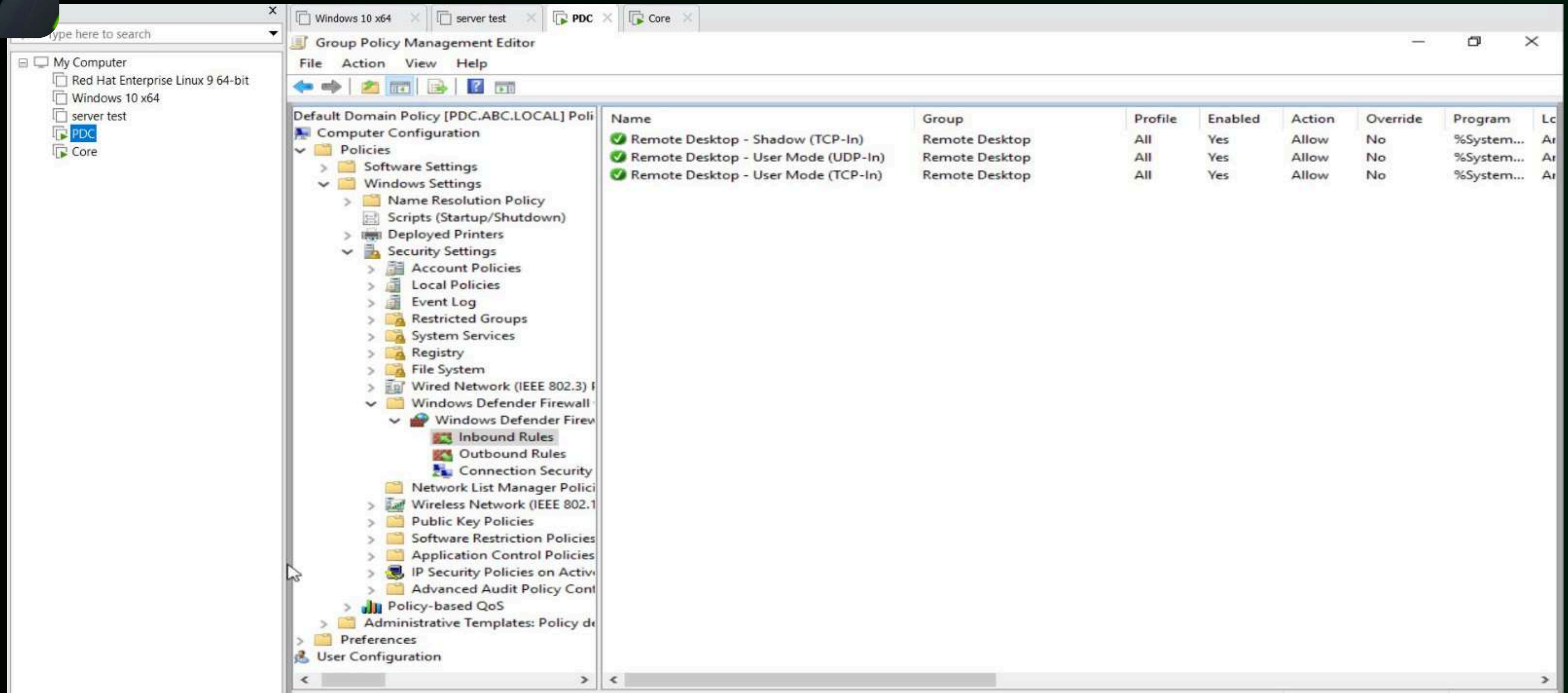
Create OUs and Groups



Password Group Policies



Allow Remote Desktop Connection



The Core Machine is Joined to domain



Microsoft (R) Windows Script Host Version 5.812
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Inspecting system...

Server Configuration

```
=====
1) Domain/Workgroup:           Domain:  abc.local
2) Computer Name:              CORE
3) Add Local Administrator
4) Configure Remote Management Enabled
5) Windows Update Settings:    DownloadOnly
6) Download and Install Updates
7) Remote Desktop:             Disabled
8) Network Settings
9) Date and Time
10) Telemetry settings         Unknown
11) Windows Activation
12) Log Off User
13) Restart Server
14) Shut Down Server
15) Exit to Command Line
=====
```



DHCP Scope && Configuration



The screenshot shows the Windows DHCP console with two DHCP scopes configured for the 192.168.1.0/24 network. The left pane shows the hierarchy: DHCP > 192.168.1.5 > IPv4 > Scope [192.168.1.0] Scope 192. The right pane displays the configuration for the selected scope.

Start IP Address	End IP Address	Description
192.168.1.40	192.168.1.230	Address range for distribution
192.168.1.80	192.168.1.85	IP Addresses excluded from distribution

The Actions pane on the right shows 'Address Pool' and 'More Actions'. The taskbar at the bottom shows the time as 10:44 PM on 12/10/2025.



Create Group Policy Objects And link it to OUs



Group Policy Management

File Action View Window Help

Group Policy Objects in abc.local

Contents Delegation

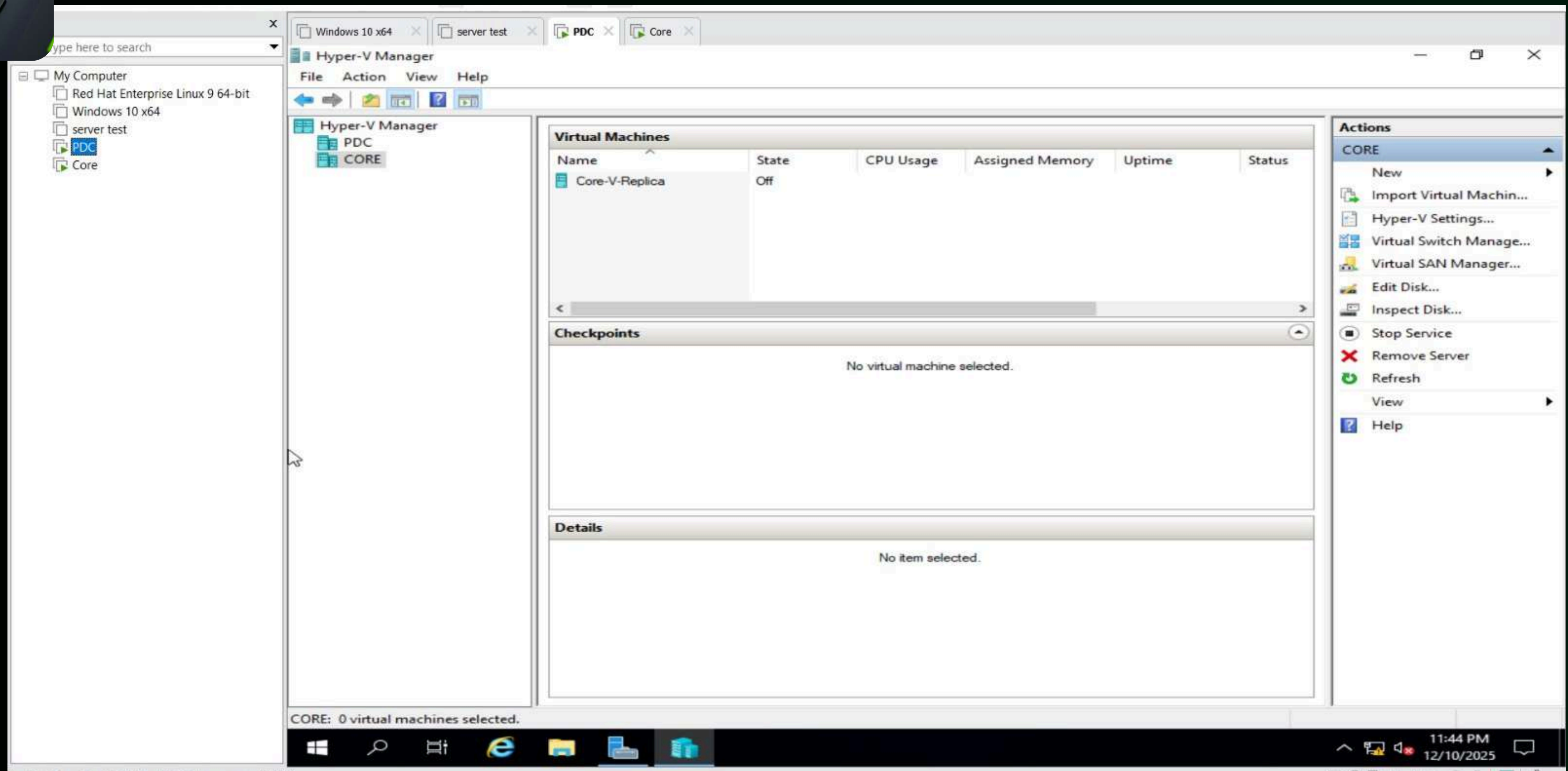
Name	GPO Status	WMI Filter	Modified	Owner
Default Domain Controllers Policy	Enabled	None	12/10/2025 6:15:22 ...	Domain Admins
Default Domain Policy	Enabled	None	12/10/2025 8:44:36 ...	Domain Admins
Disable External Storage	Enabled	None	12/10/2025 11:03:19...	Domain Admins
Prohibit Access To Control Panel	Enabled	None	12/10/2025 11:08:10...	Domain Admins
Remove properties	Enabled	None	12/10/2025 11:06:18...	Domain Admins
Remove Task Manager	Enabled	None	12/10/2025 11:05:20...	Domain Admins

Activate Windows
Go to Settings to activate Windows.

To direct input to this VM, click inside or press Ctrl+G.



Hyper-V Replica



Install Windows server Client With WDS



Windows Deployment Services console showing the 'ImageGroup1' containing two install images:

Image Name	Architecture	Status	Expanded Size	Date	OS Version	Priority
Windows 10 Pro	x64	Online	13889 MB	12/1...	10.0.19041	500000 ...
Windows 10 Enterprise	x64	Online	13889 MB	12/1...	10.0.19041	500000 ...

The console also shows the tree structure of the WDS console on the left, including 'My Computer', 'Red Hat Enterprise Linux 9 64-bit', 'Windows 10 x64 test', 'server test', 'PDC', 'Core', and 'Windows 10'.

To direct input to this VM, click inside or press Ctrl+G.



Install Windows server Client With WDS



Management

ction View Help

Volume	Layout	Type	File System	Status	Capacity	Free Sp...	% Free
(C:)	Simple	Basic	NTFS	Healthy (B...	99.40 GB	87.94 GB	88 %
(Disk 0 partition 1)	Simple	Basic		Healthy (R...	499 MB	499 MB	100 %
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	99 MB	99 MB	100 %
New Volume (E:)	Simple	Basic	NTFS	Healthy (P...	19.53 GB	19.48 GB	100 %
New Volume (F:)	Simple	Basic	NTFS	Healthy (P...	40.45 GB	40.37 GB	100 %
New Volume (G:)	Simple	Basic	NTFS	Healthy (P...	30.27 GB	30.20 GB	100 %
New Volume (H:)	Simple	Basic	NTFS	Healthy (P...	29.71 GB	29.64 GB	100 %
SSS_X64FREV_EN-...	Simple	Basic	UDF	Healthy (P...	5.06 GB	0 MB	0 %

Disk 0
Basic
99.98 GB
Online

Layout	Type	File System	Status
499 MB Healthy (Recovery Partition)	Basic		Healthy (Recovery Partition)
99 MB Healthy (EFI System Partition)	Basic		Healthy (EFI System Partition)
99.40 GB NTFS Healthy (Boot, Page File, Crash Dump, Primary Partition)	Basic	NTFS	Healthy (Boot, Page File, Crash Dump, Primary Partition)

Disk 1
Basic
59.98 GB
Online

Layout	Type	File System	Status
New Volume (E:) 19.53 GB NTFS Healthy (Primary Partition)	Basic	NTFS	Healthy (Primary Partition)
New Volume (F:) 40.45 GB NTFS Healthy (Primary Partition)	Basic	NTFS	Healthy (Primary Partition)

Disk 2
Basic
59.98 GB
Online

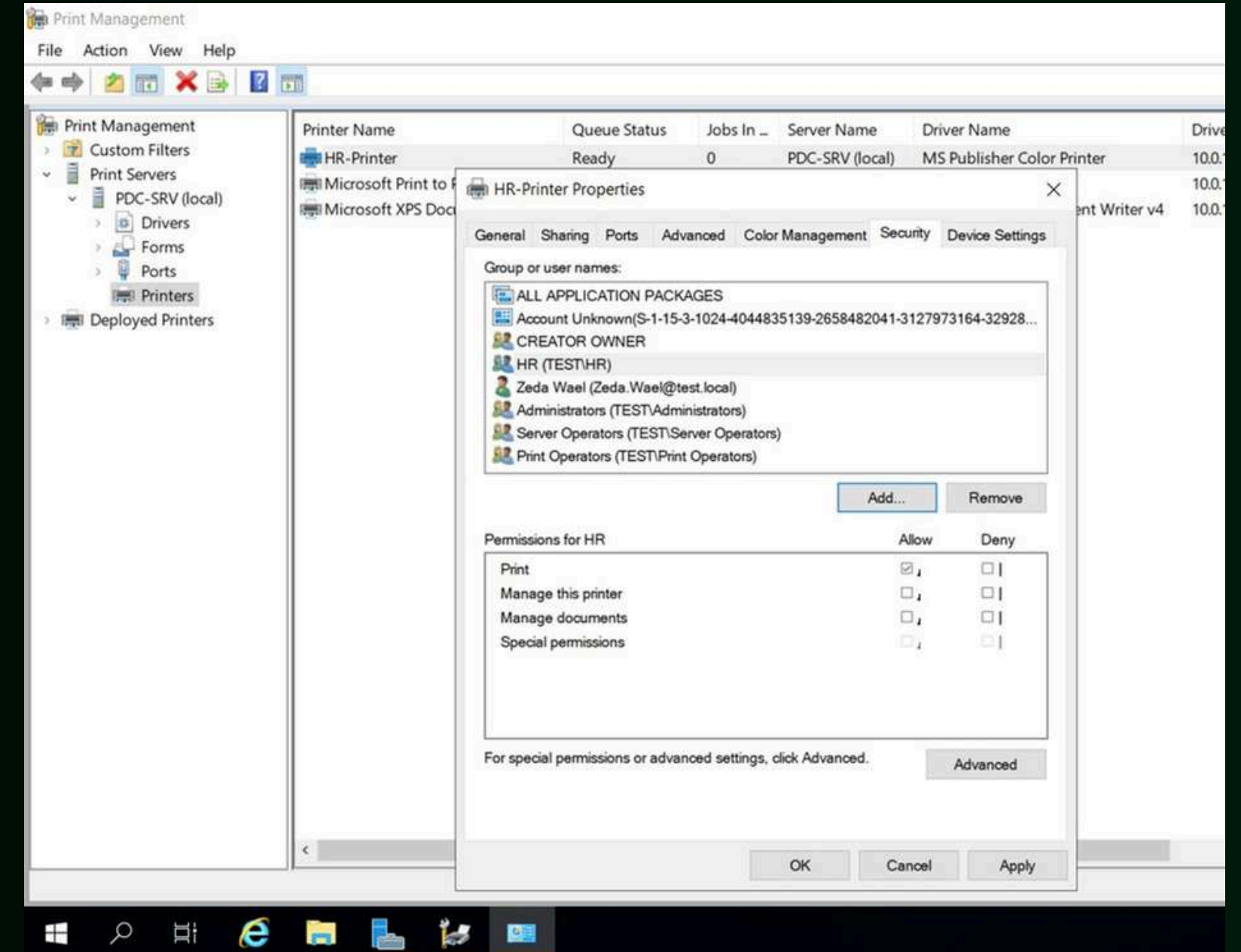
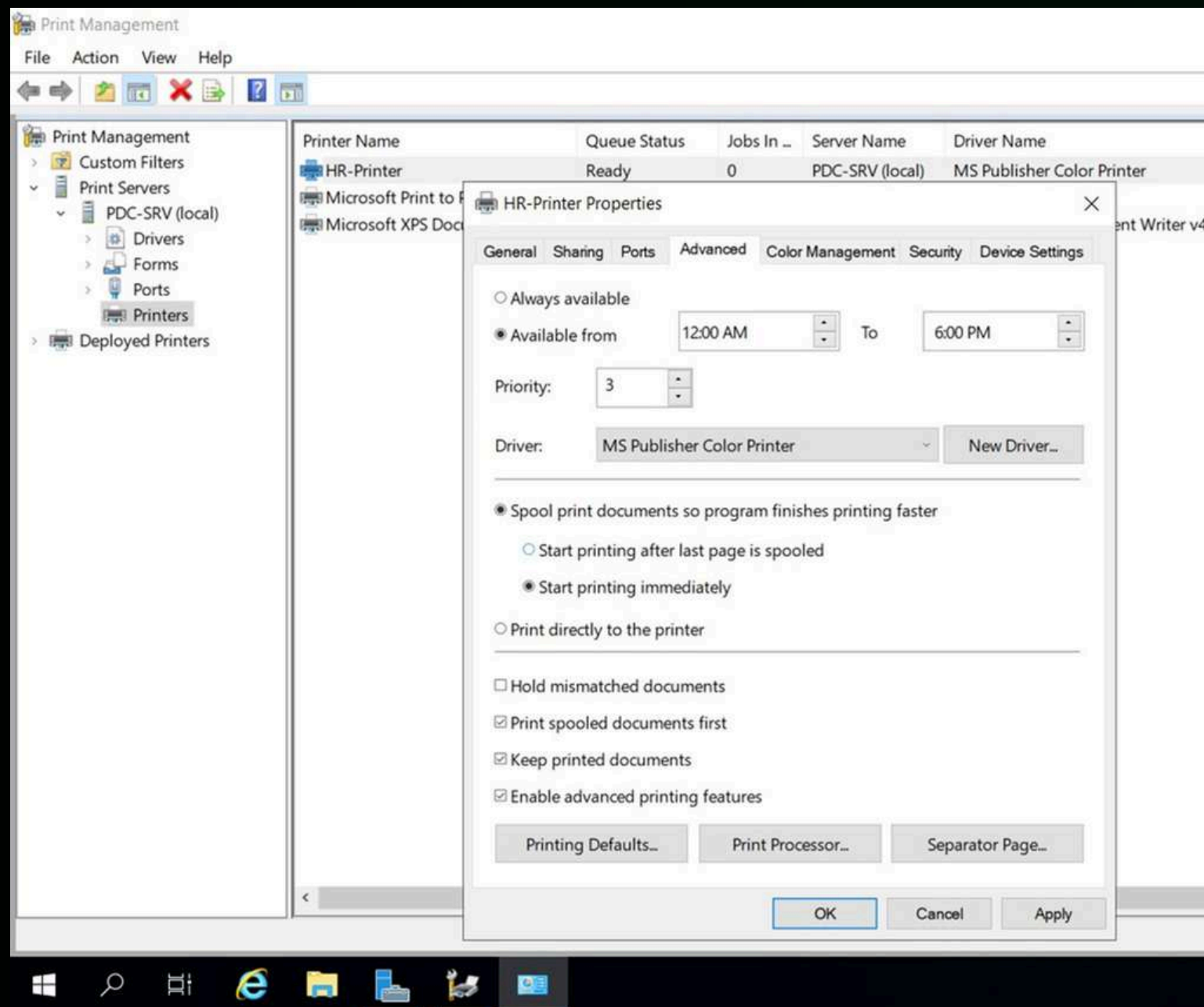
Layout	Type	File System	Status
New Volume (G:) 30.27 GB NTFS Healthy (Primary Partition)	Basic	NTFS	Healthy (Primary Partition)
New Volume (H:) 29.71 GB NTFS Healthy (Primary Partition)	Basic	NTFS	Healthy (Primary Partition)

■ Unallocated ■ Primary partition

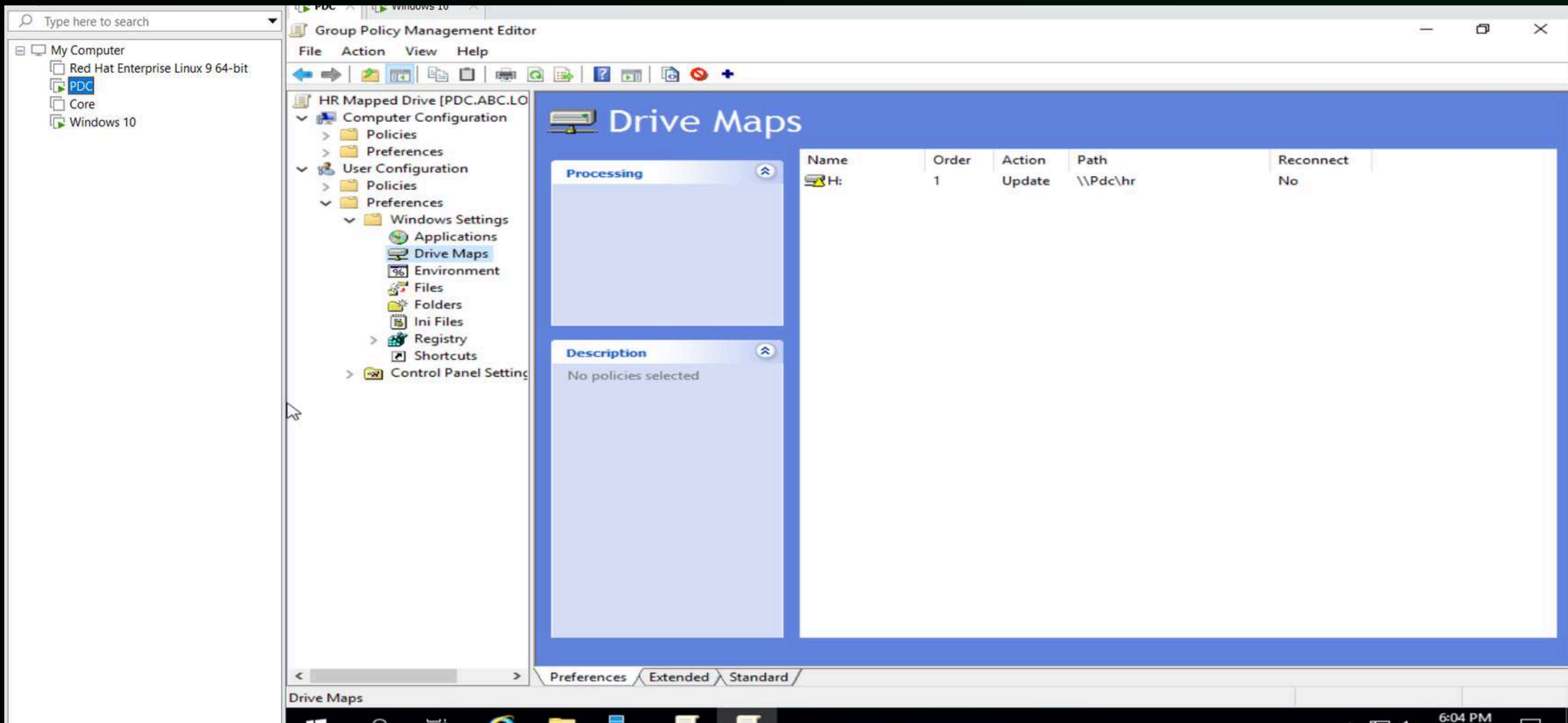
10:38 AM
12/2/2025



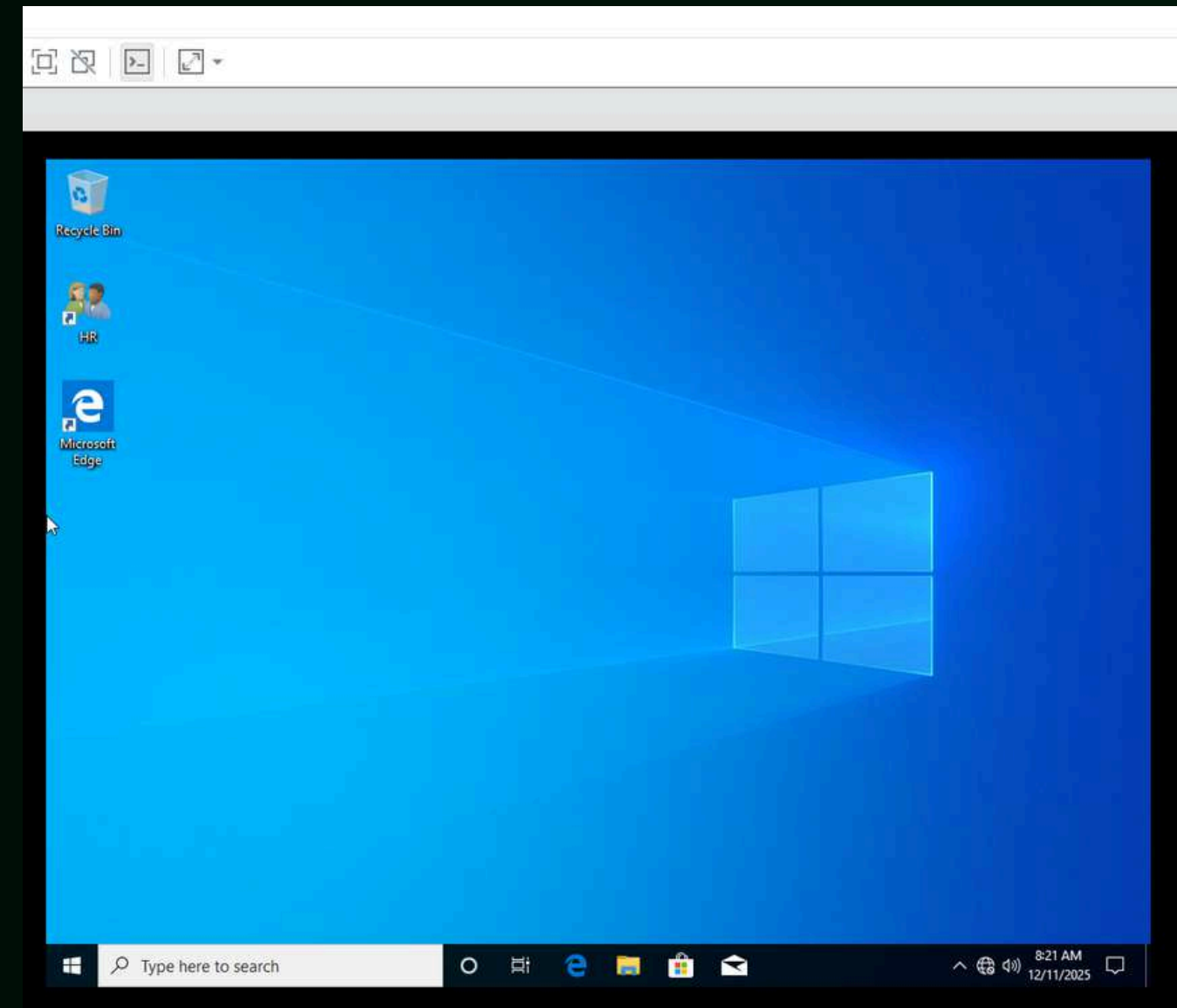
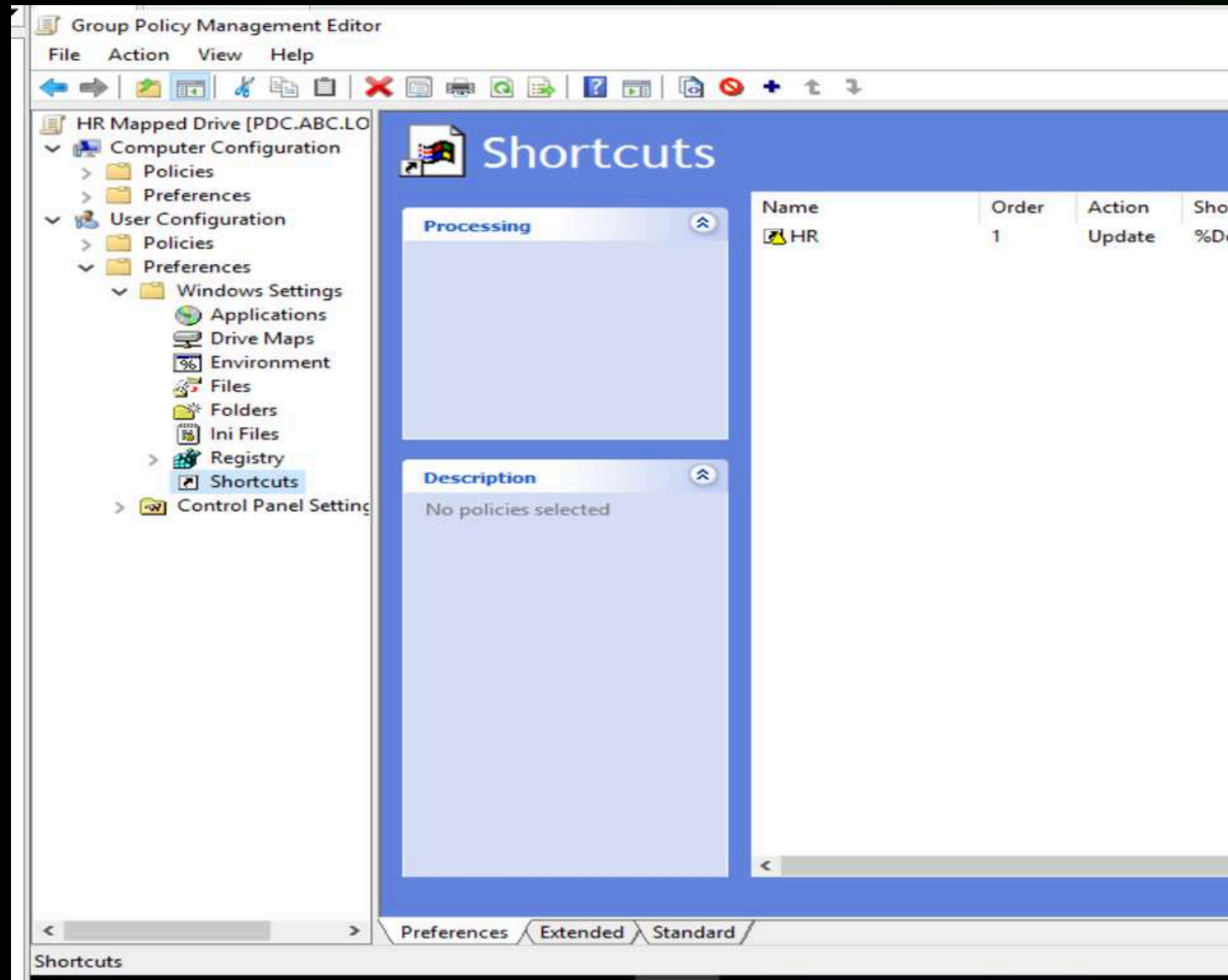
HR Printer & Setting



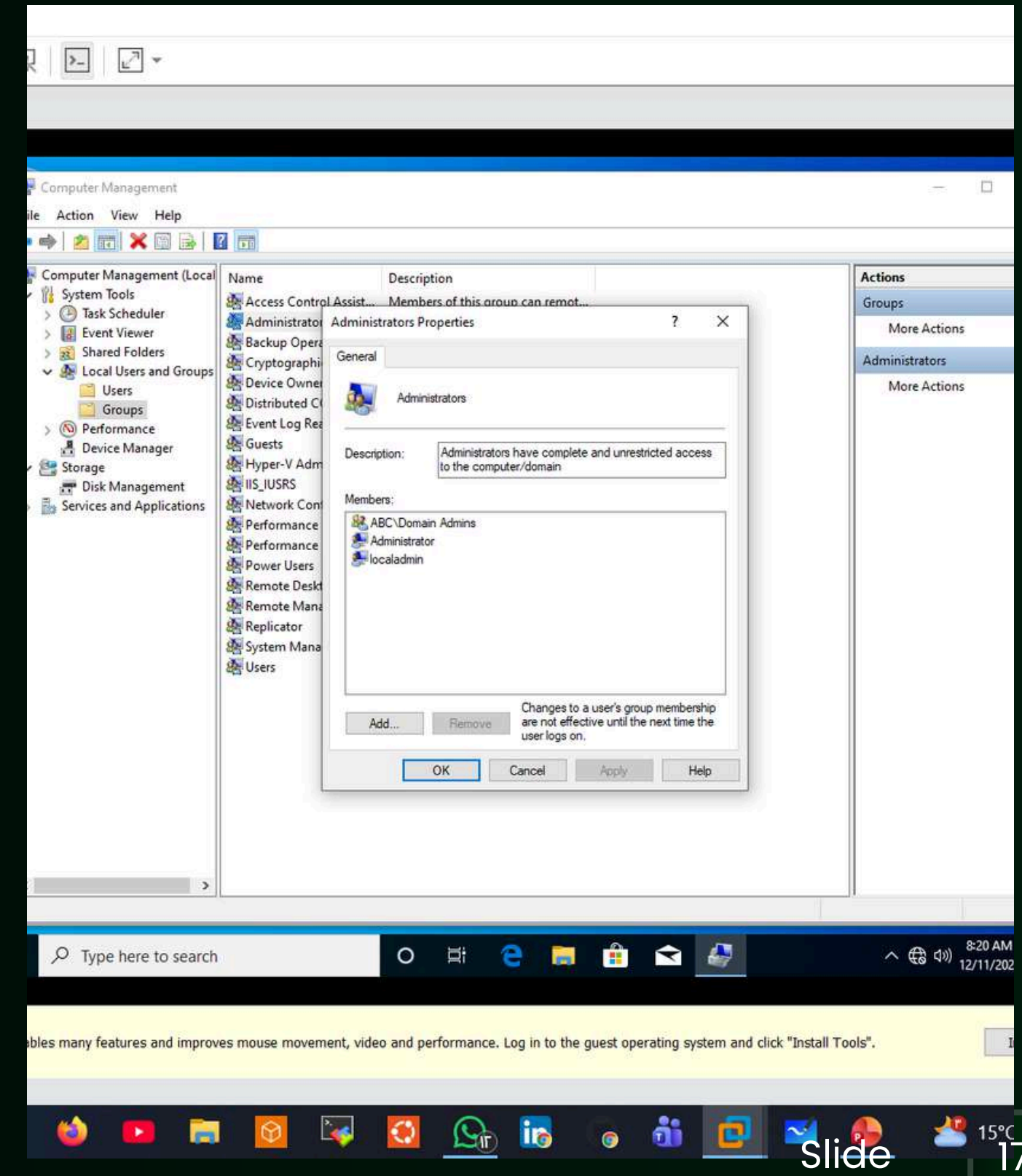
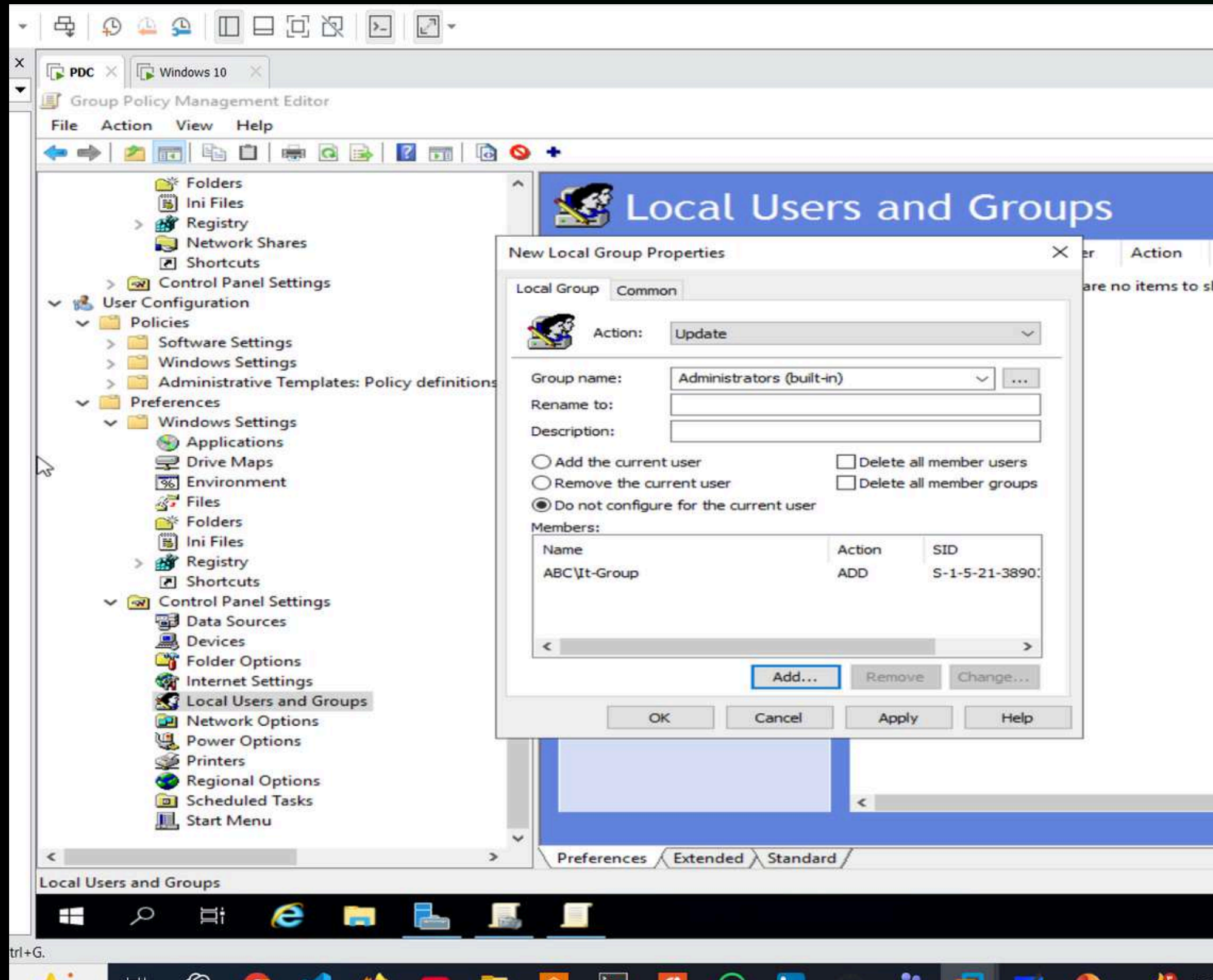
HR Mapped Drive



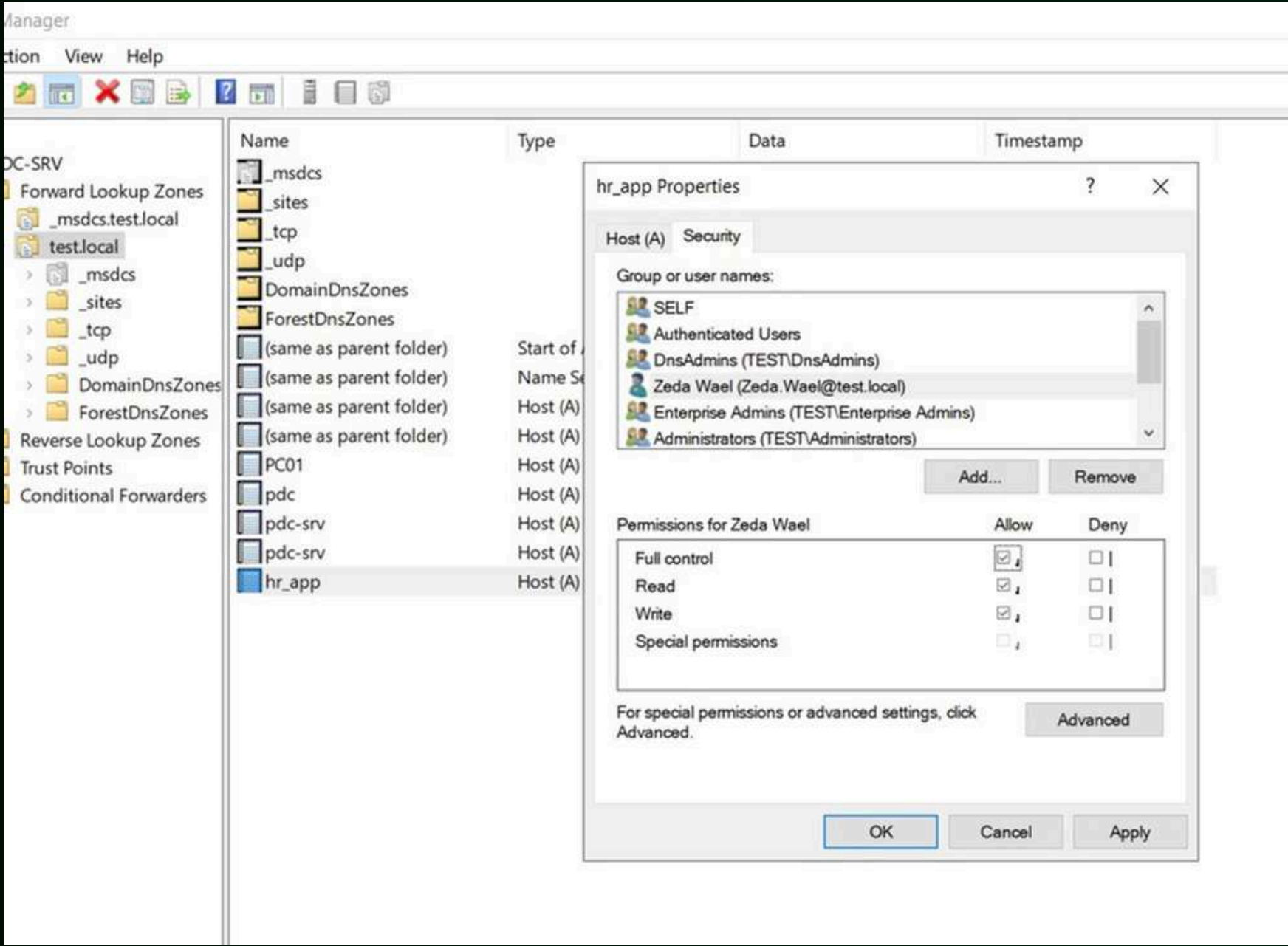
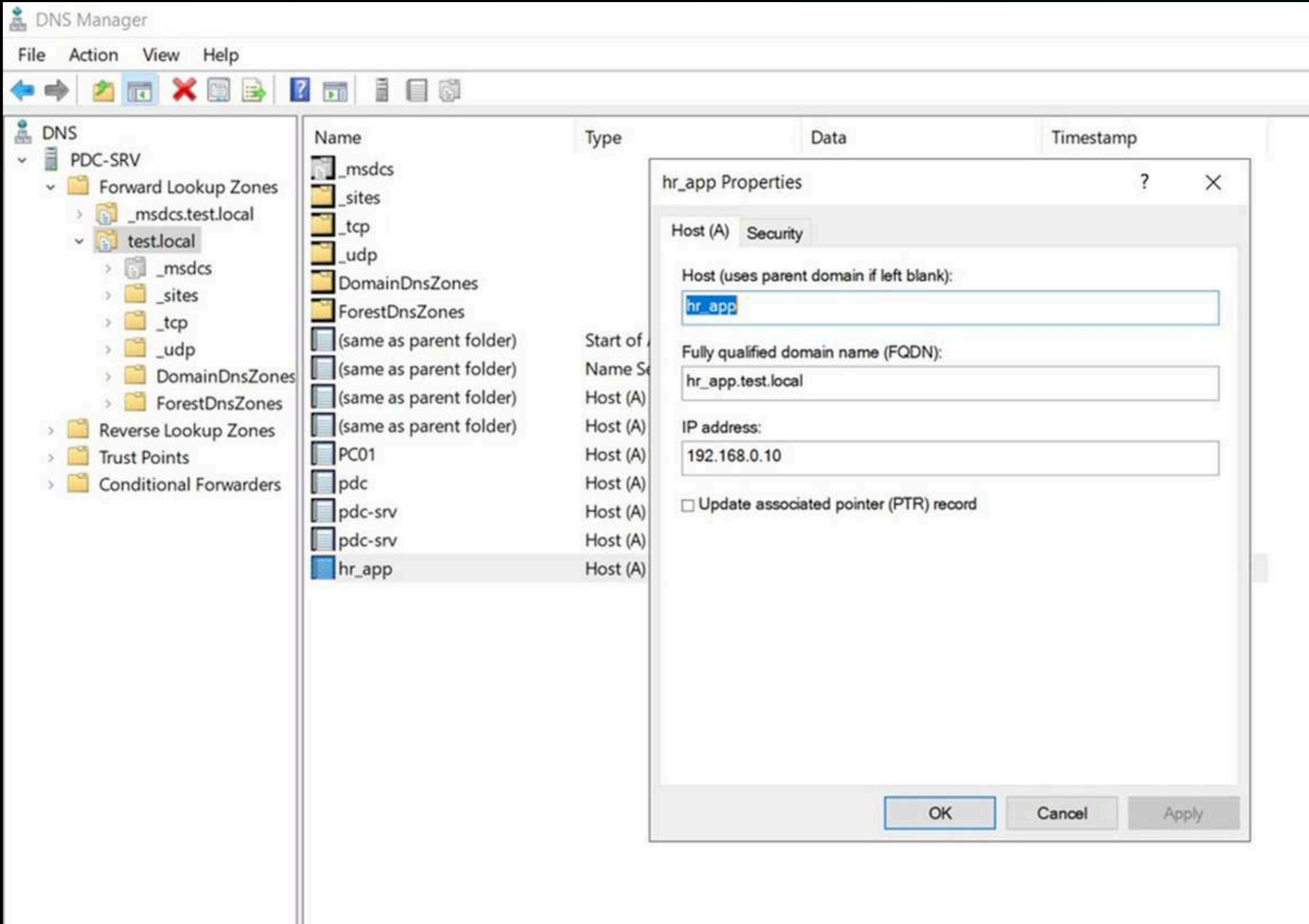
HR URL



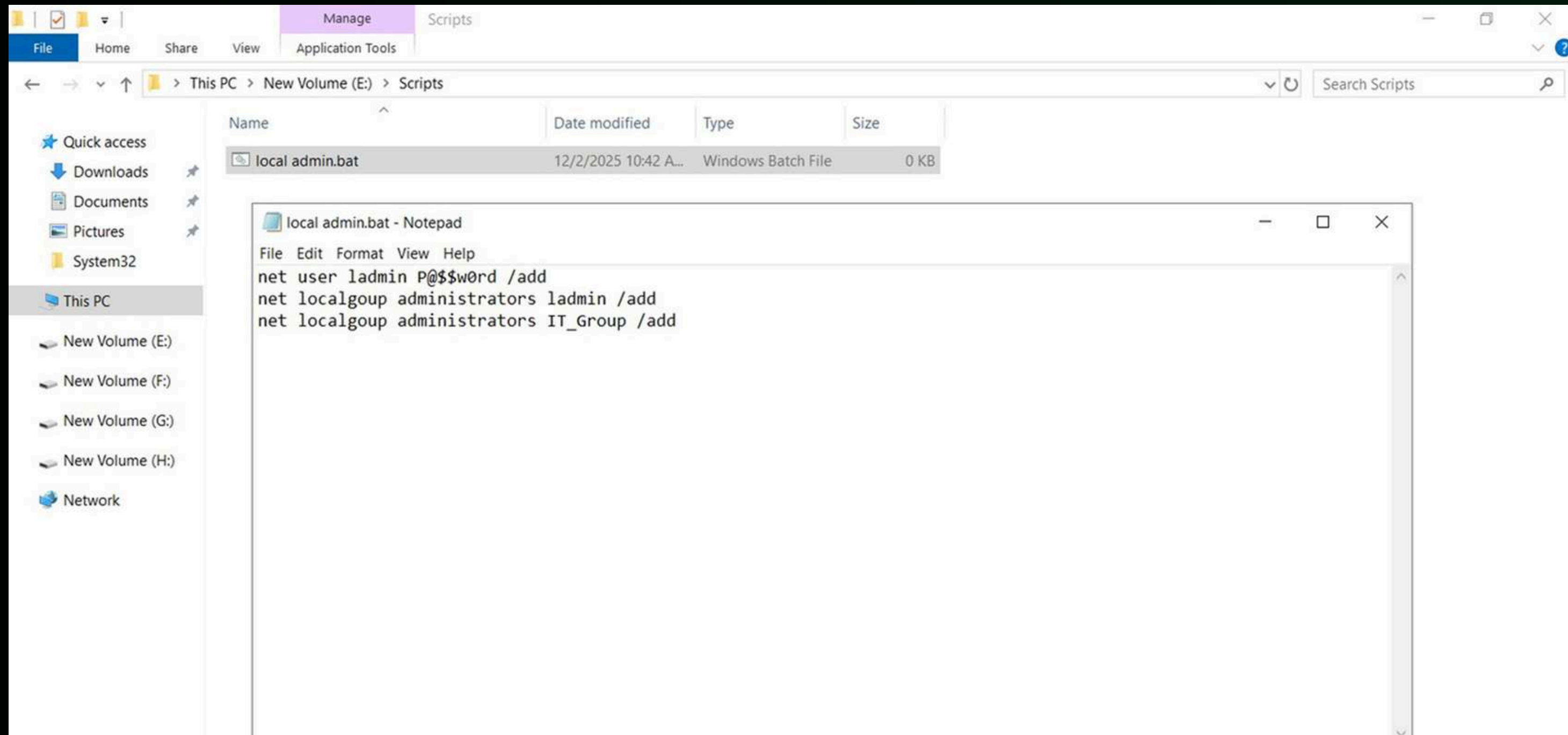
Add it group to administrator group using group policy



DNS Records



Local Admin Script



Additional Domain Controller



SERVICES
All services | 124 total

Active Directory Sites and Services
File Action View Help

Active Directory Sites and Services

- Sites
 - Inter-Site Transports
 - Subnets
 - Default-First-Site-Name
 - Servers
 - ADC
 - PDC

Name	Type	Description
NTDS Settings	Domain Contr...	

Time

3:12:39 PM
3:12:35 PM
3:12:28 PM
3:12:20 PM
2:16:19 PM

Source	ID	Level	Category	Message	Source	Time
CORE	1014	Warning	Microsoft-Windows-DNS Client Events		System	9/2/2023 2:09:04 PM
CORE	129	Warning	Microsoft-Windows-Time-Service		System	9/2/2023 2:07:52 PM

SERVICES
All services | 124 total



Backup schedual at 11 pm



Windows Server Backup (Local)
Local Backup

Messages (Activity from last week, double click on the message to see details)

Time	Message	Description
------	---------	-------------

Status

Last Backup

Status: -
Time: -
[View details](#)

Next Backup

Status: Scheduled
Time: 9/2/2023 11:00 PM
[View details](#)

All Backups

Total backups: 0 copies
Latest copy: -
Oldest copy: -
[View details](#)

Scheduled Backup

A regular scheduled backup is configured for this server

Settings

Backup items: Bare metal recovery, System state, EFI System Partition, Recovery, L...
File excluded: None

Destination usage

Name: \\ADC\Backup
Capacity: Details are not available for the remote shared folder.

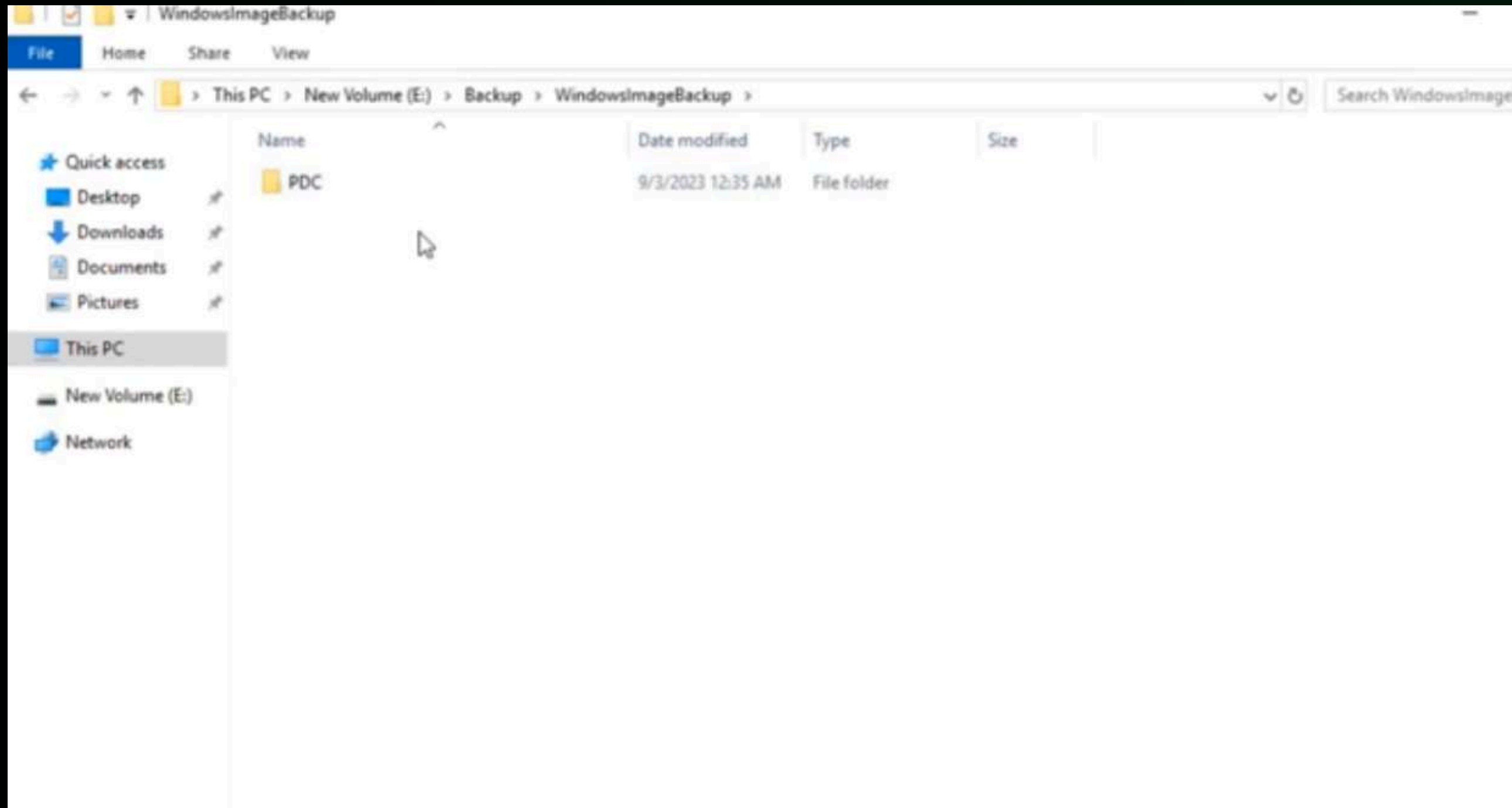
Actions

Local Backup

[Backup Schedule...](#)
[Backup Once...](#)
[Recover...](#)
[Configure Performance Settings...](#)
View
[Help](#)

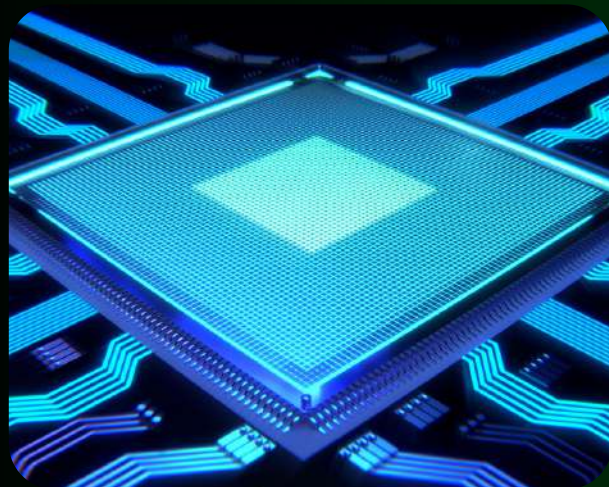


Backup folder in ADC





Then Client Setting

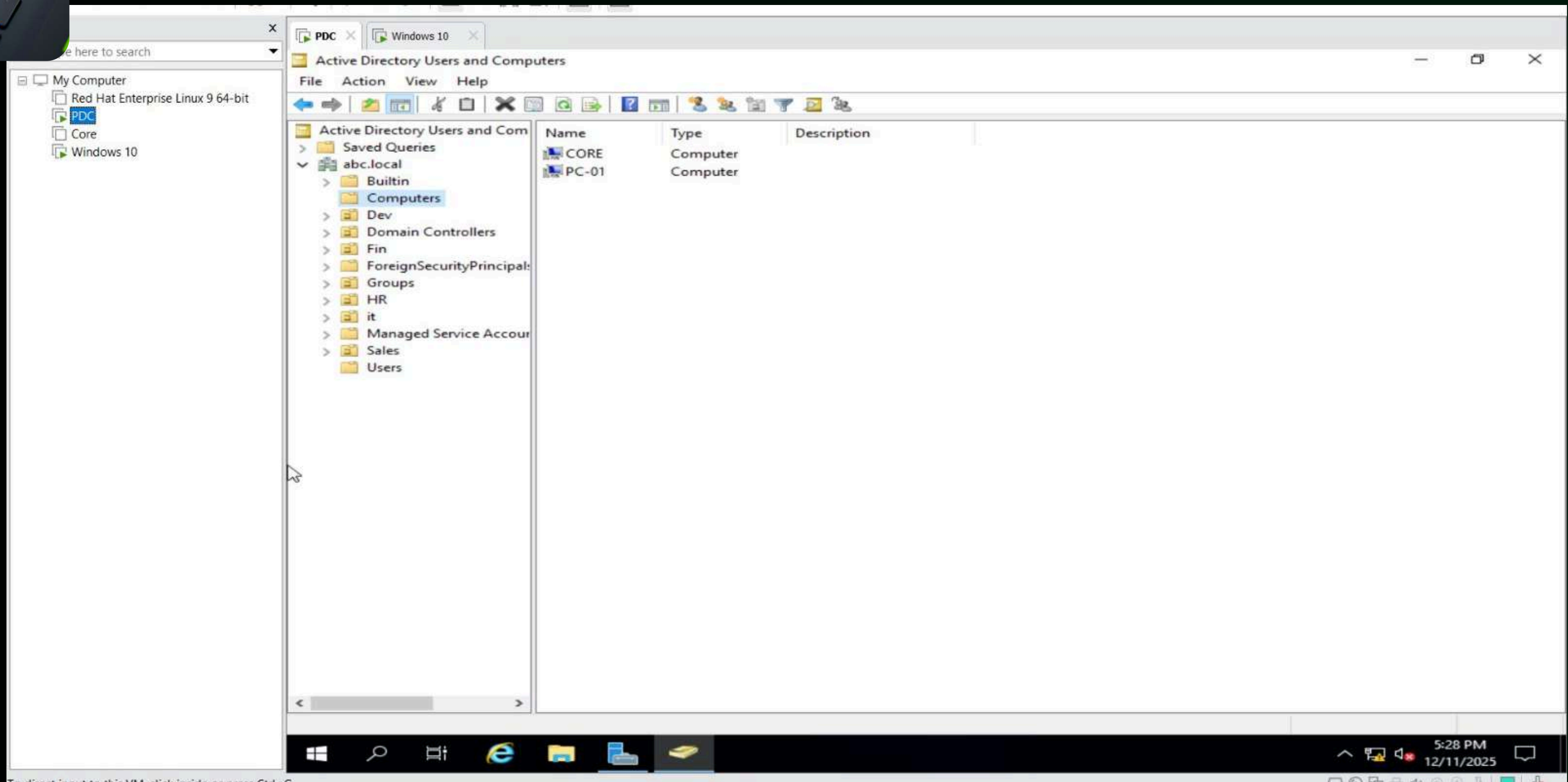




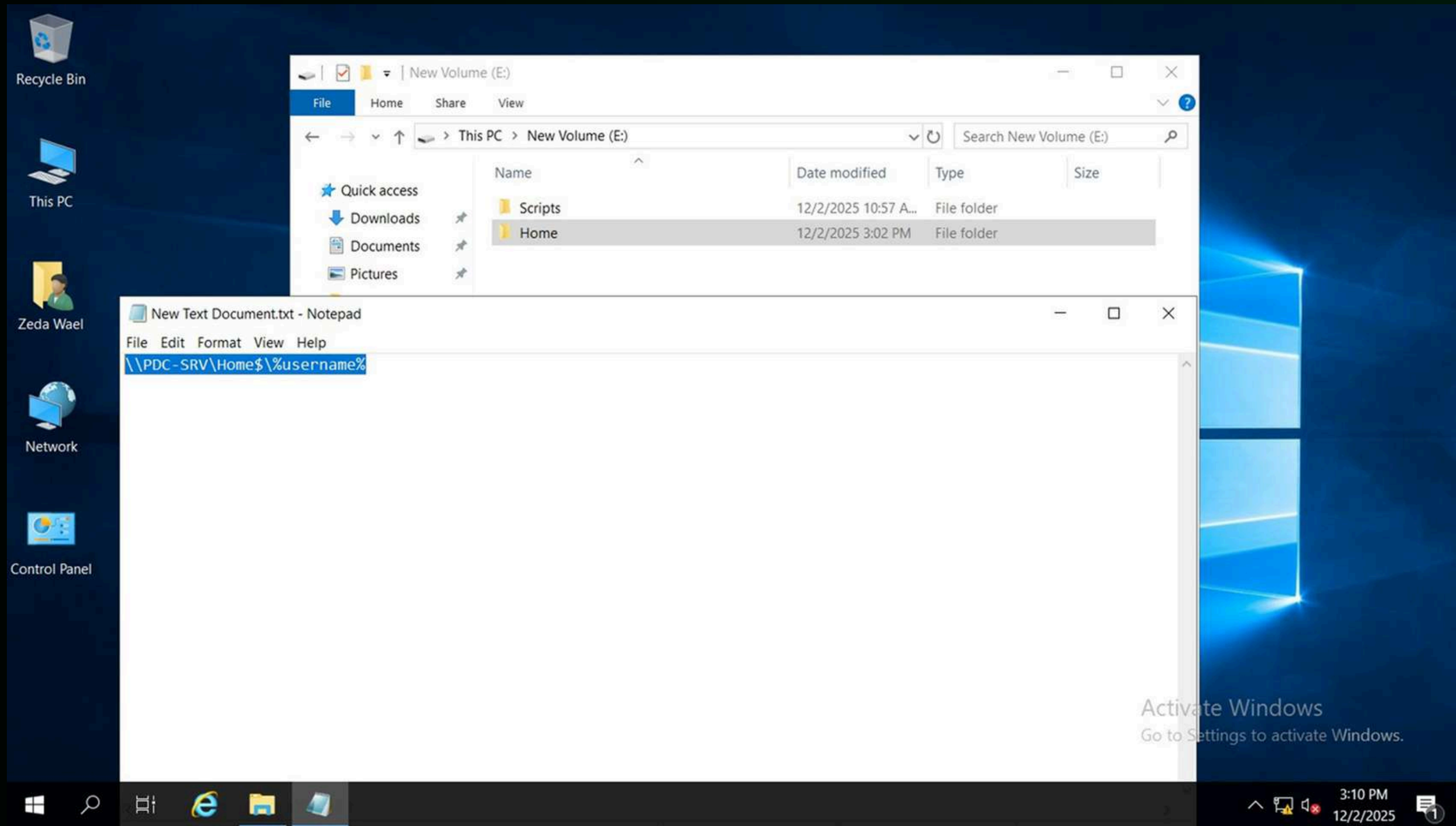
Using WDS To install OS without
need external Storage And take ip
from DHCP Scope



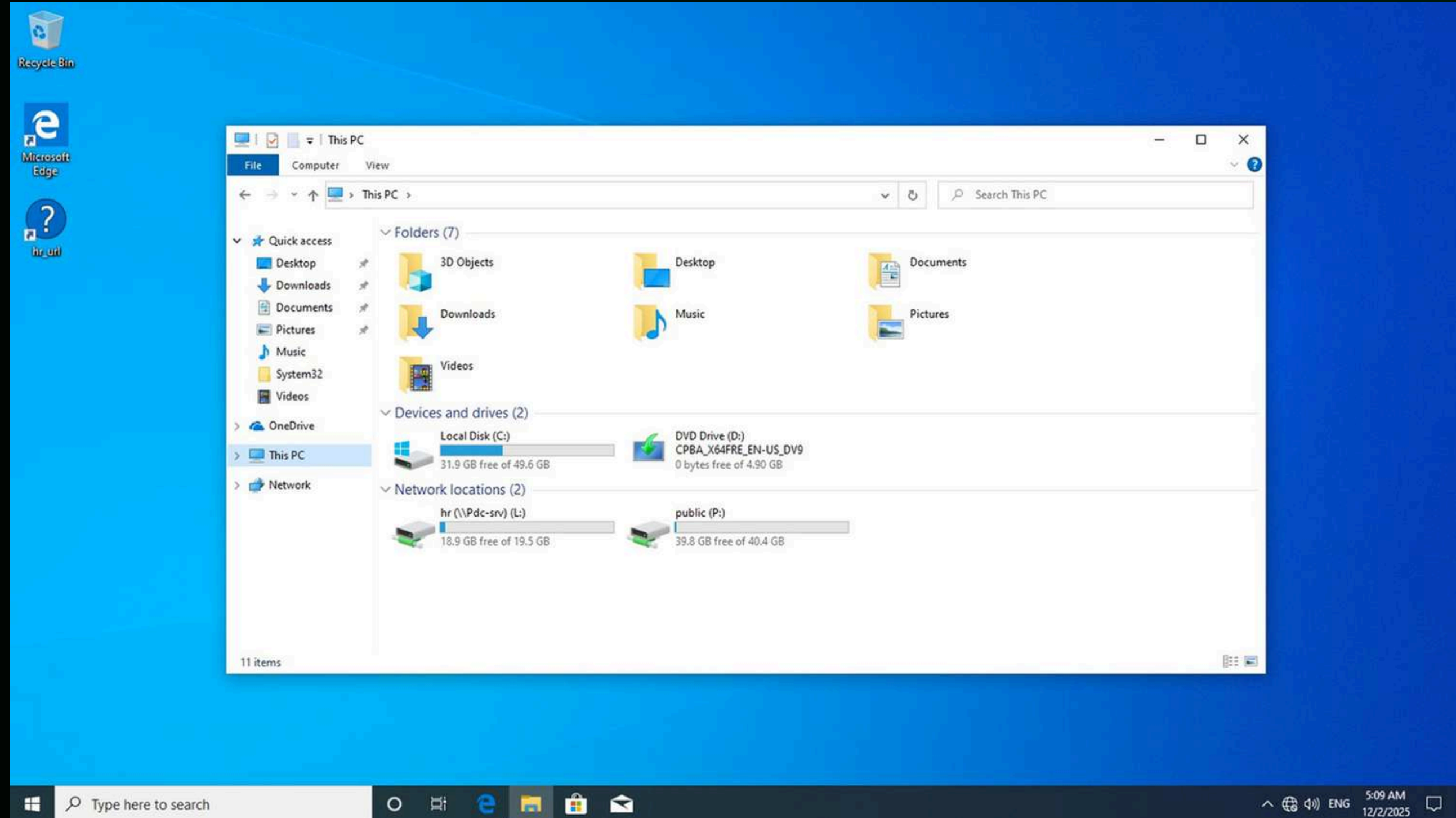
Join the machine to domain



Add Home Folder



HR PC





Get in Touch

Phone Number

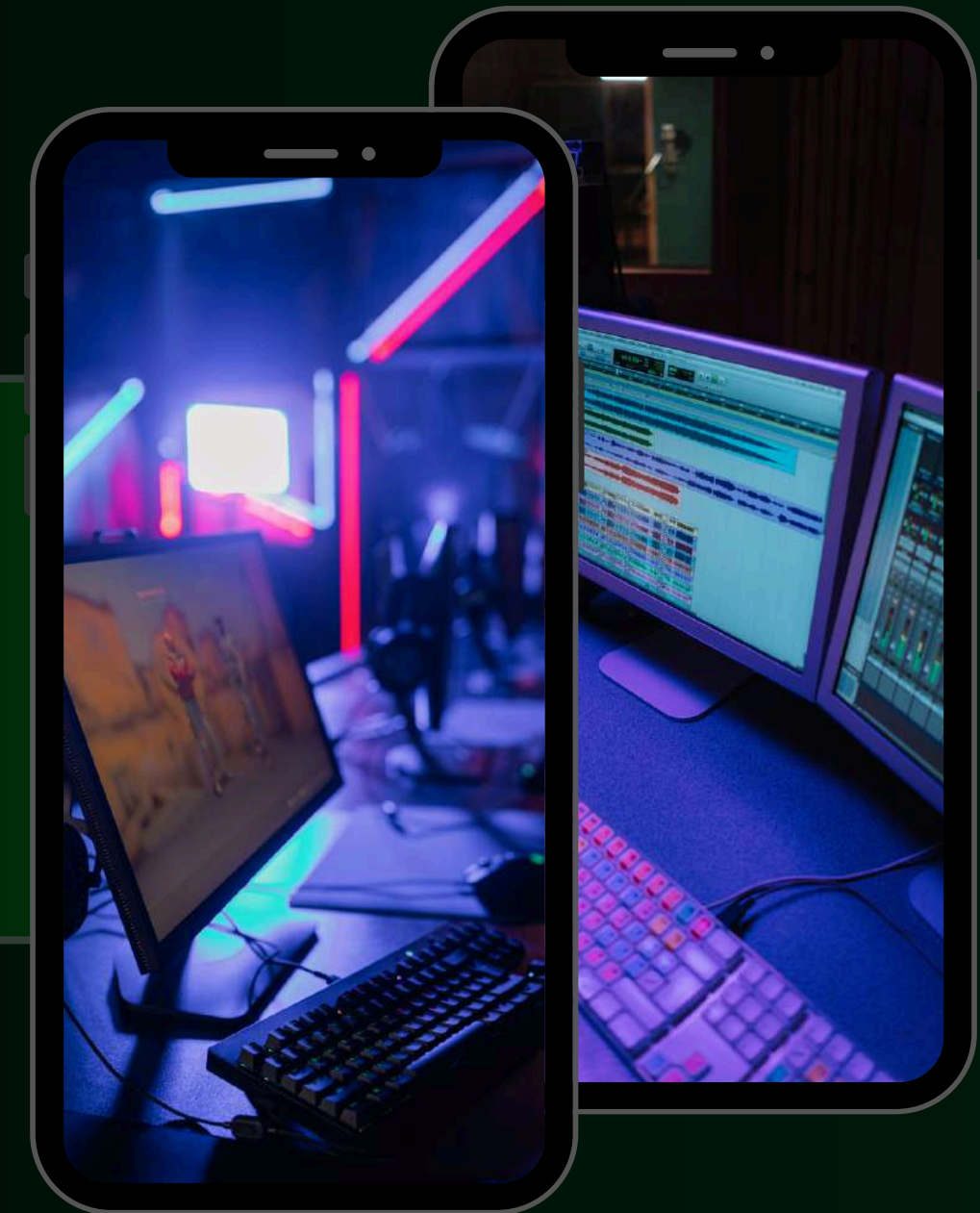
01017826329

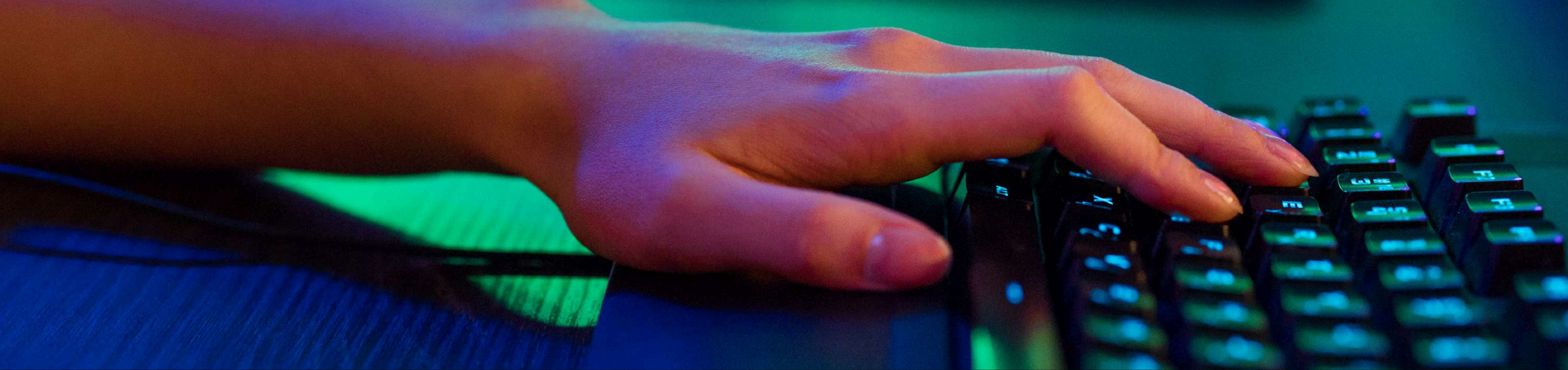
Email

zyadwael333@gmail.com

Social Media

Zyad Wael





THANK YOU

FOR YOUR ATTENTION



Slide 14