

Setup Notes

Install Windows Server 2019 in VirtualBox:

- Download and Locate the ISO file
- Move to the appropriate VirtualBox folder in "VirtualBox VMs"

Configure with these settings:


- Name (something like Win-Server-2019-DC)
- Select the Windows Server 2019 ISO
- Disable Unattended Install Mode
- 4GB+ RAM
- 64GB+ Storage
- Enable EFI
- Adapter 1→ Internal Network: Set name to share with client (AD-Lab)
- (Optional) Adapter 2→ Set up NAT as secondary network if you want internet connection

Initial Configuration

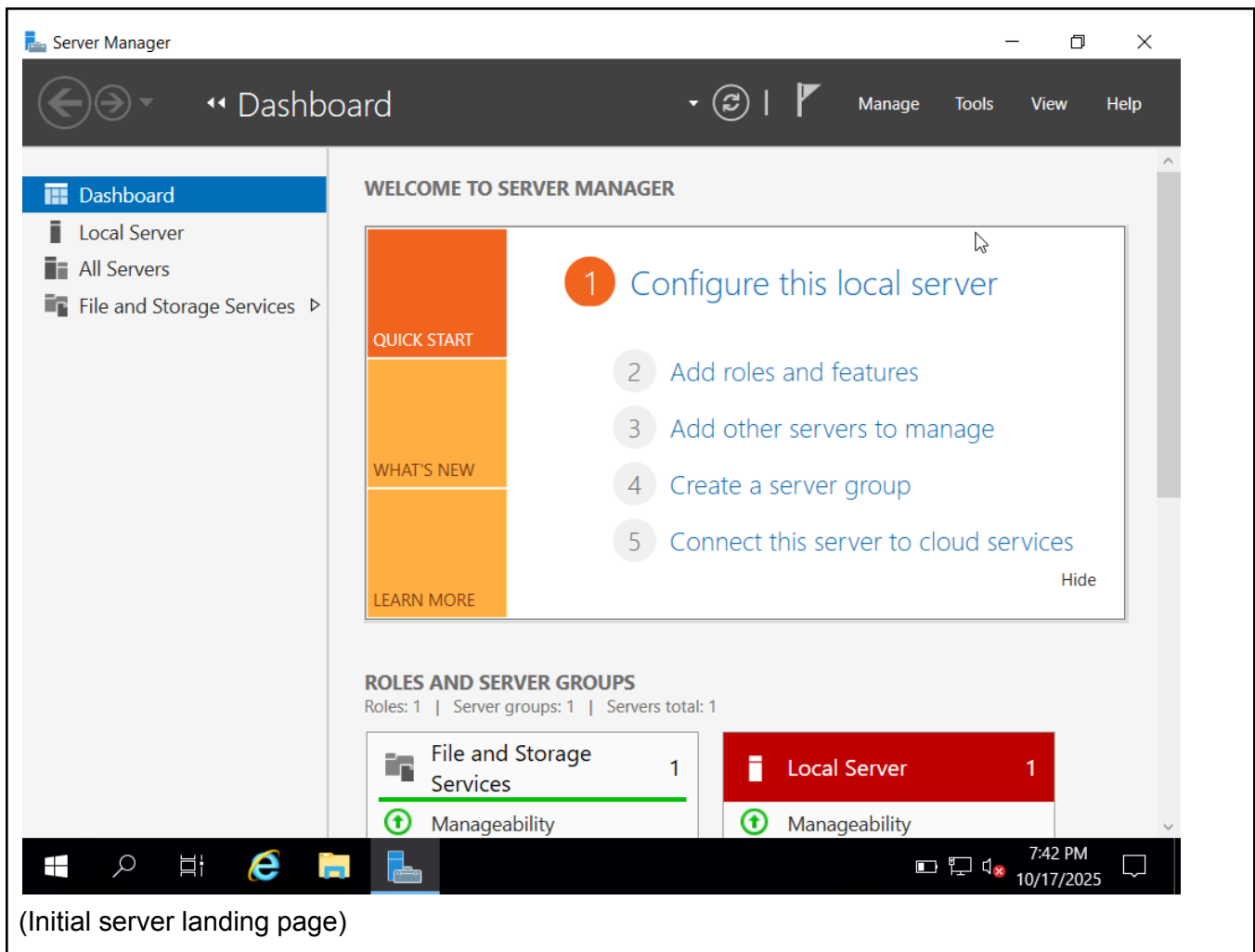
Customize settings

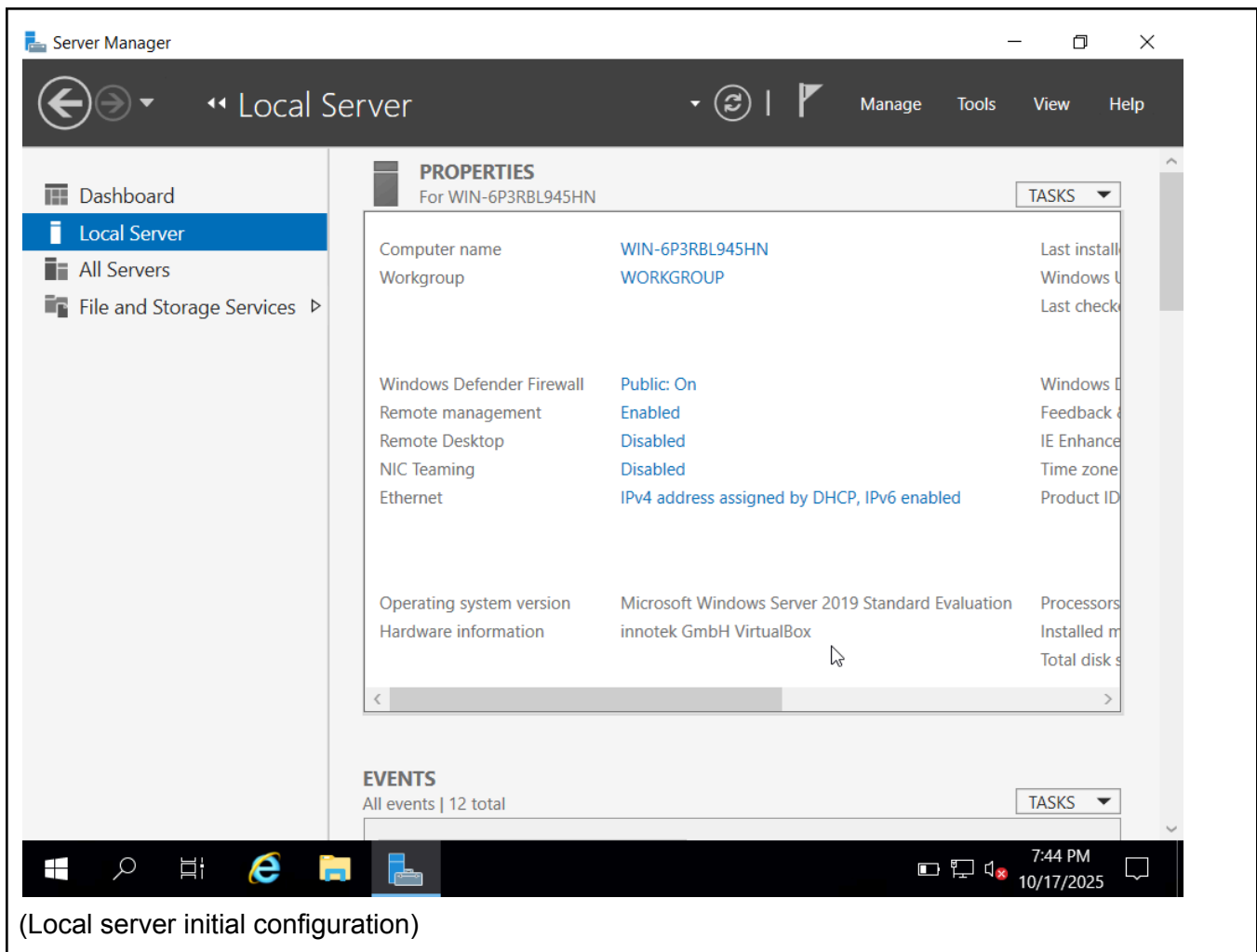
Type a password for the built-in administrator account that you can use to sign in to this computer.

User name	<input type="text" value="Administrator"/>
Password	<input type="password"/>
Reenter password	<input type="password"/>

Finish

(Initial Admin account creation page)

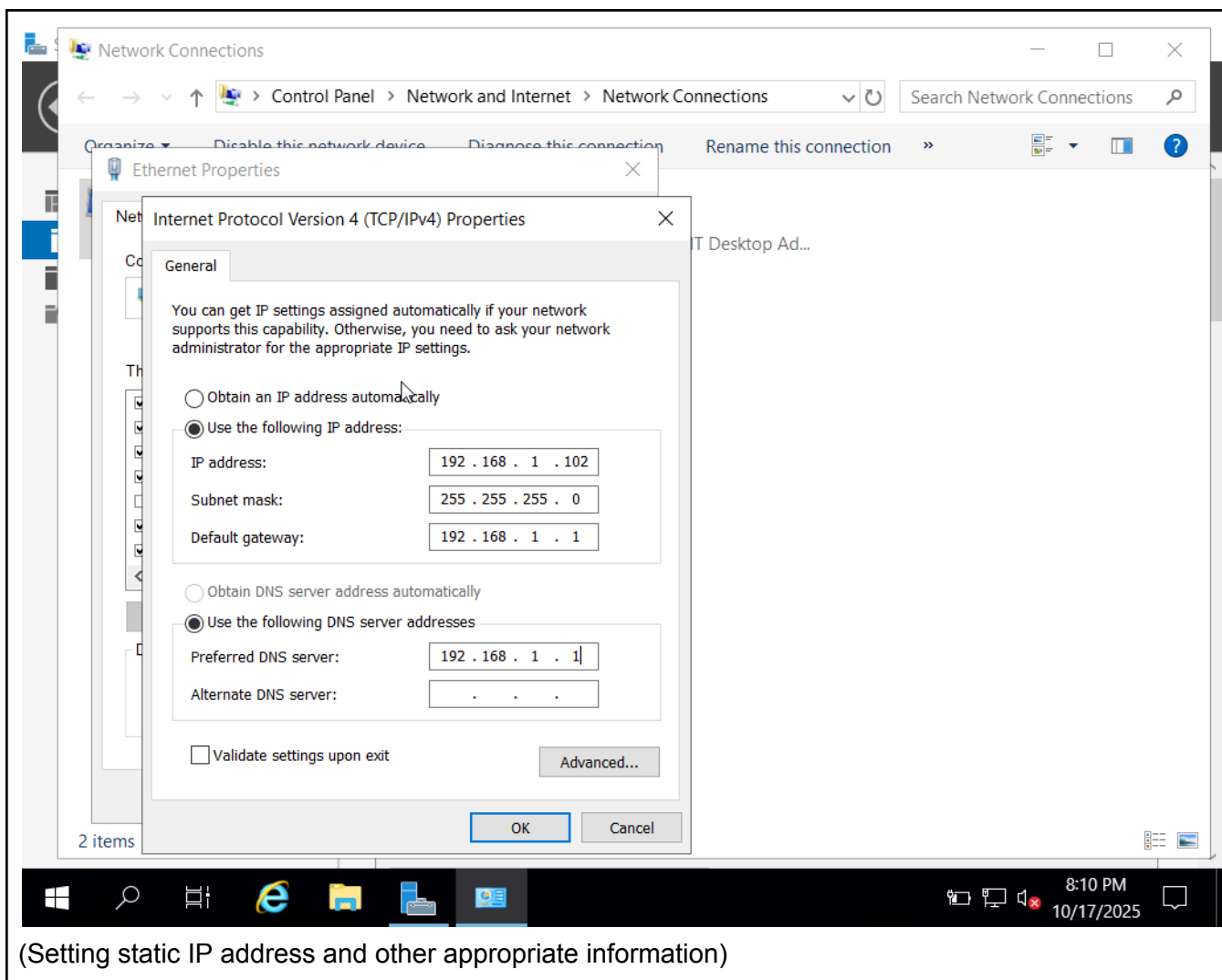


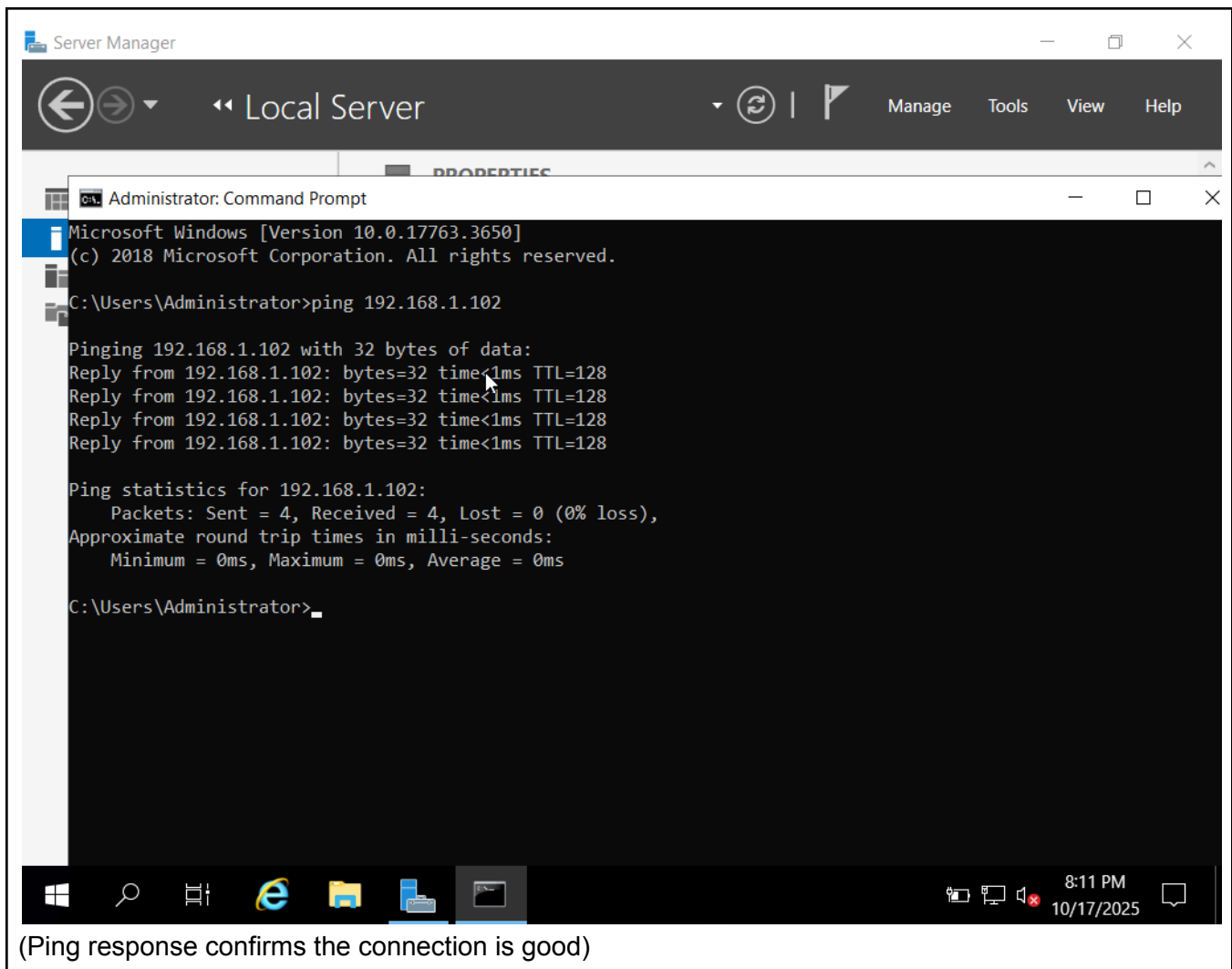


Updating Configurations

We must do the following:

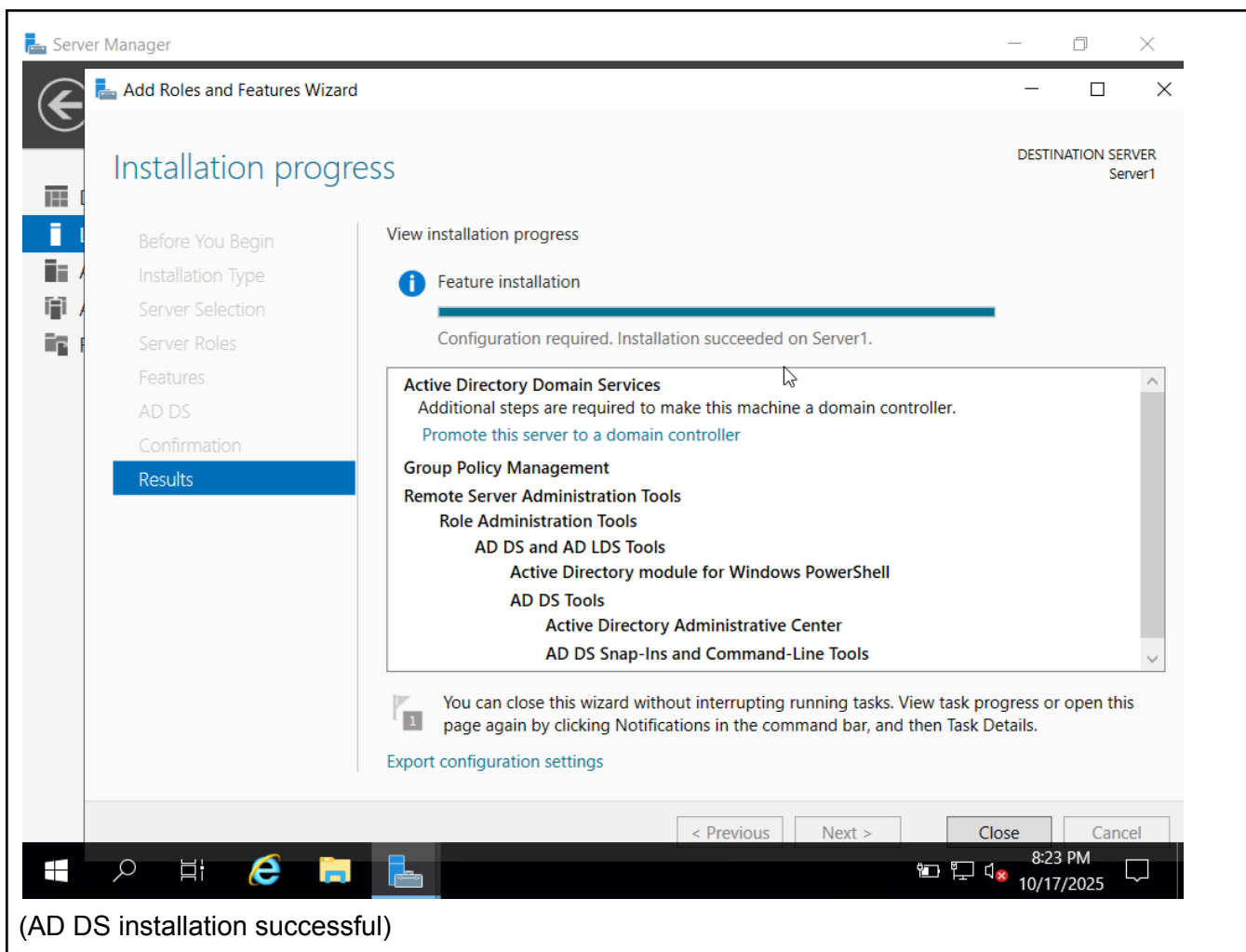
- Create a static private IP on the Internal Network (192.168.1.102)
 - Click "IPv4 address assigned by DHCP..."
 - Right-click Ethernet → Properties
 - Click "Internet Protocol Version 4" → Properties
 - Select "Use the following IP addresses"
 - Input information similar to the example below
 - Test connection via the "ping" command



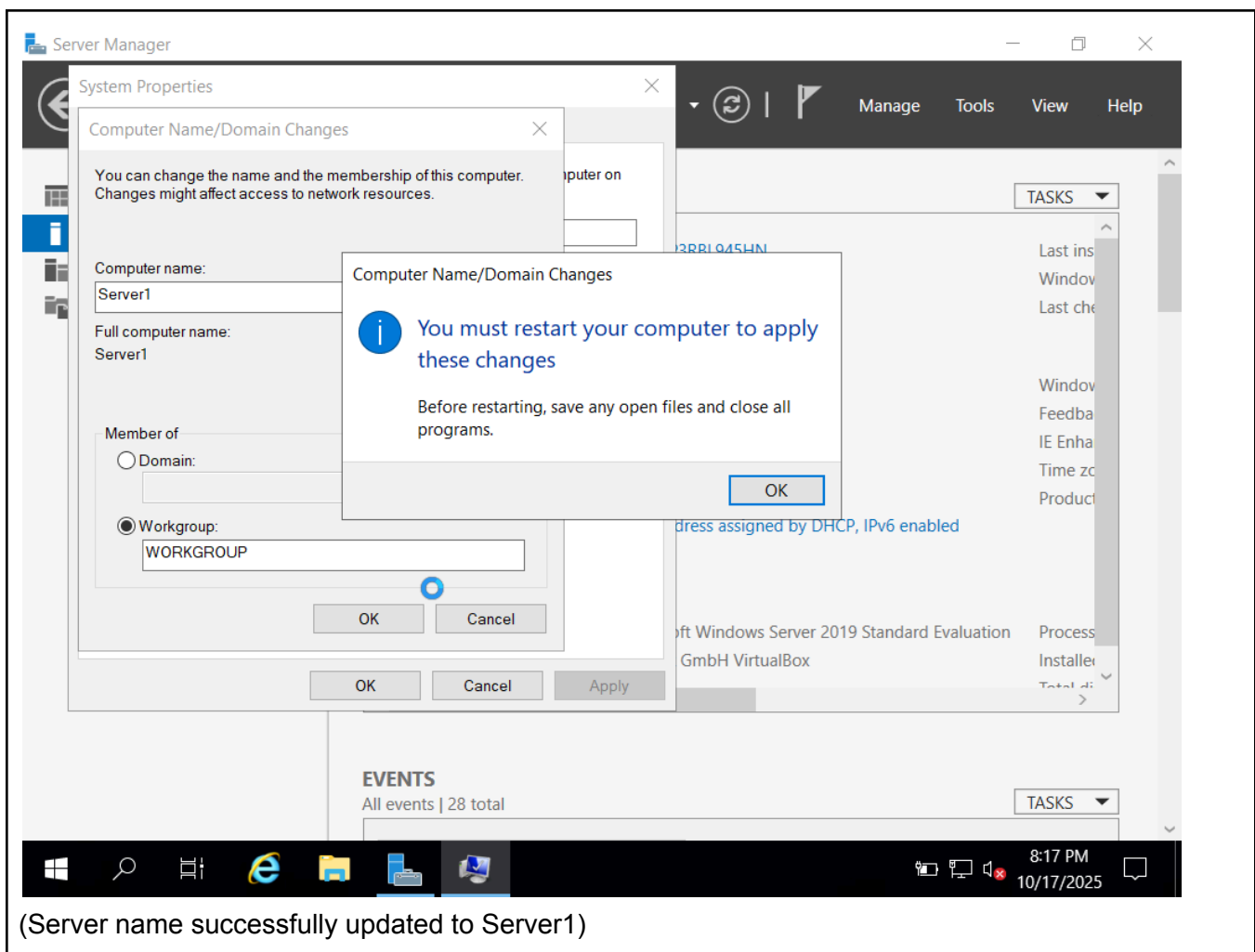


- Install Active Directory Domain Services (AD DS)

- Manage → Add Roles and Features
- Role-based installation
- Select the server
- Select "Active Directory Domain Services"
- Next...Install

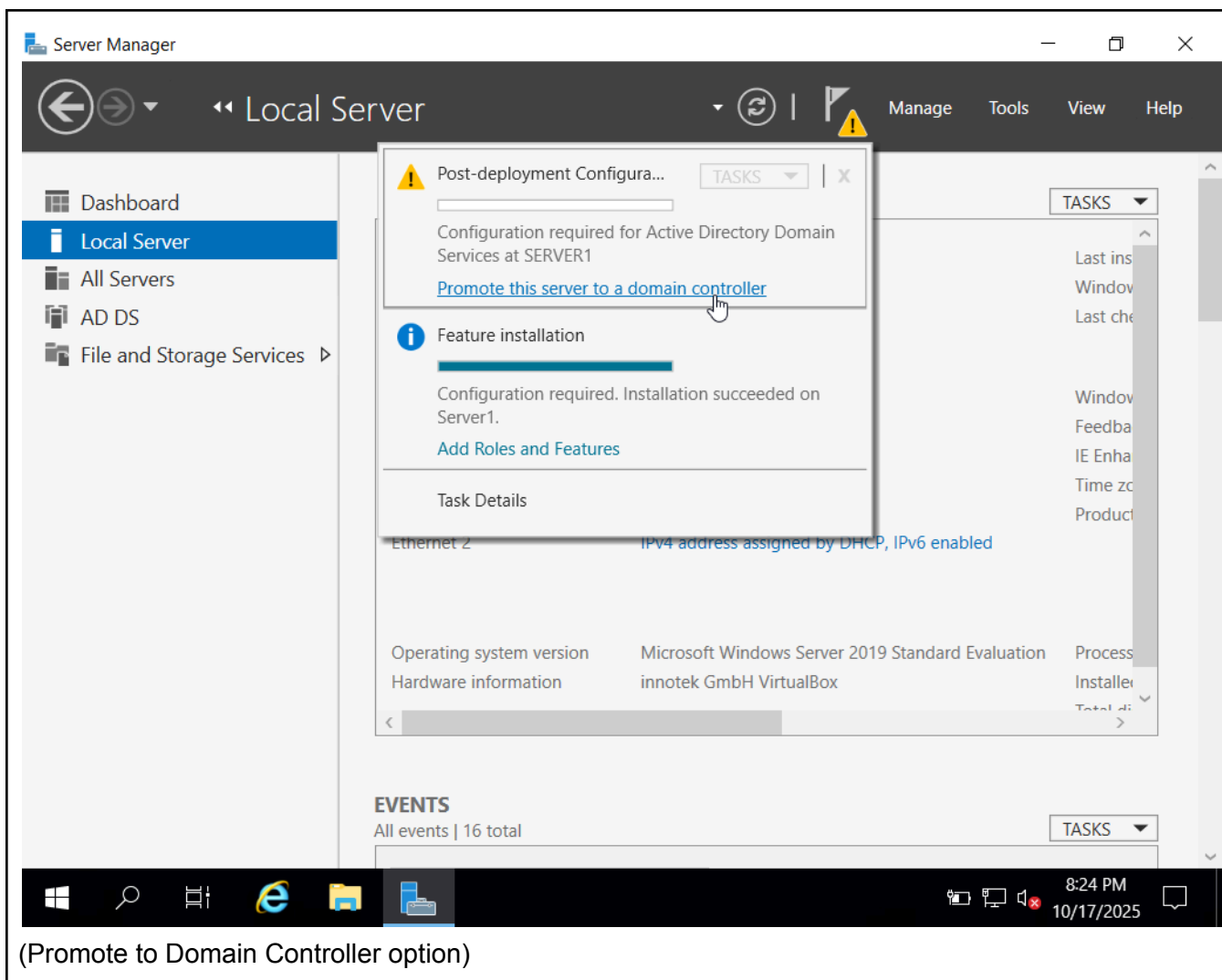


- Change the server name
 - Click Computer Name
 - Click Change
 - Rename (Something like Server1)
 - Restart

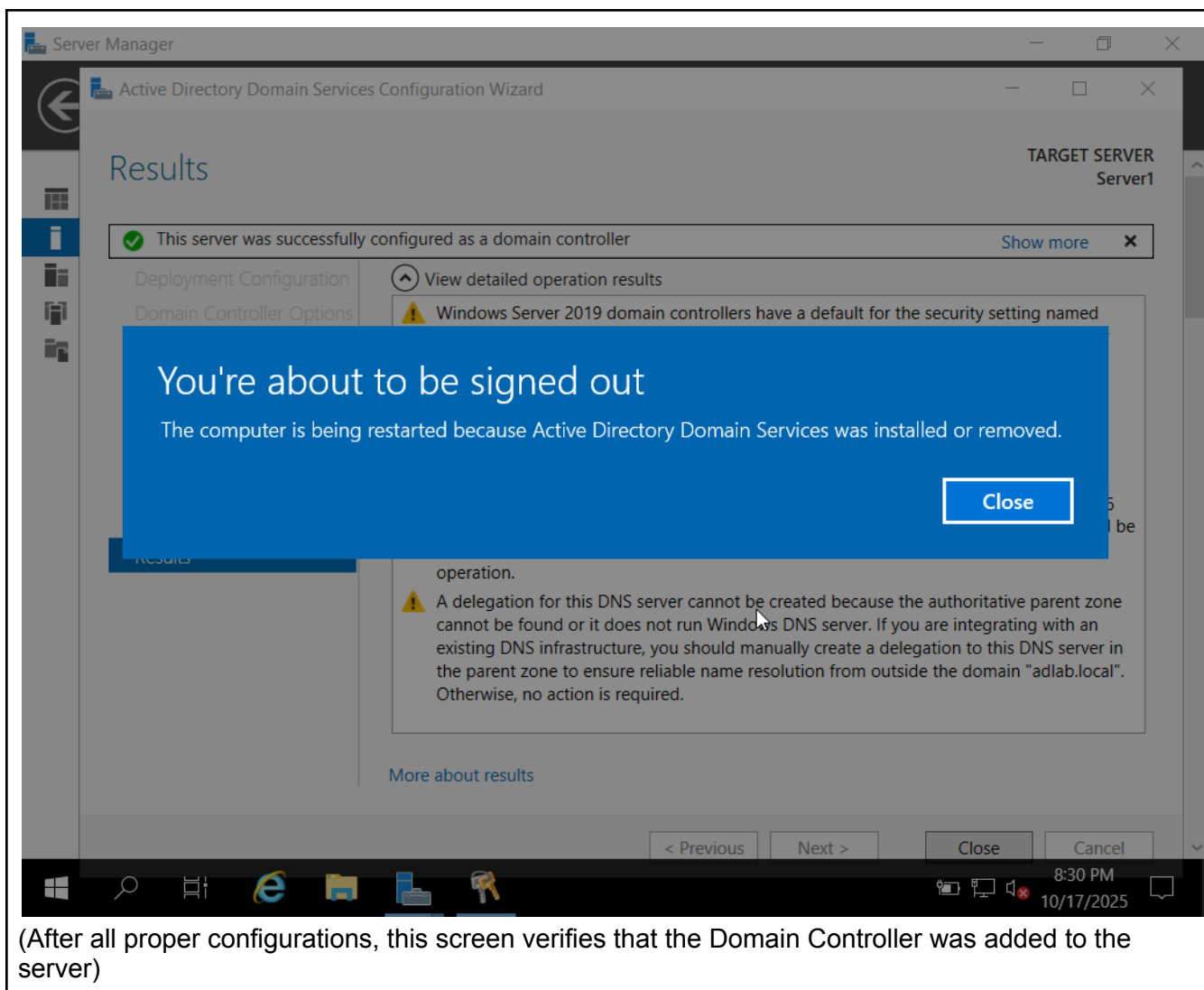


- Promote the server to a Domain Controller

- Select yellow triangle (!) → Add as domain controller
- Add a new forest
- Define root name (something like adlab.local)
- Install



(Promote to Domain Controller option)



Server Manager

Local Server

ManageToolsViewHelp

Dashboard

Local Server

All Servers

AD DS

DNS

File and Storage Services

PROPERTIES

For Server1

Computer name	Server1	Last ins
Domain	adlab.local	Window
		Last che
Windows Defender Firewall	Public: On, Private: On	Window
Remote management	Enabled	Feedba
Remote Desktop	Disabled	IE Enha
NIC Teaming	Disabled	Time zc
Ethernet	192.168.1.102, IPv6 enabled	Product
Ethernet 2	IPv4 address assigned by DHCP, IPv6 enabled	
Operating system version	Microsoft Windows Server 2019 Standard Evaluation	Process
Hardware information	innotek GmbH VirtualBox	Installe

EVENTS

All events | 34 total

8:37 PM

10/17/2025

Final server configuration