

Instalação e Preparação do Ambiente Windows Server

Visão Geral

Ambiente inicial com Windows Server para iniciar a construção de sua rede corporativa [aqui](#).

Objetivos

1. Requisitos para instalação e operação do Windows Server
2. Instalação
3. Preparação do Ambiente Windows Server
4. Planejamento e criando estrutura de domínio

Requisitos para instalação e operação do Windows Server

Processador (CPU)

- 64 bits, 1.4 GHz (mínimo)
- Compatível com conjunto de instruções x64
- Suporte a:
 - NX e DEP
 - CMPXCHG16b, LAHF/SAHF, PrefetchW
 - EPT ou NPT (Second Level Address Translation)
 - SSE4.2 (Streaming SIMD Extensions 4.2)
 - POPCNT

Memória RAM

- **Mínimo:**
 - 512 MB (Server Core)
 - 2 GB (com Experiência Desktop)
- **Recomendado:** 4 GB ou mais
- RAM ECC (com correção de erros) recomendada

Armazenamento

- **Mínimo:** 32 GB
- Mais espaço necessário se:
 - RAM > 16 GB
 - Uso de arquivos de paginação, hibernação e despejo
- Adaptador de armazenamento compatível com PCI Express
- Não usar PATA (Parallel ATA)

Rede

- Adaptador Ethernet com:
 - Velocidade mínima de 1 Gbps
 - Compatível com PCI Express

Outros Requisitos

- TPM 2.0 (para recursos como BitLocker, Windows Hello)
- UEFI 2.3.1c com suporte a Secure Boot (inicialização segura)
- **Dispositivos periféricos:**
 - Teclado e mouse
 - Monitor com resolução mínima de 1024x768 (Super VGA)
- **Unidade de DVD** (se for instalar via mídia física)
- **Acesso à Internet** (para atualizações e ativação)

Download da ISO do Windows 2025

 Centro de Avaliação Microsoft | Windows Server 2025

O Windows Server 2025 oferece melhorias de segurança de última geração e recursos de nuvem híbrida em uma plataforma modernizada e pronta para o...

<https://www.microsoft.com/pt-br/evalcenter/download-windows-server-2025>



Observação: Esta edição de avaliação expira em 180 dias.

microsoft.com/pt-br/evalcenter/download-windows-server-2025

 Microsoft | Evaluation Center Windows ▾ Windows Server ▾ SQL Server ▾ System Center ▾ Segurança da Microsoft ▾ Mais ▾ Toda a Microsoft ▾

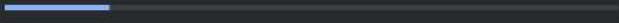
Selecione seu download do Windows Server 2025

Inglês (Estados Unidos)	Baixar o ISO Edição de 64 bits	Baixar o VHD Edição de 64 bits	Experimente o Windows Server no Azure Saiba mais
Chinês (Simplificado)	Baixar o ISO Edição de 64 bits		
Françês			

26100.1742.240906-0331.ge_release_svc_refresh_SERVER_EVAL_x64FRE_en-...

De <https://www.microsoft.com>

9,9 MB/s - 1 014 MB de 5,6 GB, Faltam 8 min



Instalação no PROXMOX

Upload da iso

The screenshot shows the Proxmox VE web interface under the 'Storage' menu. The 'ISO Images' tab is selected. A table lists several ISO files with columns for Name, Date, Format, and Size. The 'Upload' button in the top navigation bar is highlighted with a red box.

Name	Date	Format	Size
CentOS-Stream-9-20241021.0-x86_64-dvd1.iso	2024-10-23 14:45:33	iso	11.64 GB
debian-12.7.0-amd64-netinst.iso	2024-10-23 16:31:25	iso	661.65 MB
nethsecurity-8-23.05.5-ns.1.3.0-x86_64-generic-squashfs-combine...	2024-10-24 16:17:51	iso	331.64 MB
nethsecurity-8-23.05.5-ns.1.4.1-x86_64-generic-squashfs-combine...	2025-02-03 10:05:39	iso	331.64 MB
ubuntu-24.04.1-live-server-amd64.iso	2025-02-09 09:45:09	iso	2.77 GB

The screenshot shows the 'Upload' dialog box. It includes fields for 'File:' (C:\fakepath\26100.1742.240906), 'File name:' (26100.1742.240906-0331.ge_release_svc_re), 'File size:' (5.60 GiB), 'MIME type:' (None), 'Hash algorithm:' (None), and 'Checksum:' (none). A note at the bottom says 'Uploads are stored temporarily in '/var/tmp/''. The 'Upload' button is highlighted with a red box.

The screenshot shows the 'Task viewer: Copy data' interface. The 'Output' tab is active, displaying log output for a file import task. The log shows the file was imported from /var/tmp/pveupload-acc5c429eb89d0b37b2319b97aed2685 to /var/lib/vz/template/iso/26100.1742.240906-0331.ge_release_svc_refresh_SERVER_EVAL_x64FRE_en-us.iso. The task status is 'TASK OK'.

```
starting file import from: /var/tmp/pveupload-acc5c429eb89d0b37b2319b97aed2685
target node: calisto
target file: /var/lib/vz/template/iso/26100.1742.240906-0331.ge_release_svc_refresh_SERVER_EVAL_x64FRE_en-us.iso
file size is: 6014152704
command: cp -- /var/tmp/pveupload-acc5c429eb89d0b37b2319b97aed2685 /var/lib/vz/template/iso/26100.1742.240906-0331.ge_release_svc_refresh_SERVER_E
finished file import successfully
TASK OK
```

Crianção de vm no proxmox

Node 'calisto'						
	Actions					
	Type ↑	Description	Disk usage...	Memory us...	CPU usage	Uptime
		100 (ganimedes)	-	-	-	-
		102 (hegemone)	-	-	-	-
		103 (semaphore)	-	-	-	-
		104 (ufi)	-	-	-	-
		105 (terraform)	-	-	-	-
		106 (homarr)	-	-	-	-
		107 (phpipam)	-	-	-	-
		108 (ps)	-	-	-	-
		109 (debian)	-	-	-	-
		110 (ns1.alfonsin.shop)	-	-	-	-
		120 (ns1.alfonsin.shop)	-	-	-	-
		151 (metis)	-	-	-	-

Create: Virtual Machine ✖

General OS System Disks CPU Memory Network Confirm

Node:	calisto	Resource Pool:
VM ID:	500	
Name:	w2k2025	

Help Advanced Back Next

Create: Virtual Machine

General OS System Disks CPU Memory Network Confirm

Use CD/DVD disc image file (iso) Guest OS:

Storage: local Type: Microsoft Windows
ISO image: 26100.1742.240906-0 Version: 11/2022/2025

Use physical CD/DVD Drive Add additional drive for VirtIO drivers

Do not use any media

Advanced Back Next

Create: Virtual Machine

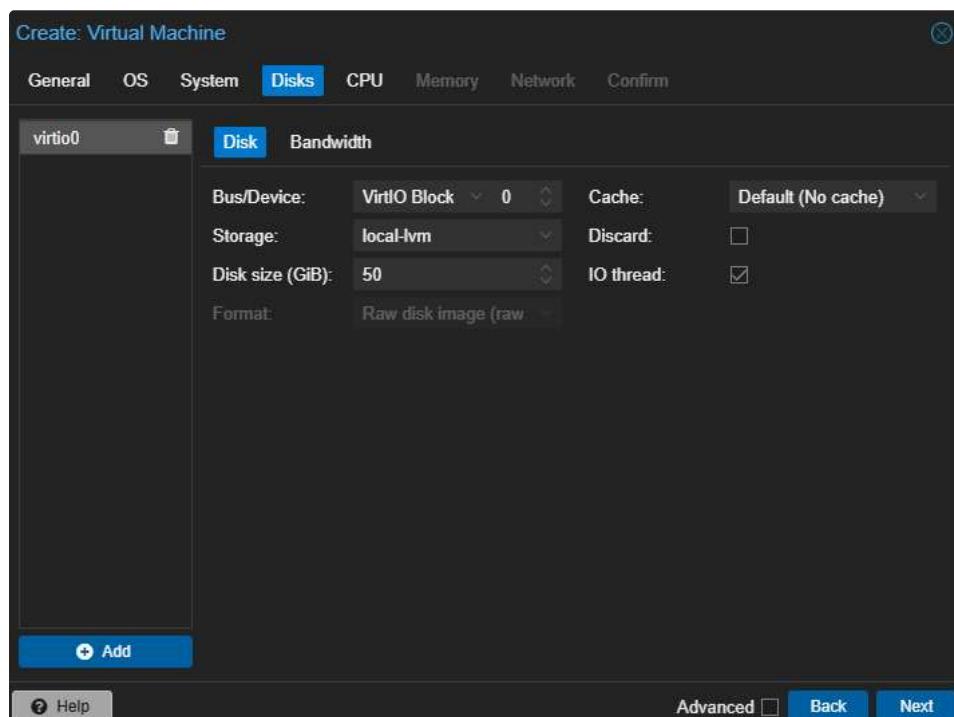
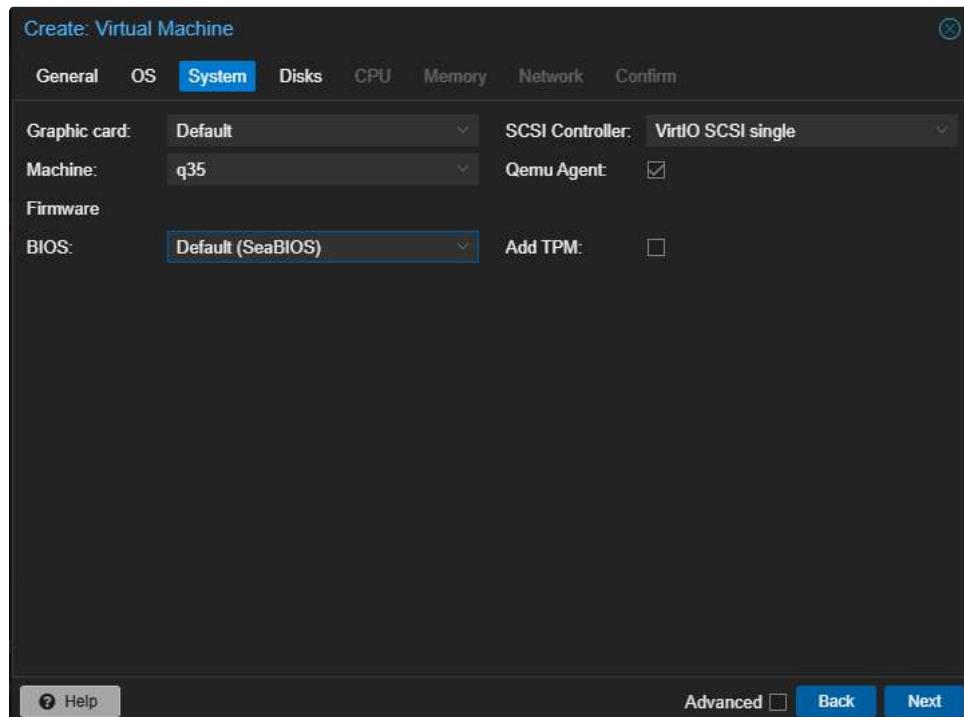
General OS System Disks CPU Memory Network Confirm

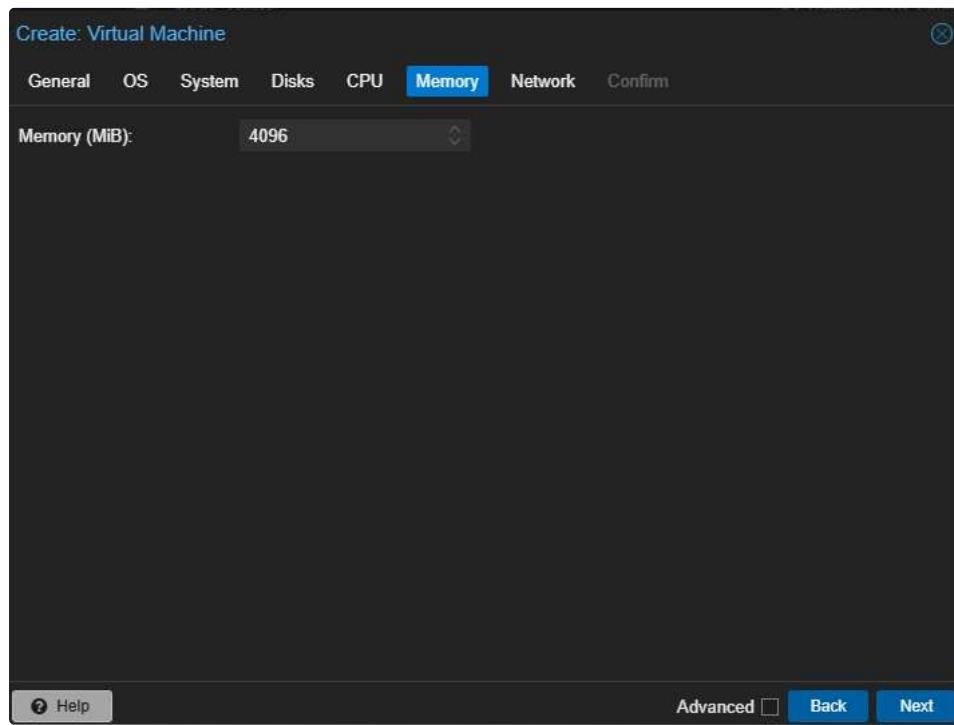
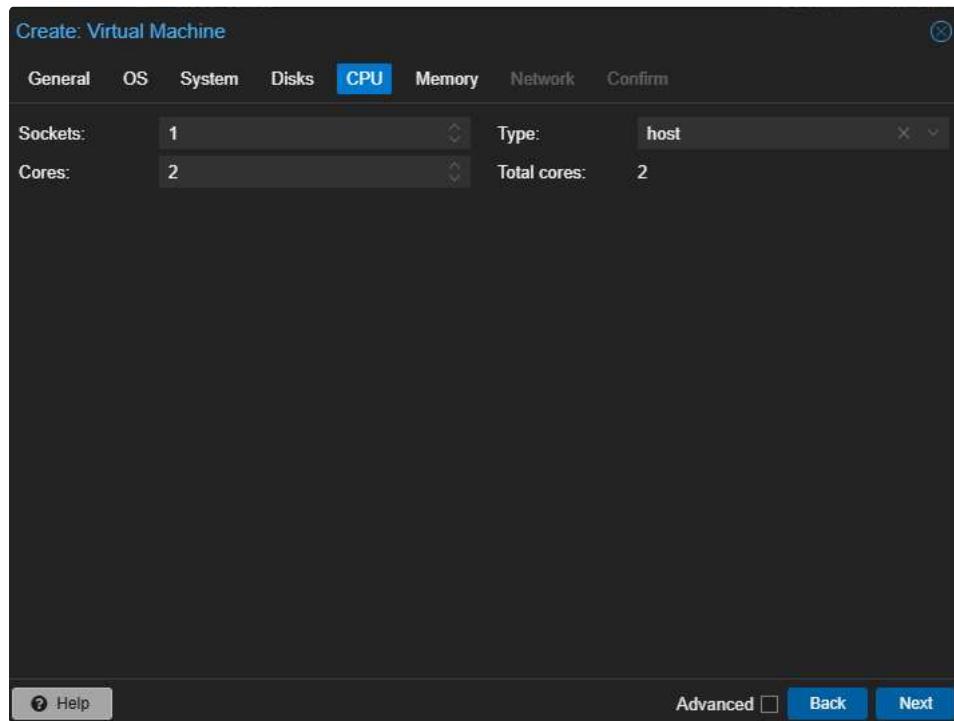
Graphic card: Default SCSI Controller: VirtIO SCSI single
Machine: q35 Qemu Agent:

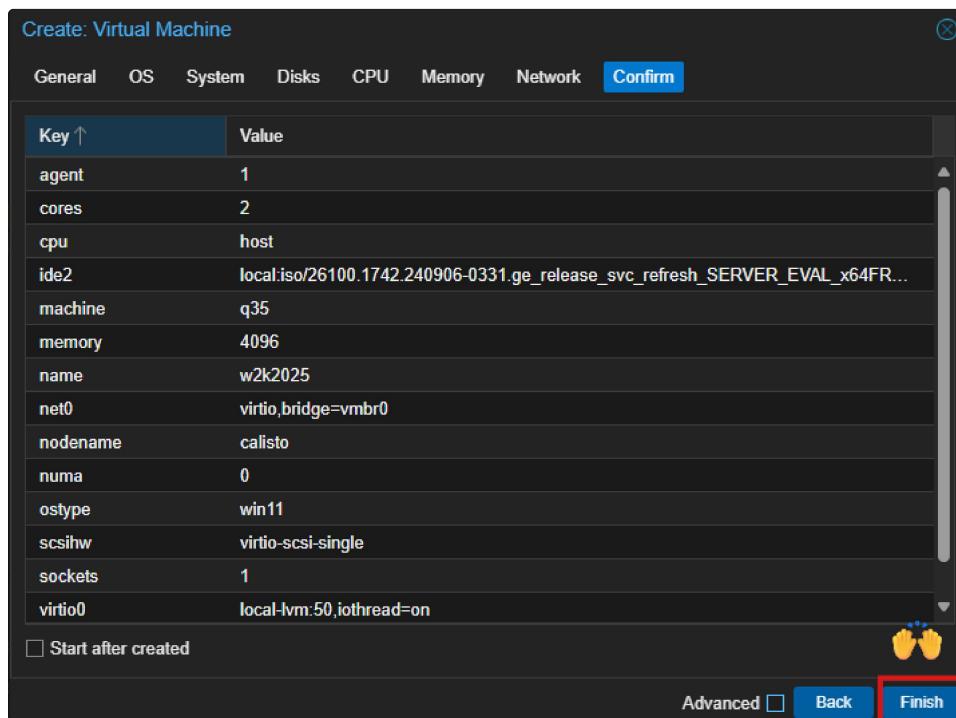
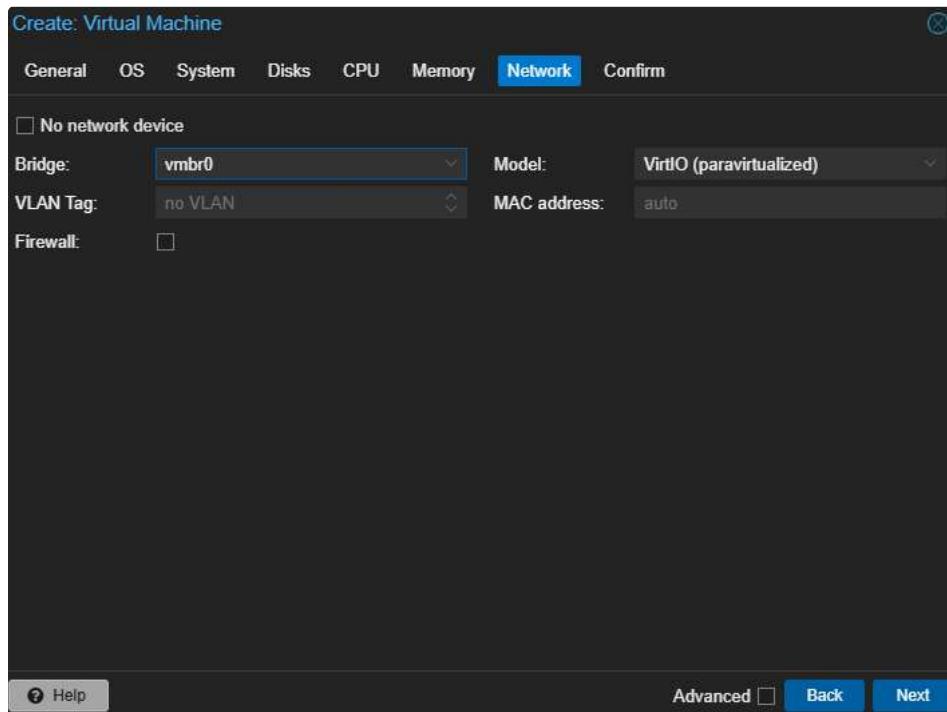
Firmware

BIOS: OVMF (UEFI) Add TPM:
Add EFI Disk: TPM Storage: local-lvm
EFI Storage: local-lvm Version: v2.0
Format: Raw disk image (raw)
Pre-Enroll keys:

Help Advanced Back Next







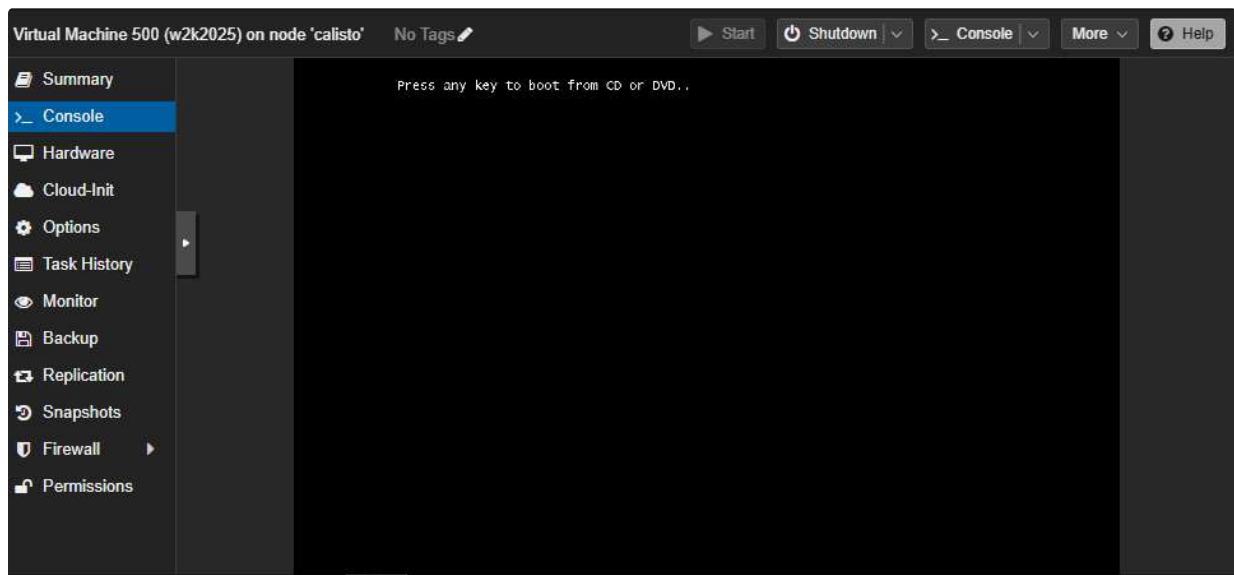
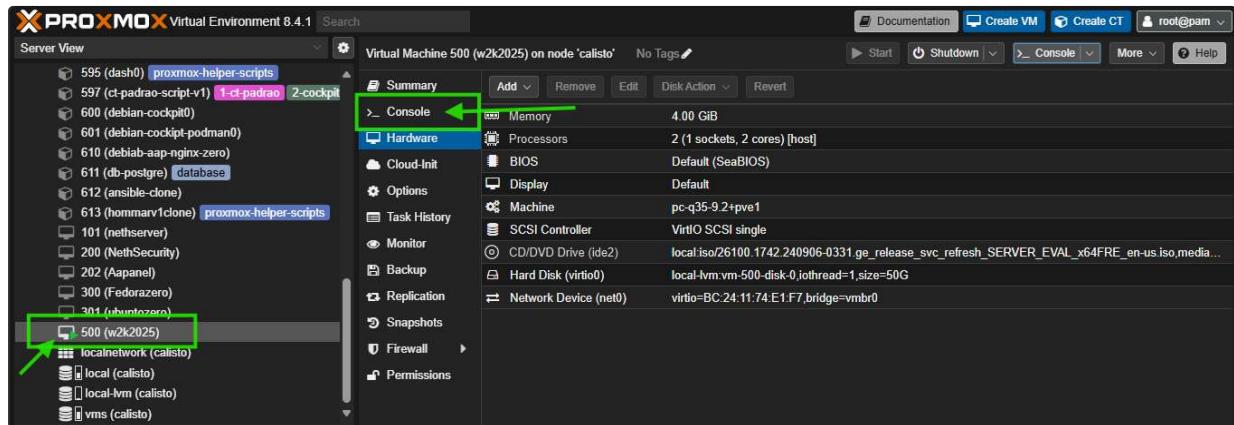
Iniciando a vm

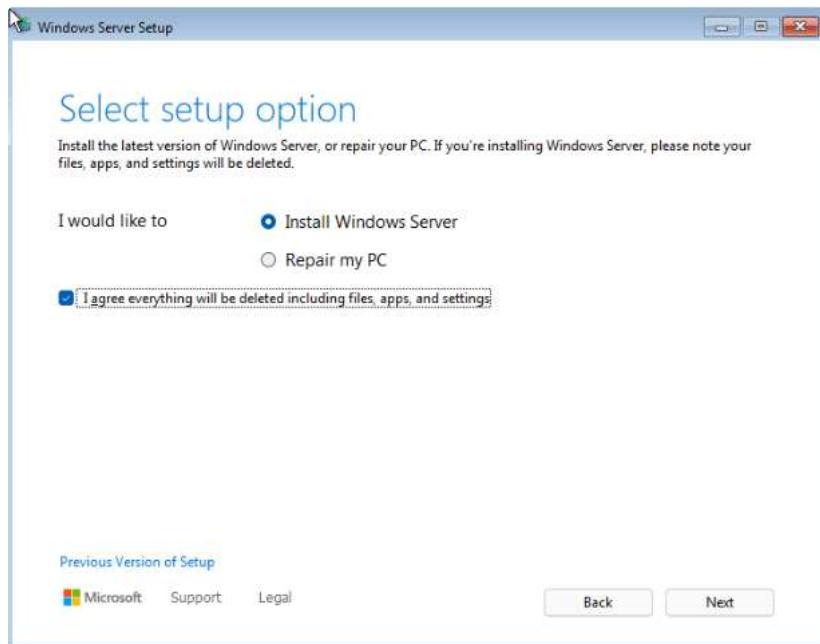
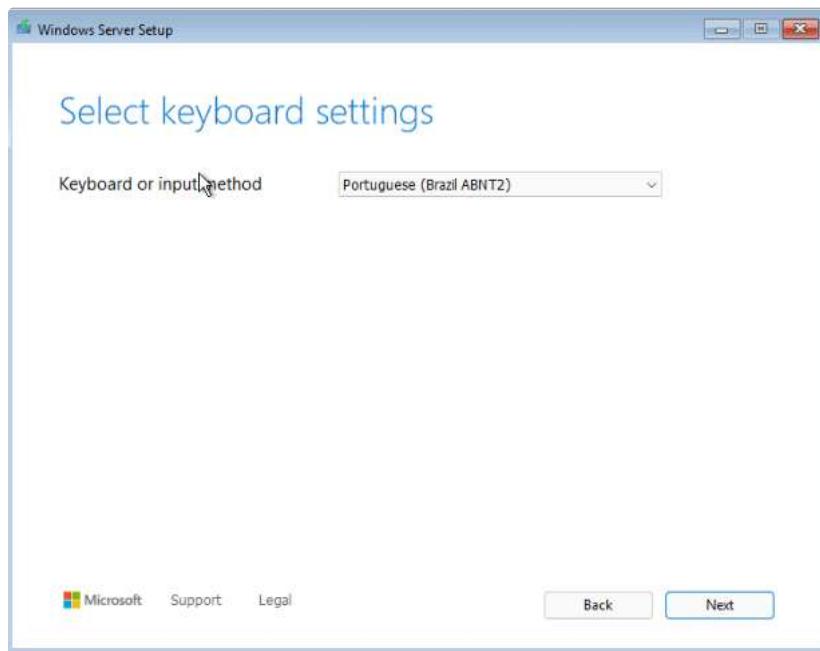
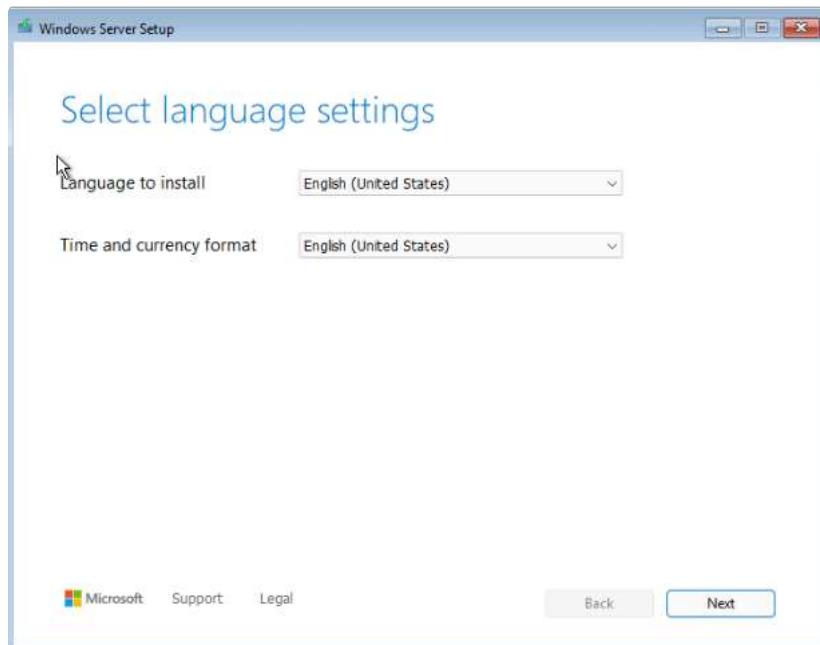
Virtual Machine 500 (w2k2025) on node 'calisto' No Tags

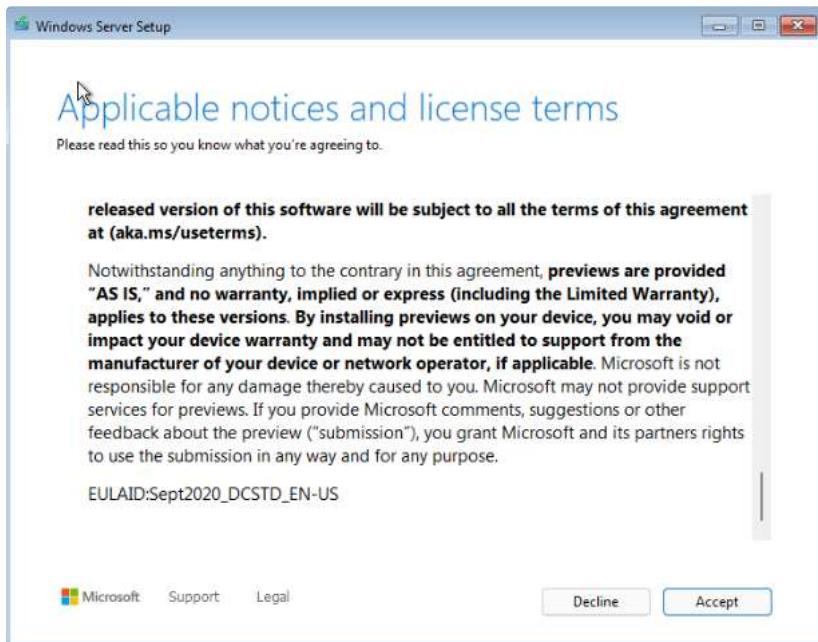
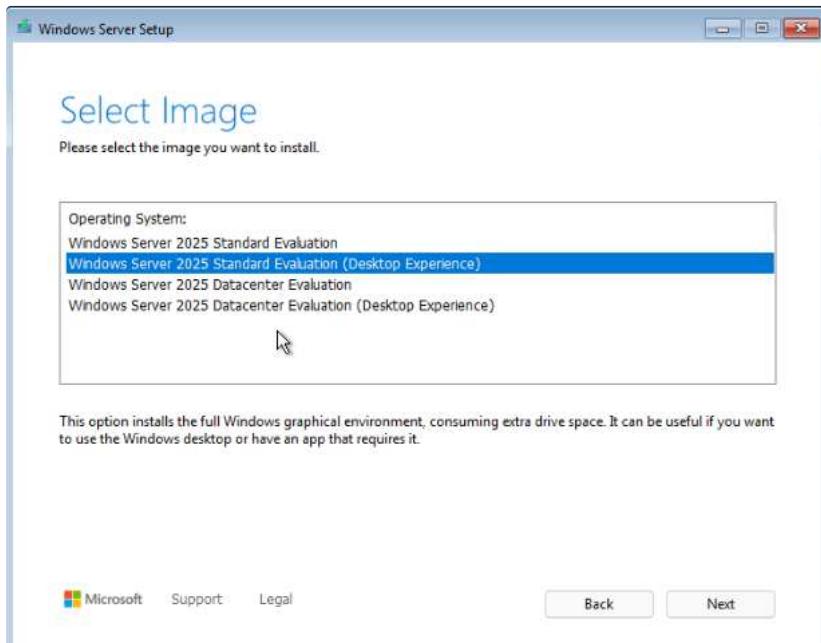
Summary Add Remove Edit Disk Action Revert

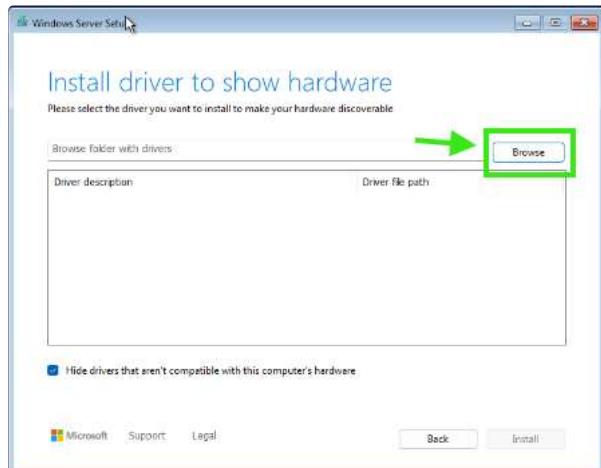
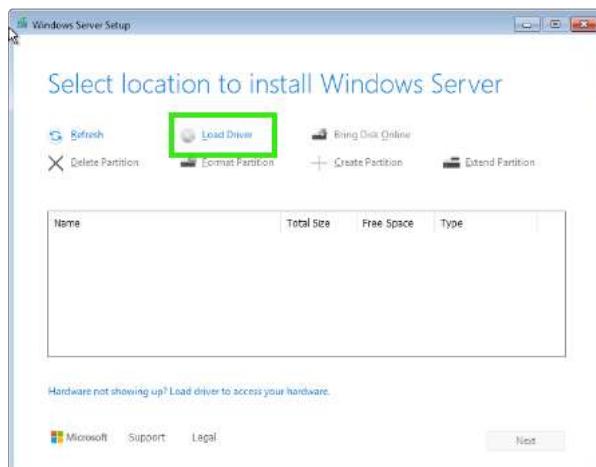
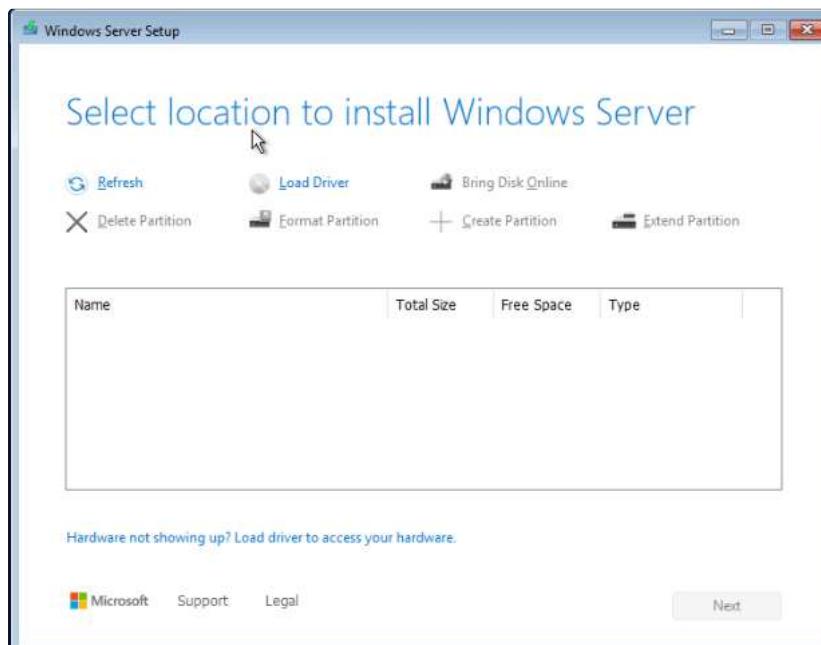
Hardware Memory 4.00 GiB
Processors 2 (1 sockets, 2 cores) [host]
BIOS Default (SeaBIOS)
Display Default
Machine pc-q35-9.2+pve1
SCSI Controller VirtIO SCSI single
CD/DVD Drive (ide2) local:iso/26100.1742.240906-0331.ge_release_svc_refresh_SERVER_EVAL_x64FR_en-us.iso
Hard Disk (virtio0) local-lvm:vm-500-disk-0,iothread=1,size=50G
Network Device (net0) virtio=BC:24:11:74:E1:F7,bridge=vmbr0

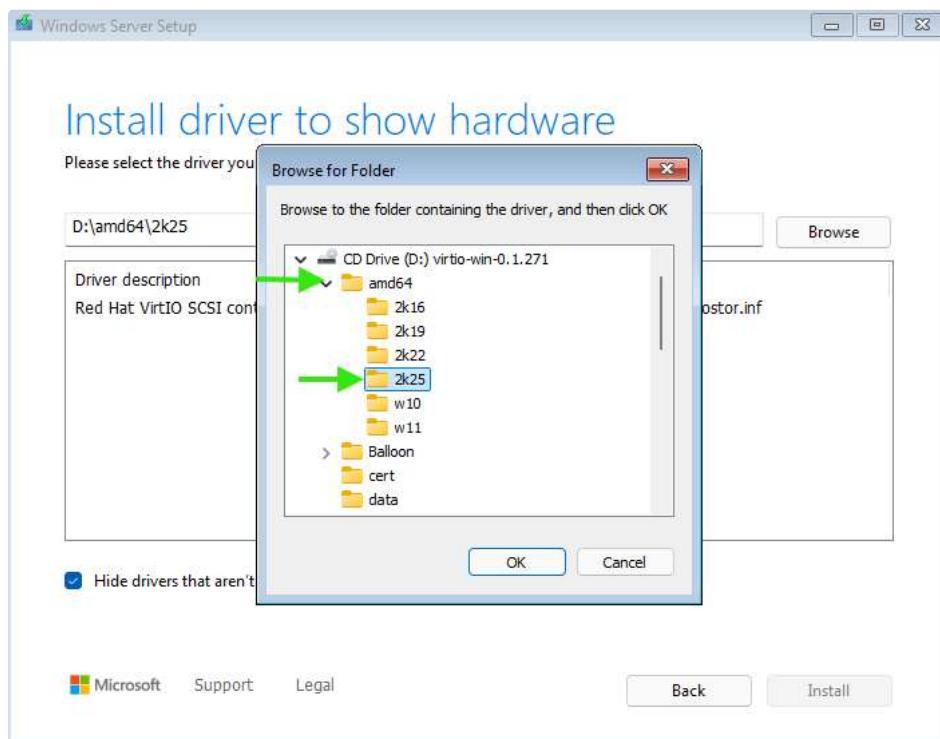
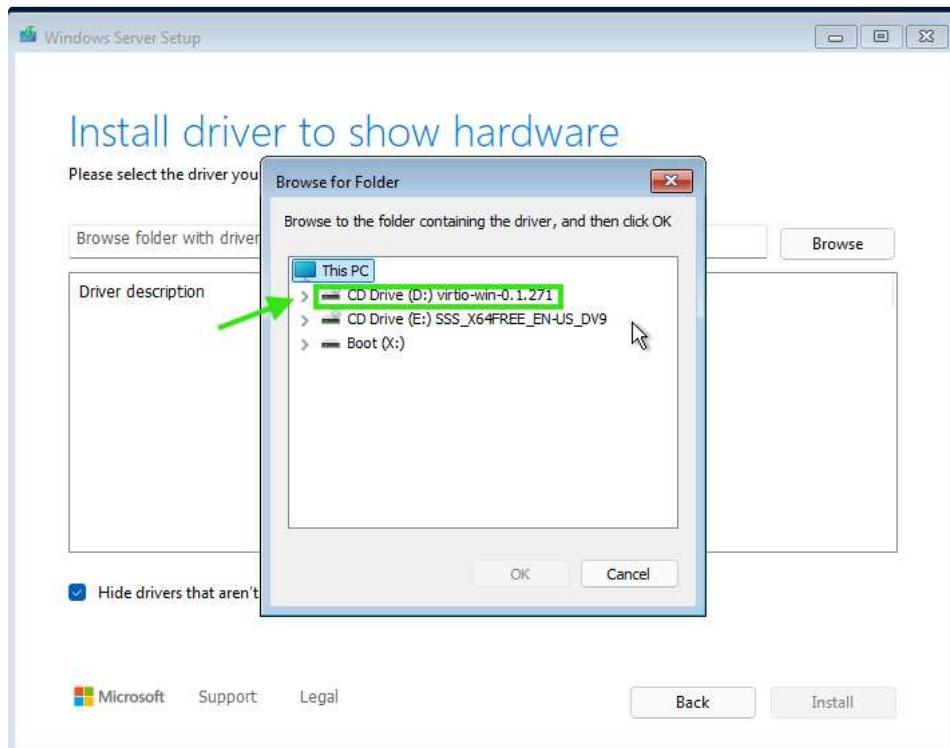
Start

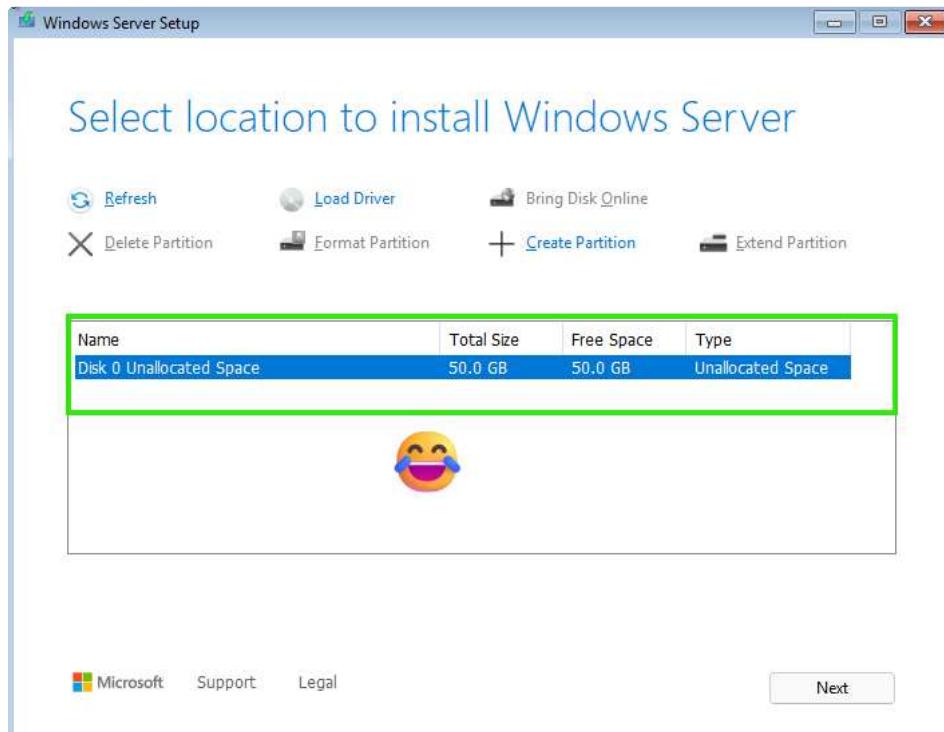
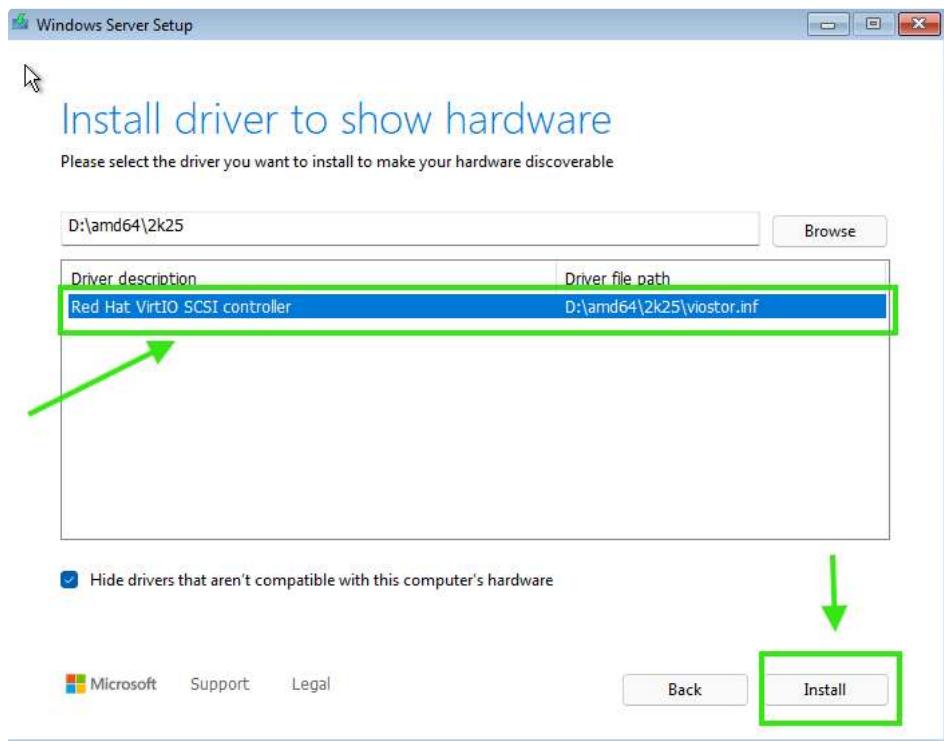


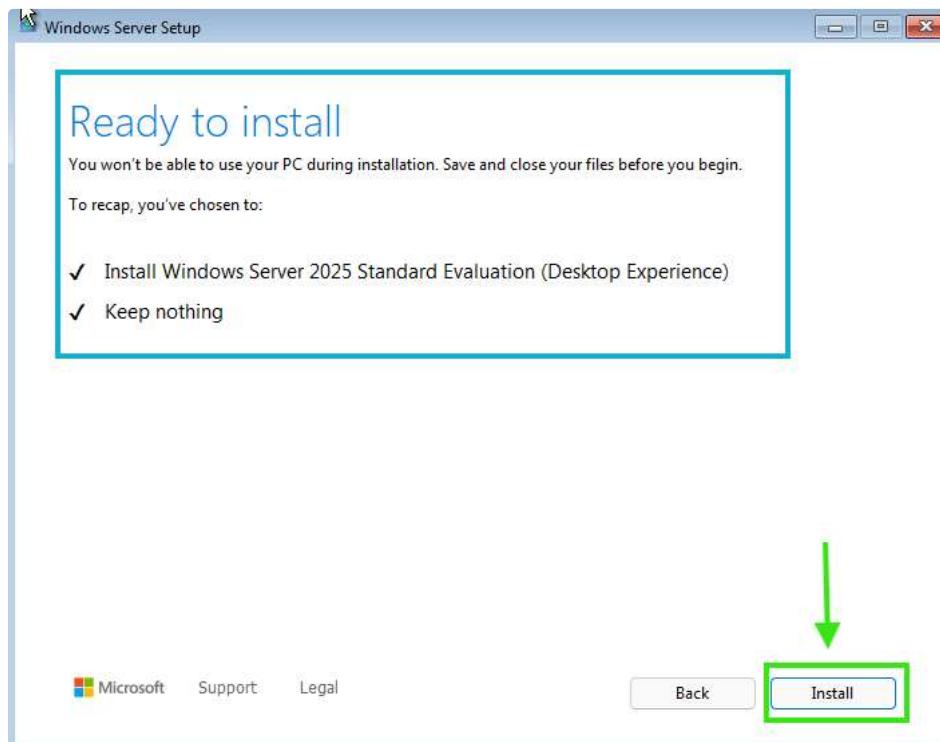
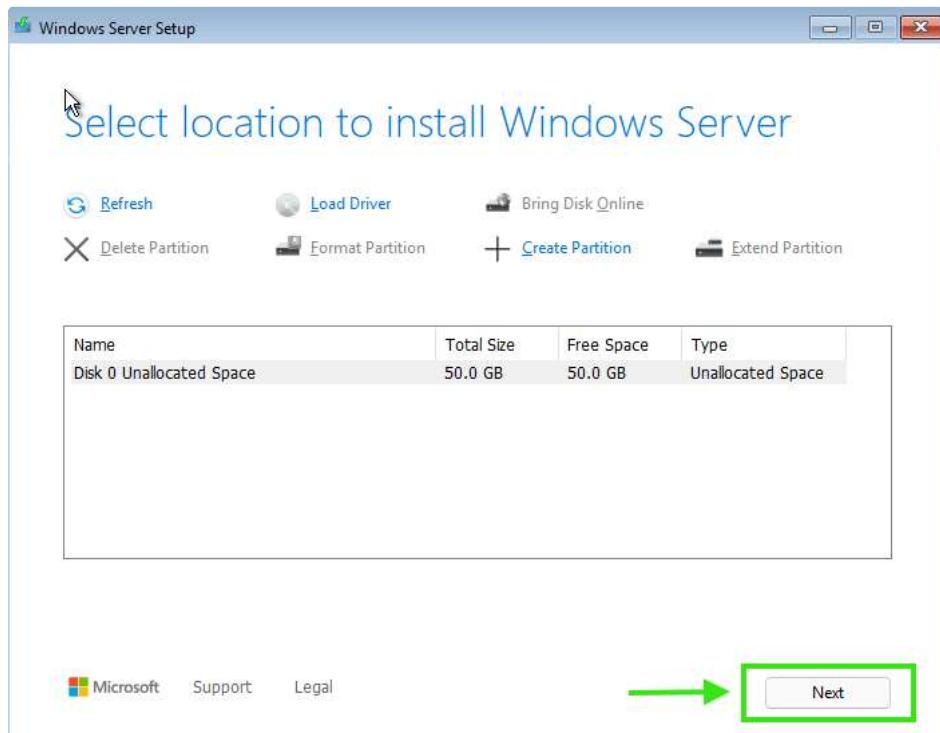














Installing 0%

Please keep your computer on.

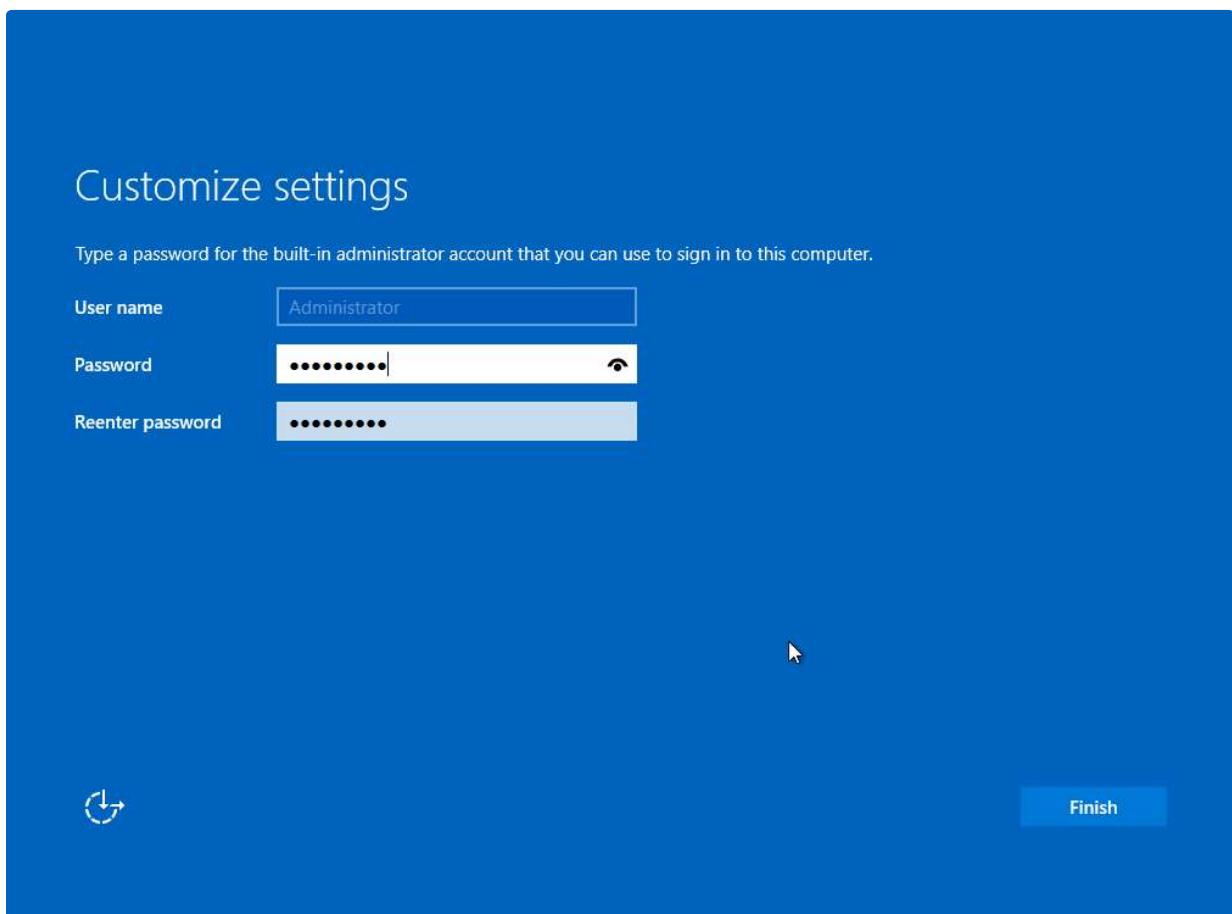
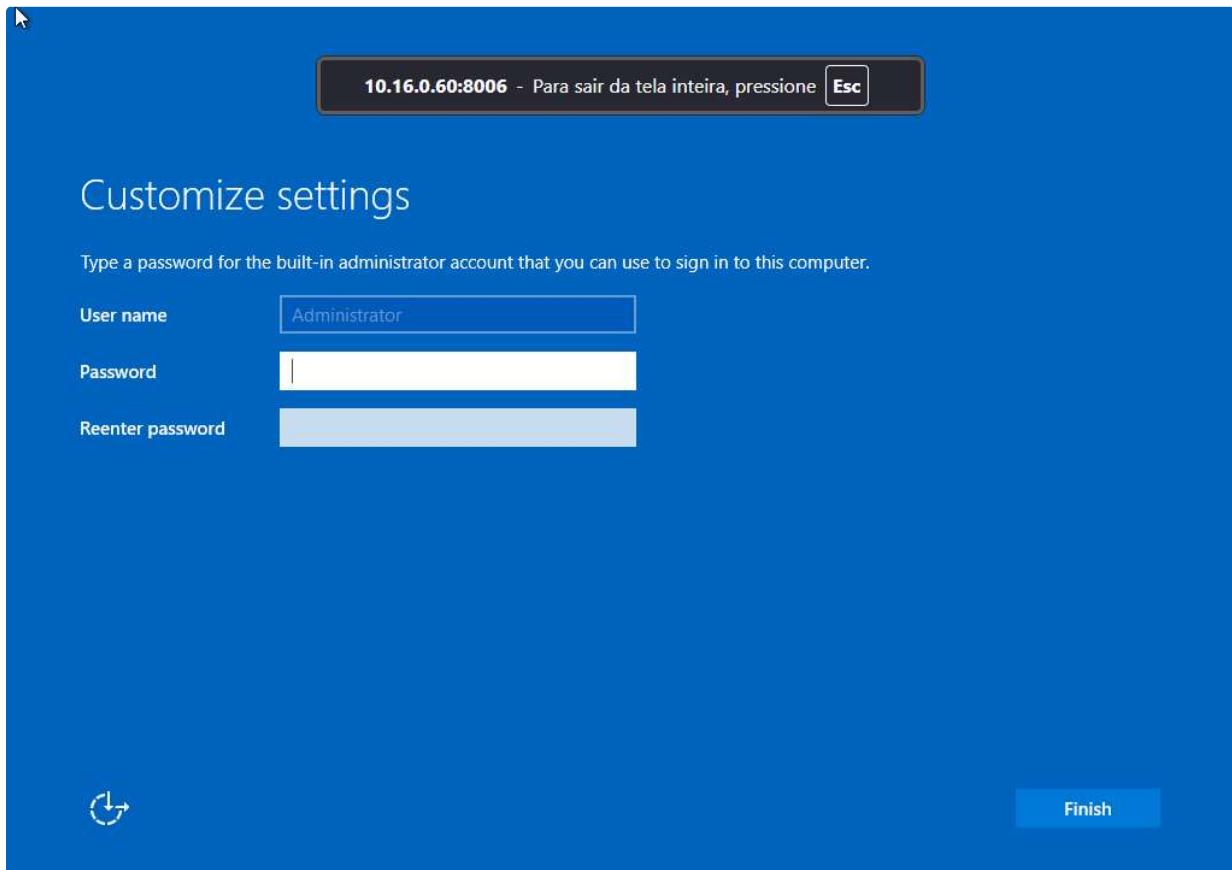
Your computer may restart a few times.

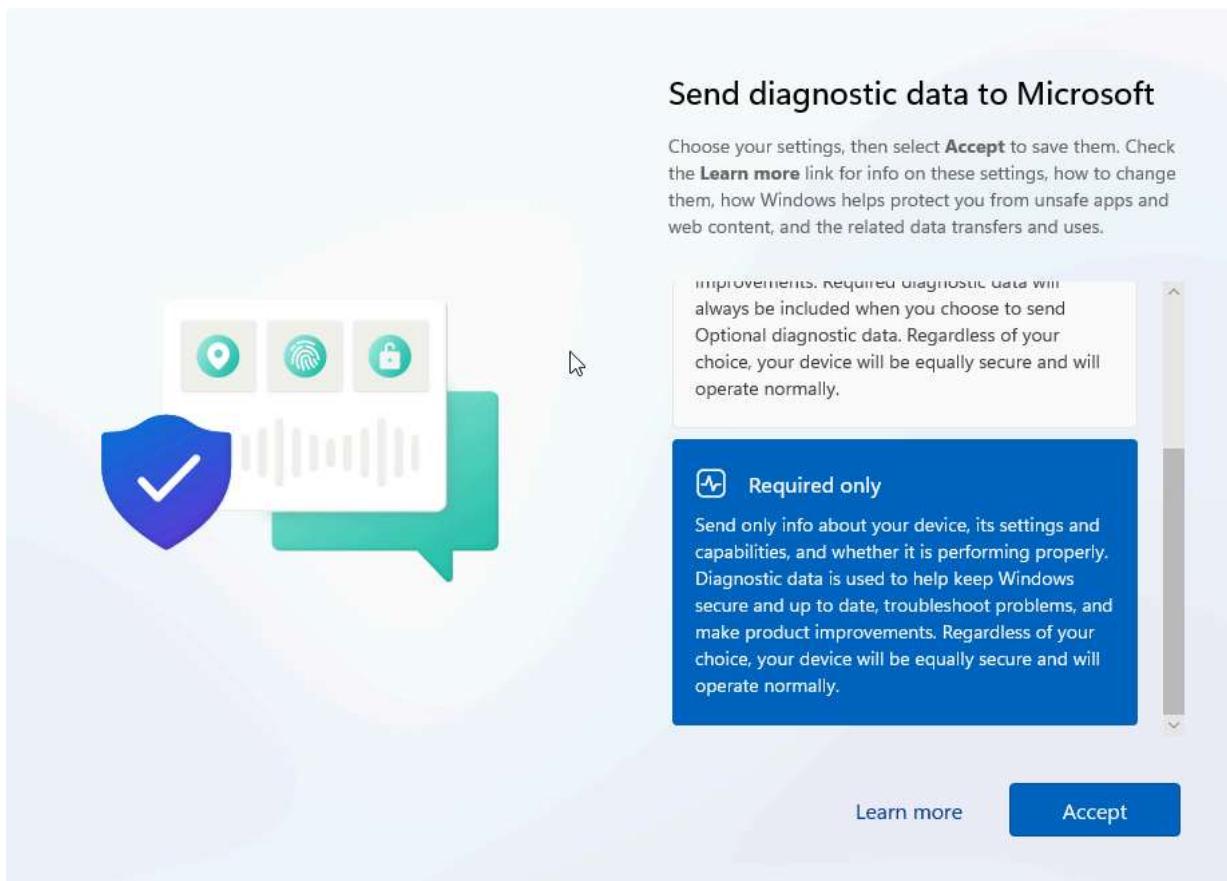
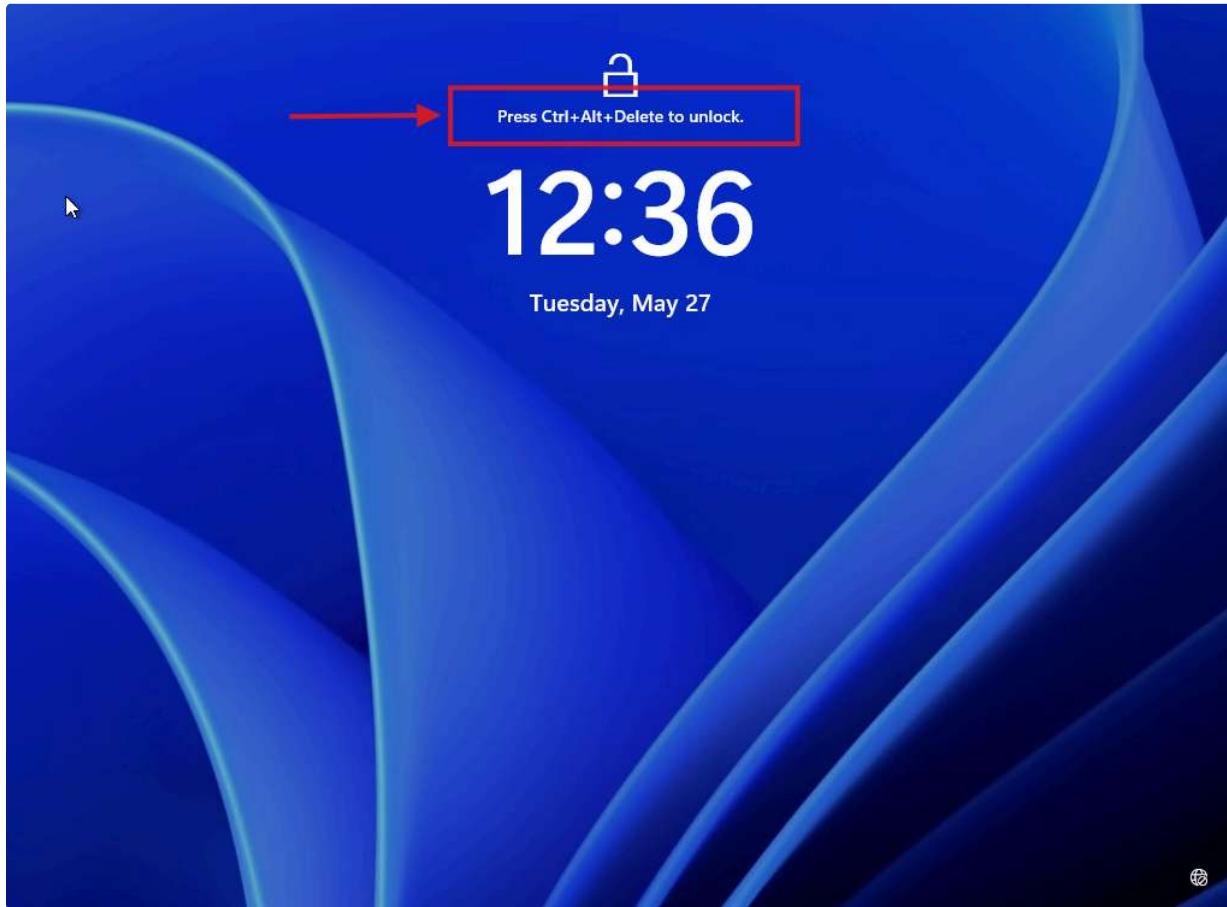


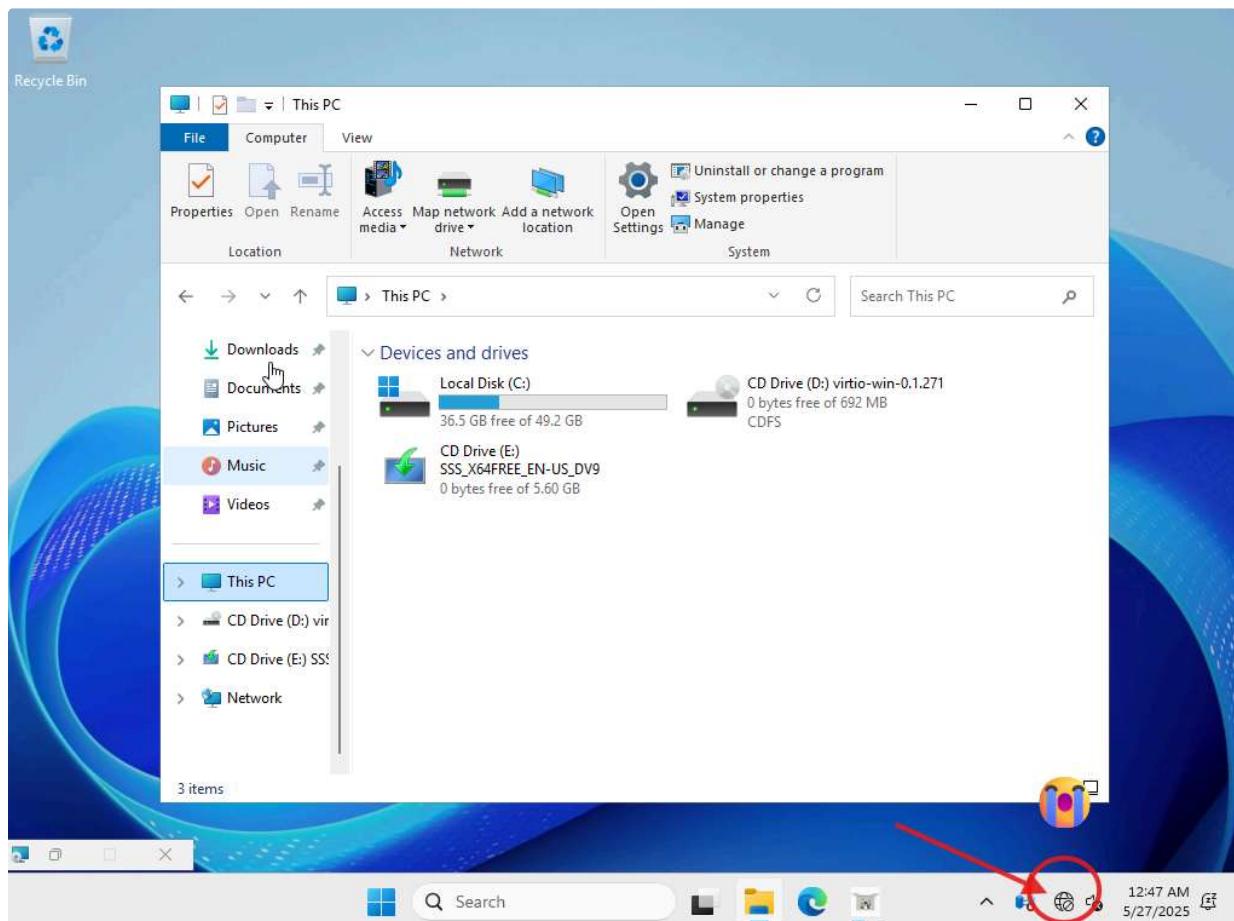
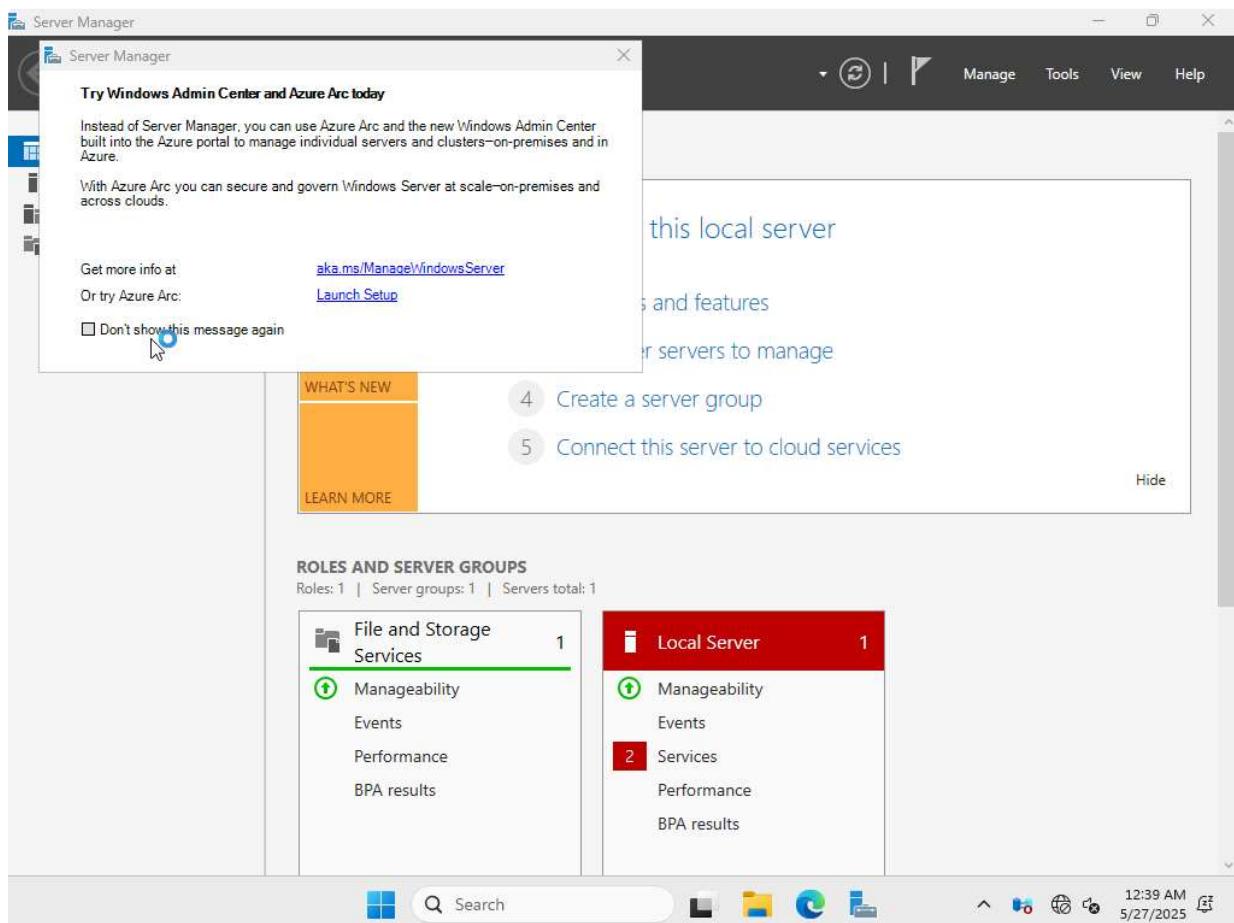
Installing 94%

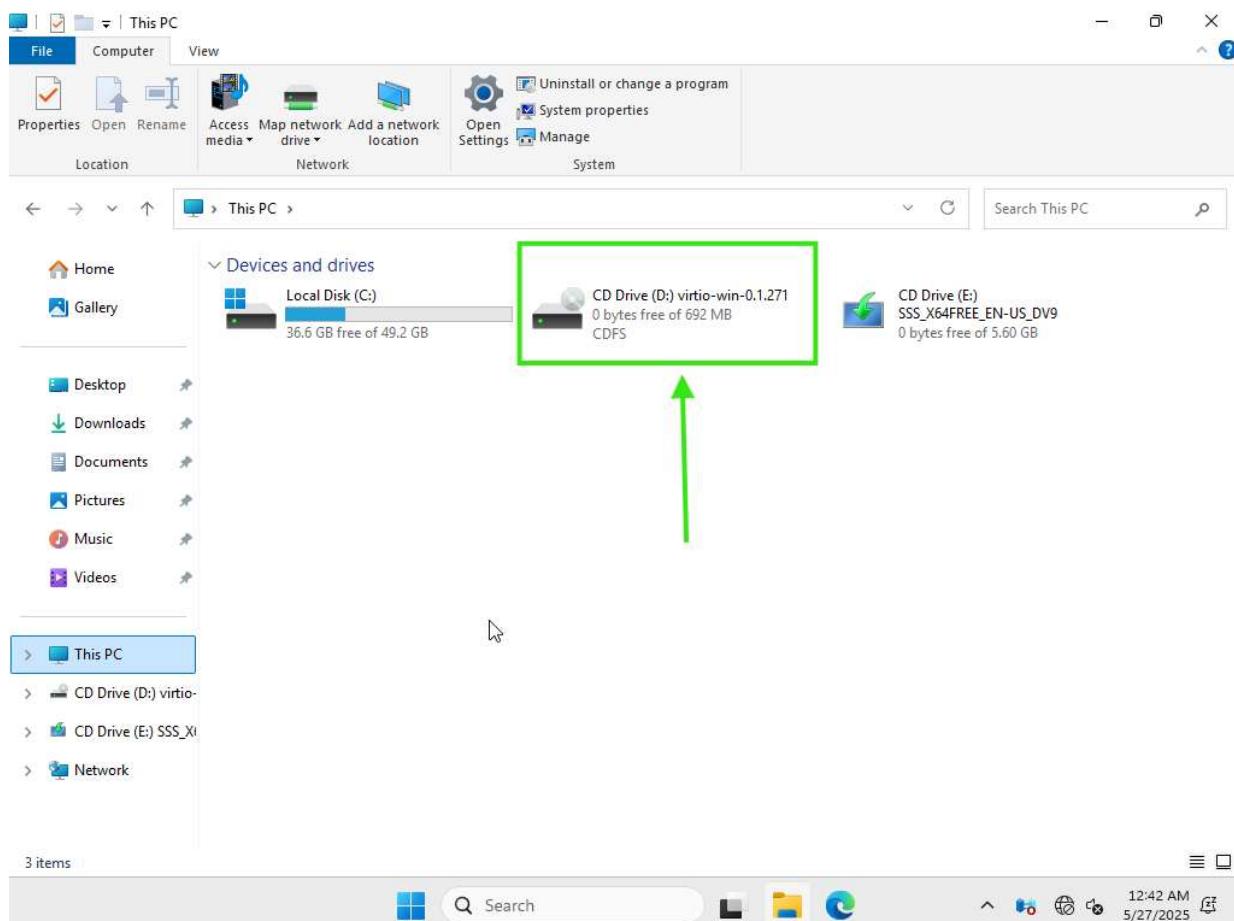
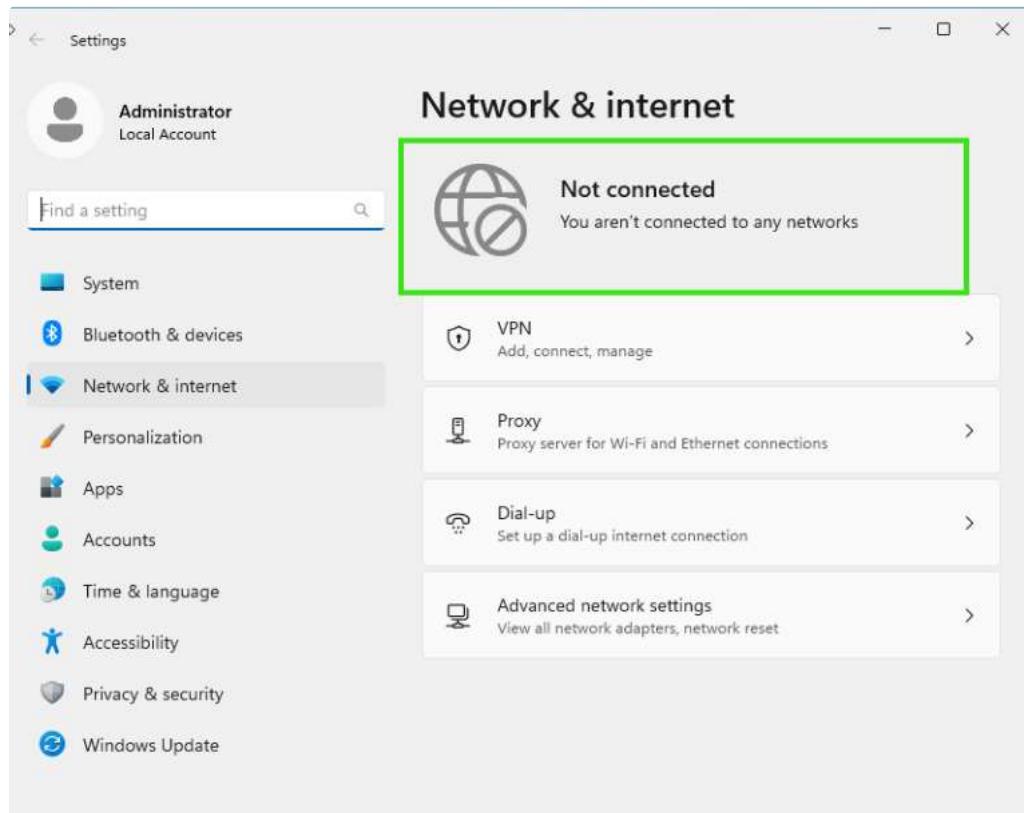
Please keep your computer on.

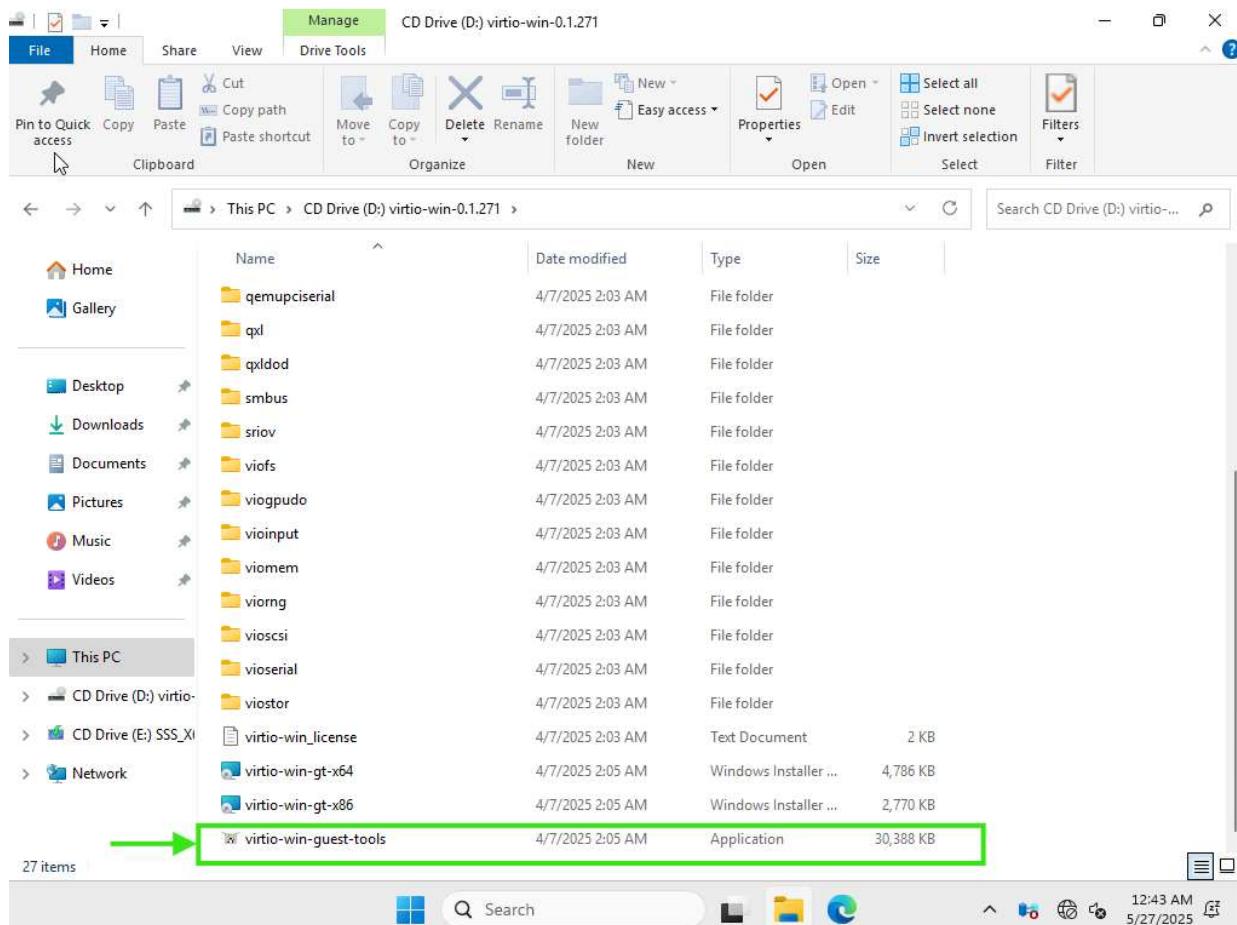
Your computer may restart a few times.

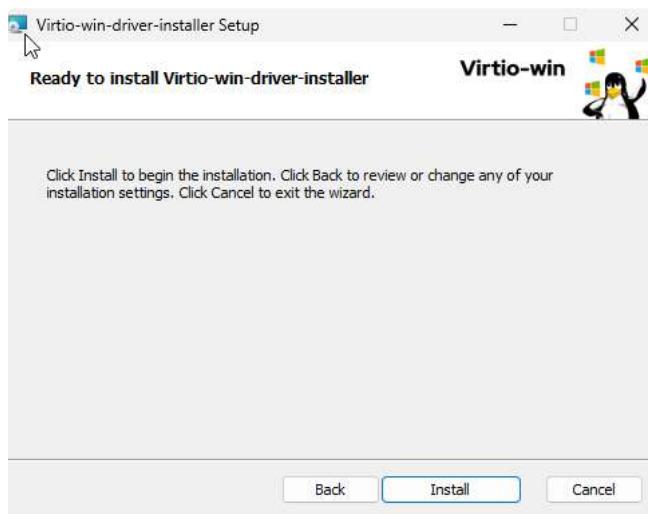
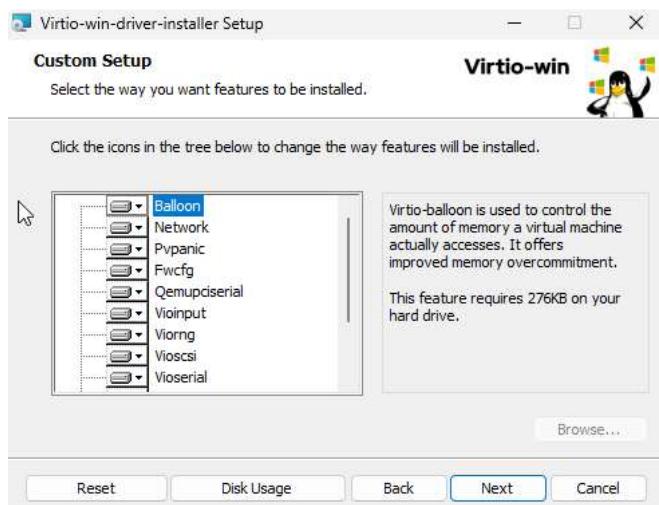
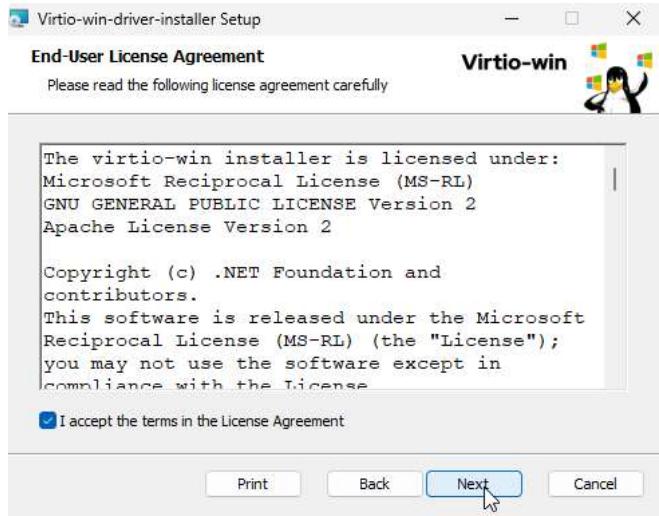


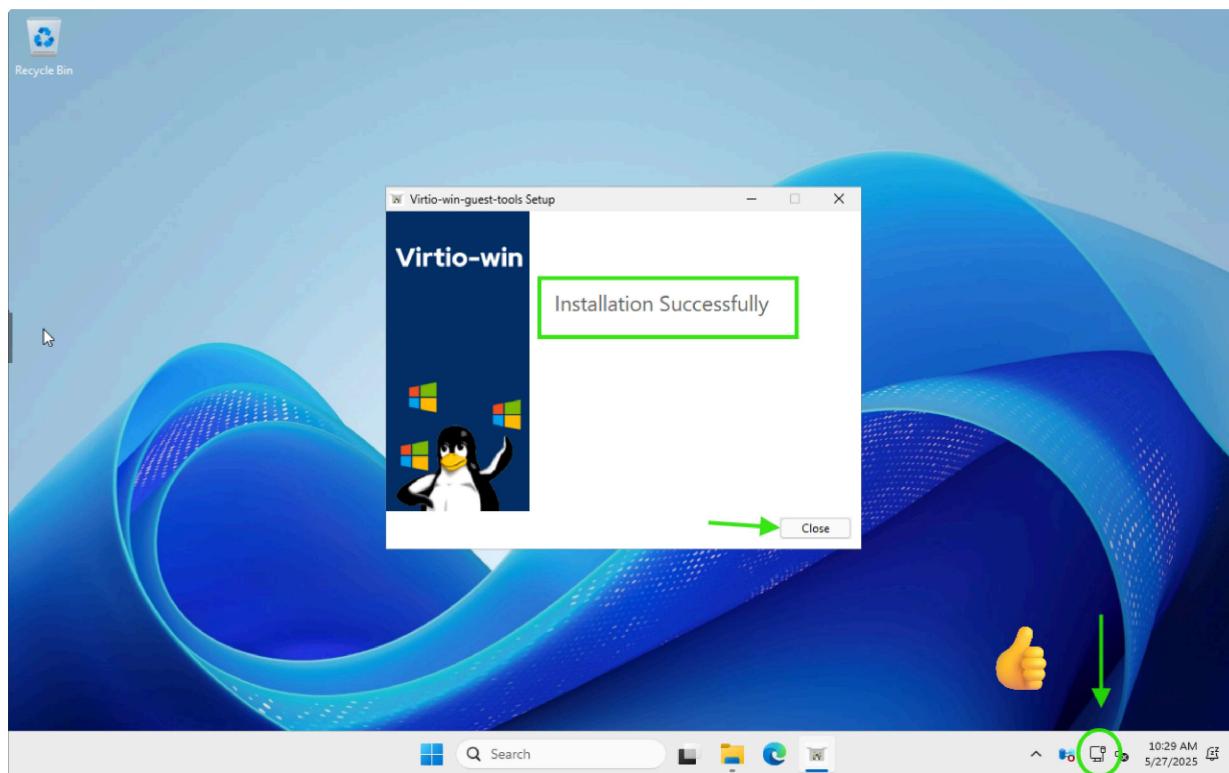
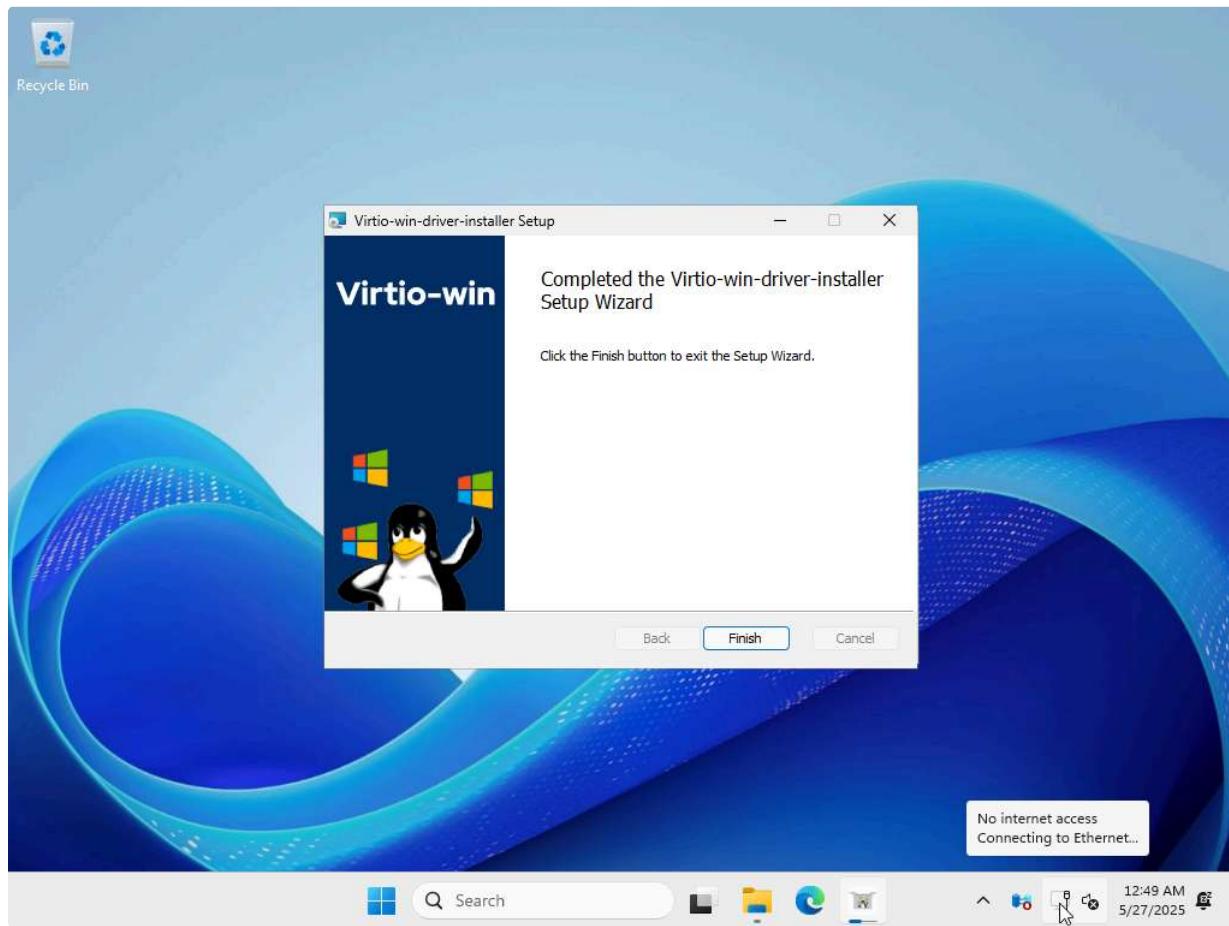


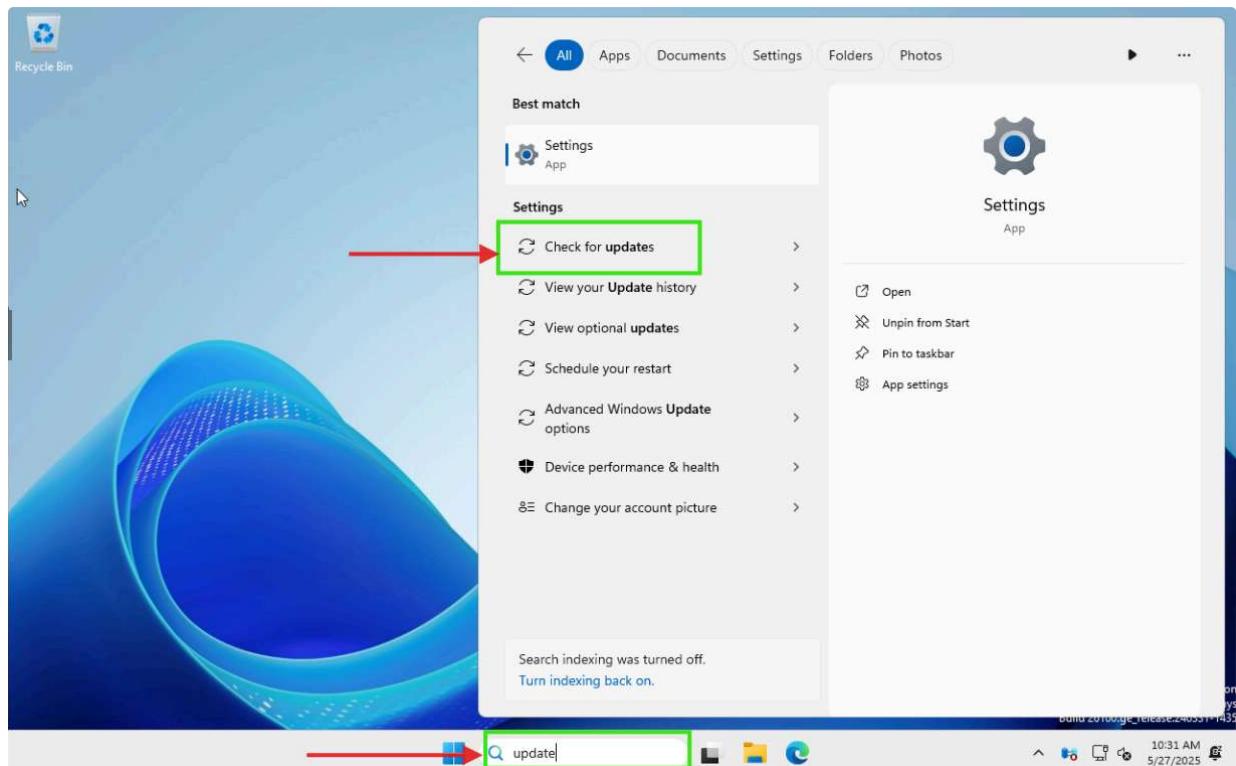
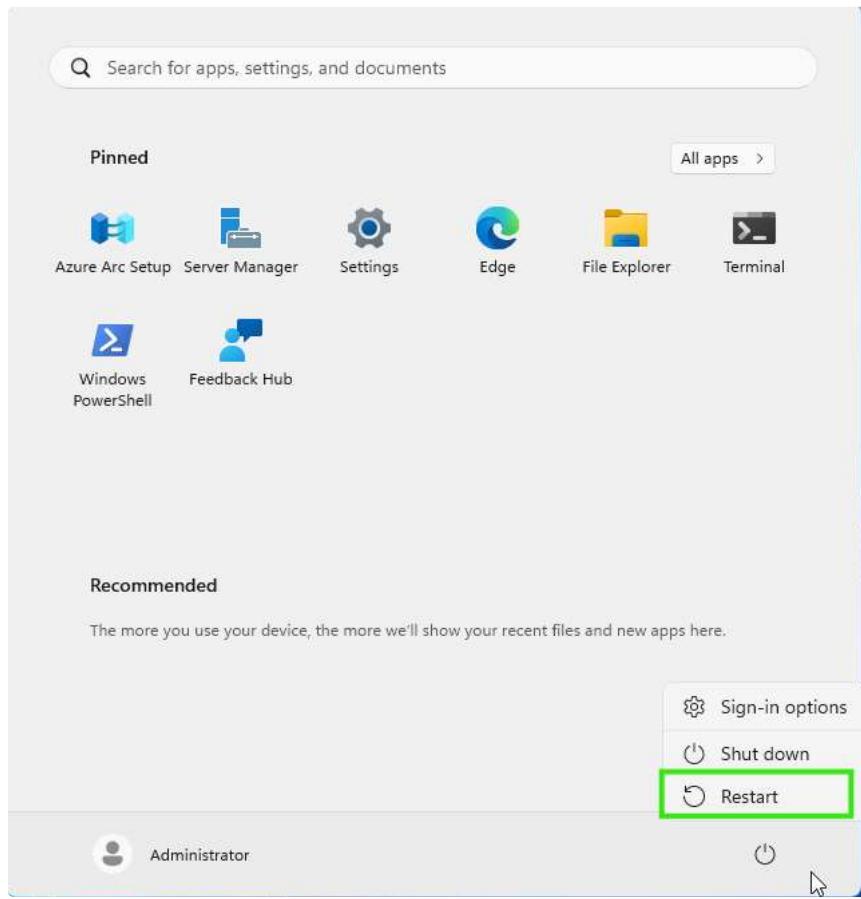


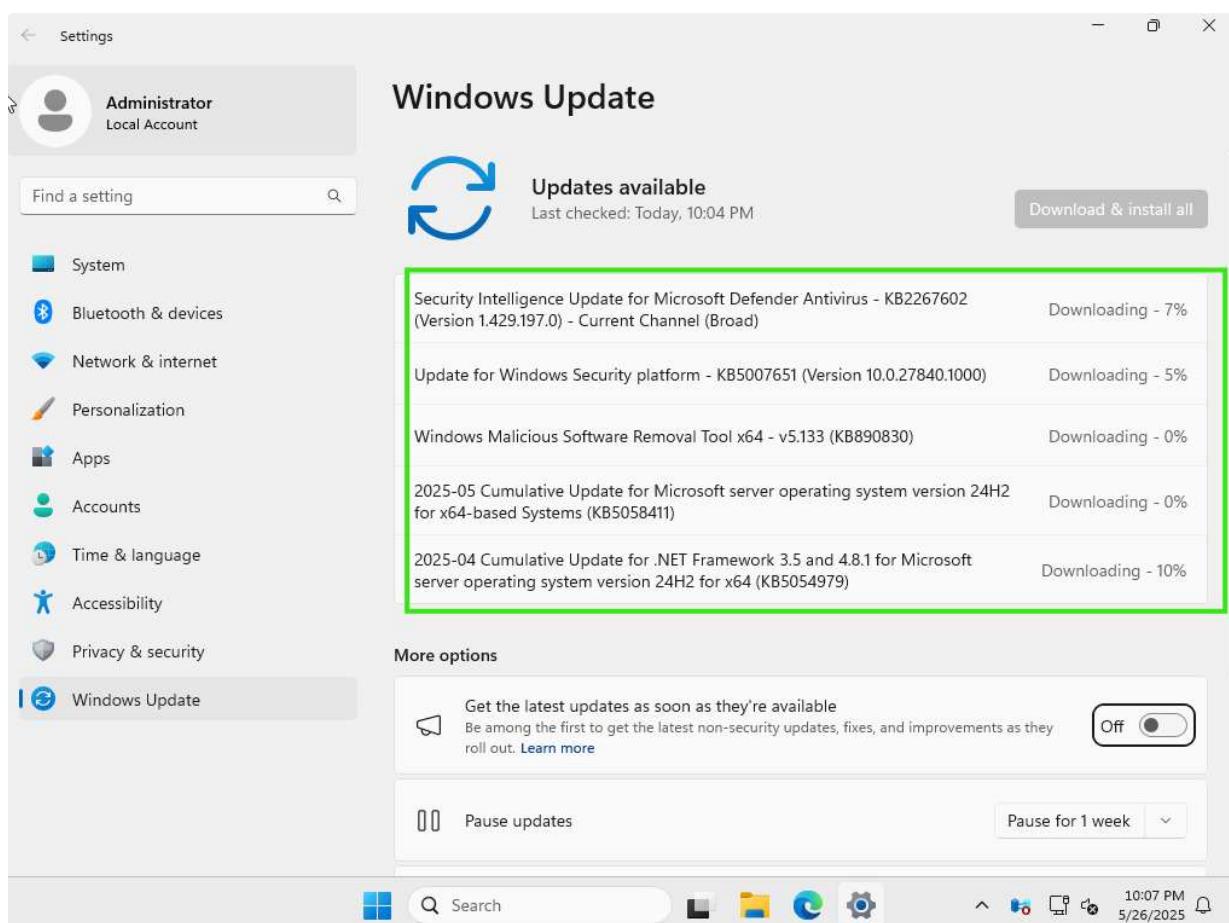
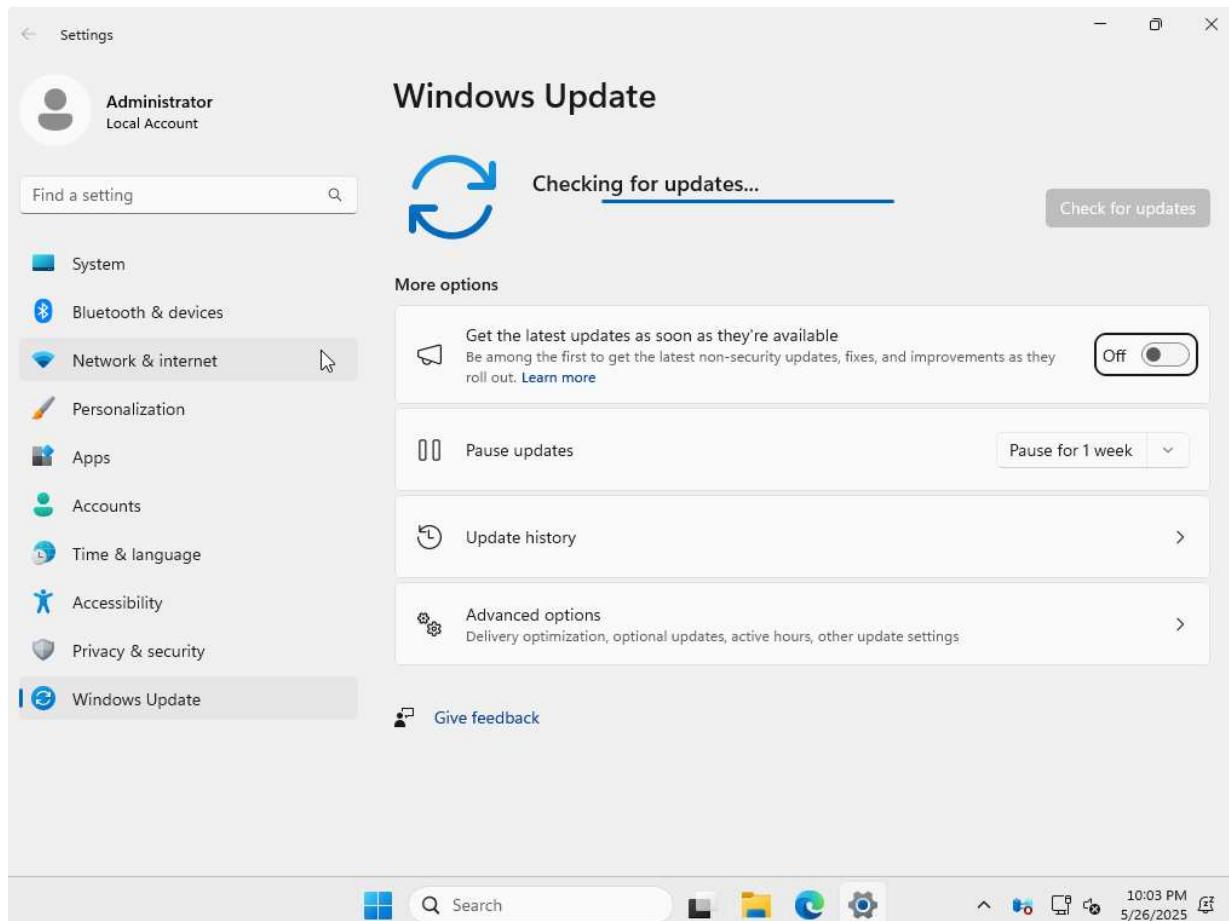


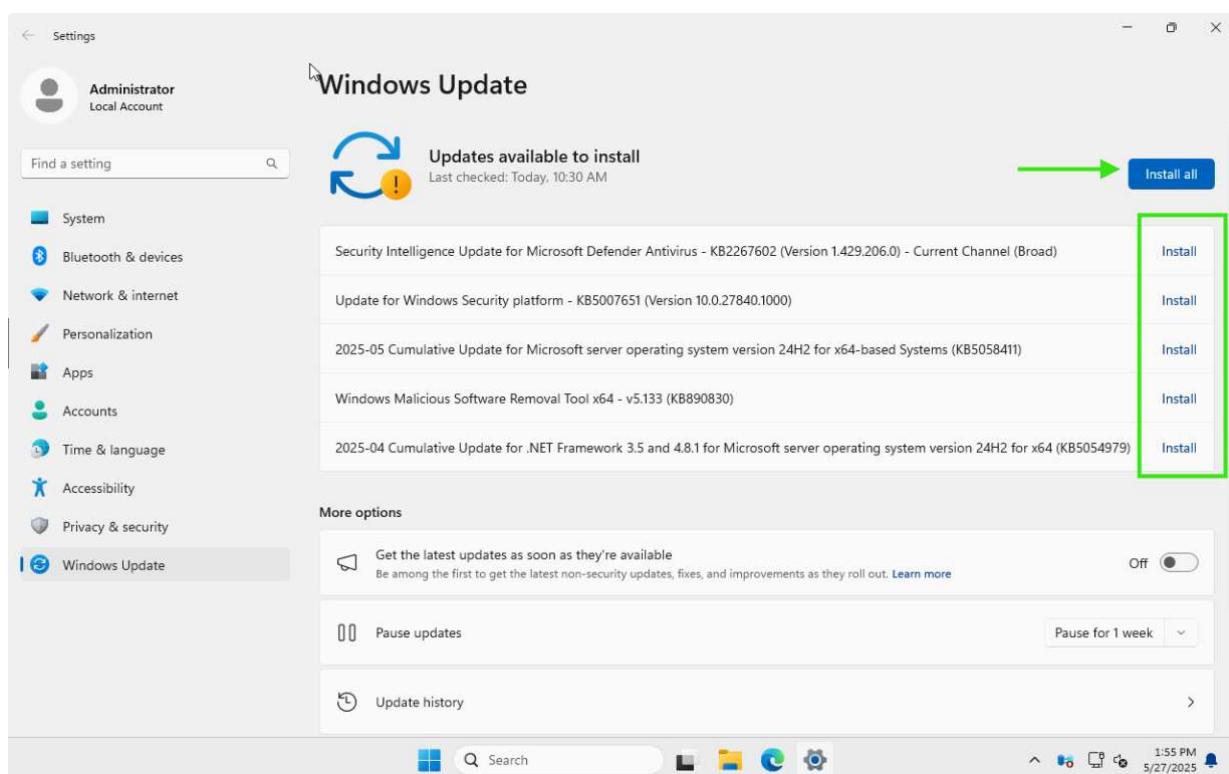
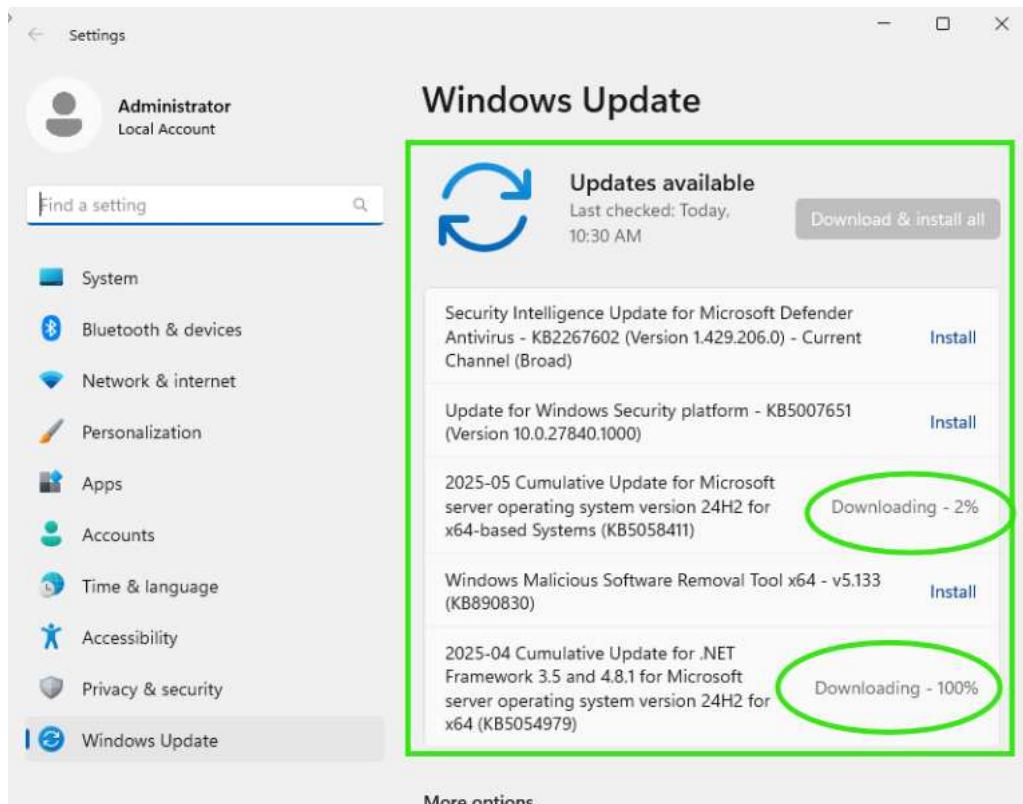


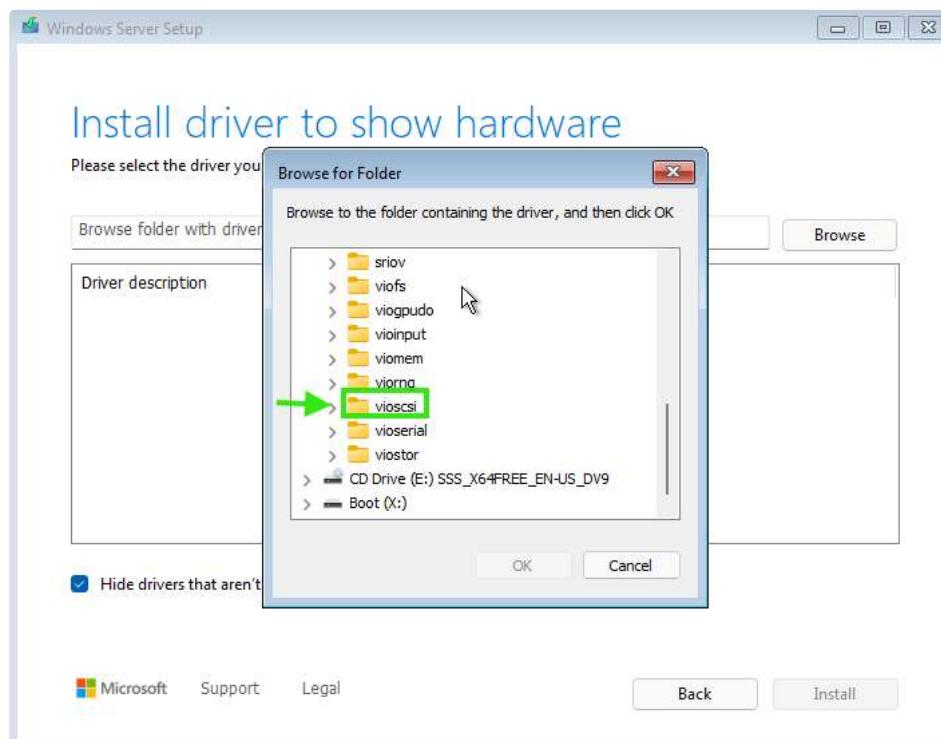
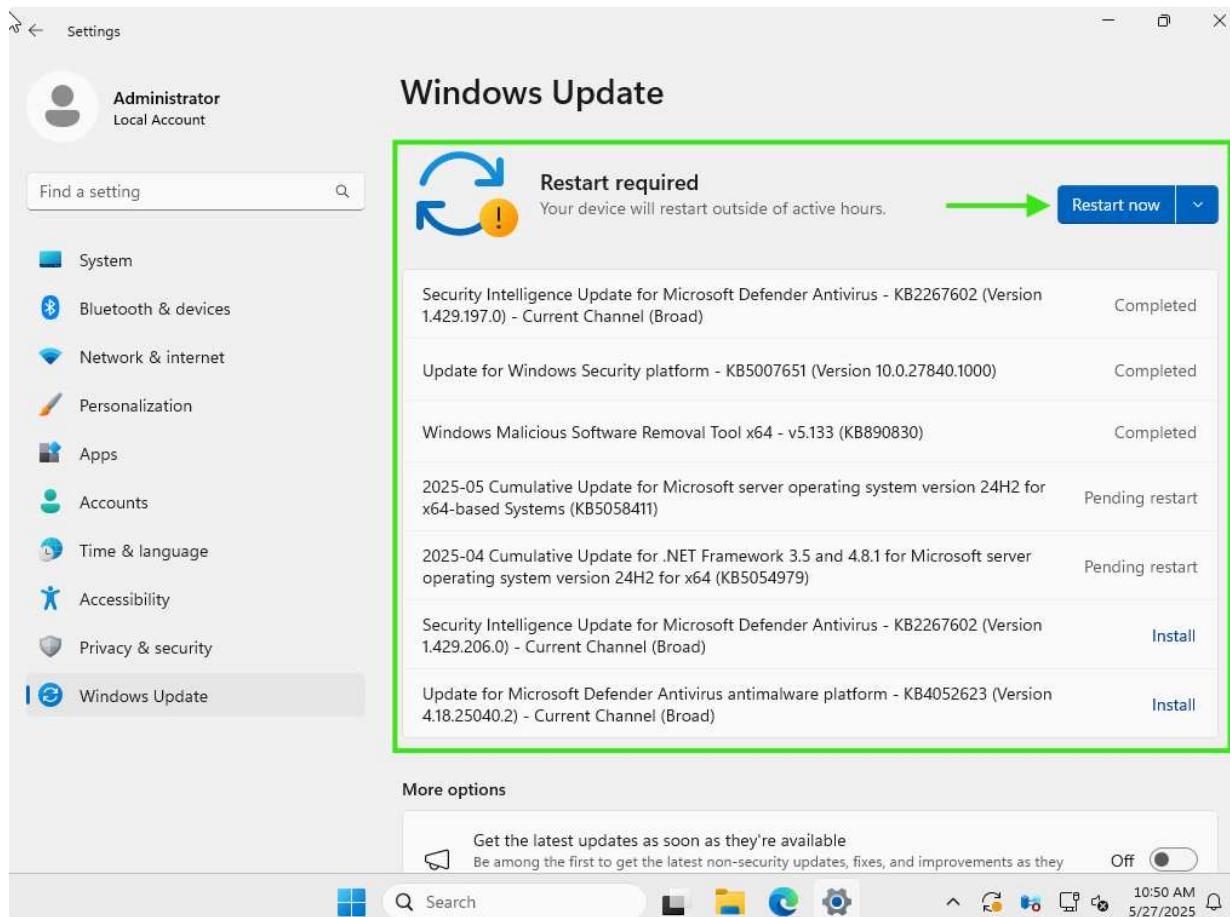


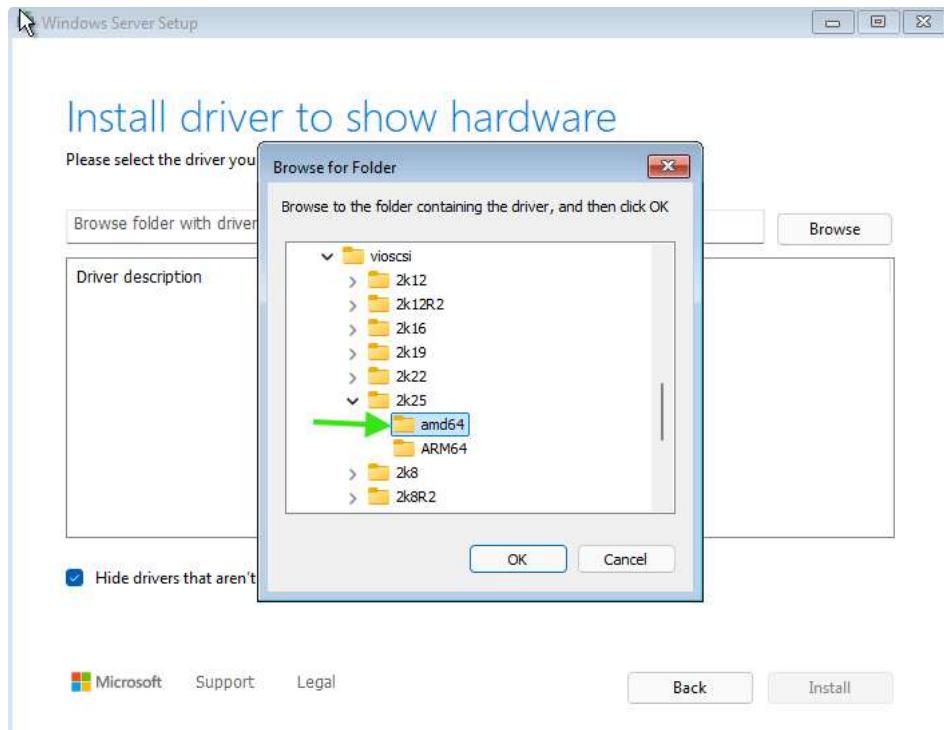
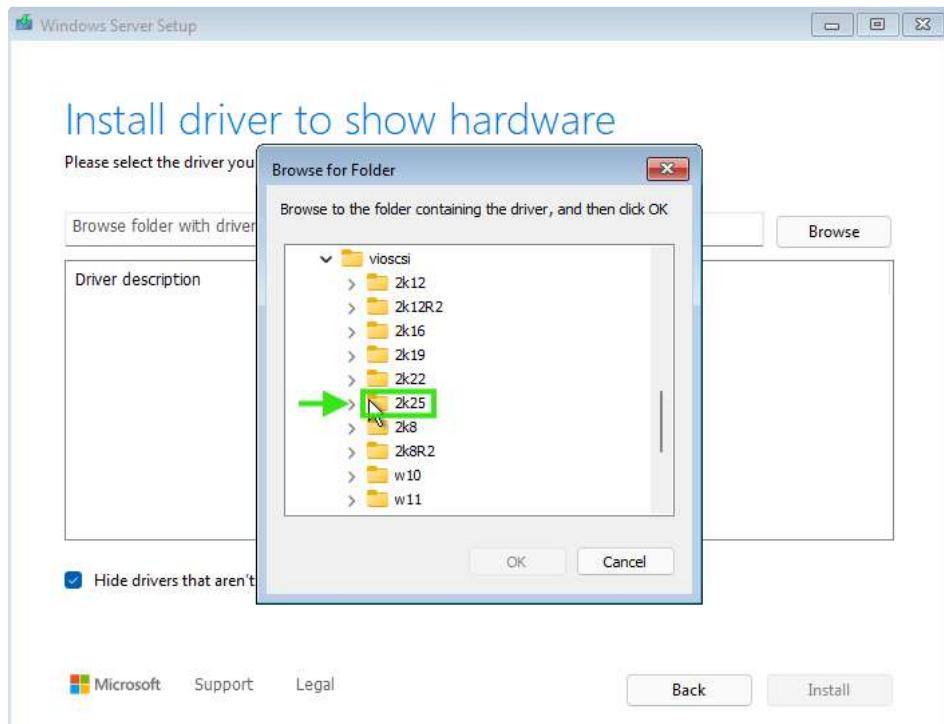












Drivers virtuio

 Windows VirtIO Drivers - Proxmox VE

https://pve.proxmox.com/wiki/Windows_VirtIO_Drivers

Installation

Using the ISO

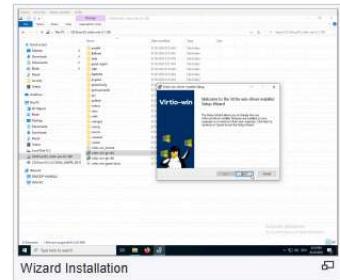
You can download the latest stable [build](#) or you can download the most recent [build](#) of the ISO. Normally the drivers are pretty stable, so one should try out the most recent release first.

You can access the ISO in a VM by mounting the ISO with a virtual CD-ROM/DVD drive on that VM.

Wizard Installation

You can use an easy wizard to install all, or a selection, of VirtIO drivers.

1. Open the Windows Explorer and navigate to the CD-ROM drive.
2. Simply execute (double-click on) **virtio-win-gt-x64**
3. Follow its instructions.
4. (Optional) use the **virtio-win-guest-tools** wizard to install the QEMU Guest Agent and the SPICE agent for an improved remote-viewer experience.
5. Reboot VM



Manual Installation

1. Open the Windows Explorer and navigate to the CD-ROM drive.

There you can see that the ISO consists of several directories, each having sub-directories for supported OS version (for example, 2k19, 2k12R2, w7, w8.1, w10, ...).

- Balloon

Index of /groups/virt/virtio-win/direct-downloads/archive-virtio/virtio-win-0.1.271-1

<https://fedorapeople.org/groups/virt/virtio-win/direct-downloads/archive-virtio/virtio-win-0.1.271-1/>

Create: Virtual Machine

General OS System Disks CPU Memory Network Confirm

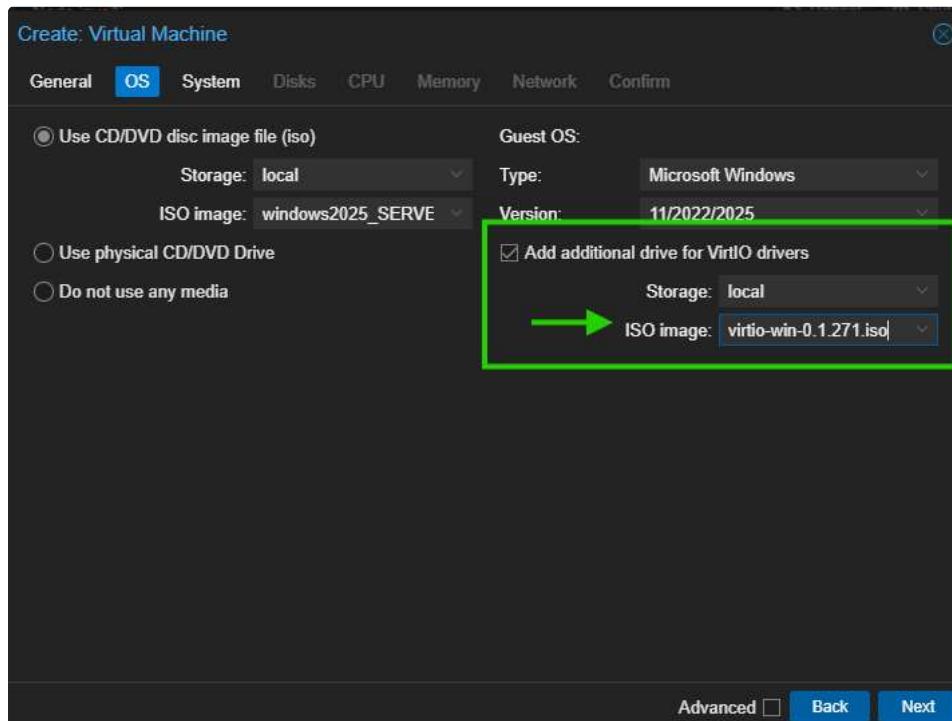
Use CD/DVD disc image file (iso) Guest OS:

Storage: local Type: Microsoft Windows
ISO image: windows2025_SERVE Version: 11/2022/2025

Use physical CD/DVD Drive Add additional drive for VirtIO drivers

Do not use any media

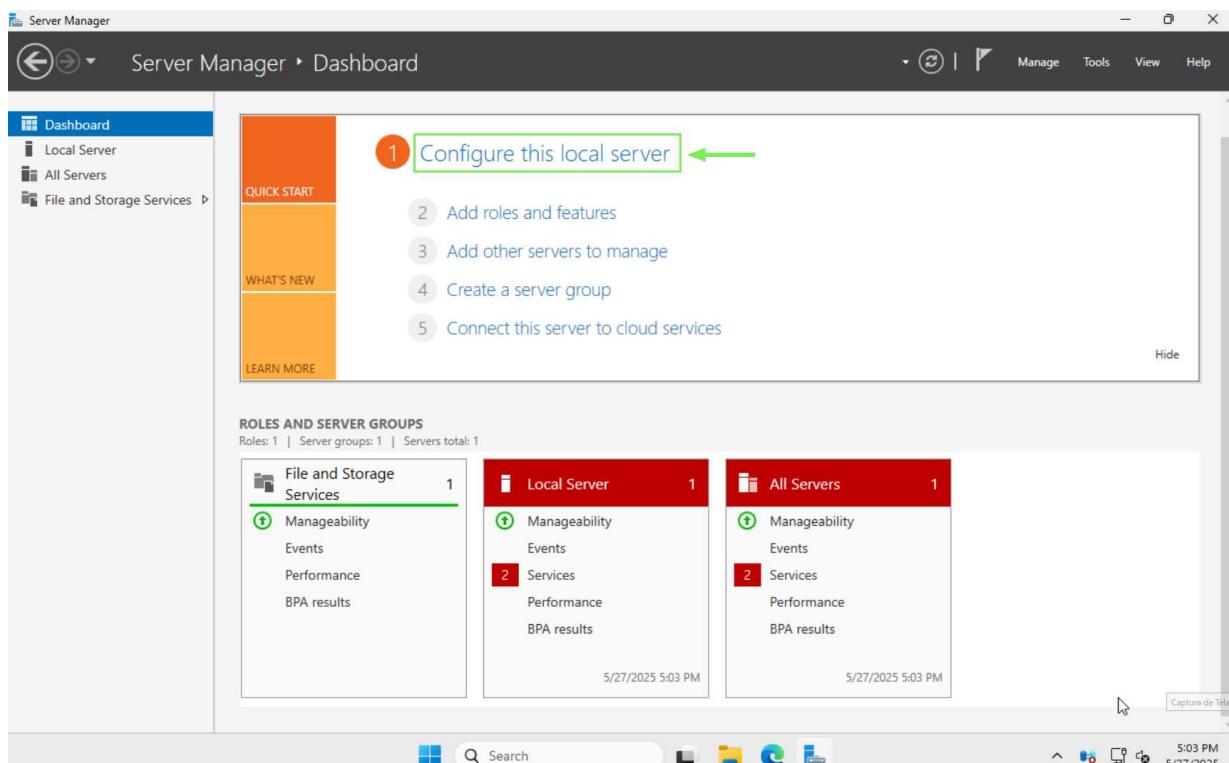
Advanced Back Next



Preparação do Ambiente Windows Server

- Definir IP fixo e nome do host.
- Instalar funções básicas: AD DS e Servidor de Arquivos.
- Criar um segundo usuário administrador com permissões delegadas.

Definir IP fixo e nome do host



Server Manager

Server Manager • Dashboard

Dashboard

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

5 Connect this server to cloud services

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 1 | Server groups: 1 | Servers total: 1

File and Storage Services	Local Server	All Servers
Manageability	Manageability	Manageability
Events	Events	Events
Performance	Performance	Performance
BPA results	BPA results	BPA results

5/27/2025 5:03 PM

5/27/2025 5:03 PM

Captura de Tela

Server Manager

Server Manager • Local Server

Dashboard Local Server All Servers File and Storage Services

PROPERTIES

For WIN-357FPRHHL3I

Computer name: WIN-357FPRHHL3I

Workgroup: WORKGROUP

Click para alterar o hostname

Microsoft Defender Firewall	Public: On	Microsoft 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-08:00) Pacific Time (US & Canada)
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	00493-20000-00001-AA597 (activated)
Azure Arc Management	Disabled		
Remote SSH Access	Disabled		

Operating system version: Microsoft Windows Server 2025 Standard Evaluation

Hardware information: OEMU Standard PC (Q35 + ICH9, 2009)

Processors: Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz

Installed memory (RAM): 7.98 GB

Total disk space: 49.22 GB

EVENTS

All events | 172 total

Server Name	ID	Severity	Source	Log	Date and Time
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 4:35:56 PM
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 3:10:47 PM
WIN-357FPRHHL3I	6006	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:50 PM
WIN-357FPRHHL3I	6005	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:29 PM

Server Manager

Server Manager • Local Server

Dashboard Local Server All Servers File and Storage Services

PROPERTIES

Computer Name: WIN-357FPRHHL3I

Hardware: Advanced

Advanced: Remote

Windows uses the following information to identify your computer on the network:

Computer description: Controlador de Dominio

For example: "IIS Production Server" or "Accounting Server".

Full computer name: WIN-357FPRHHL3I

Workgroup: WORKGROUP

To rename this computer or change its domain or workgroup, click Change.

Change...

OK Cancel Apply

Last installed updates: Today at 3:07 PM

Windows Update: Download updates only, using Windows Update

Last checked for updates: Today at 10:30 AM

Microsoft Defender Antivirus: Real-Time Protection: On

Feedback & Diagnostics: Settings

IE Enhanced Security Configuration: On

Time zone: (UTC-08:00) Pacific Time (US & Canada)

Product ID: 00493-20000-00001-AA597 (activated)

Operating system version: Microsoft Windows Server 2025 Standard Evaluation

Hardware information: OEMU Standard PC (Q35 + ICH9, 2009)

Processors: Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz

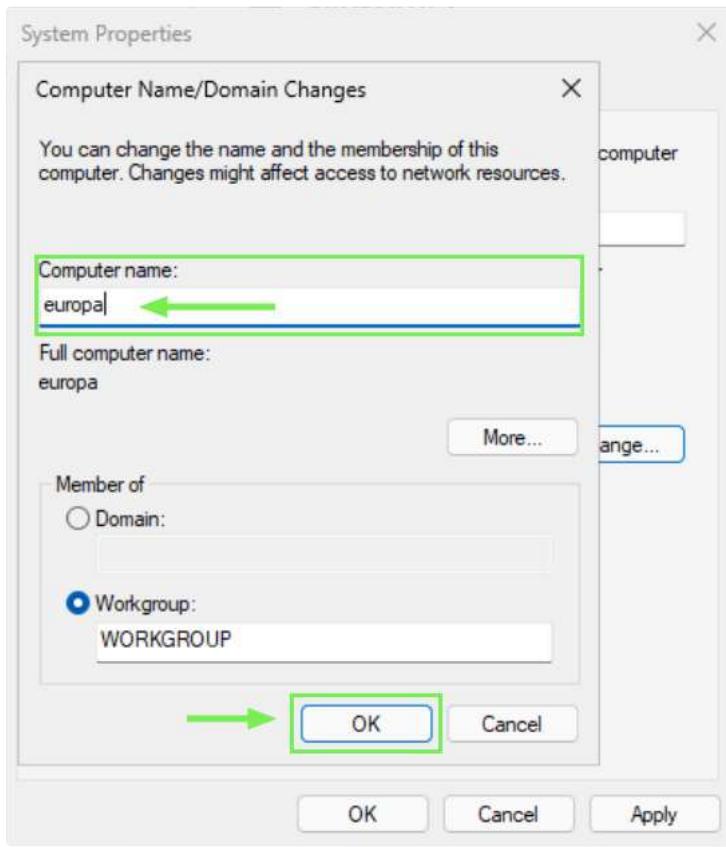
Installed memory (RAM): 7.98 GB

Total disk space: 49.22 GB

EVENTS

All events | 172 total

Server Name	ID	Severity	Source	Log	Date and Time
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 4:35:56 PM
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 3:10:47 PM
WIN-357FPRHHL3I	6006	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:50 PM
WIN-357FPRHHL3I	6005	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:29 PM



Server Manager

Server Manager • Local Server

Dashboard Local Server All Servers File and Sto

System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name: europa

Full computer name: europa

Member of:

Domain: [empty text field]

Workgroup: WORKGROUP

OK Cancel

OK Cancel Apply

Microsoft Defender Antivirus

Last installed updates: Windows Update

Last checked for updates: Today at 3:07 PM

Download updates only, using Windows Update

Real-Time Protection: On

Diagnostics

Security Configuration

(UTC-08:00) Pacific Time (US & Canada)

00493-20000-00001-AA597 (activated)

C (Q35 + ICH9, 2009)

Installed memory (RAM): 7.98 GB

Total disk space: 49.22 GB

Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz

OK

Filter

Server Name	ID	Severity	Source	Log	Date and Time
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 4:35:56 PM
WIN-357FPRHHL3I	10149	Warning	Microsoft-Windows-Windows Remote Management	System	5/27/2025 3:10:47 PM
WIN-357FPRHHL3I	6006	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:50 PM
WIN-357FPRHHL3I	6005	Warning	Microsoft-Windows-Winlogon	Application	5/27/2025 3:06:29 PM

Server Manager

Server Manager • Local Server

Dashboard Local Server All Servers

PROPERTIES
For europa

Computer name	europa	Last installed updates	Today at 3:07 PM
Workgroup	WORKGROUP	Windows Update	Download updates only, using Windows Update
		Last checked for updates	Today at 10:30 AM
Microsoft Defender Firewall	Public: On	Microsoft 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-08:00) Pacific Time (US & Canada)
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled click para alterar o ip 192.168.0.1	Product ID	00493-20000-00001-AA597 (activated)
Azure Arc Management	Disabled	Processors	Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz
Remote SSH Access	Disabled	Installed memory (RAM)	7.98 GB
Operating system version	Microsoft Windows Server 2025 Standard Evaluation		
Hardware information	QEMU Standard PC (Q35 + ICH9, 2009)		

EVENTS
All events | 0 total

Filter

Server Name	ID	Severity	Source	Log	Date and Time

TASKS

Network Connections

← → ⌂ ⌃ ⌄

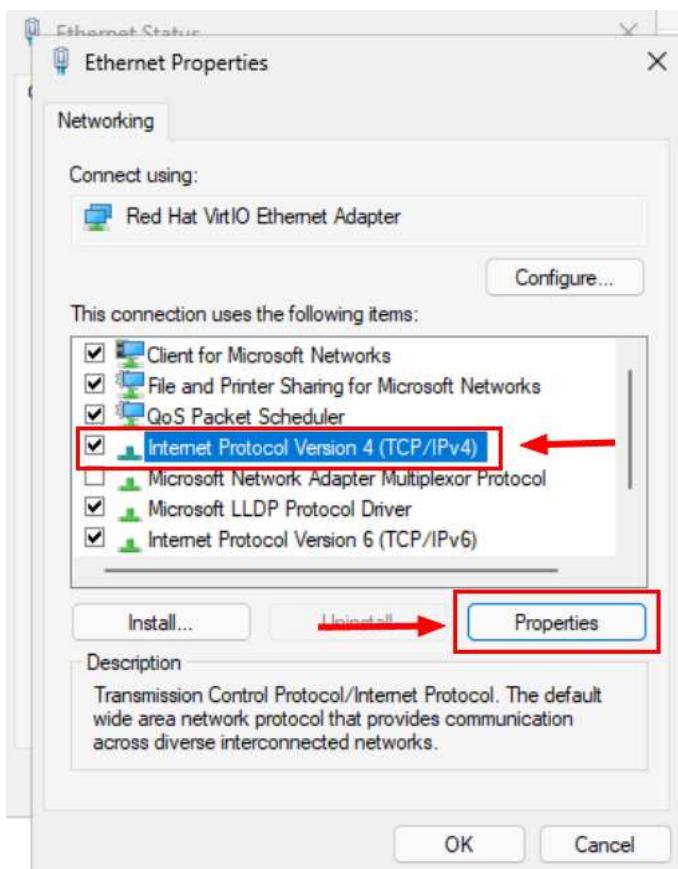
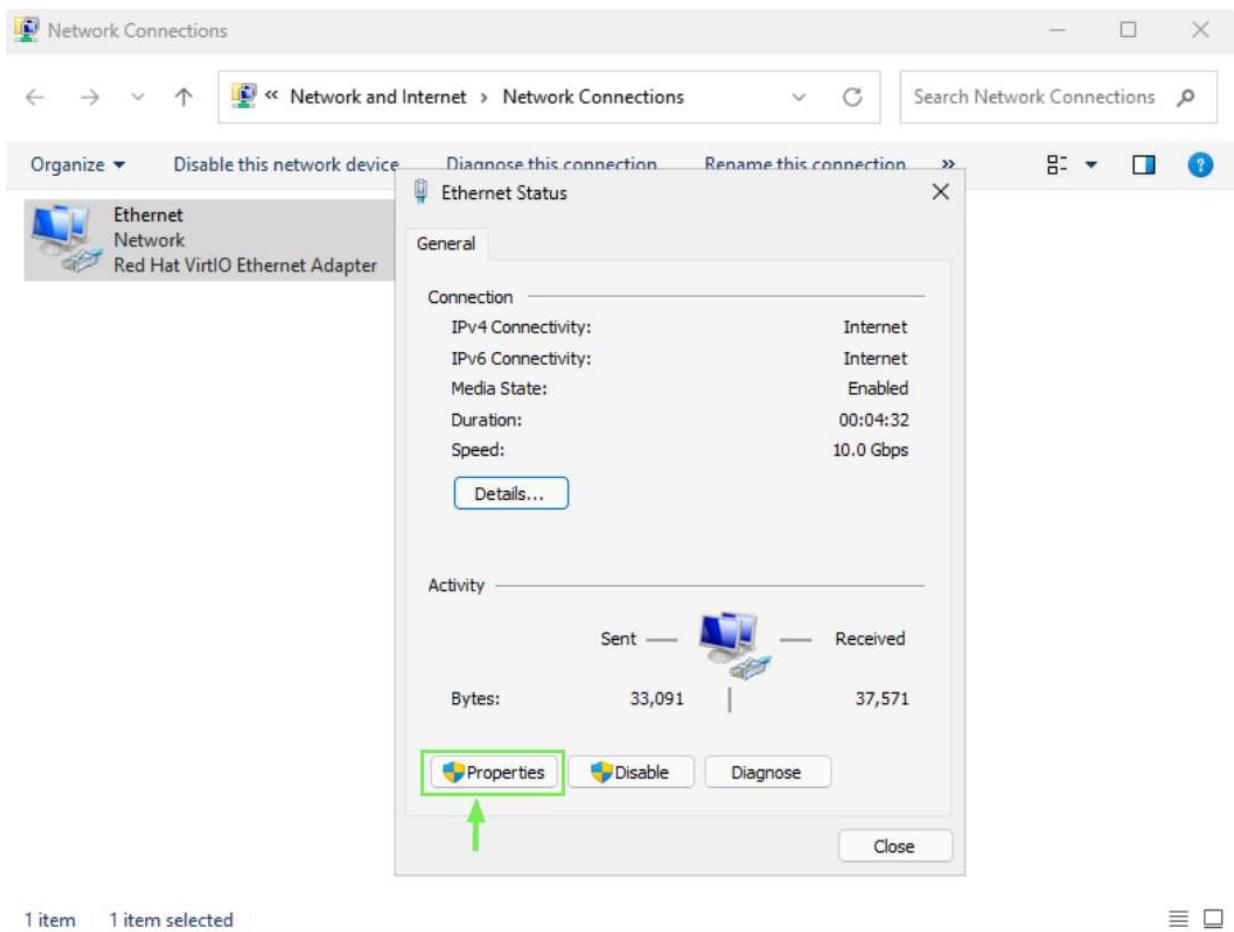
Network and Internet > Network Connections >

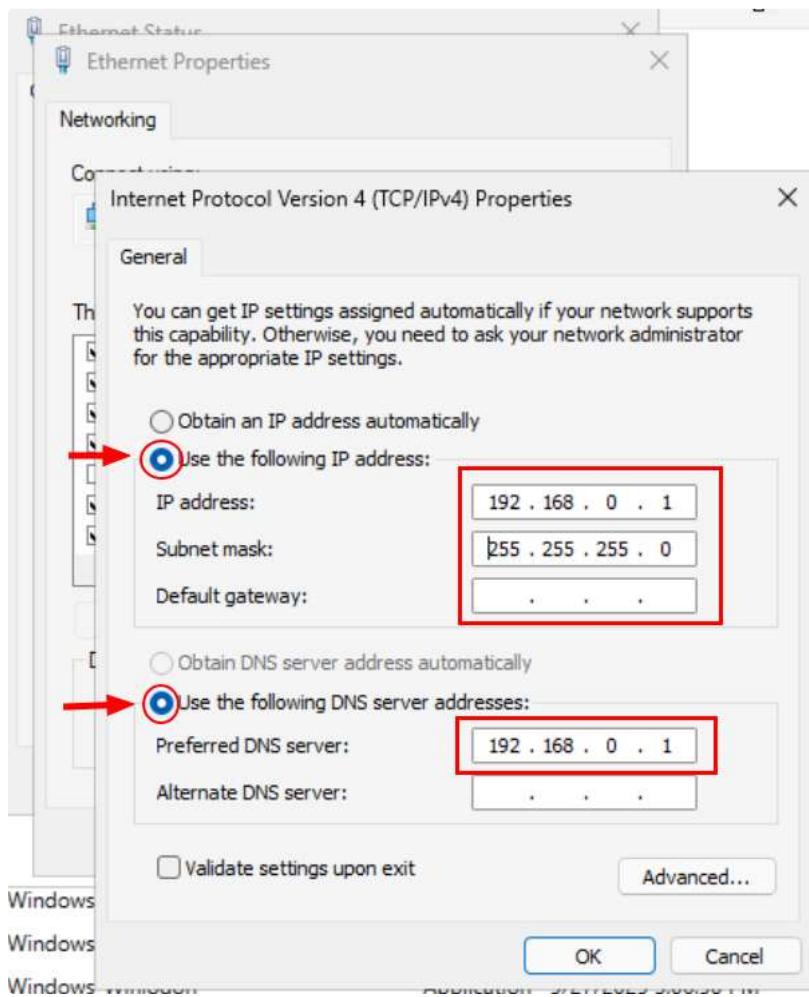
Search Network Connections

Organize ▾

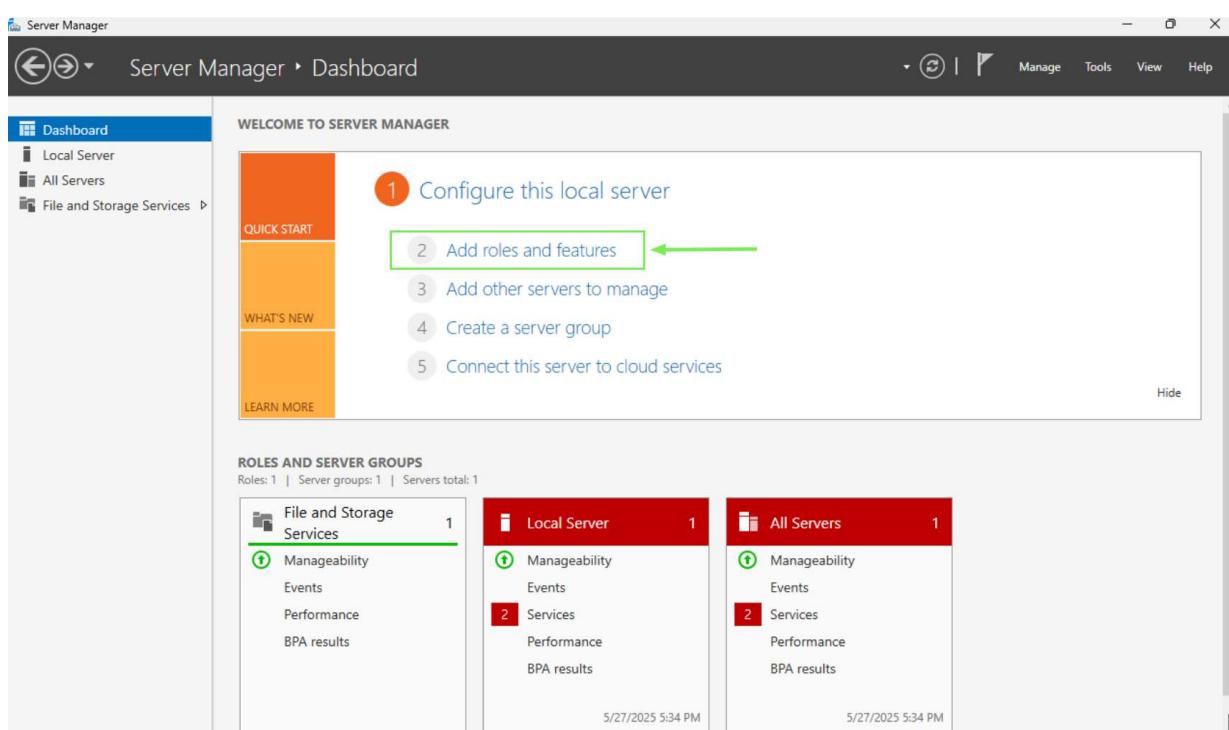
Ethernet
Network
Red Hat VirtIO Ethernet Adapter

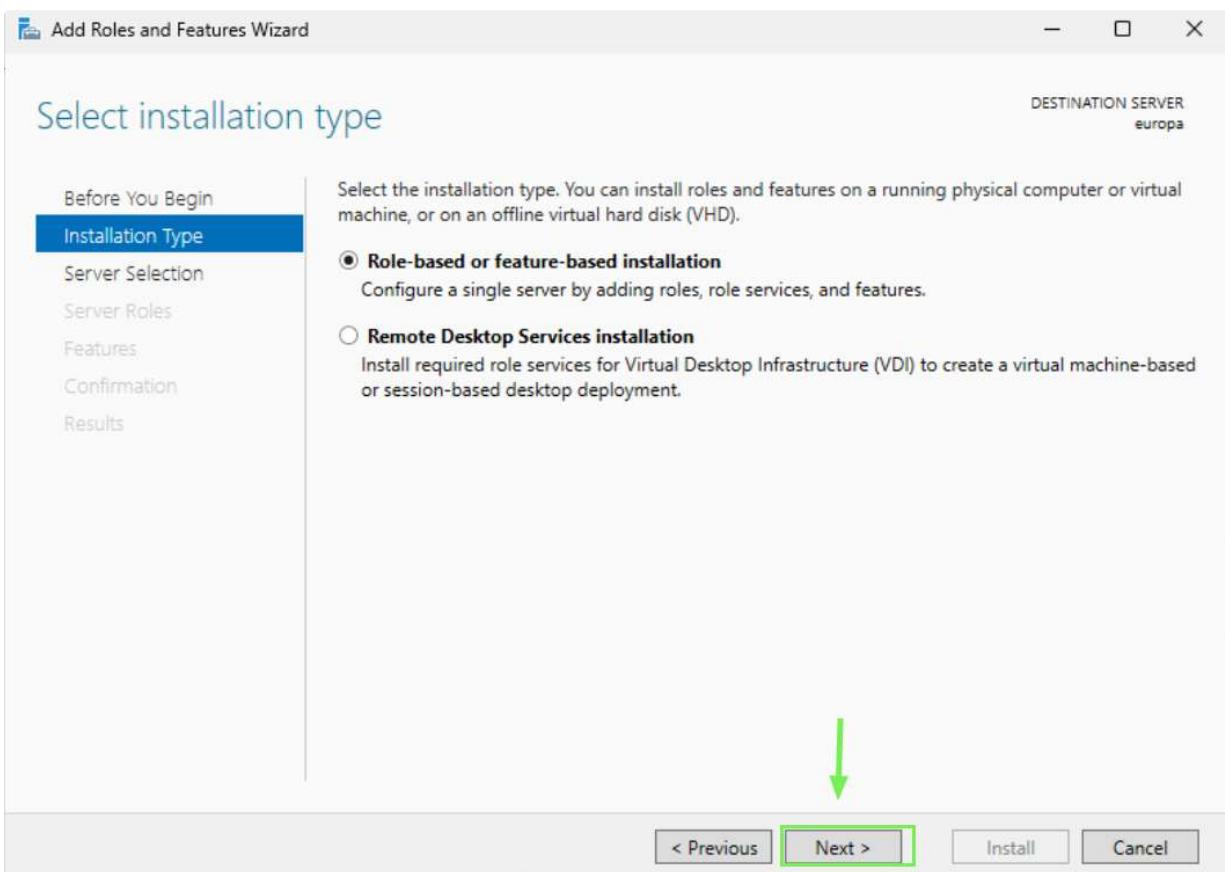
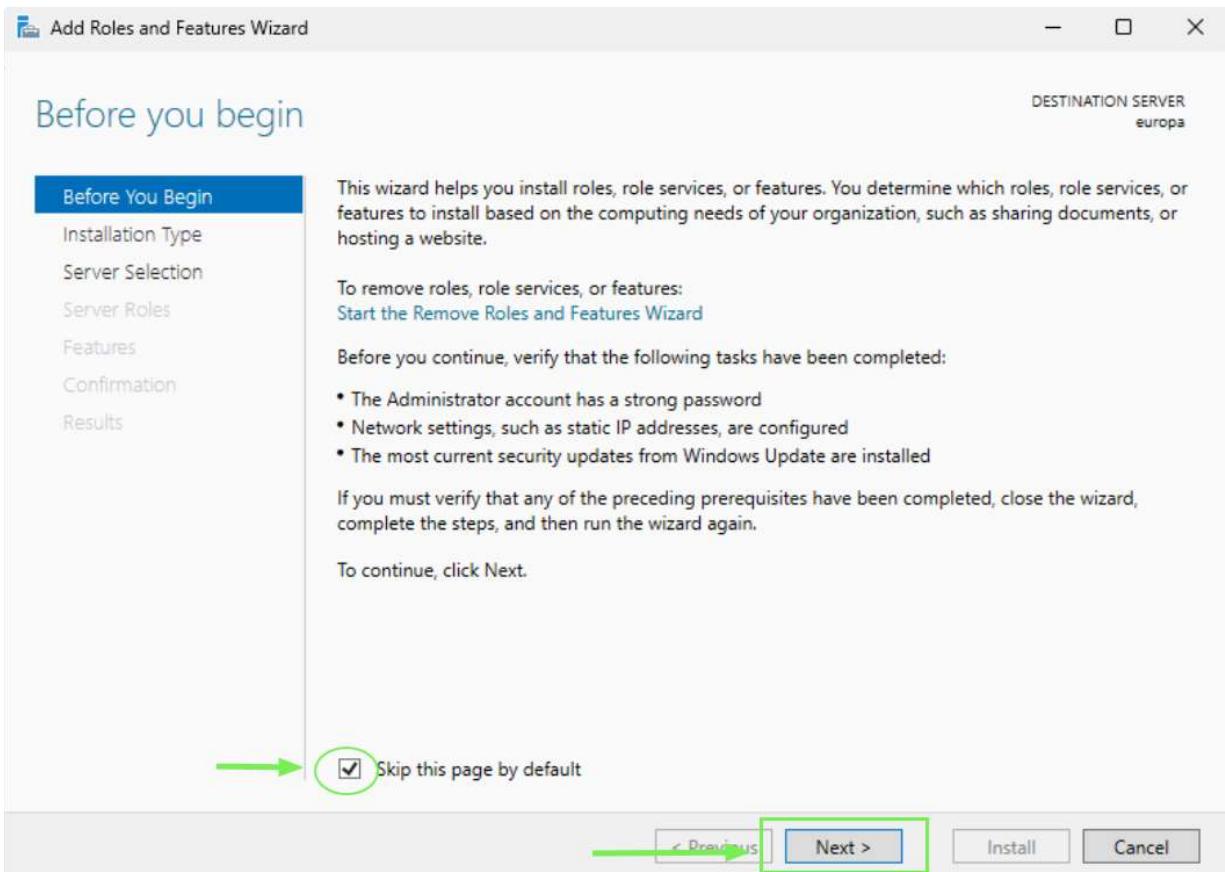
1 item

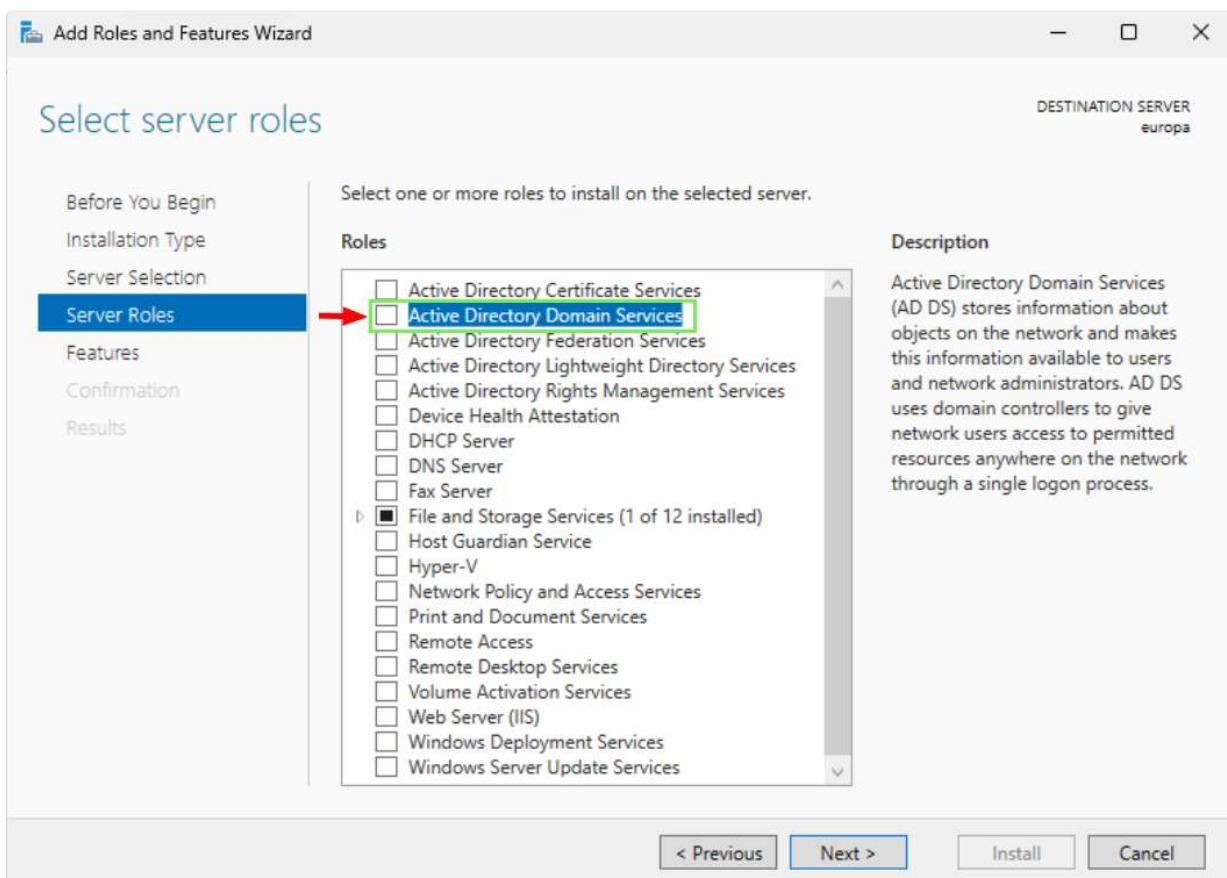
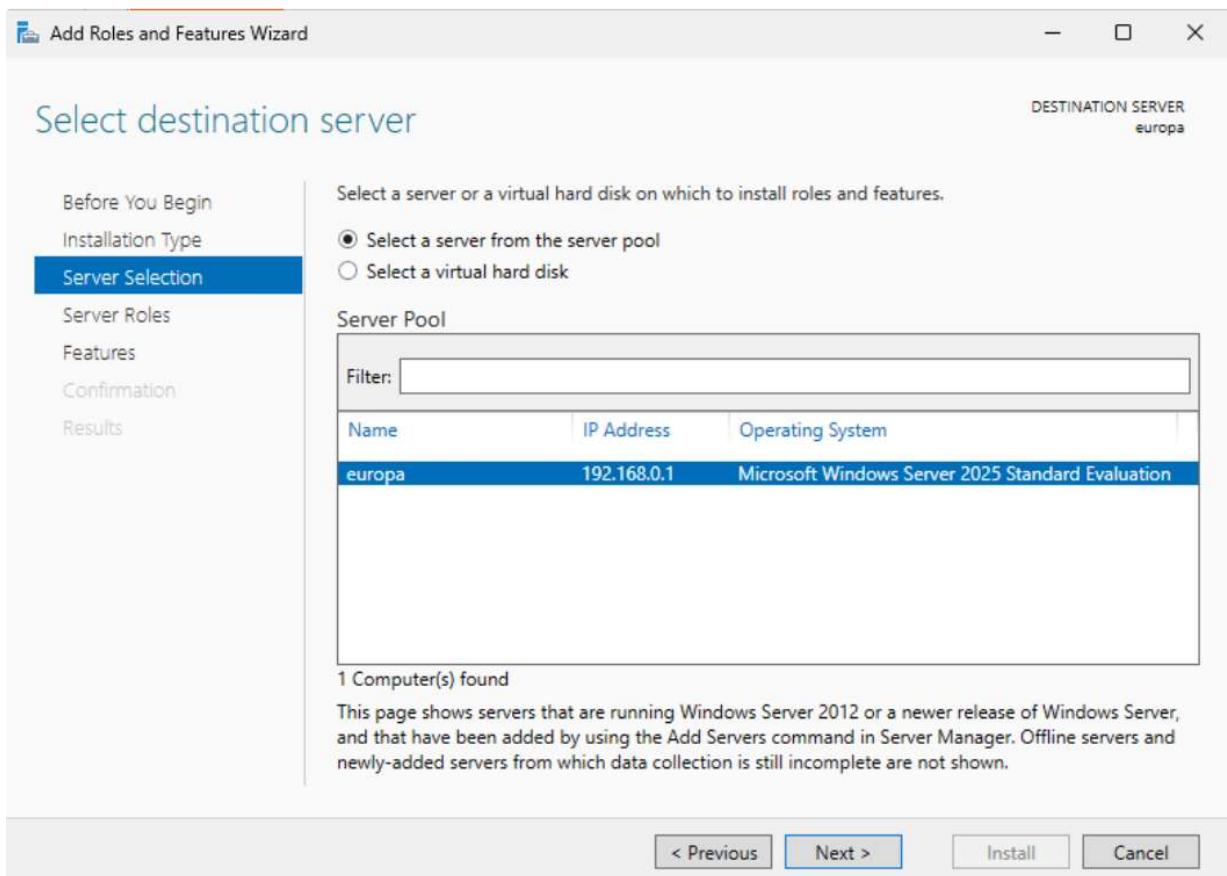


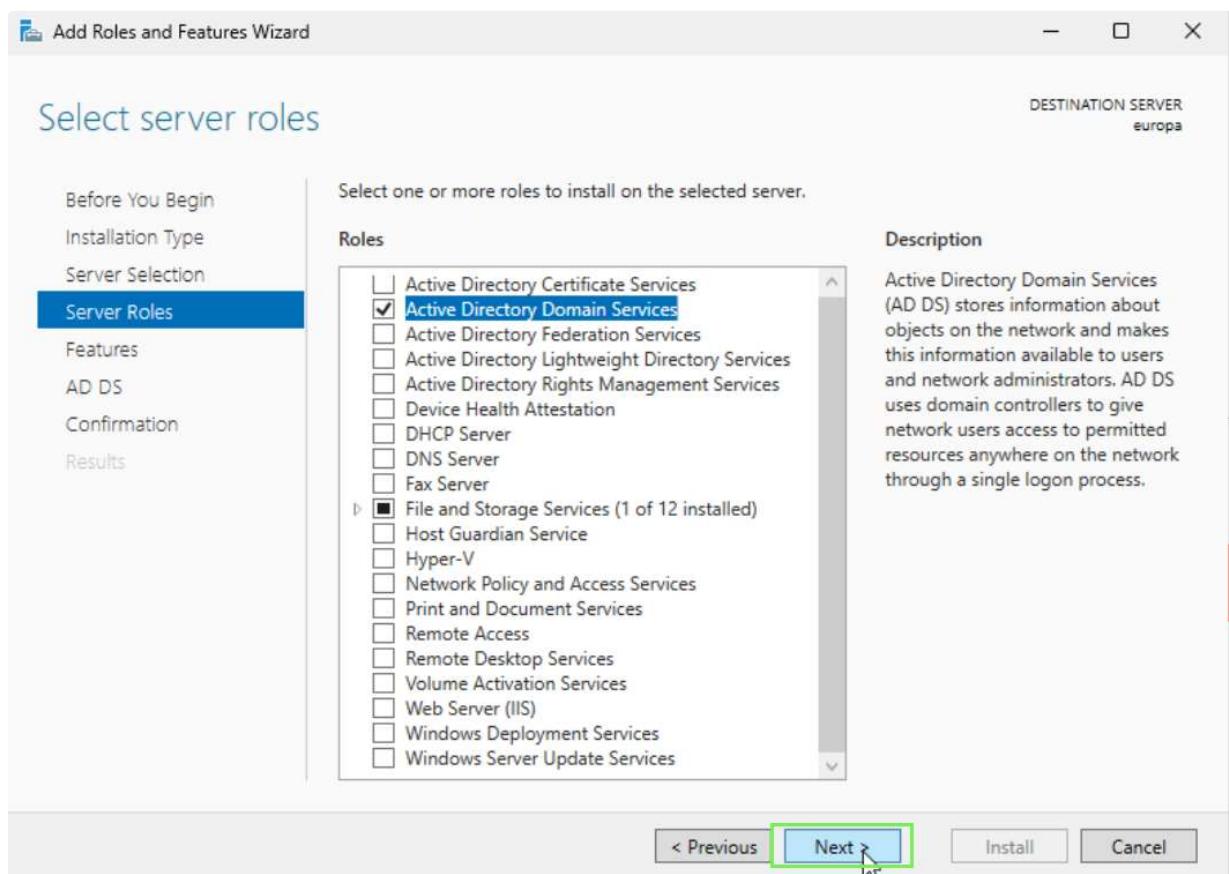
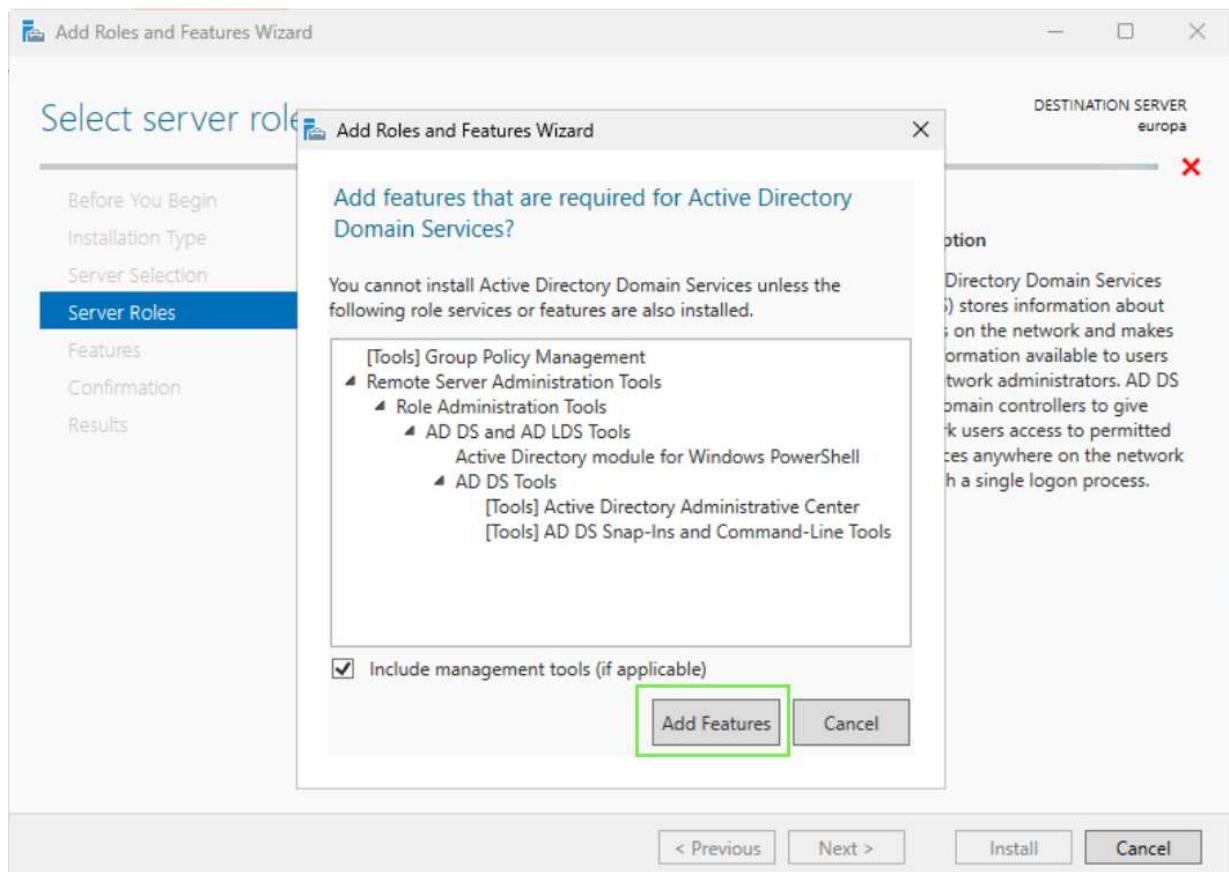


Instalar funções básicas: AD DS e Servidor de Arquivos.









Add Roles and Features Wizard

Select features

DESTINATION SERVER
europa

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results

Select one or more features to install on the selected server.

Features

	Description
<input type="checkbox"/> .NET Framework 3.5 Features	.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
<input checked="" type="checkbox"/> .NET Framework 4.8 Features (2 of 7 installed)	
<input type="checkbox"/> Background Intelligent Transfer Service (BITS)	
<input type="checkbox"/> BitLocker Drive Encryption	
<input type="checkbox"/> BitLocker Network Unlock	
<input type="checkbox"/> BranchCache	
<input type="checkbox"/> Client for NFS	
<input type="checkbox"/> Containers	
<input type="checkbox"/> Data Center Bridging	
<input type="checkbox"/> Direct Play	
<input type="checkbox"/> Enhanced Storage	
<input type="checkbox"/> Failover Clustering	
<input checked="" type="checkbox"/> Group Policy Management	
<input type="checkbox"/> Host Guardian Hyper-V Support	
<input type="checkbox"/> I/O Quality of Service	
<input type="checkbox"/> IIS Hostable Web Core	
<input type="checkbox"/> Internet Printing Client	
<input type="checkbox"/> IP Address Management (IPAM) Server	
<input type="checkbox"/> LPR Port Monitor	

< Previous **Next >** Install Cancel

Add Roles and Features Wizard

Active Directory Domain Services

DESTINATION SERVER
europa

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results

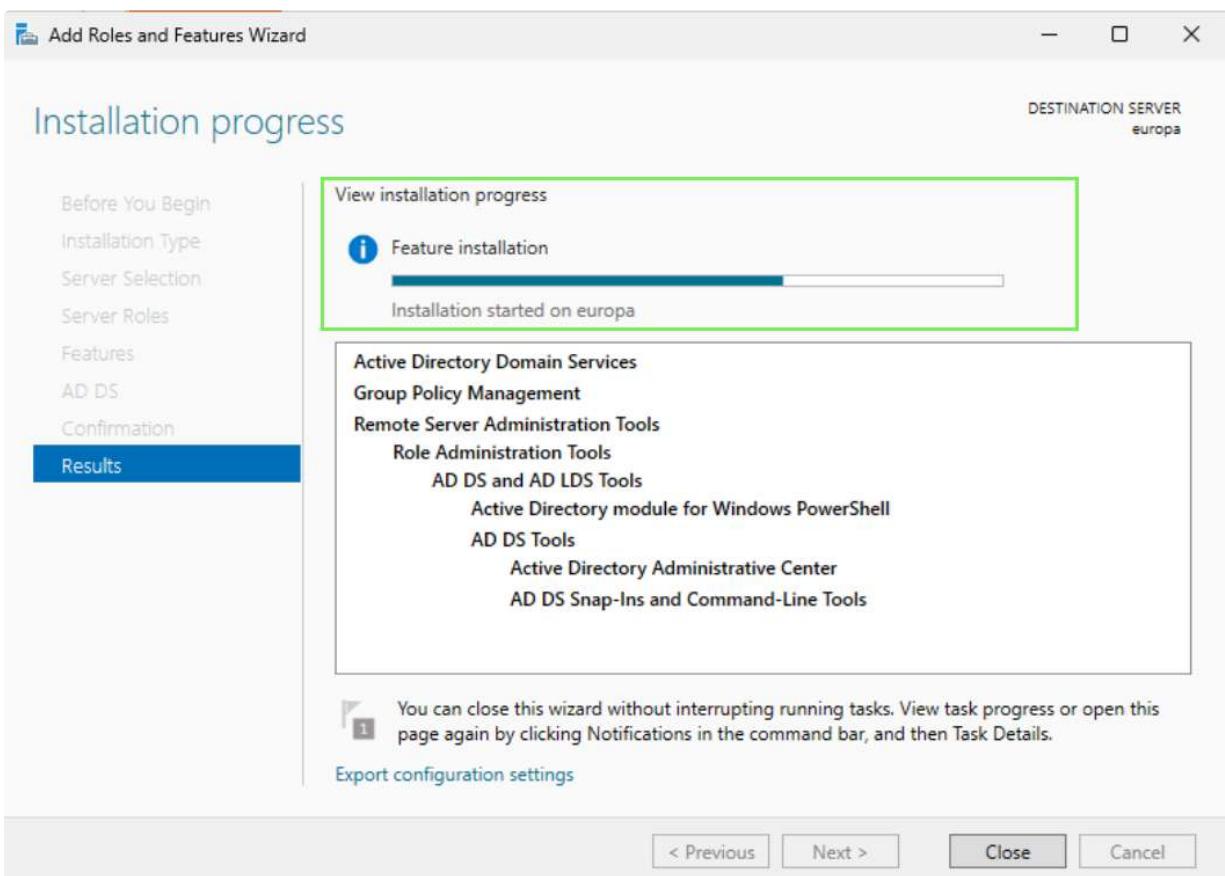
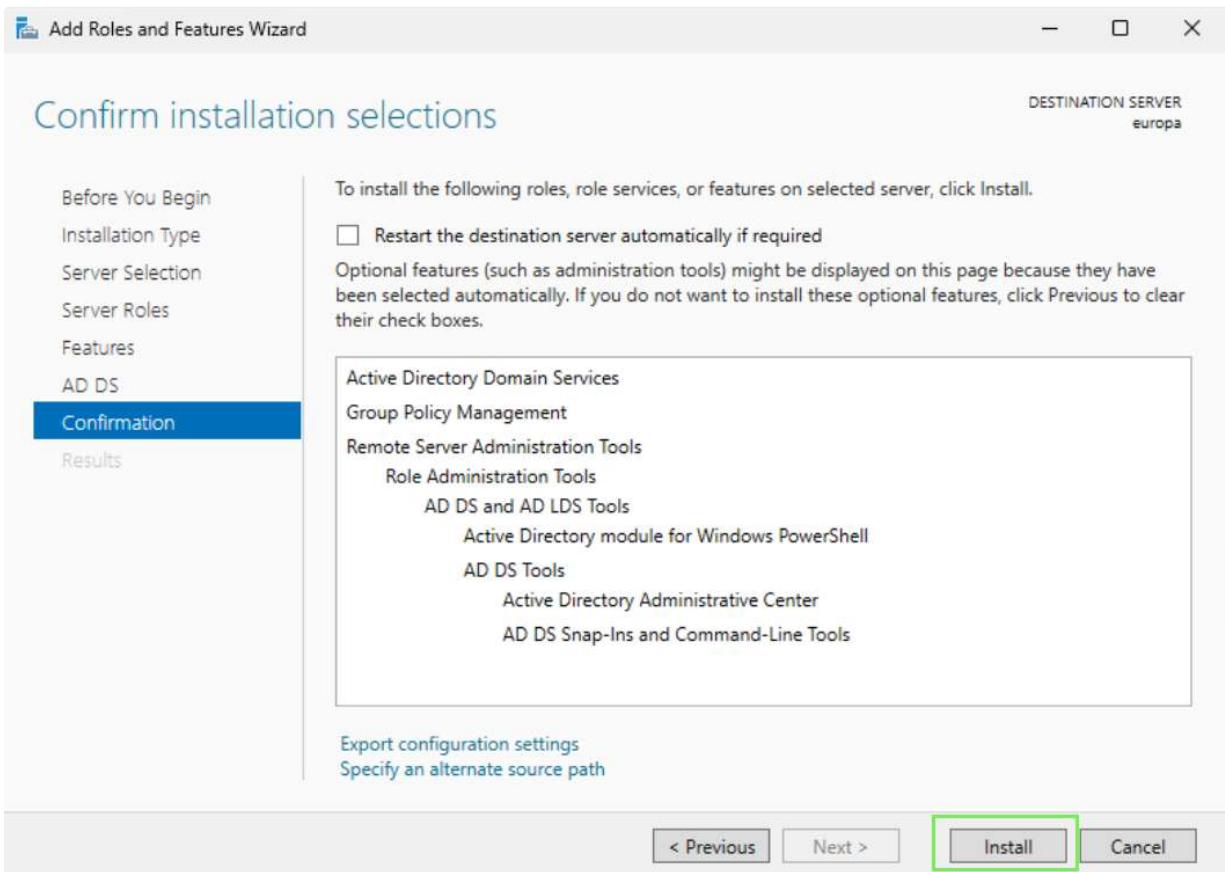
Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.

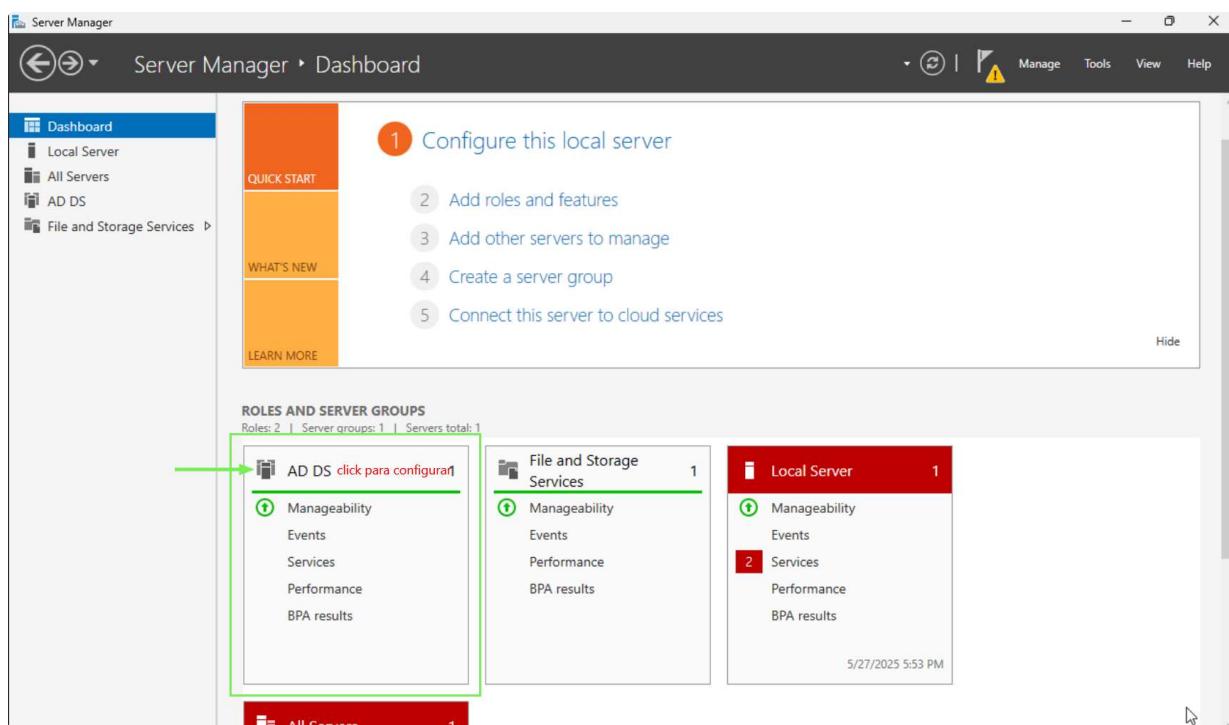
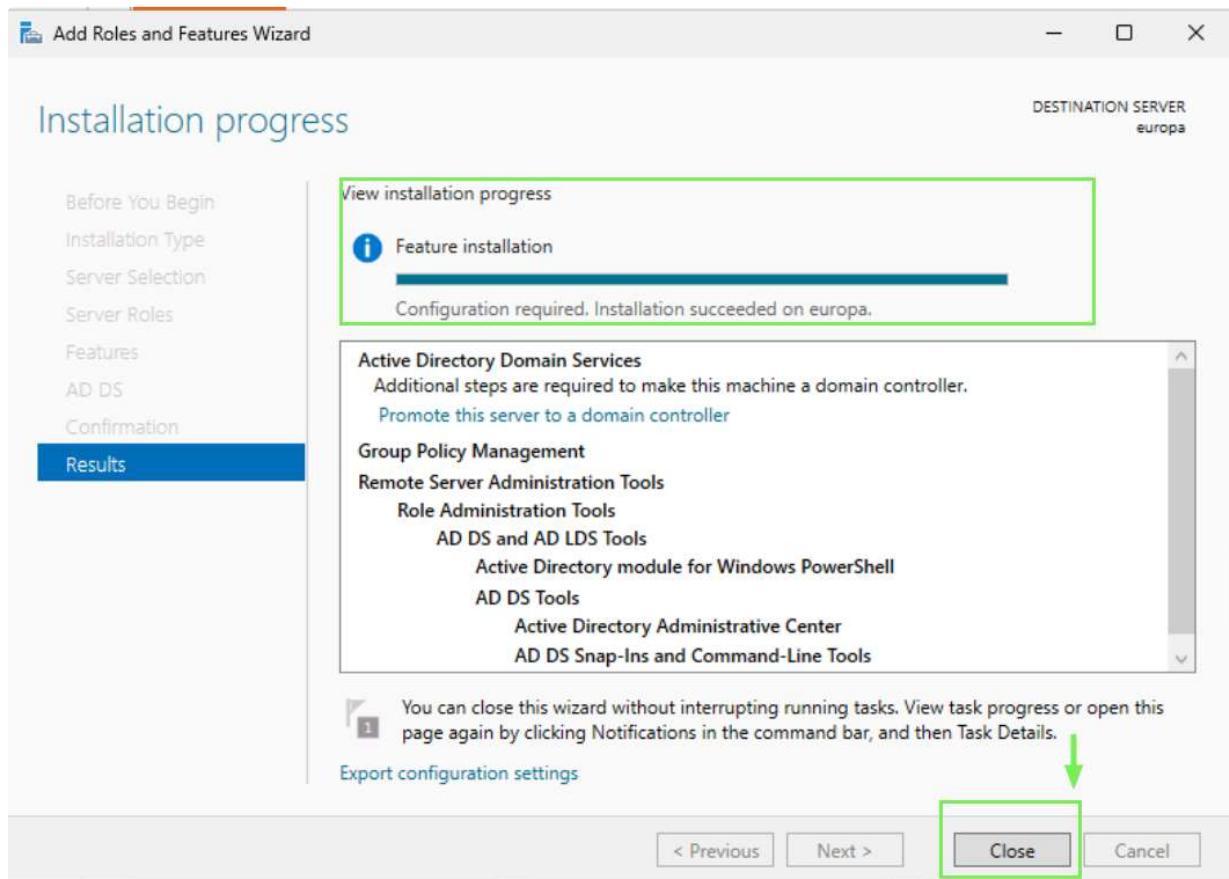
Things to note:

- To help ensure that users can still log on to the network in the case of a server outage, install a minimum of two domain controllers for a domain.
- AD DS requires a DNS server to be installed on the network. If you do not have a DNS server installed, you will be prompted to install the DNS Server role on this machine.

 Azure Active Directory, a separate online service, can provide simplified identity and access management, security reporting, single sign-on to cloud and on-premises web apps.
[Learn more about Azure Active Directory](#)
[Configure Office 365 with Azure Active Directory Connect](#)

< Previous **Next >** Install Cancel





Server Manager

Server Manager • AD DS

Servers

All servers | 1 total

Configuration required for Active Directory Domain Services at EUROPA

More...

Events

All events | 1 total

Filter

Server Name ID Severity Source Log Date and Time

EUROPA 1202 Error DFSR DFS Replication 5/27/2025 5:50:13 PM

This screenshot shows the Windows Server Manager interface under the AD DS section. It displays a 'SUSPECT' status for the server 'EUROPA'. A yellow warning bar at the top states 'Configuration required for Active Directory Domain Services at EUROPA'. Below this, the 'EVENTS' section shows one event: 'EUROPA 1202 Error DFSR DFS Replication 5/27/2025 5:50:13 PM'.

All Servers Task Details

All Servers Task Details and Notifications

All Tasks | 1 total

Status	Task Name	Stage	Message	Action	Notifications
⚠️	Post-deployment Configuration	Not Started	Configuration required for Active Directory Do...	Promote this server to a domain...	1

Notification

Status	Notification	Time Stamp
ⓘ	Additional steps are required to make this machine a domain controller.	5/27/2025 5:52:23 PM

This screenshot shows the 'All Servers Task Details and Notifications' window. It lists one task: 'Post-deployment Configuration' (Status: Not Started). The 'Action' column contains a link 'Promote this server to a domain...' which is highlighted with a red box and a red arrow pointing to it. Below this, a notification message is displayed: 'Additional steps are required to make this machine a domain controller.' with a timestamp of '5/27/2025 5:52:23 PM'.

