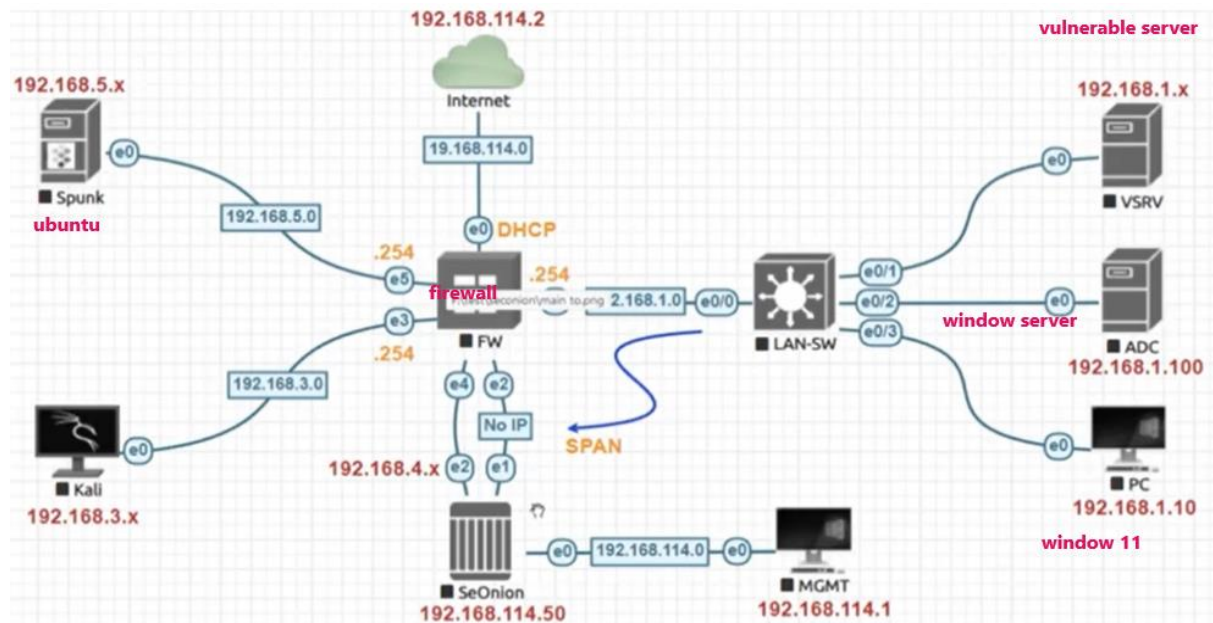# Configure Active Directory (AD)

We almost install all the machines of lab setup.

Now install active directory in window server.

Important settings:

➢ Make ip address static for window server as we decide in lab setup is 192.1681.100
255.255.255.0

Process:

- Go to network and share through control panel or settings
- Select the ethernet interface
- Go to properties
- Disable ipv6
- Select ipv4
- Set at static and ip address is 192.168.1.100 with subnet mask
255.255.255.0
- Set default gateway the interface of firewall 192.168.1.254
- Set DNS on 8.8.8.8 and 192.168.1.100
- Click okay

(If find any problem then search it)

➢ Off all firewall on window server.
➢ Go to server manager > local server   and change the following settings
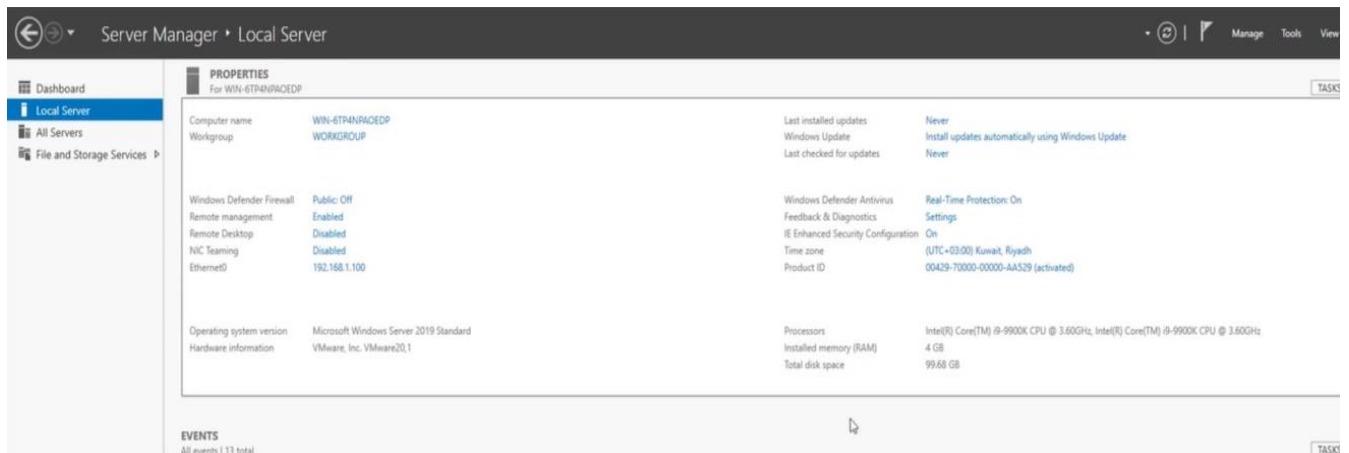
- Change name if you want (I have name SRV)
- Enable remote management and desktop enable then restart option appear but not restart now.

➢ Get Desktop ICONS:
  - Go to theme
  - Scroll down
  - Select desktop icon settings
 - Select icon and add on desktop
  - Then ok
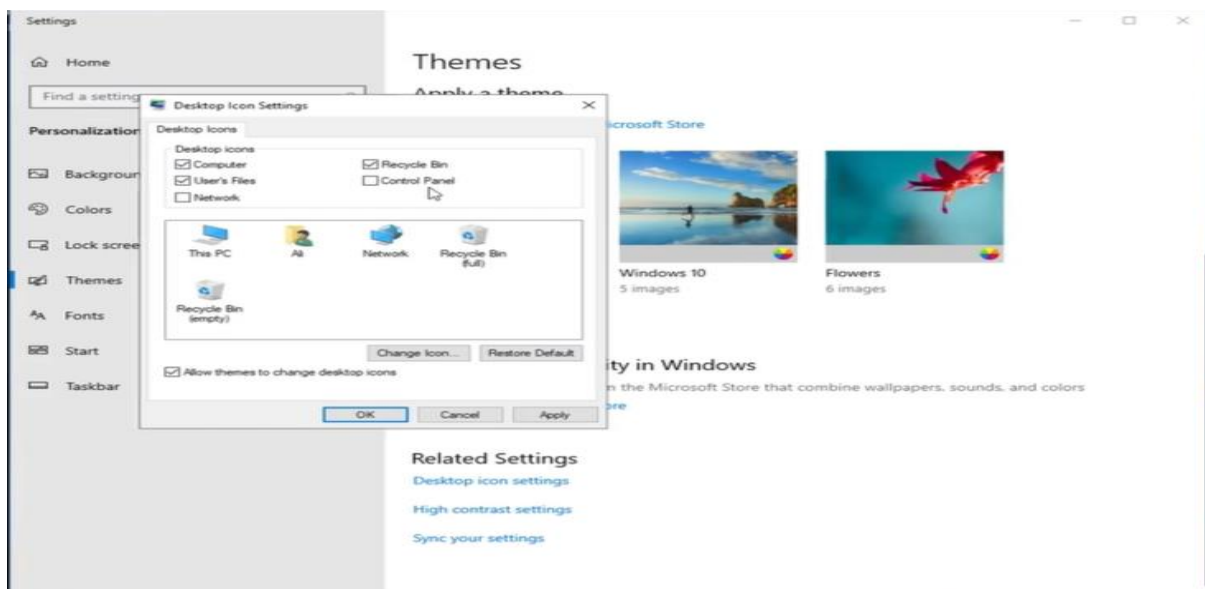
After apply the above setting when you restart your settings match to below settings:

Computer name	WIN-6TP4NPAOEDP		Last installed updates	Never
Workgroup	WORKGROUP		Windows Update	Install updates automatically using Windows Update
			Last checked for updates	Never
Windows Defender Firewall	Public: Off		Windows Defender Antivirus	Real-Time Protection: On
Remote management	Enabled		Feedback & Diagnostics	Settings
Remote Desktop	Enabled		IE Enhanced Security Configuration	Off
NIC Teaming	Disabled		Time zone	(UTC+03:00) Kuwait, Riyadh
Ethernet0	192.168.1.100		Product ID	00429-70000-00000-AA529 (activated)
Operating system version	Microsoft Windows Server 2019 Standard		Processors	Intel(R) Core(TM) i9-9900K CPU @ 3.60GHz, Intel(R) Core(TM) i9-9900K CPU @ 3.
Hardware information	VMware, Inc. VMware20,1		Installed memory (RAM)	4 GB
			Total disk space	99.68 GB

Now we will move forward.

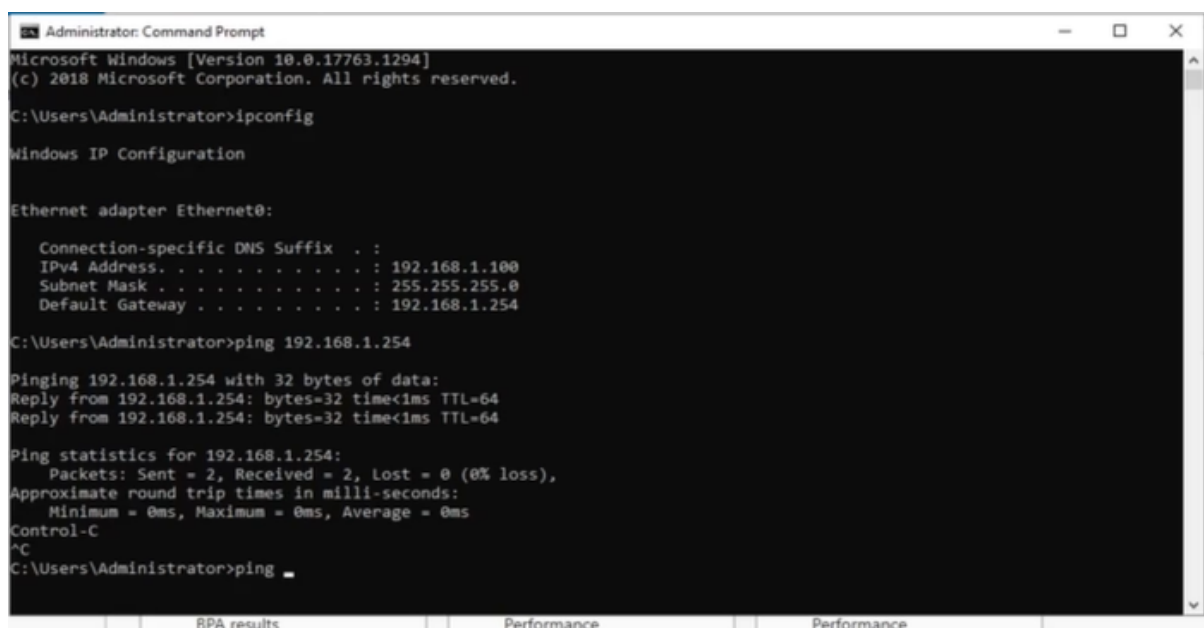- Go to tools and select computer management option
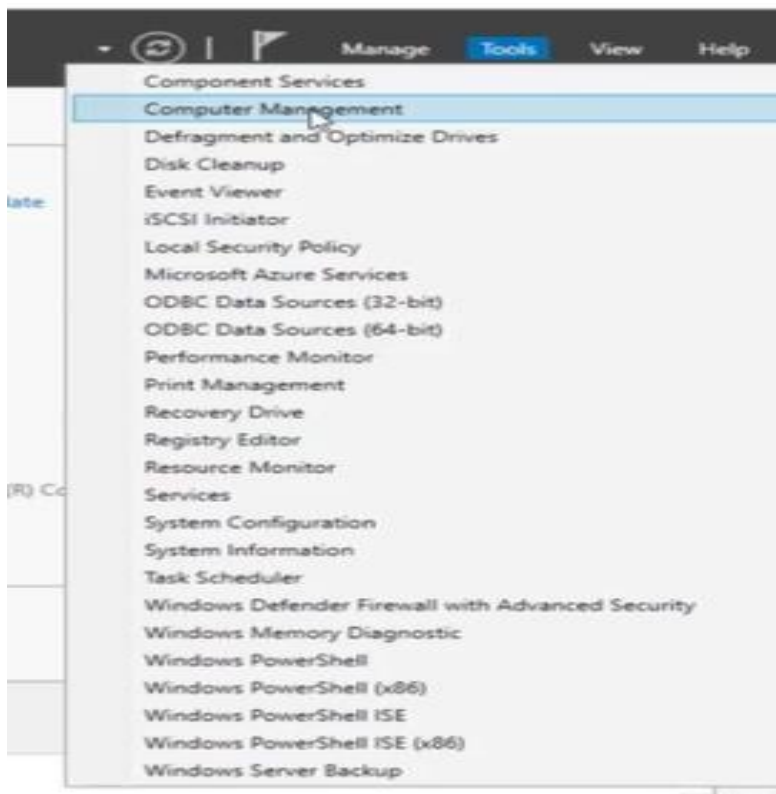
- Then select local user and group
- Then users
- Change password for Ali and Administrator and alos enable them.
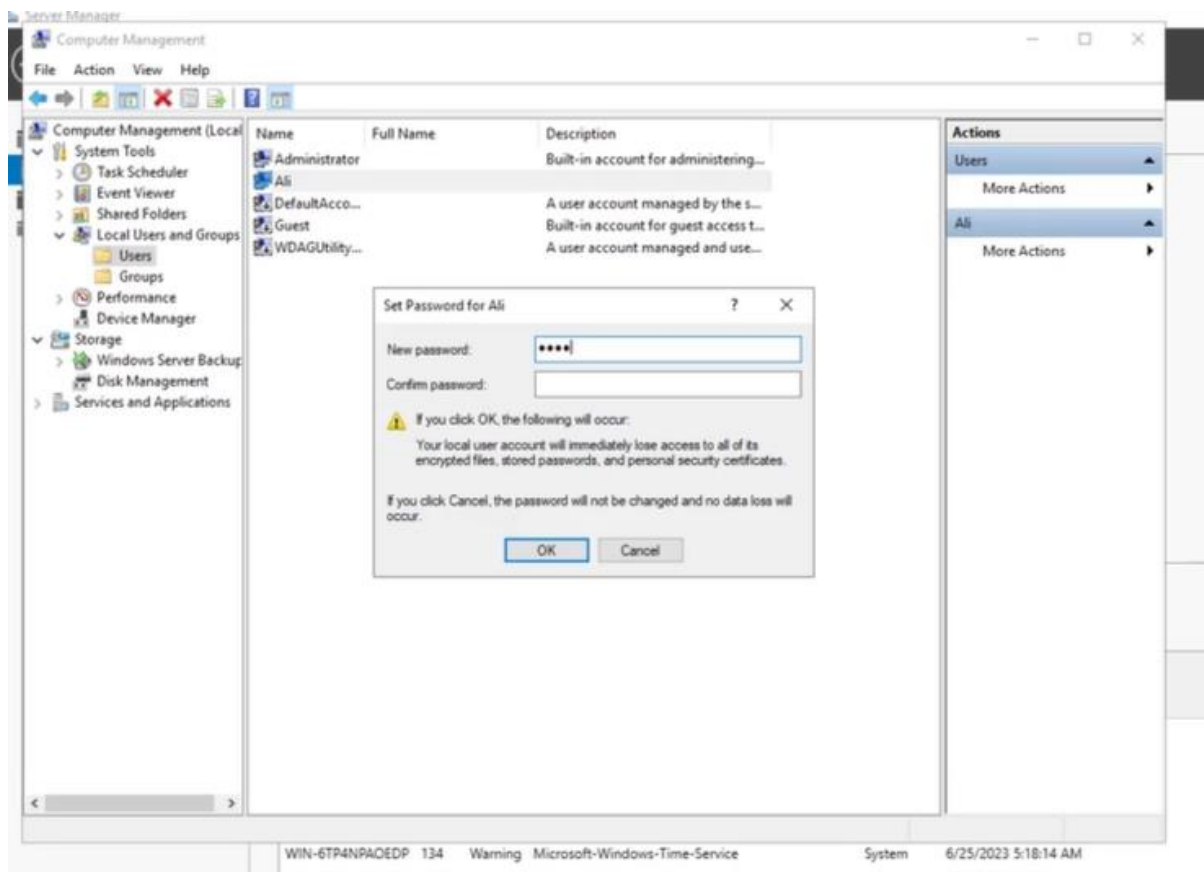
- Then restart the server as we change the name.
- Login as administrator.

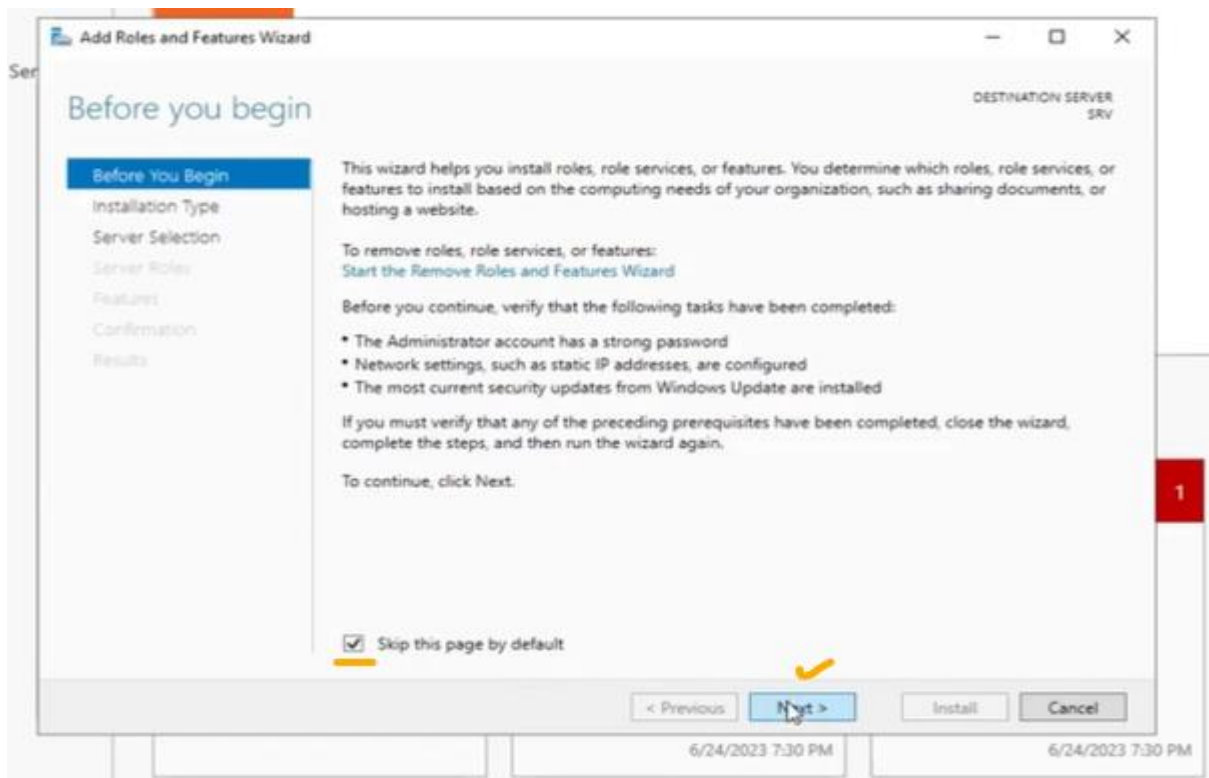Go to **cmd** and confirm the configuration like ip address and gateway and traceroute, by commands

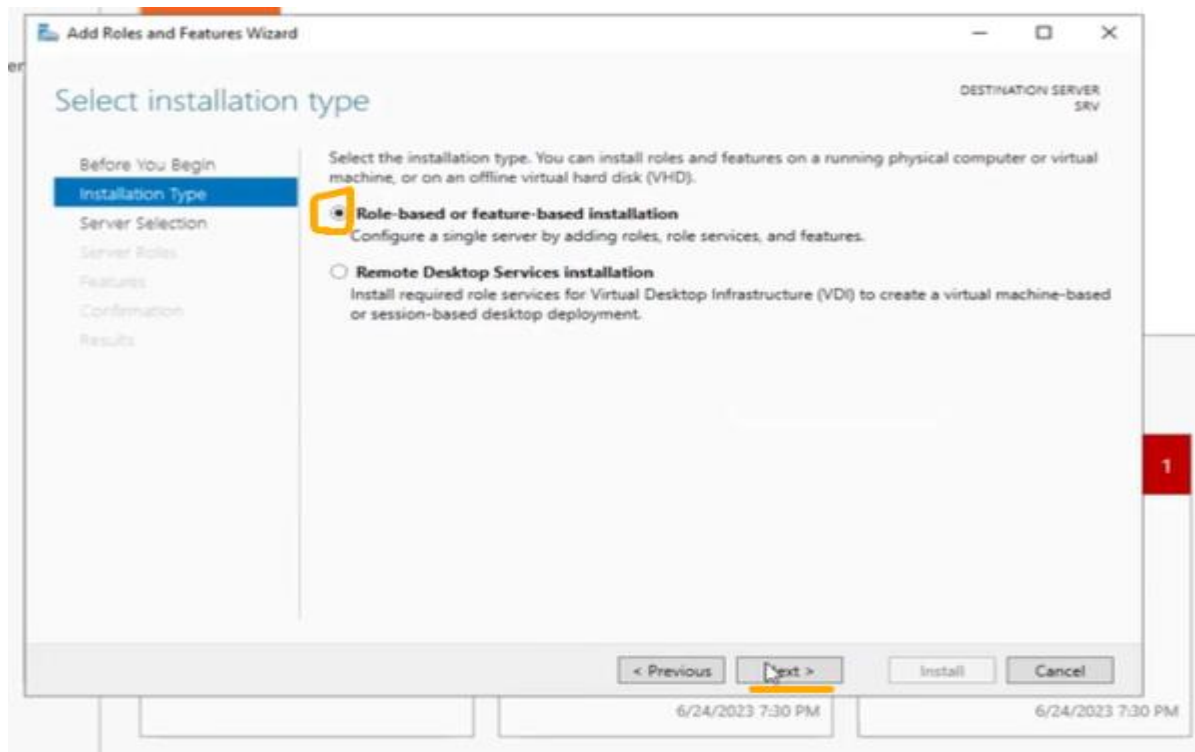- o Ipconfig
- o Ping
- o tracert

- Go to server manager and add active directory
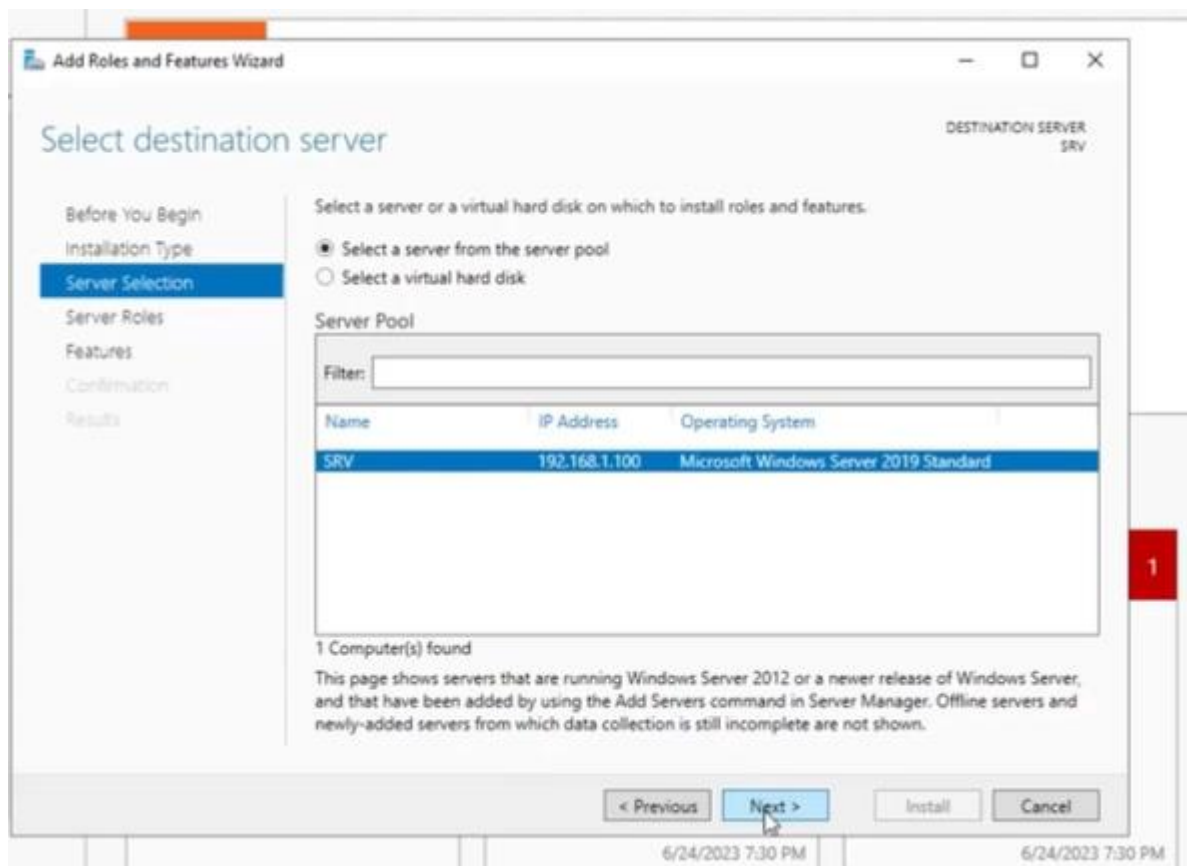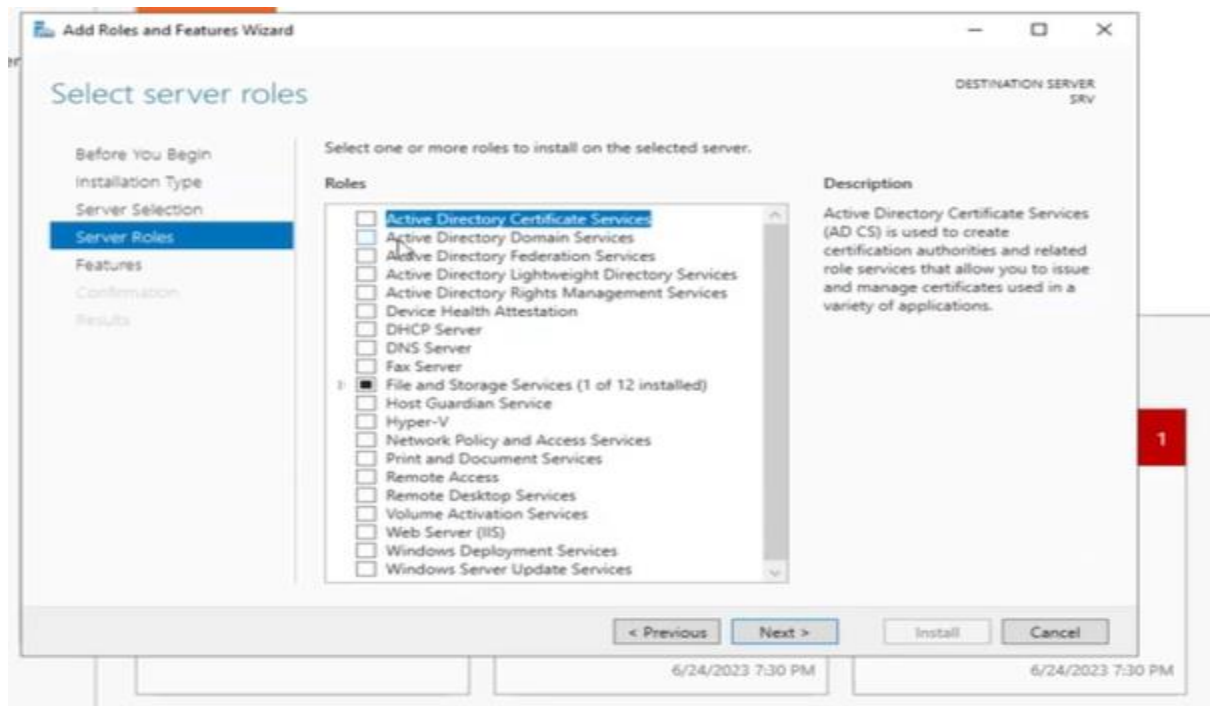- Select Add roles and features

- Check the box
- Then next

- Select the first option and then next
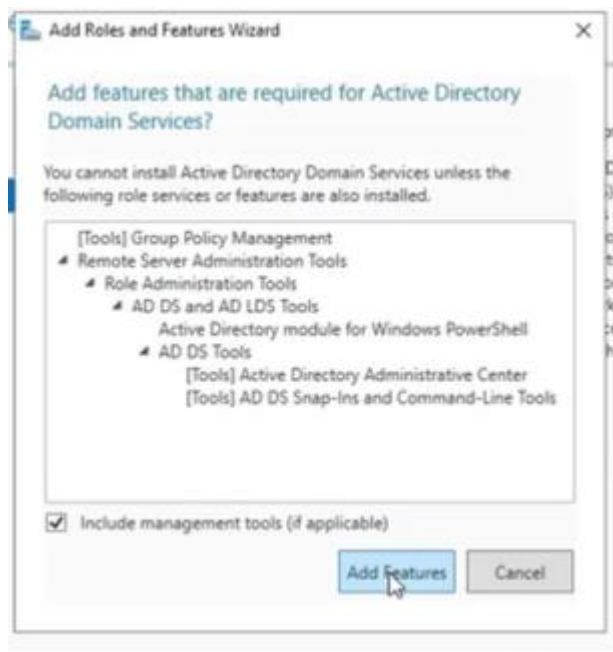
- Check name and settings and next

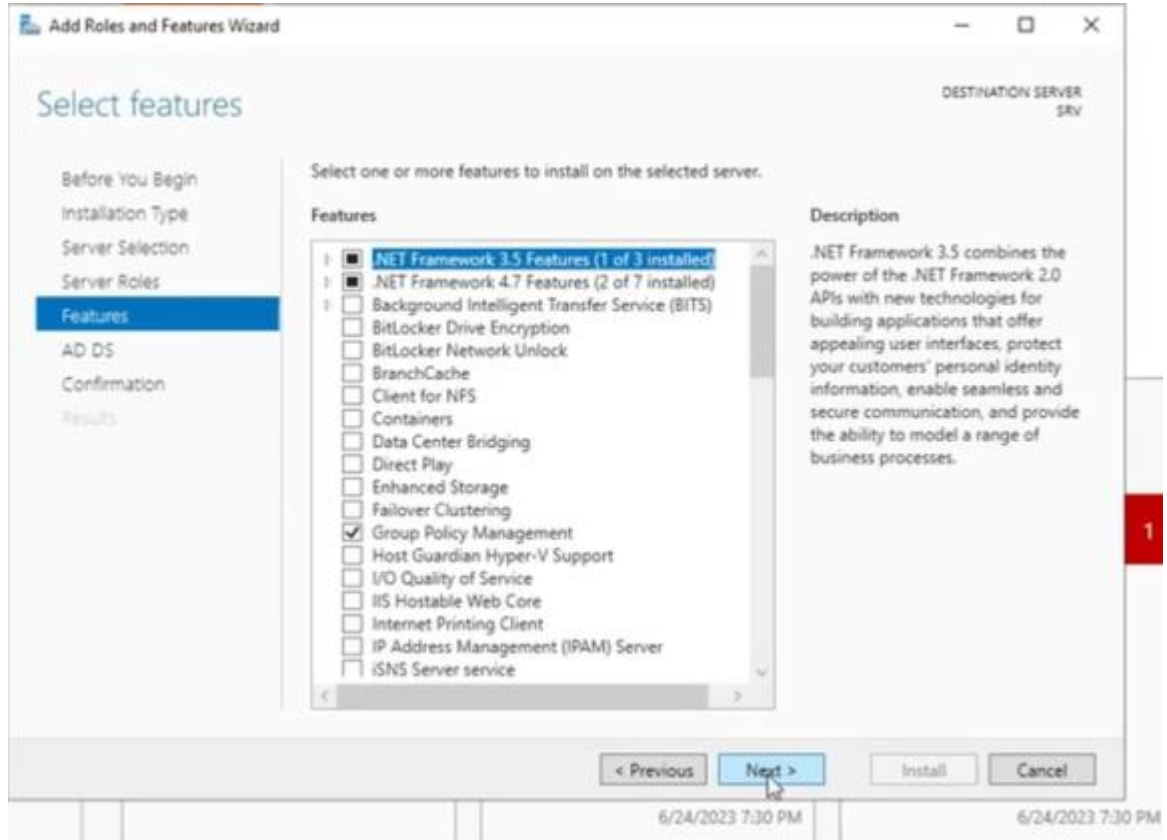- Select option active directory and domain services(2nd option)
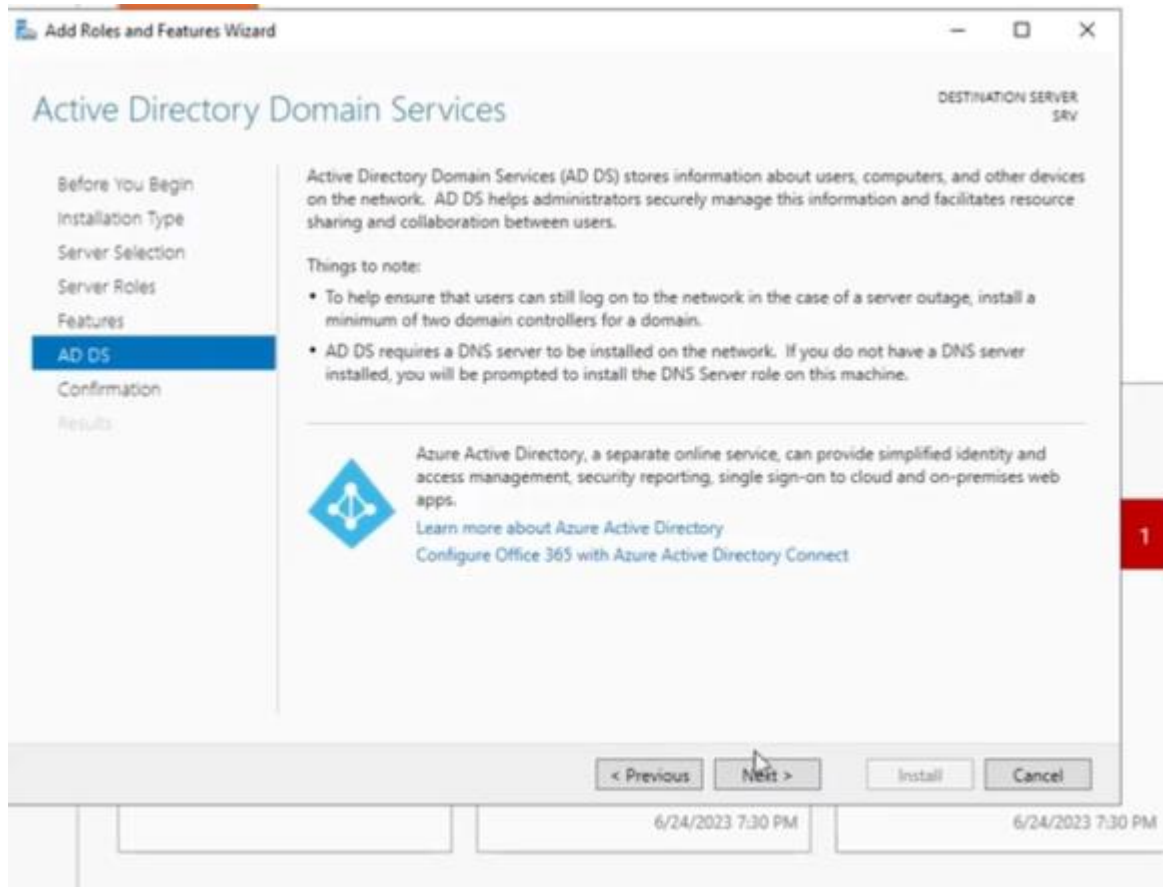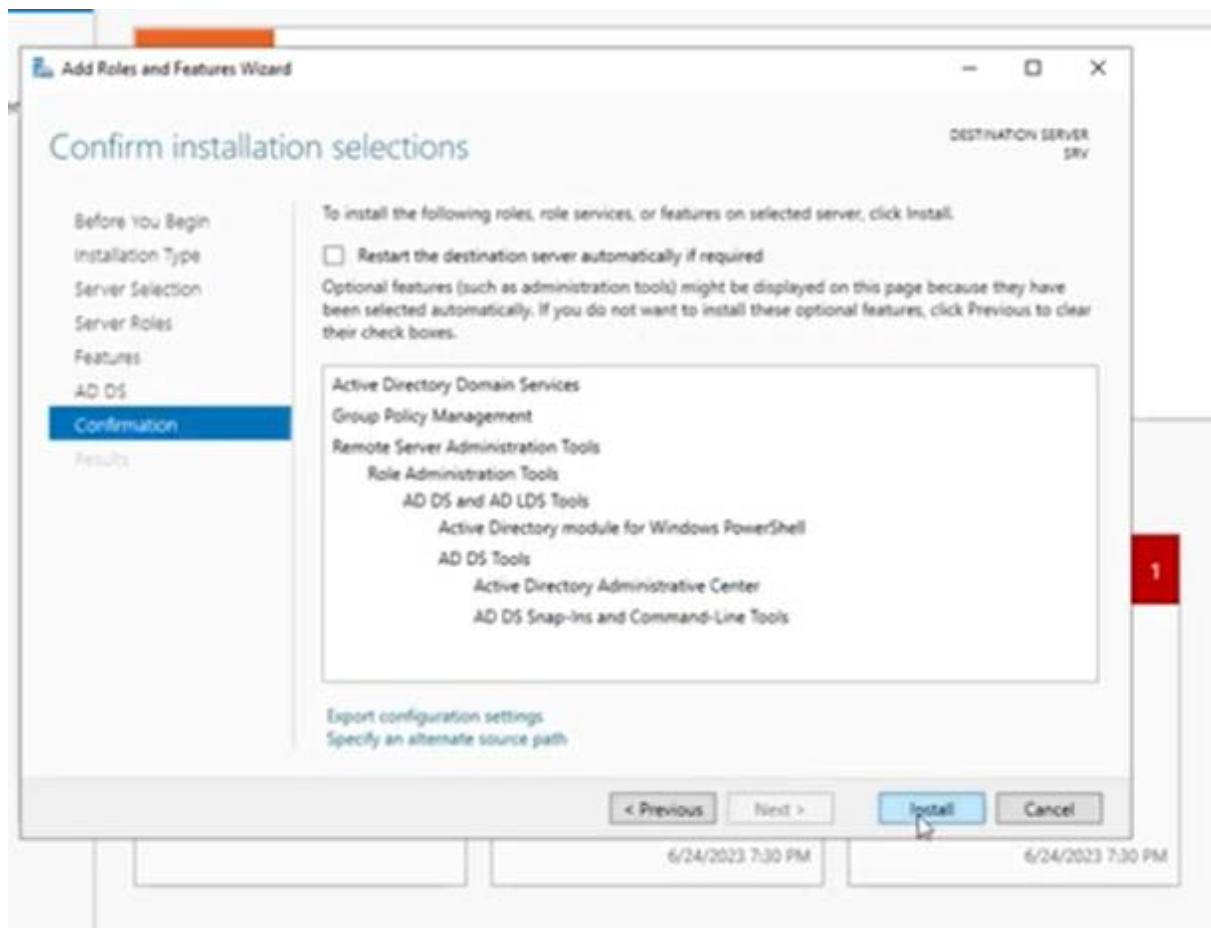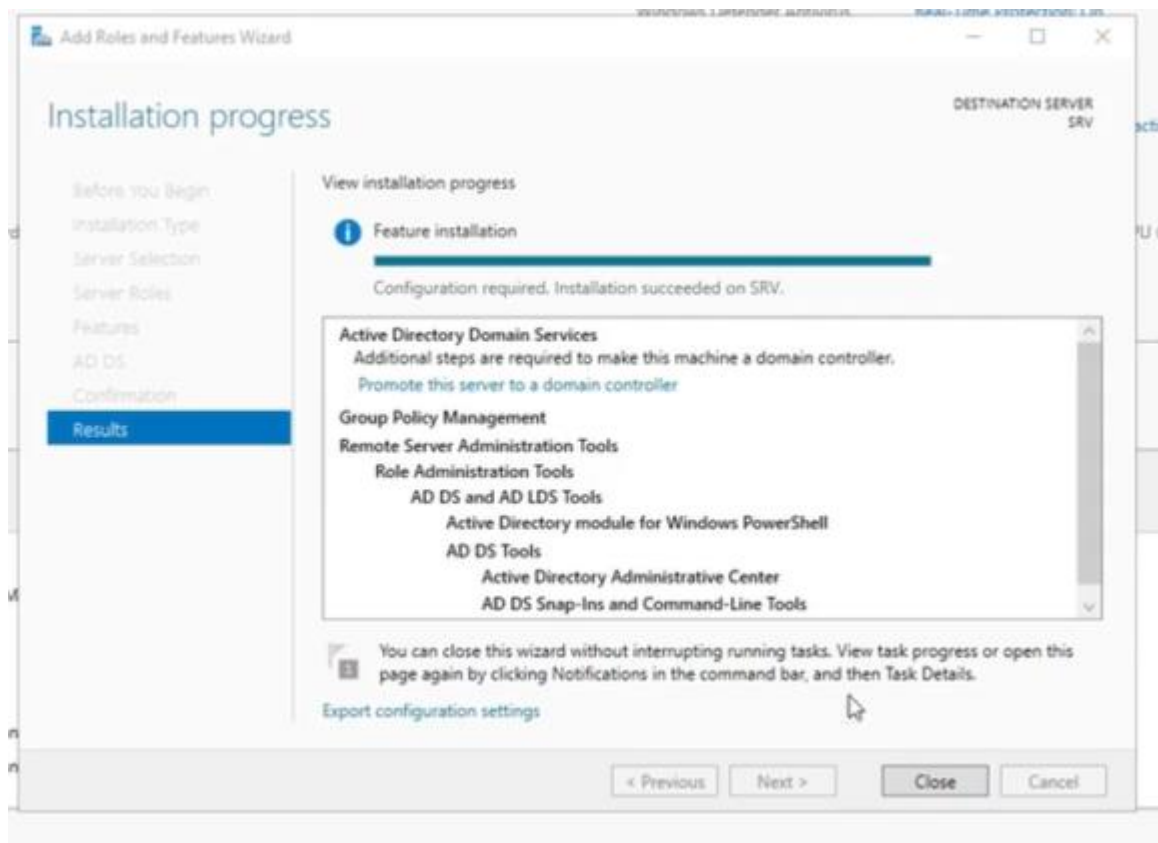

- Click add feature

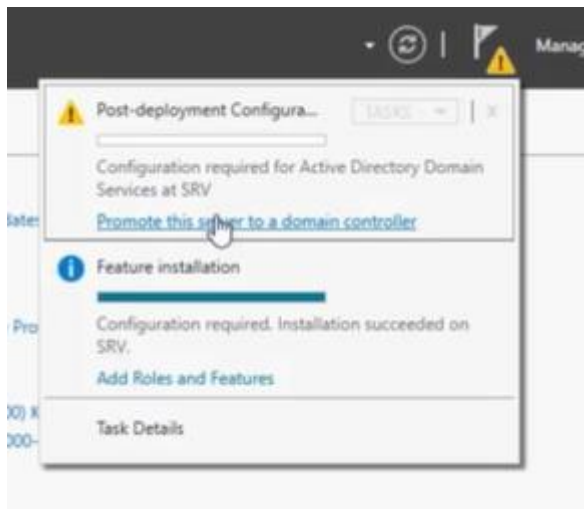

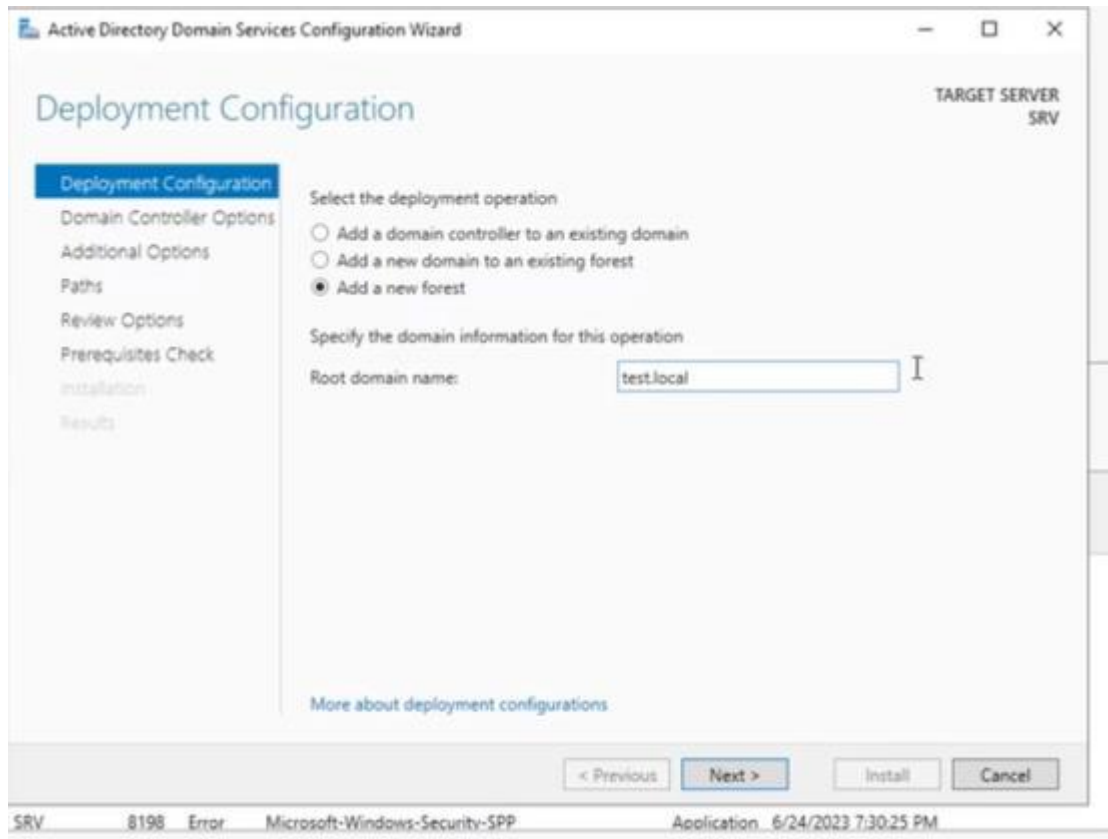- Then next
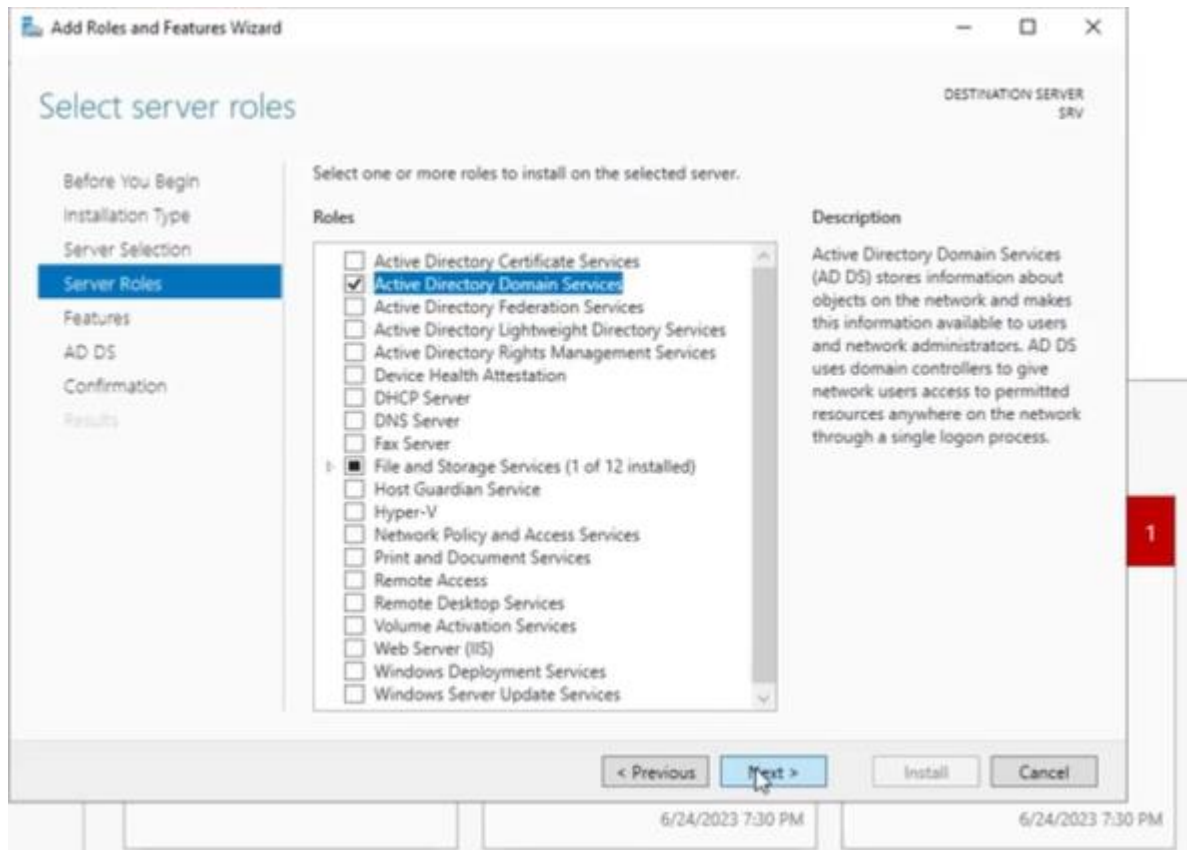
- Then next

- Then next
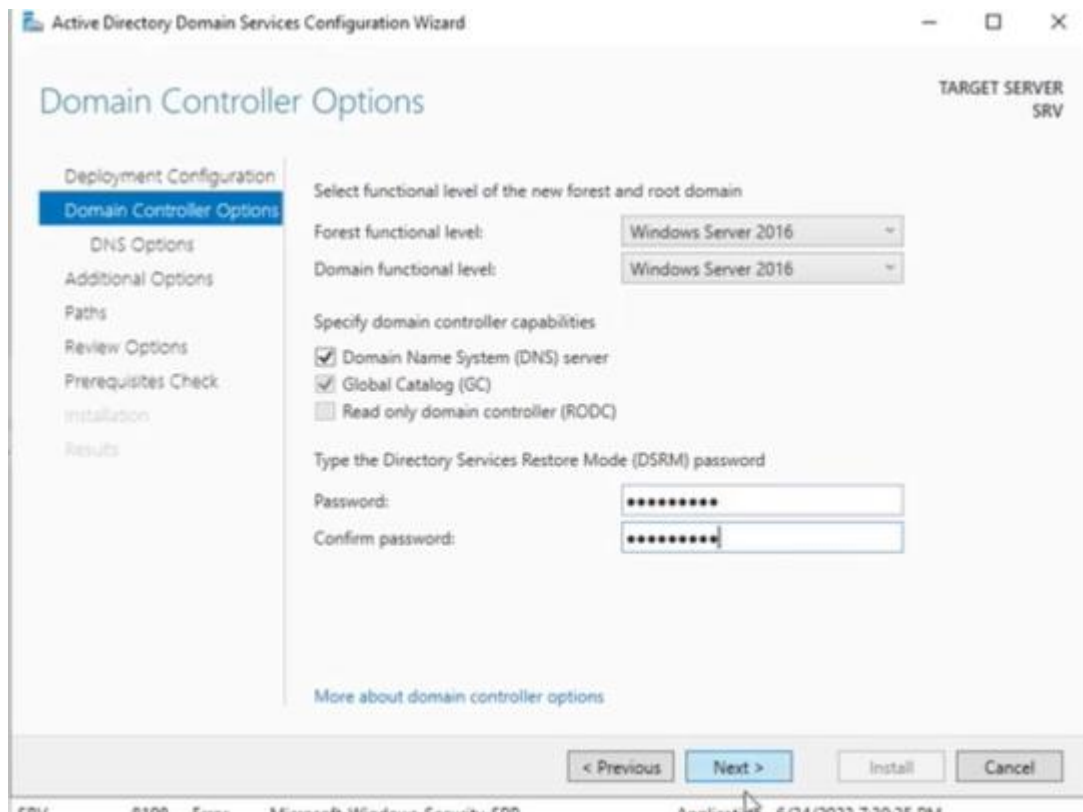
- Then install

- Installation complete

- Then select option from above right corner icon like flag.
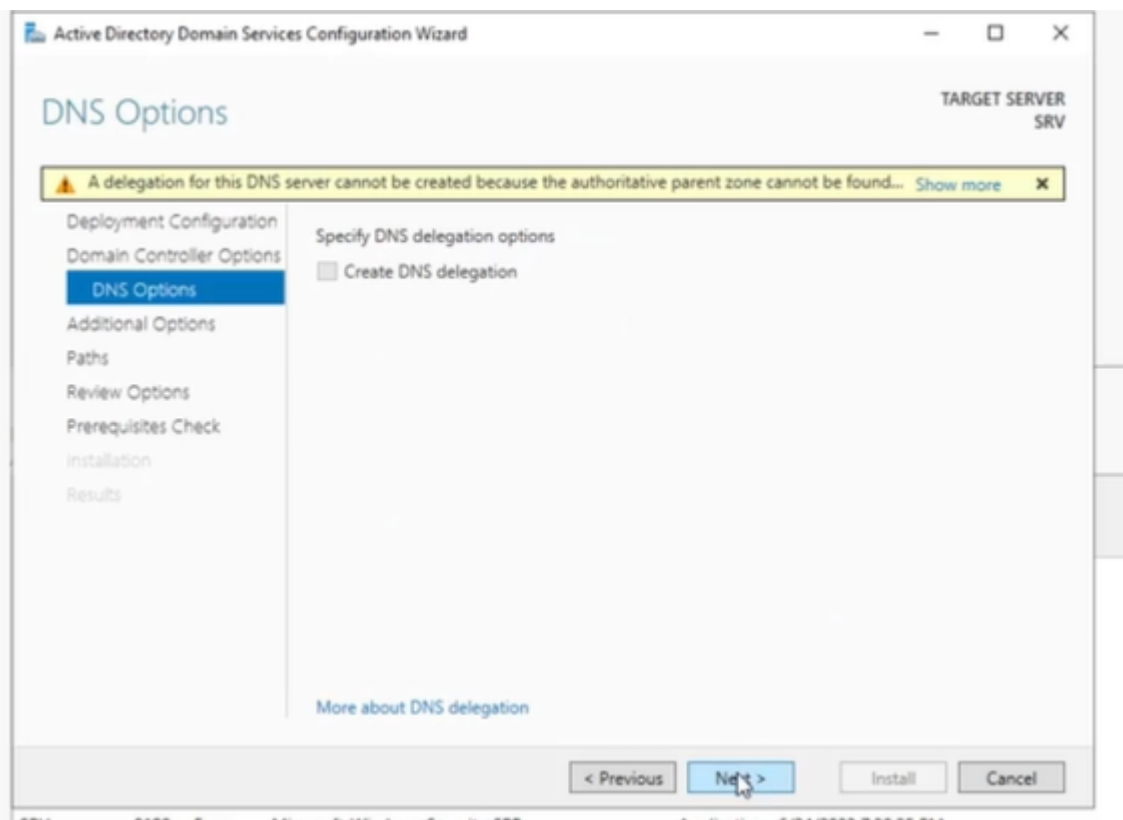- Click on promote this setting to a domain controller.

- We create a new forest whose name is test.local that we will decide for lab setup.
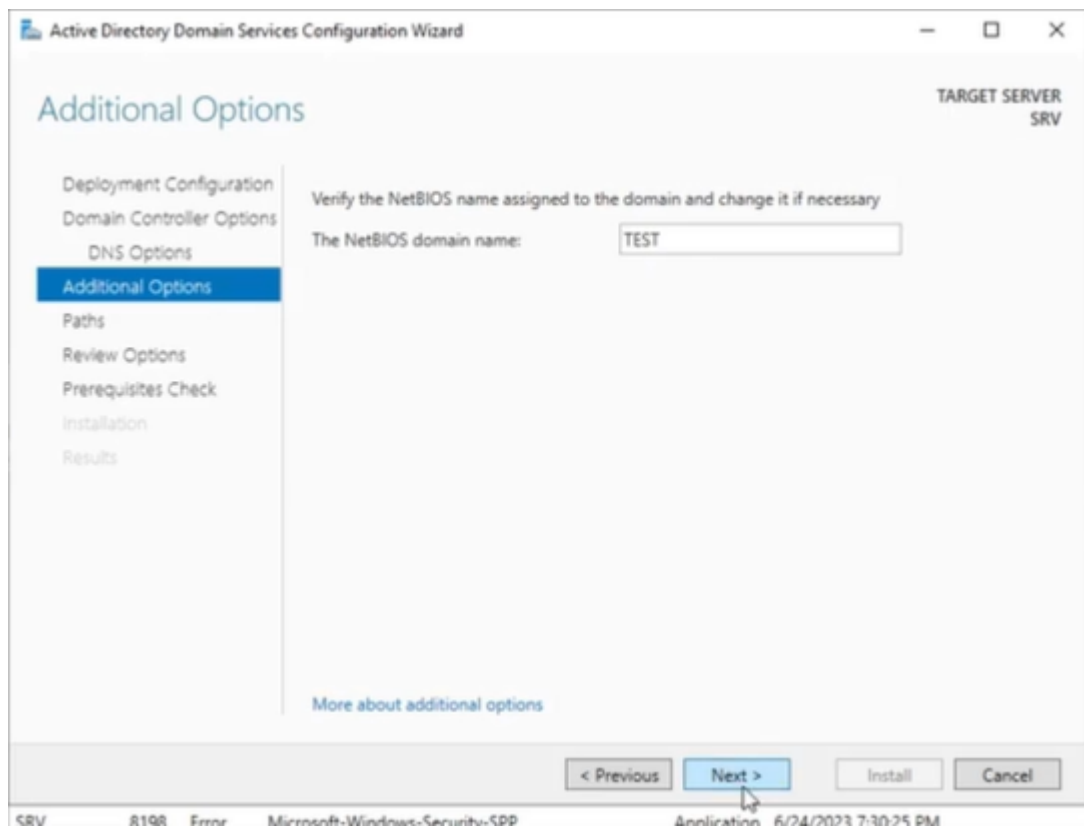

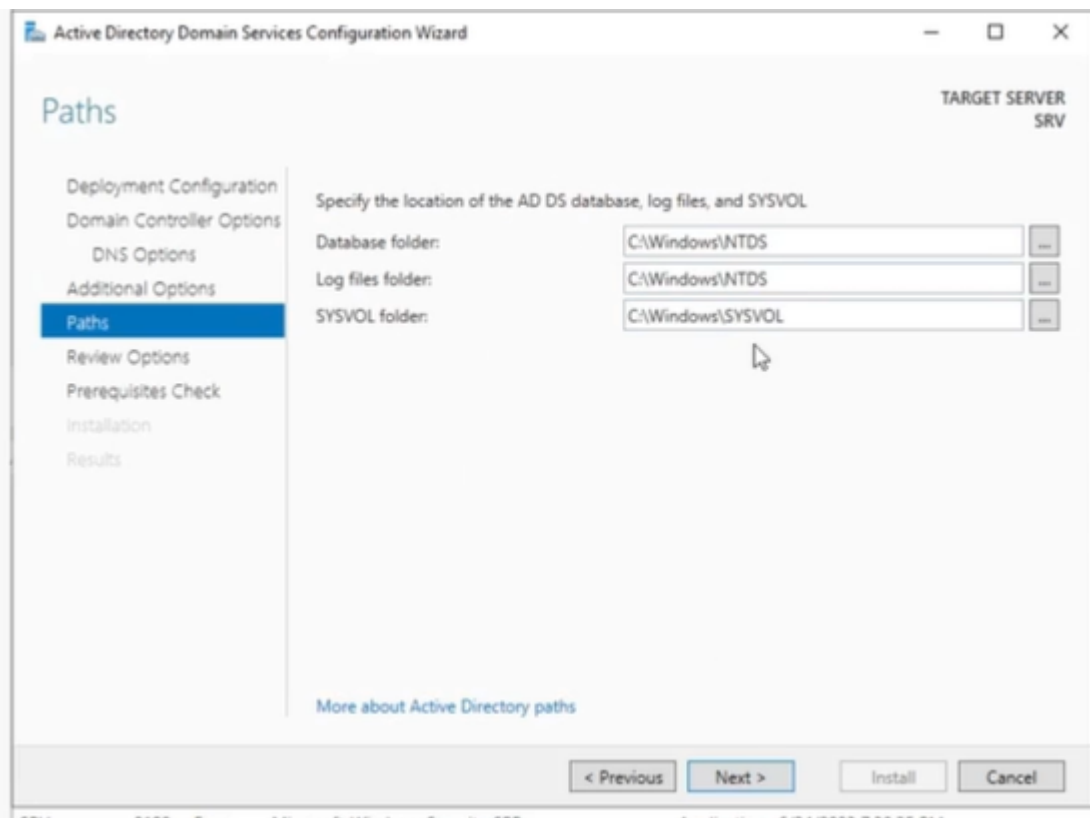- Then add password in my case have abc@12345

- Also install DNS , so next.

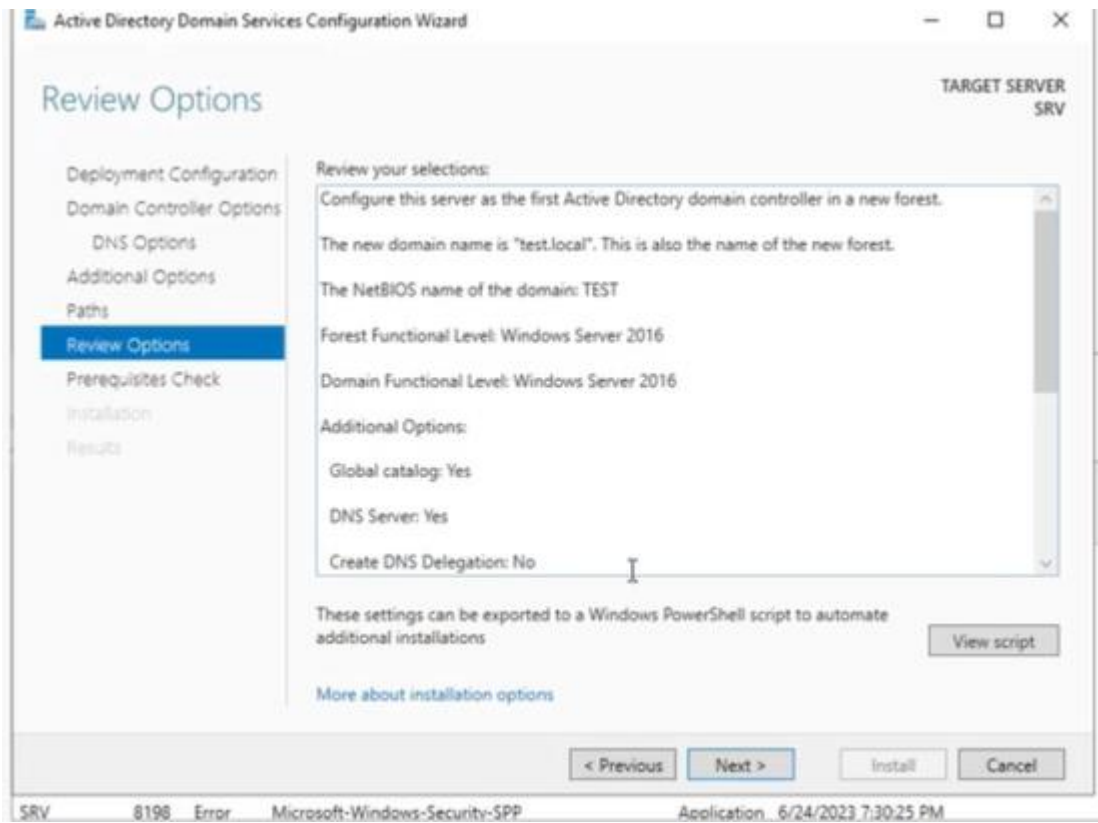- It automatically get the netbios name which is TEST , so hit next.

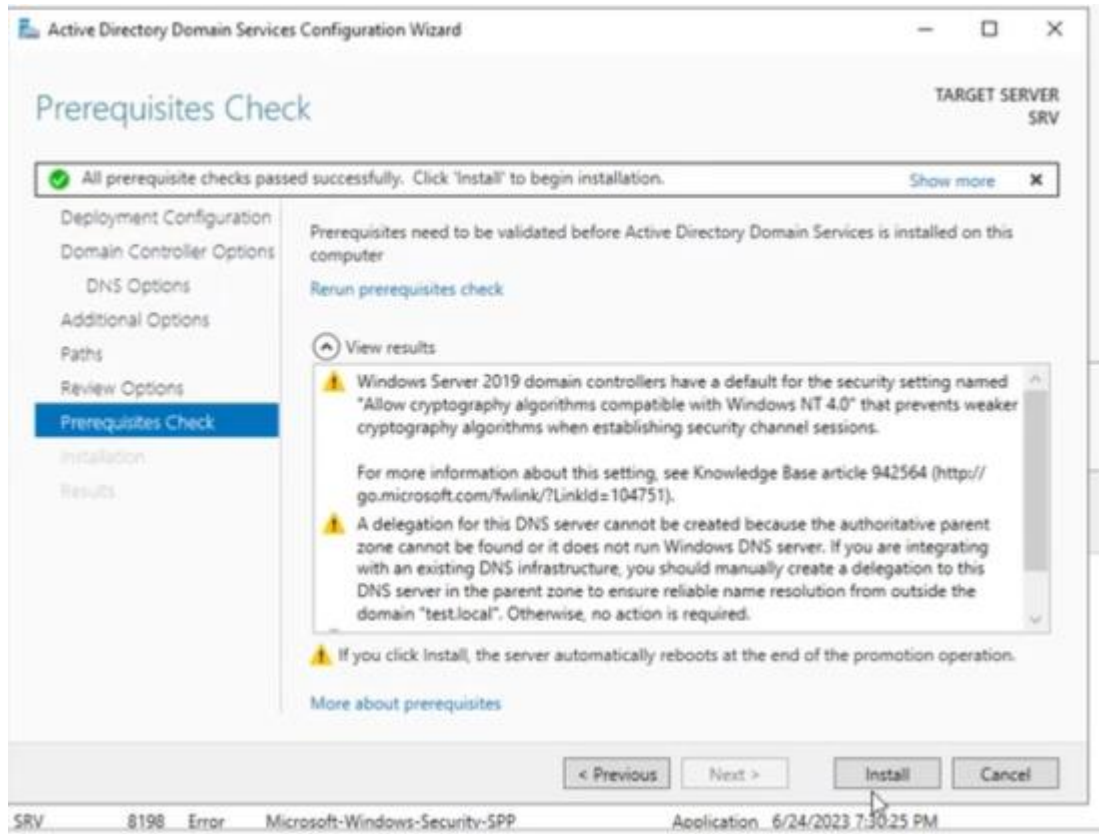- See folders where logs and other activity will store and then next

- Then review your selected options and you can also copy paste it for save.

- Then hit next.

- Then hit install
- It will show you error if not static ip is set
- If no password is set.

- When installation complete
- You will sign out
- And system will restart.

Next we will add users and groups .