

 Ícone adicionar Adicionar capa

Instalação e Preparação do Ambiente Windows Server

Ramon Silas Shockness Alfonsin

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

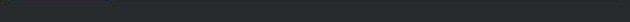
Selecione seu download do Windows Server 2025

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

Storage 'local' on node 'calisto'

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

Upload

File: C:\fakepath\26100.1742.240906

Select File

File name: 26100.1742.240906-0331.ge_release_svc_re

File size: 5.60 GiB

MIME type: -

Hash algorithm: None

Checksum: none

Uploads are stored temporarily in '/var/tmp', make sure there is enough free space.

Abort Upload

Task viewer: Copy data

Output Status

Stop Download

```
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

Type	Description	Disk usage...	Memory us...	CPU usage	Uptime	Host C...
lxc	100 (ganymedes)	-	-	-	-	
lxc	102 (hegemone)	-	-	-	-	
lxc	103 (semaphore)	-	-	-	-	
lxc	104 (ufl)	-	-	-	-	
lxc	105 (terraform)	-	-	-	-	
lxc	106 (homarr)	-	-	-	-	
lxc	107 (phpipam)	-	-	-	-	
lxc	108 (ps)	-	-	-	-	
lxc	109 (debian)	-	-	-	-	
lxc	110 (ns1.alfonsin.shop)	-	-	-	-	
lxc	120 (ns1.alfonsin.shop)	-	-	-	-	
lxc	151 (metis)	-	-	-	-	

Create: Virtual Machine

General OS System Disks CPU Memory Network Confirm

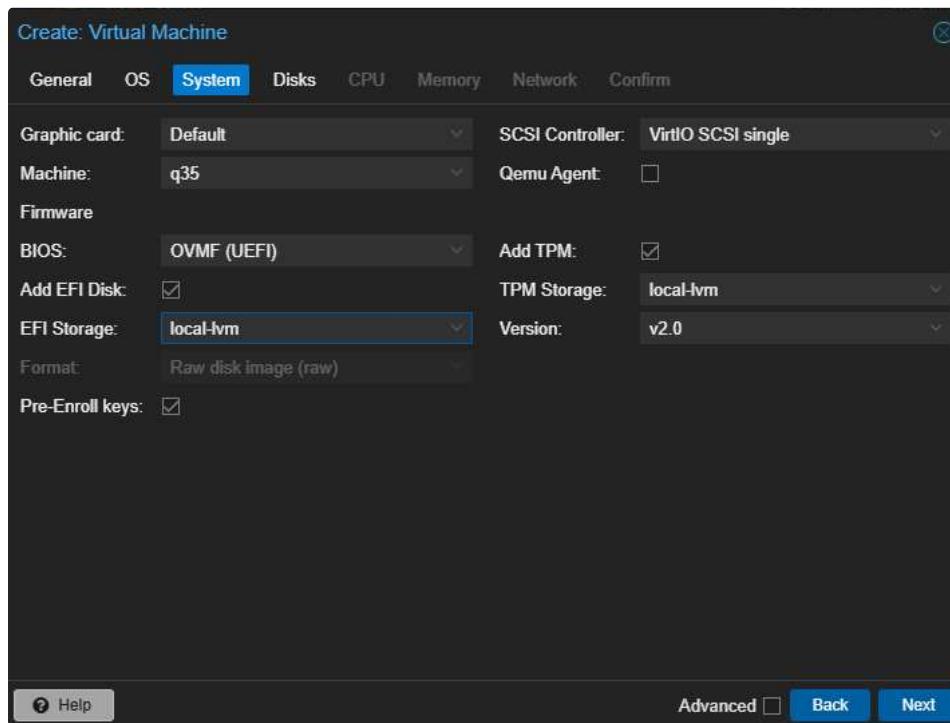
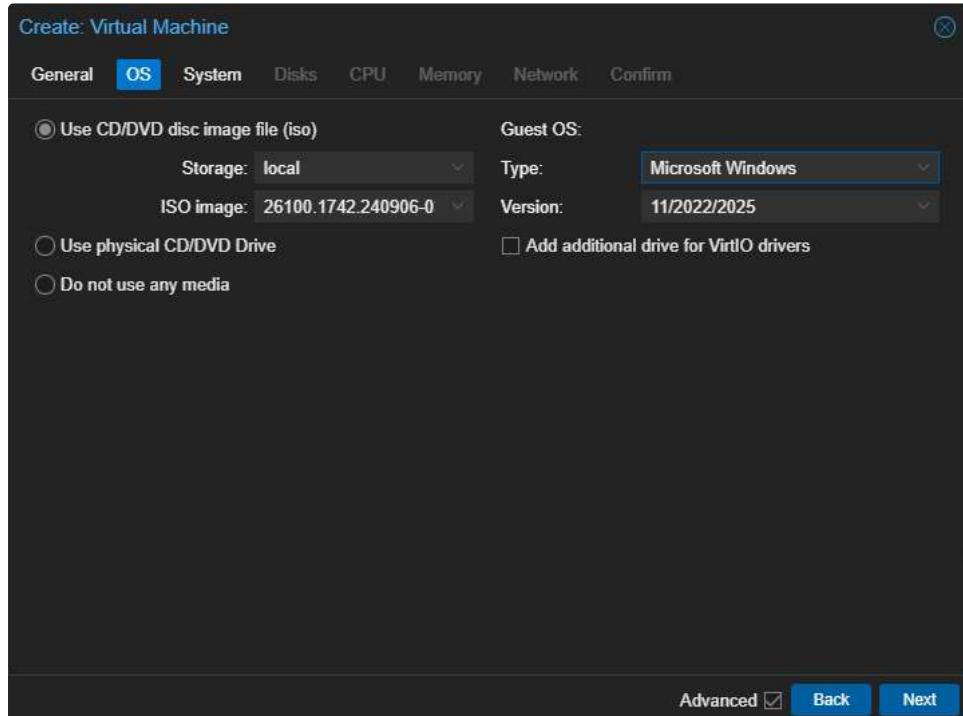
Node: calisto

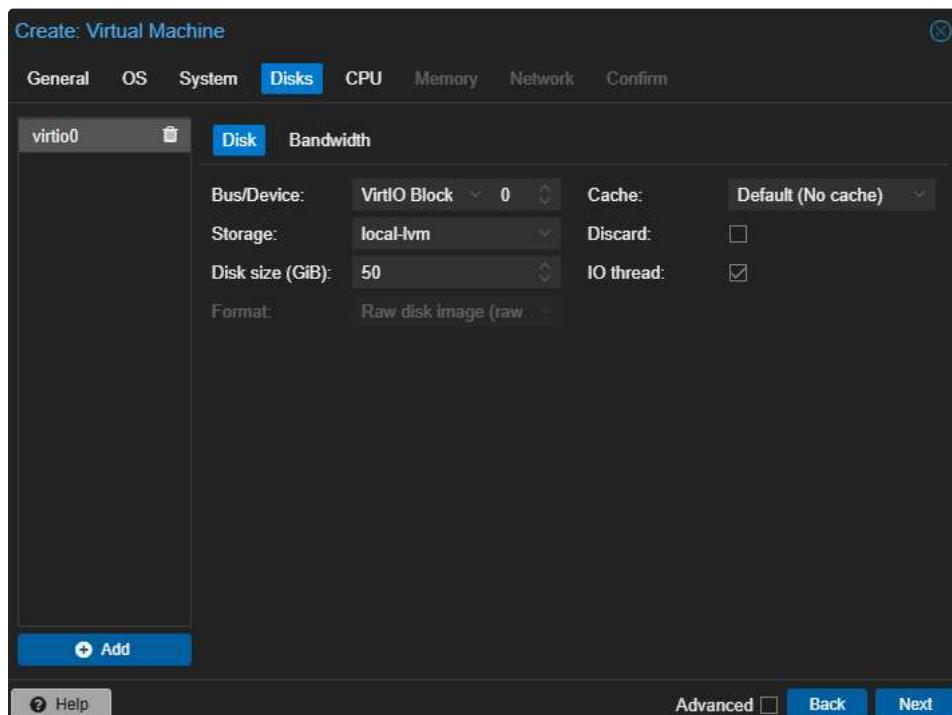
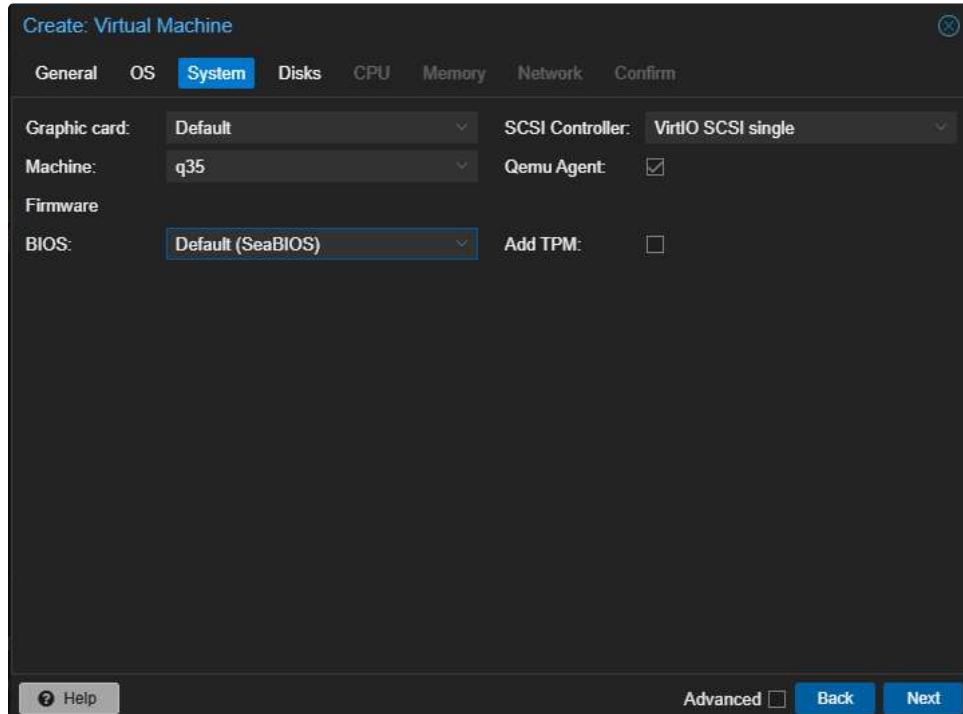
VM ID: 500

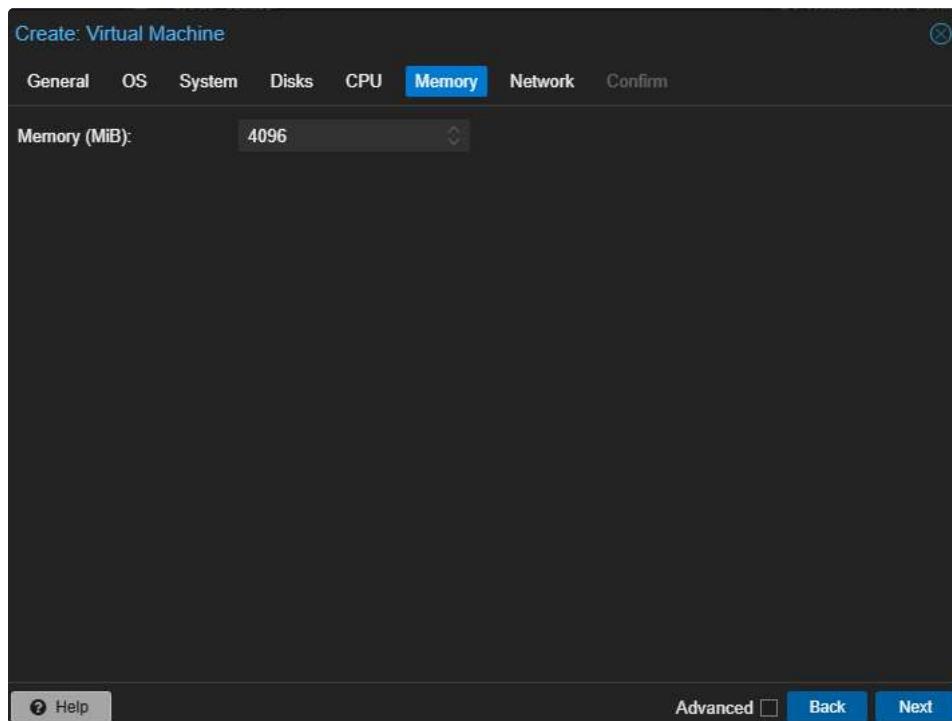
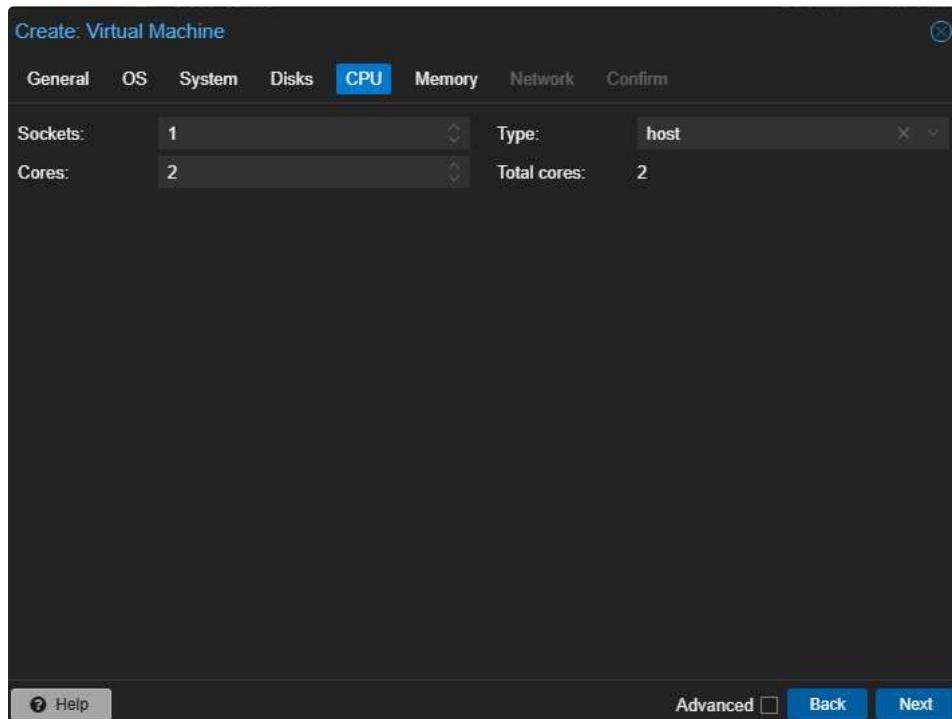
Name: w2k2025

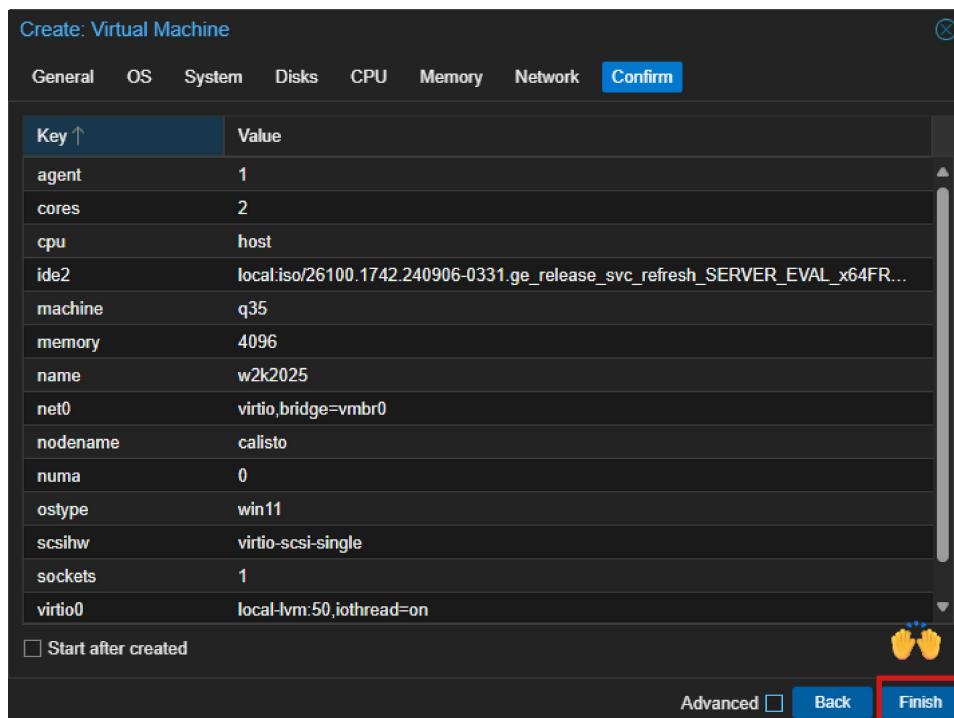
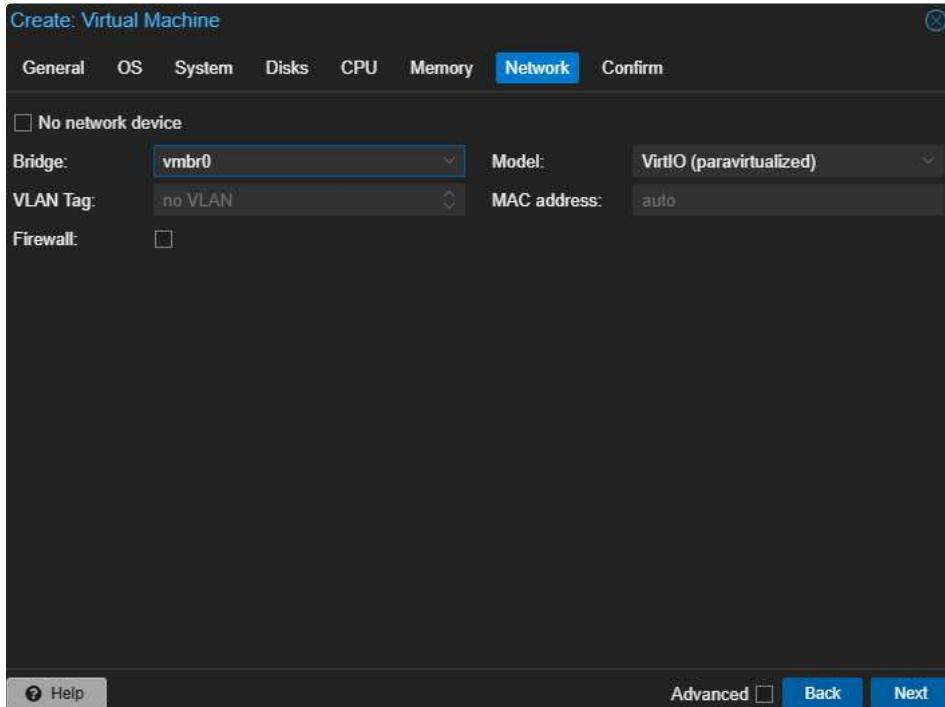
Resource Pool:

Advanced □ Back Next



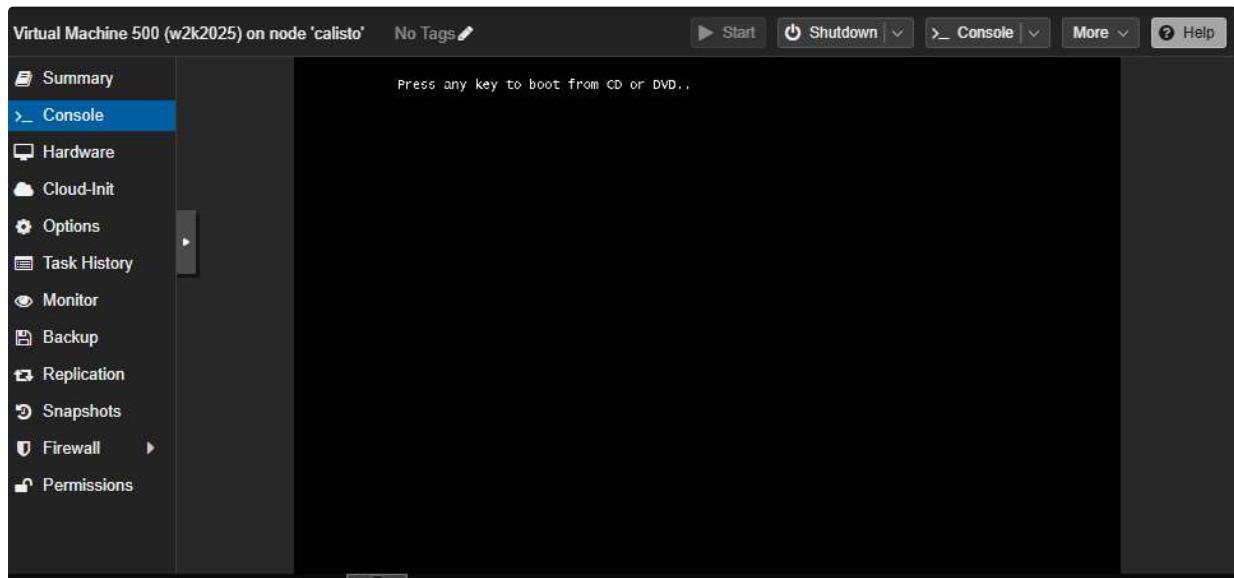
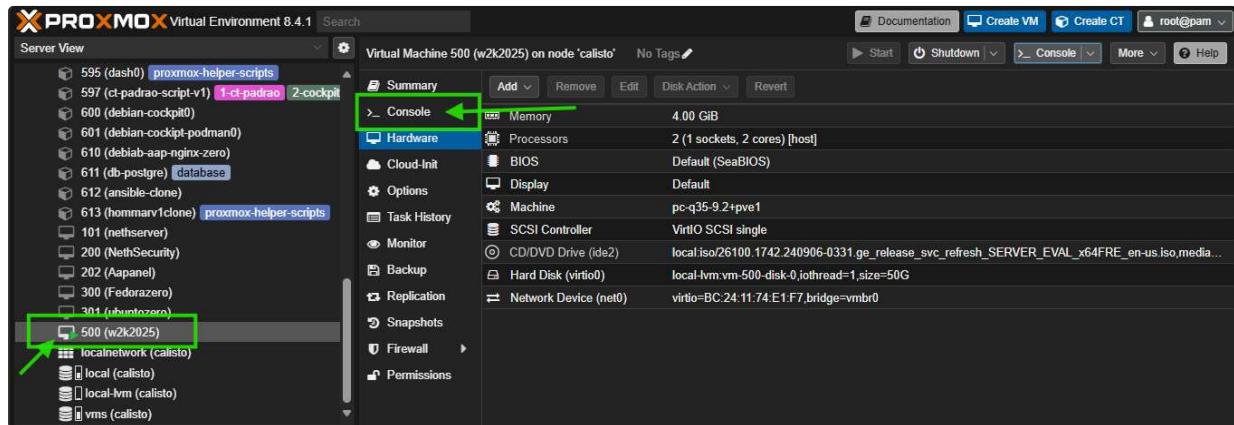


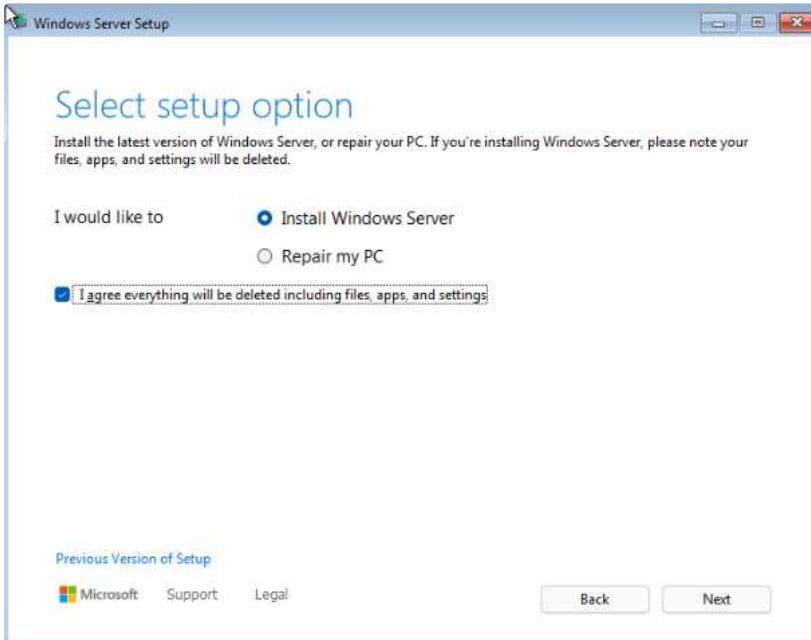
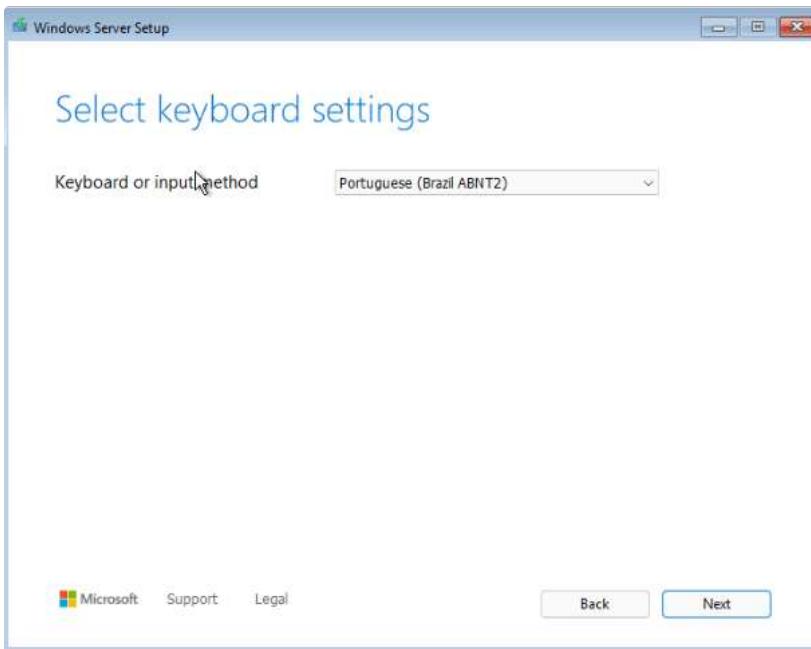
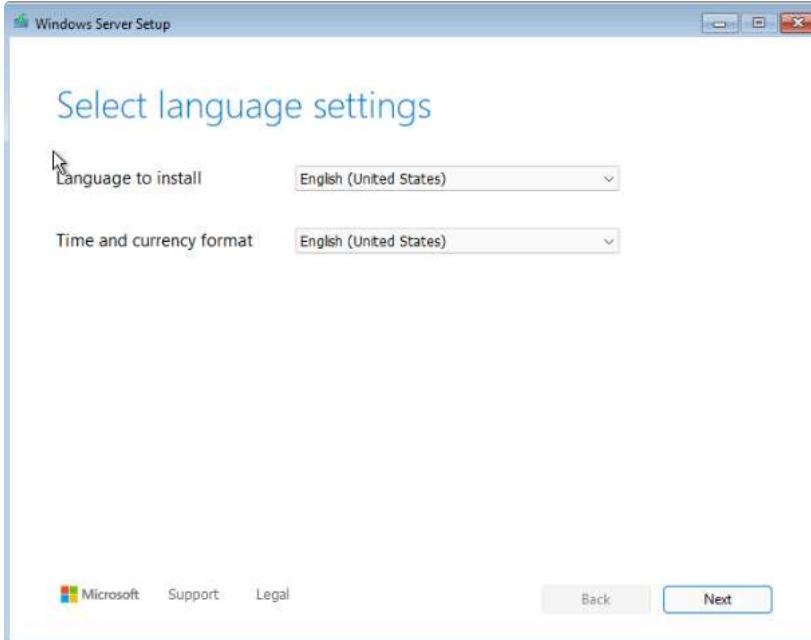


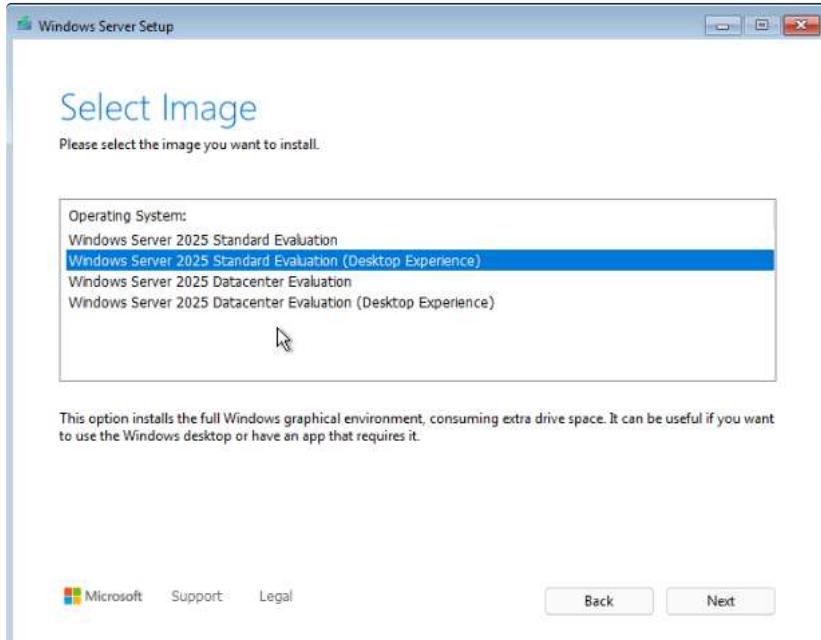


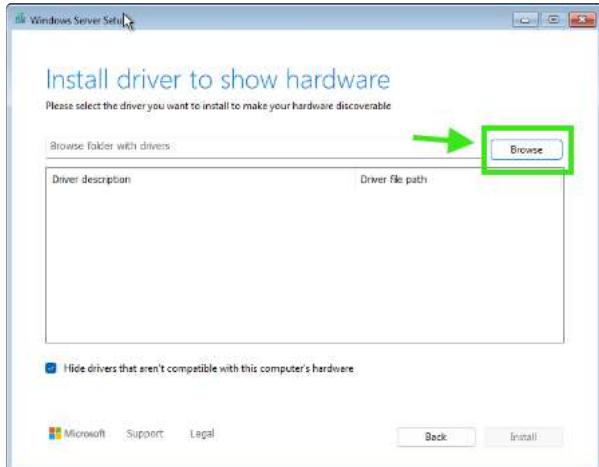
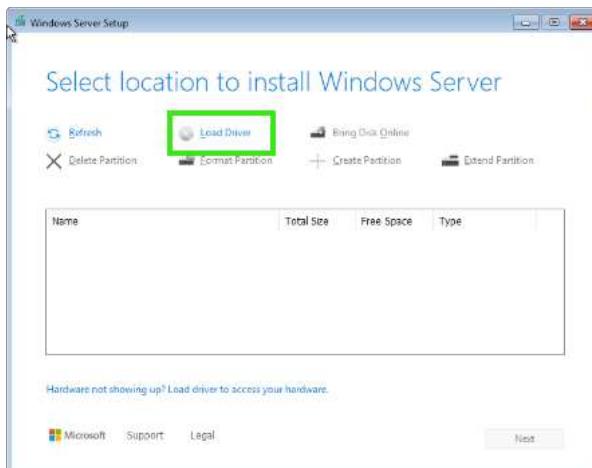
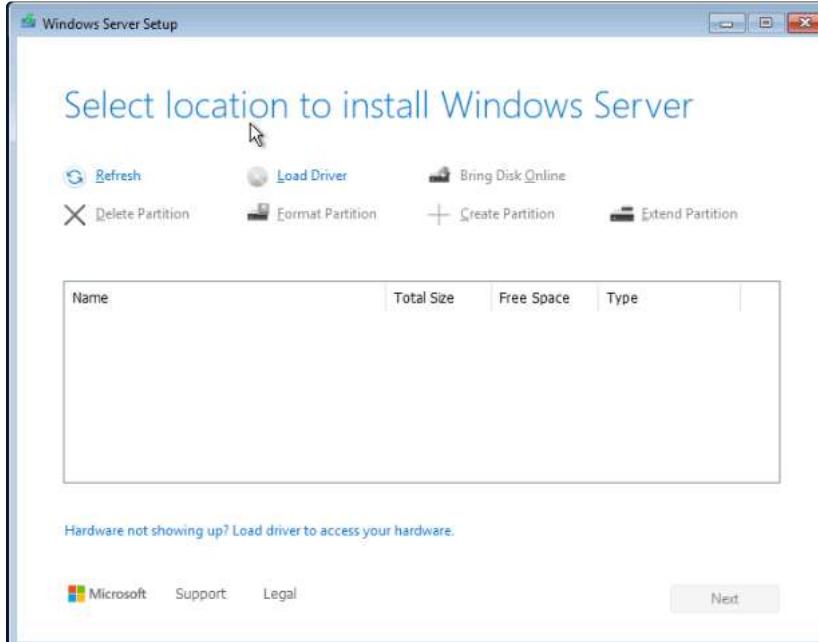
Iniciando a vm

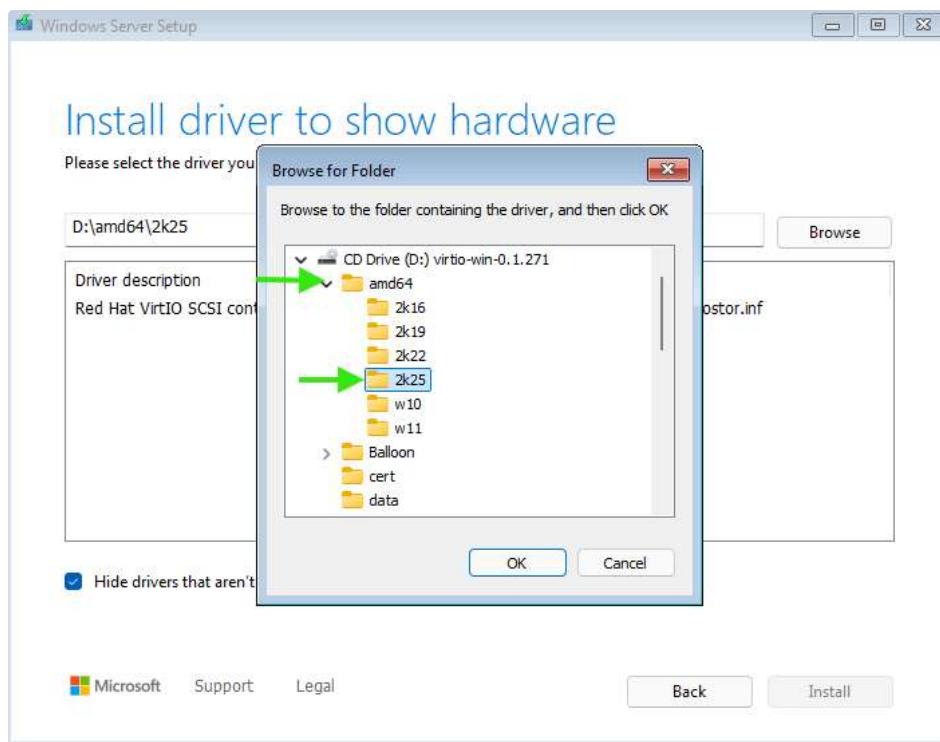
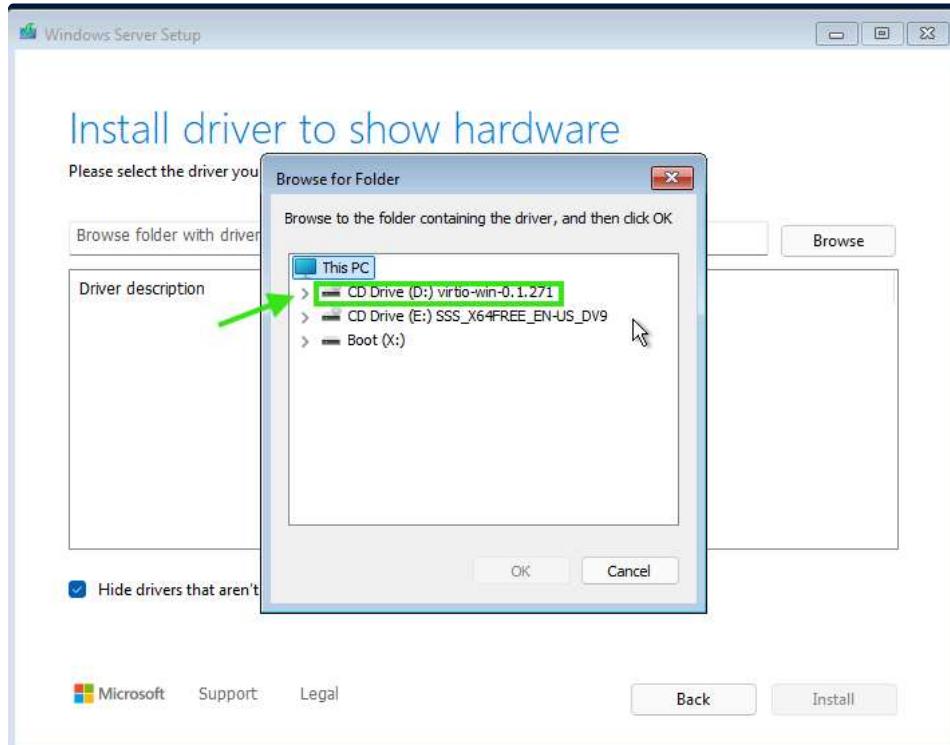
The screenshot shows the Proxmox VE 8.4.1 interface. On the left, the 'Server View' tree shows various VMs and hosts. In the center, the details for VM 500 (w2k2025) are displayed. The 'Hardware' tab is selected, showing configurations for Memory (4.00 GiB), Processors (2), BIOS (Default), Display (Default), Machine (pc-q35-9.2+pv1), SCSI Controller (VirtIO SCSI single), CD/DVD Drive (ide2), Hard Disk (virtio0), and Network Device (net0). The 'Start' button in the top right is highlighted with a green box.

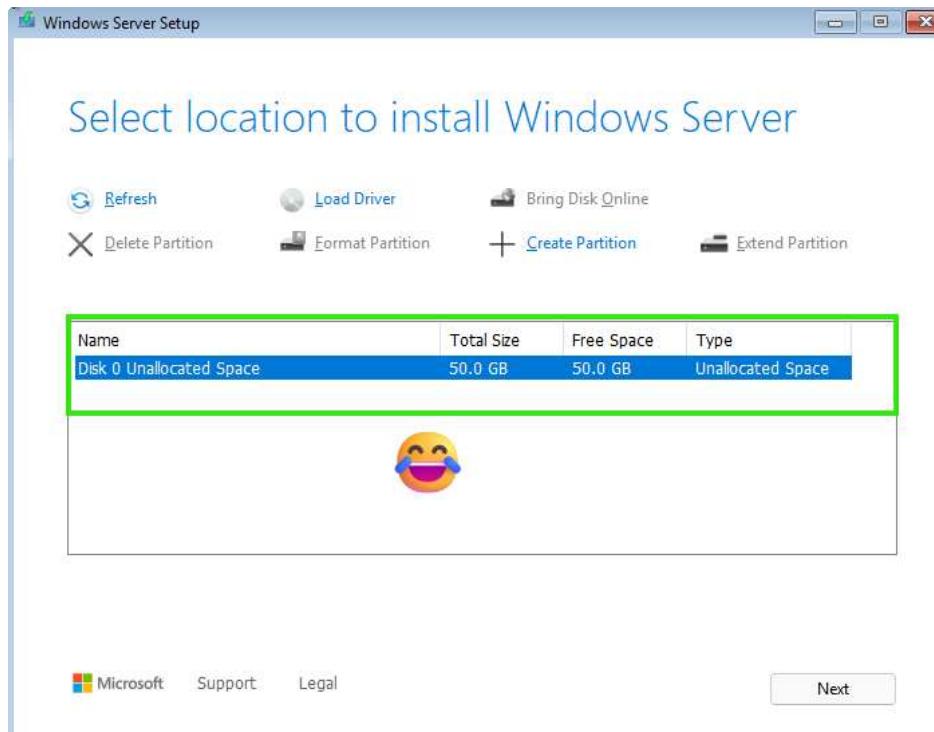
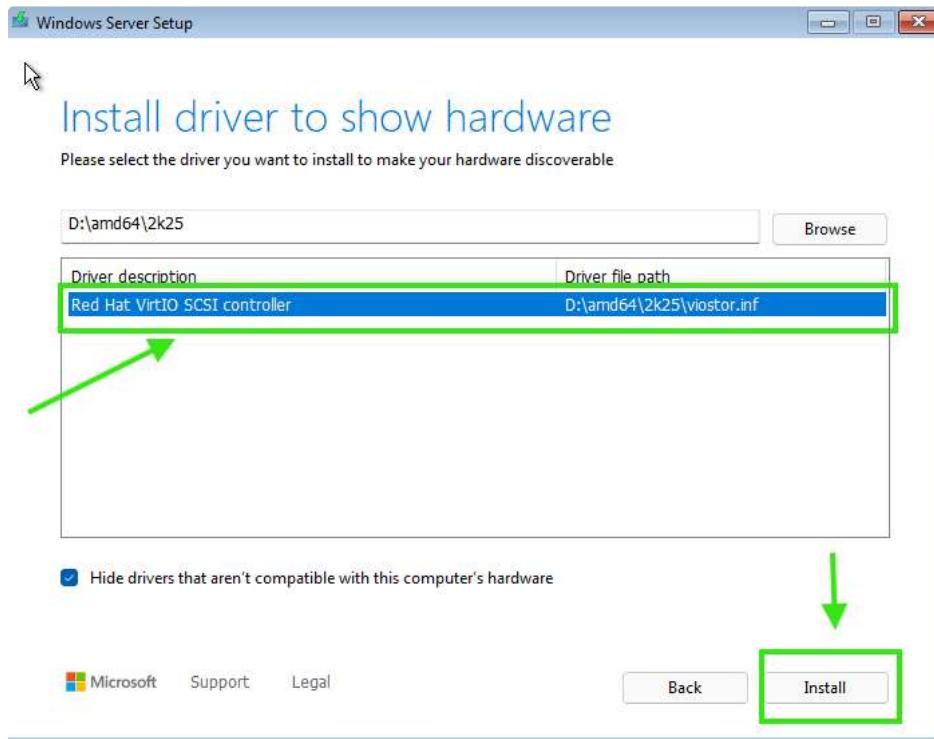


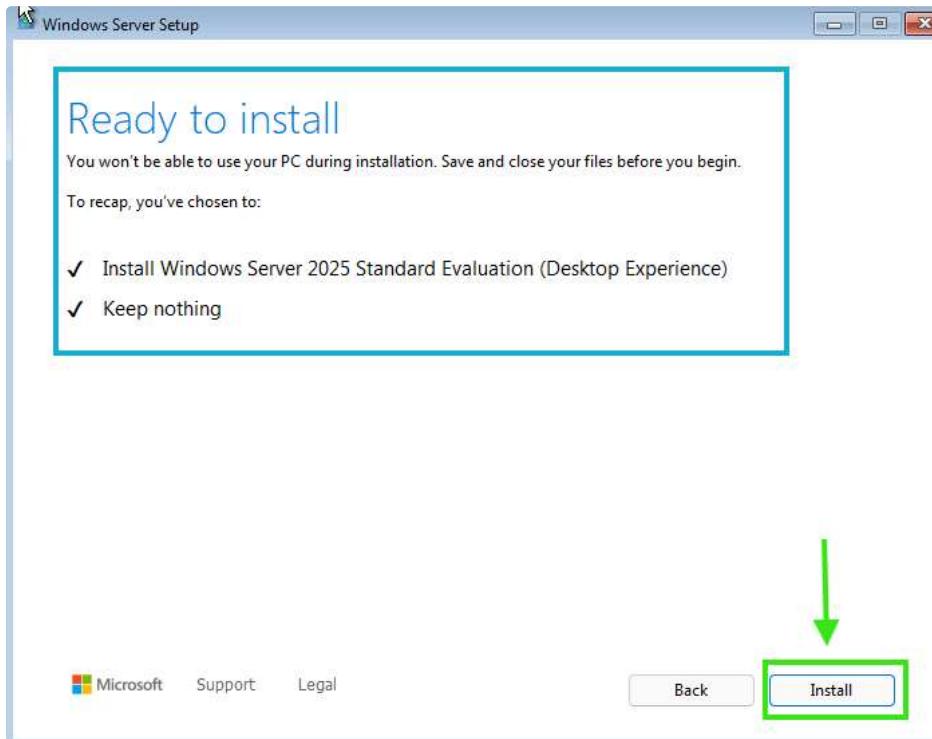
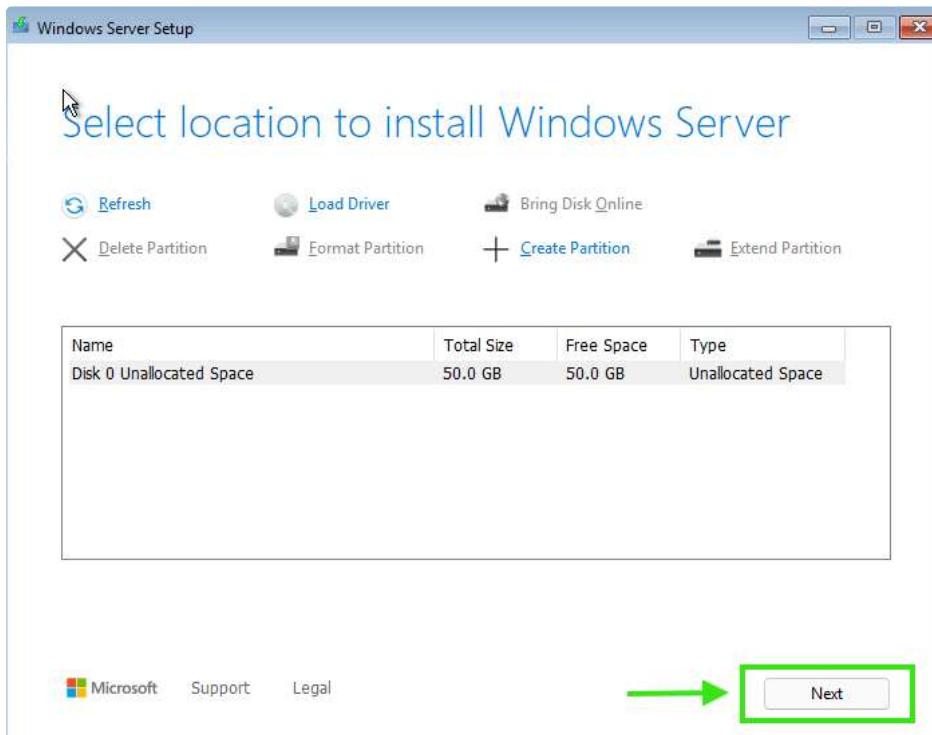


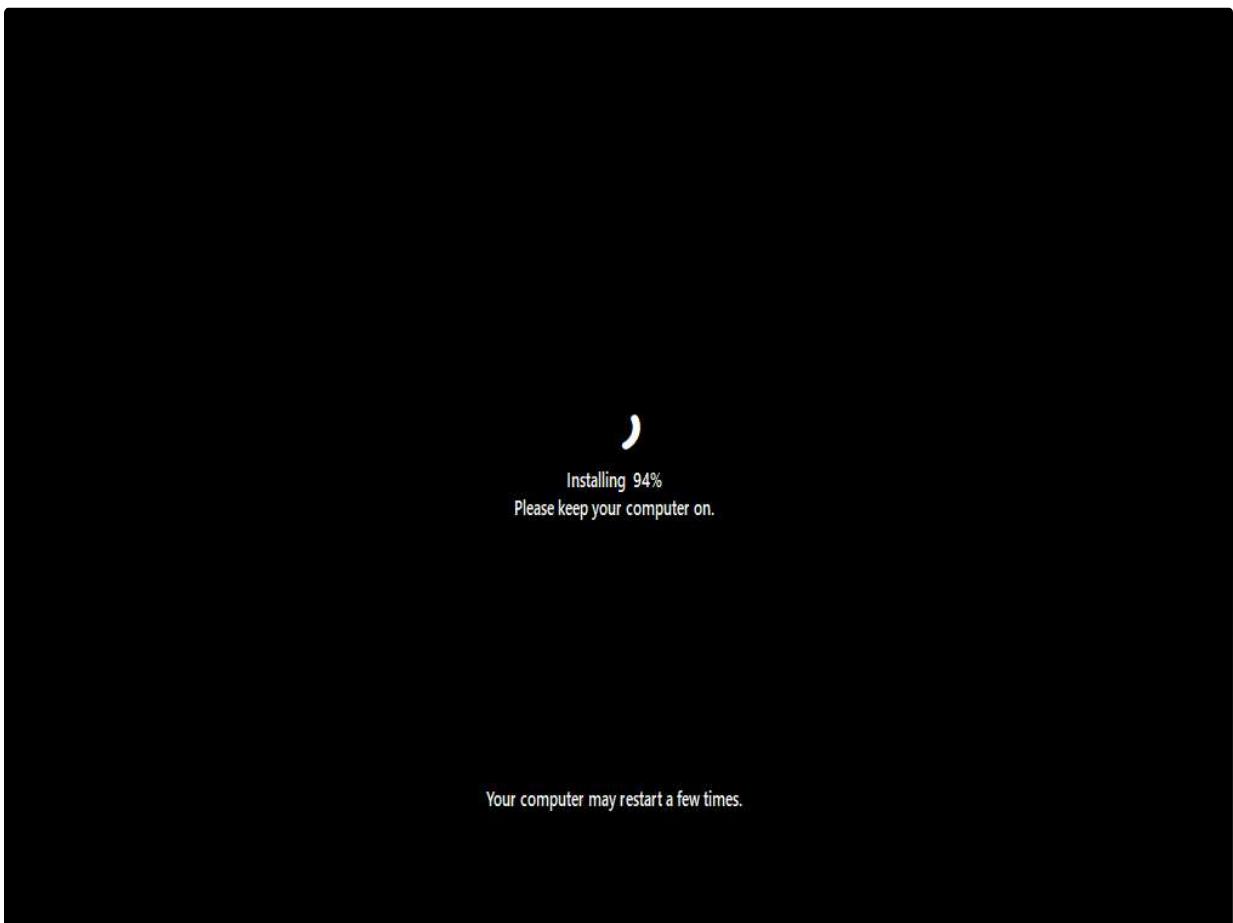
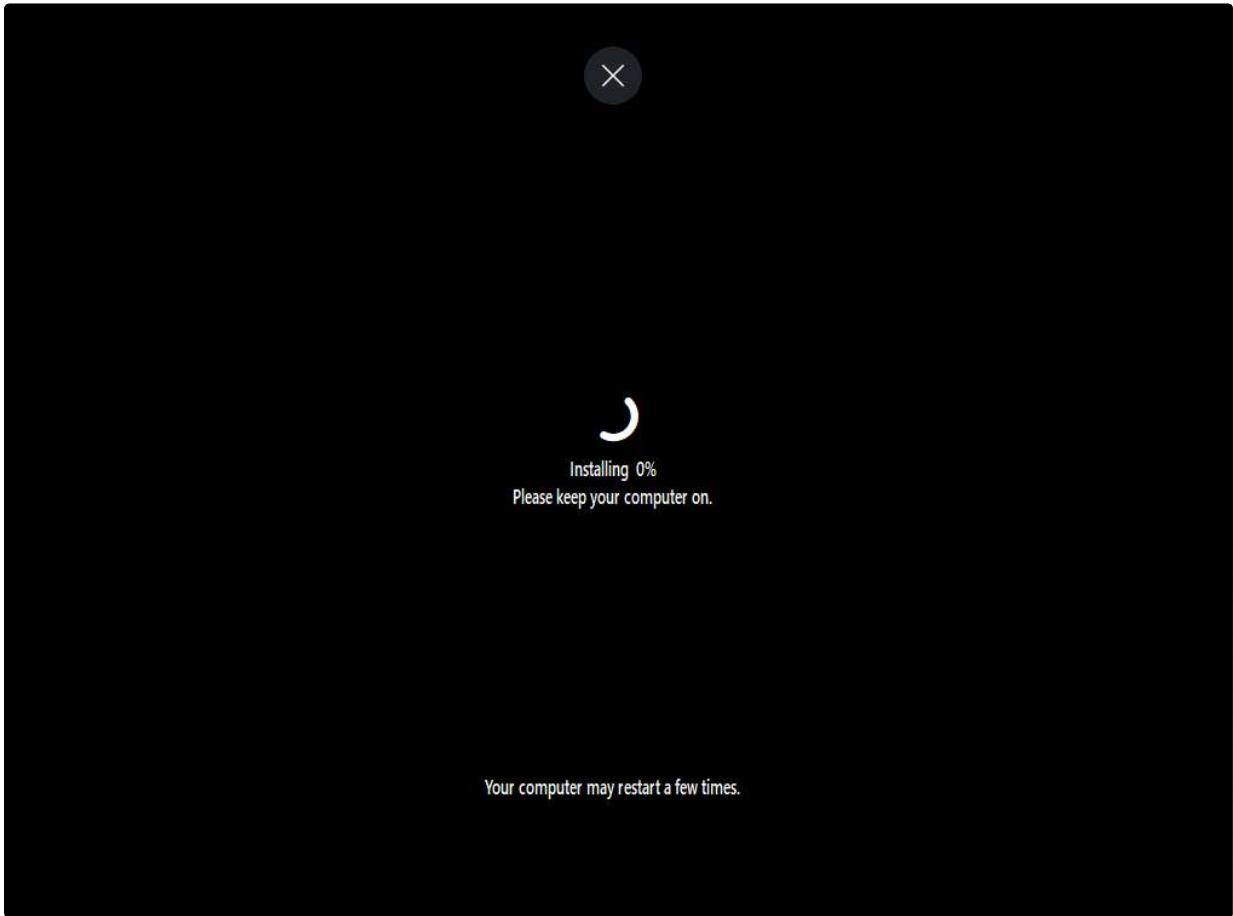


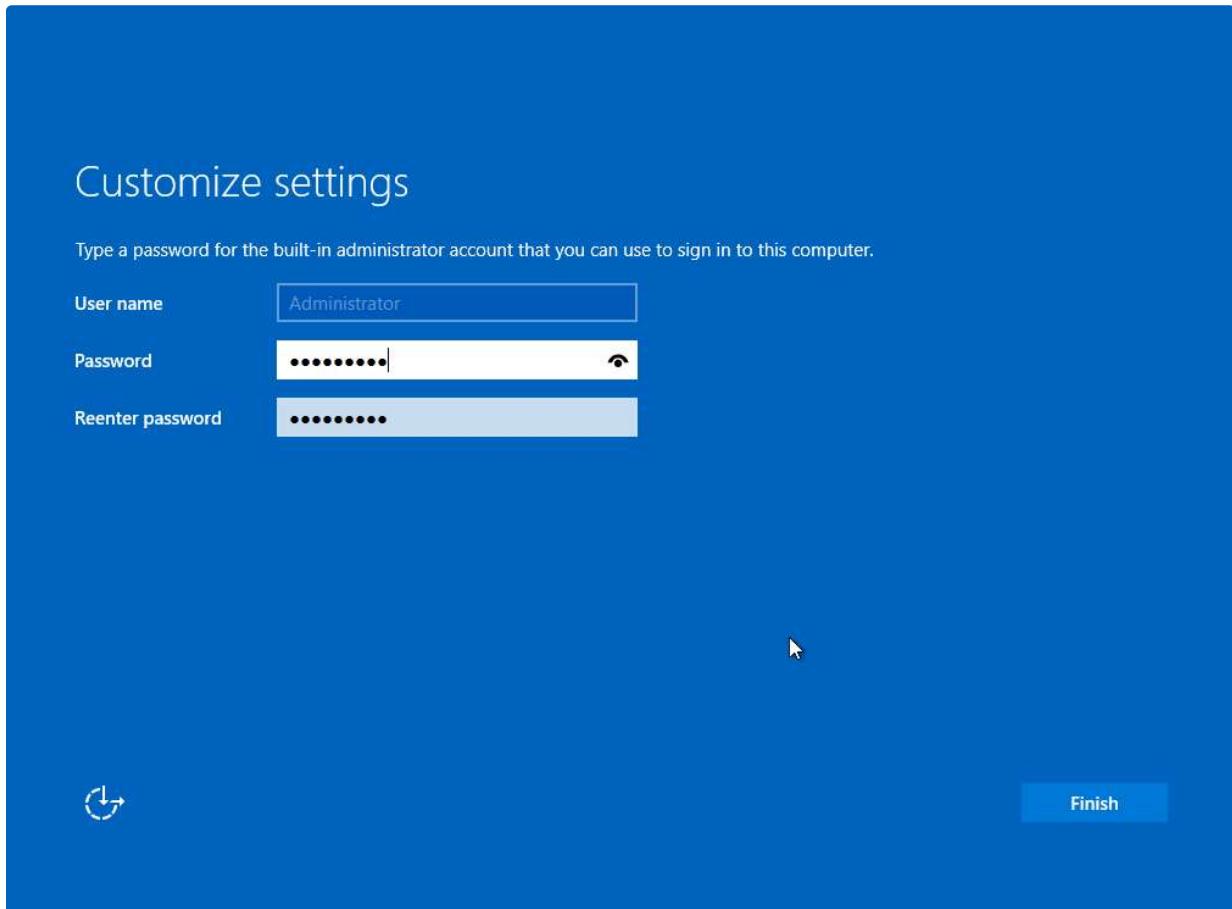
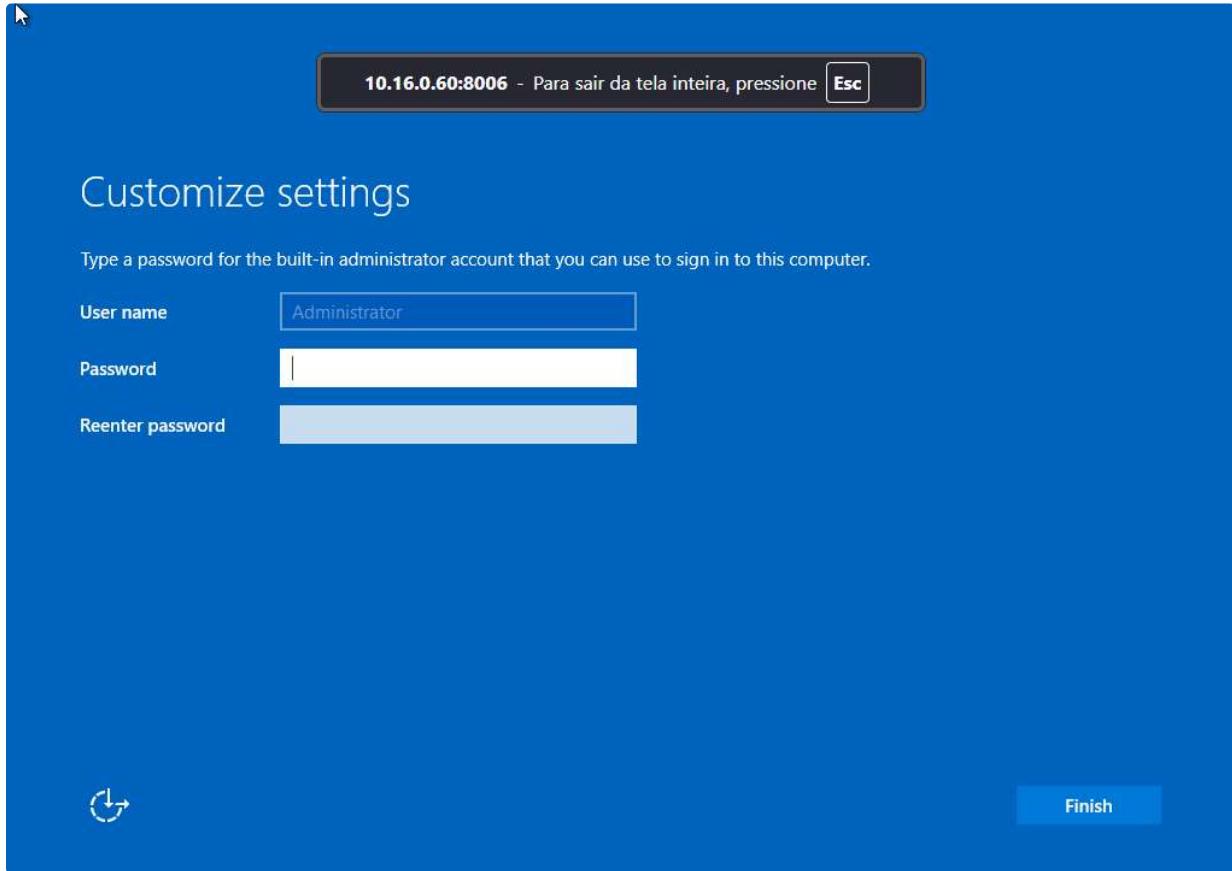


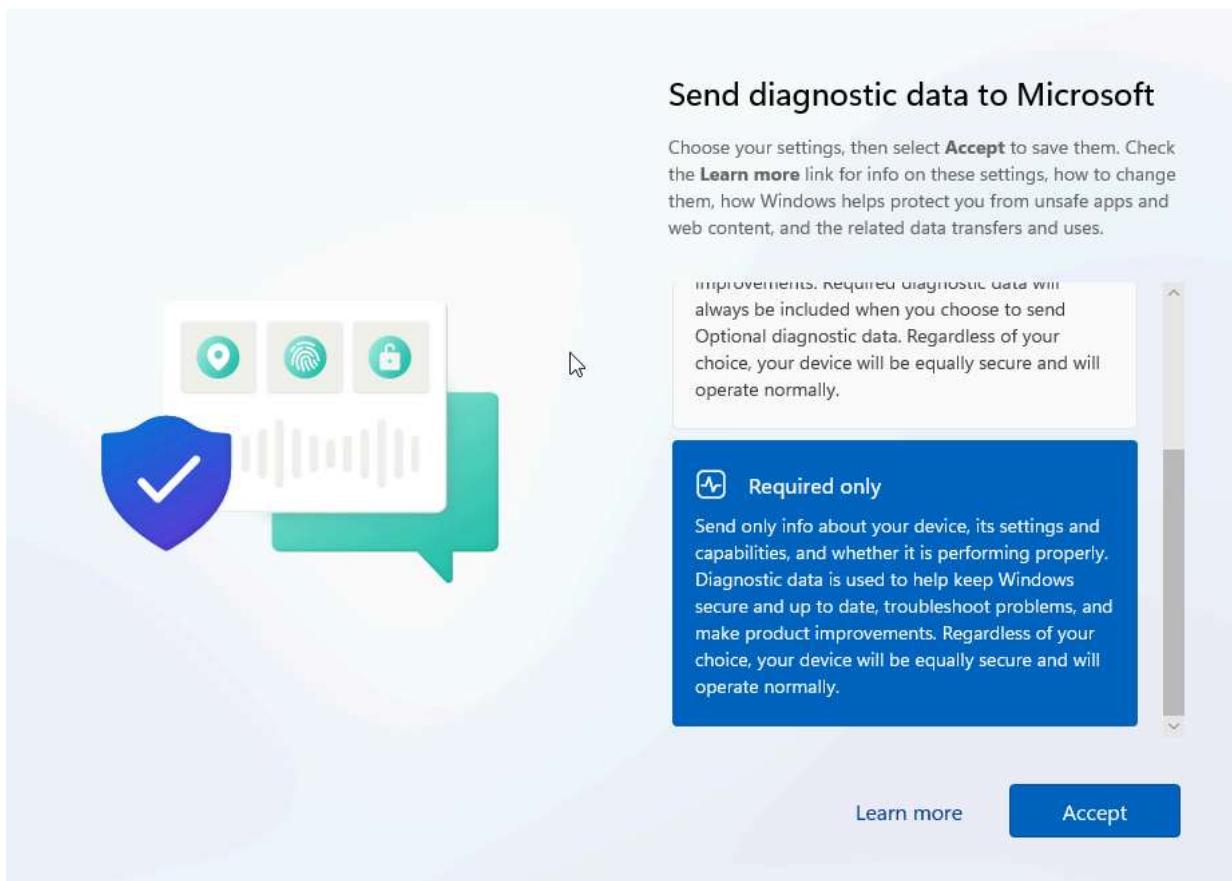
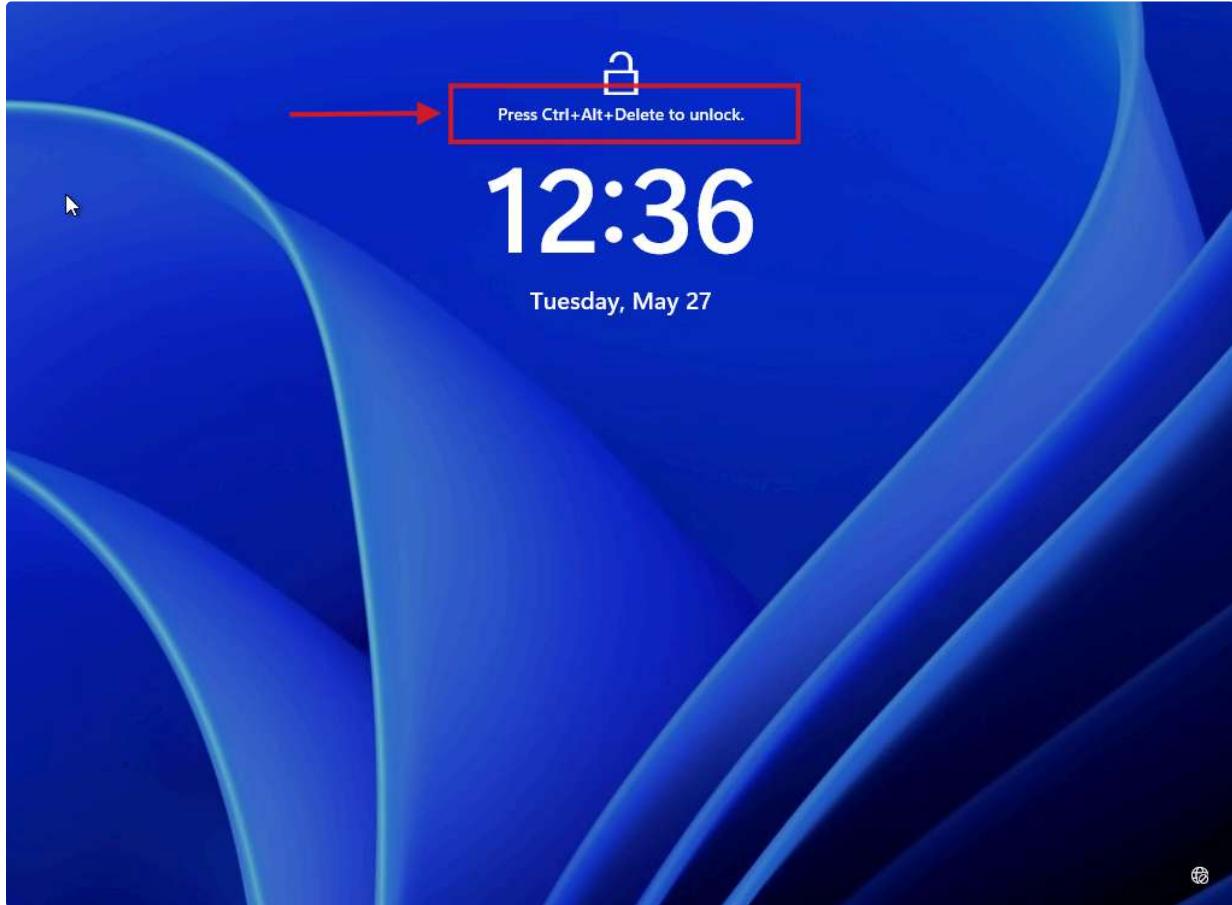


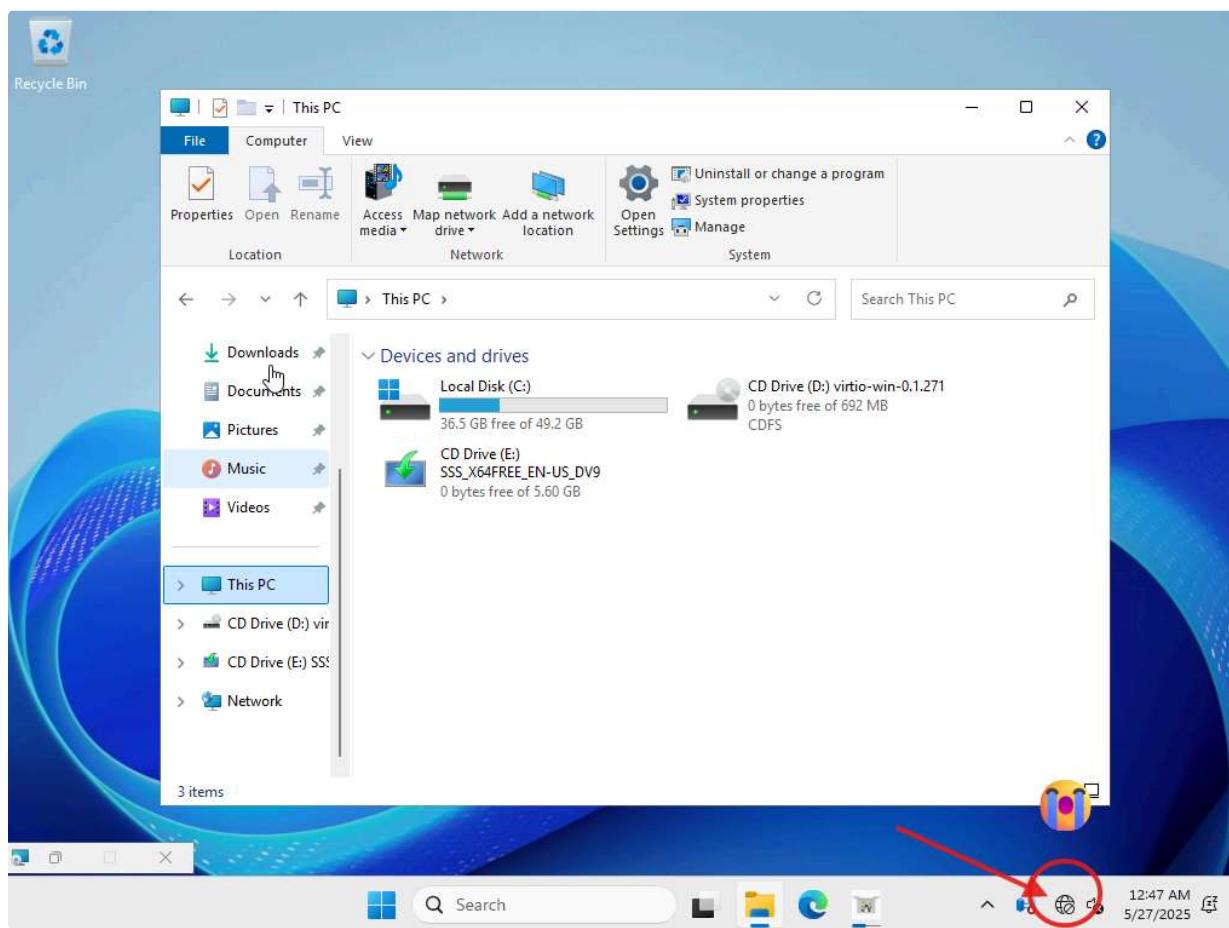
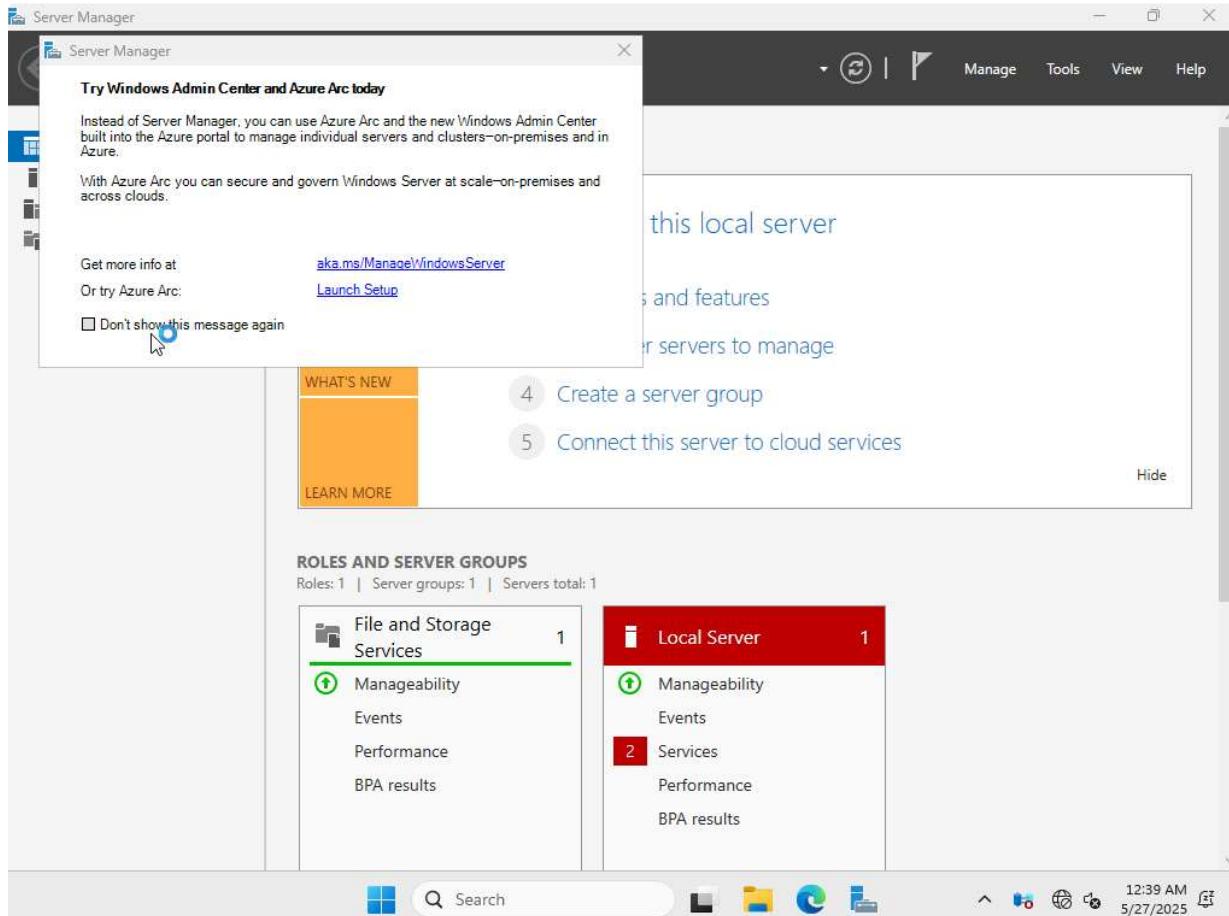


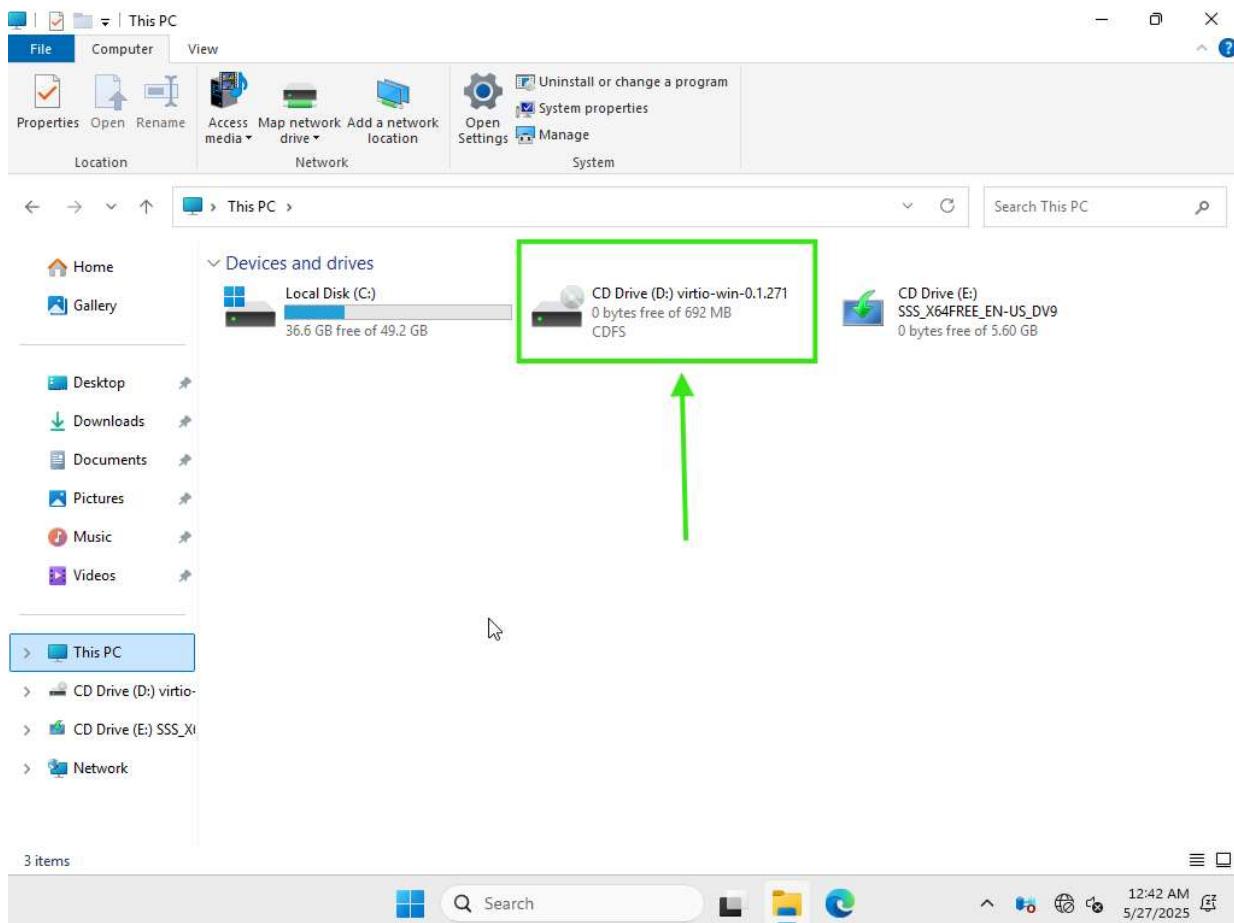
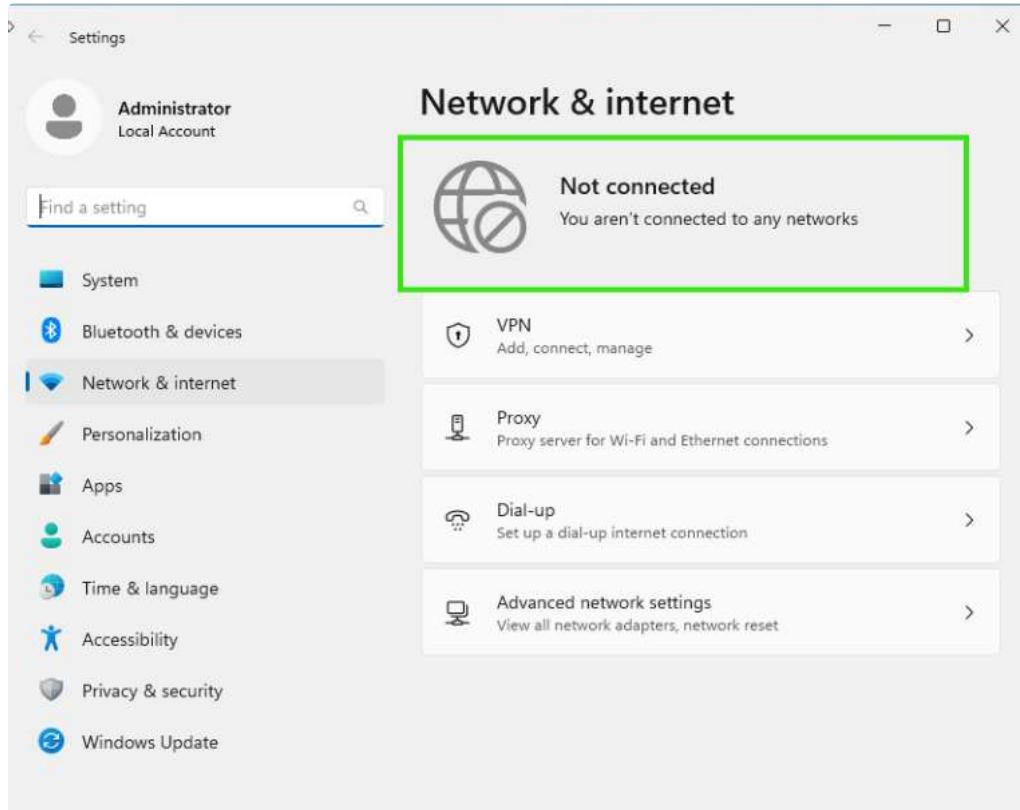


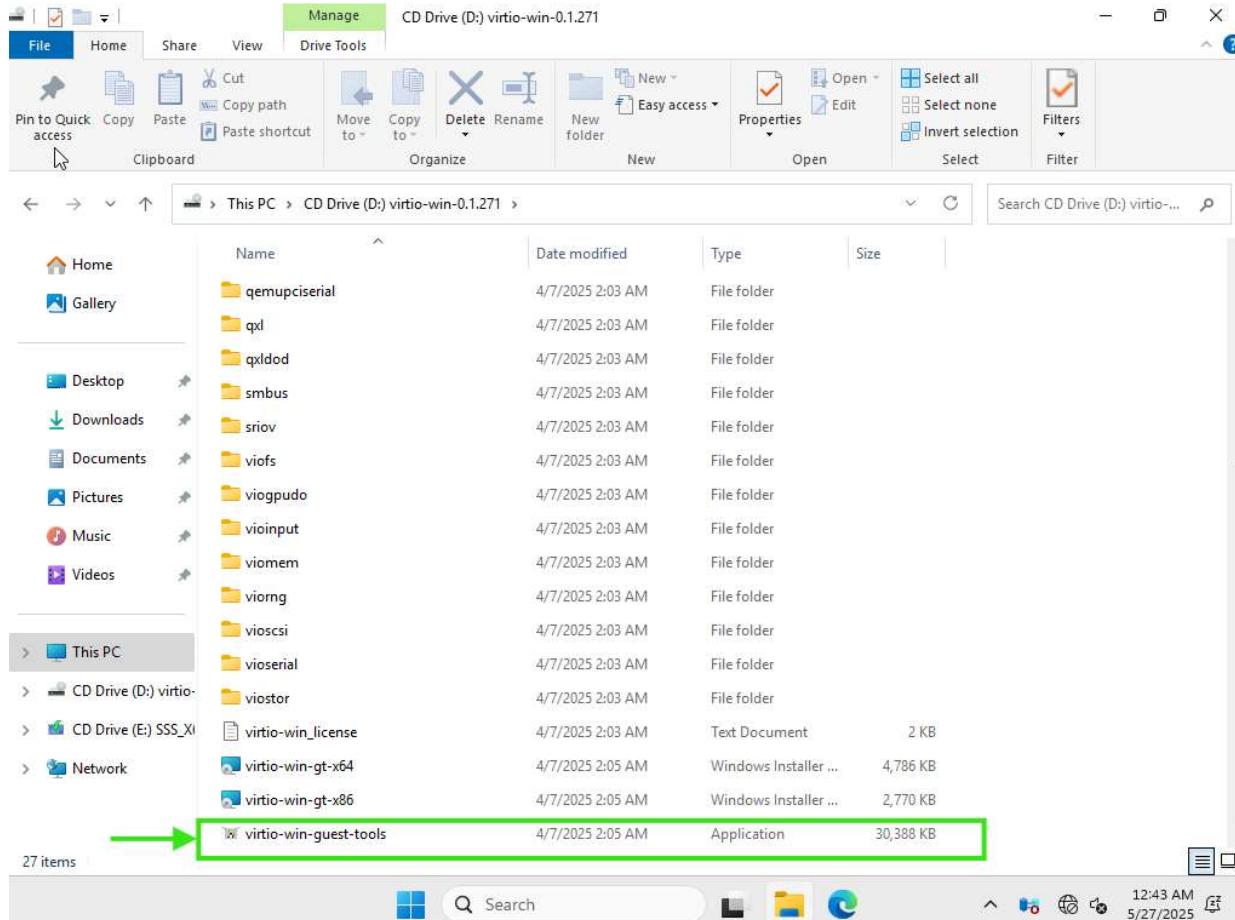


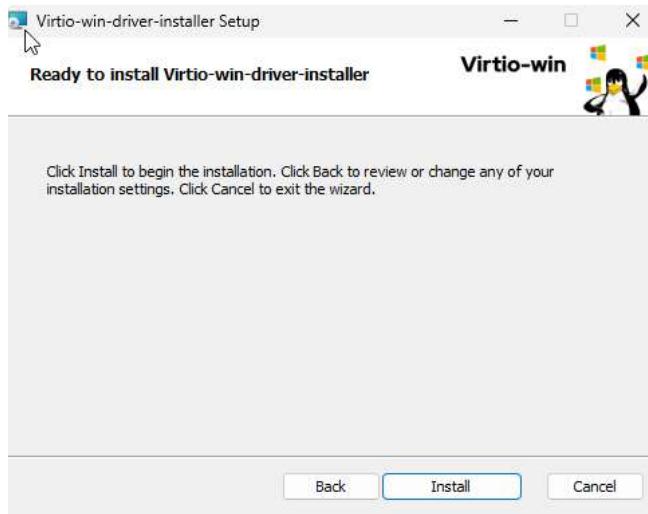
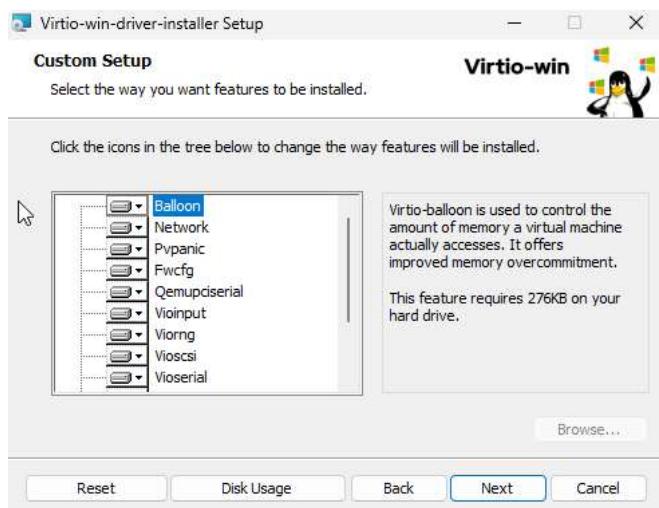


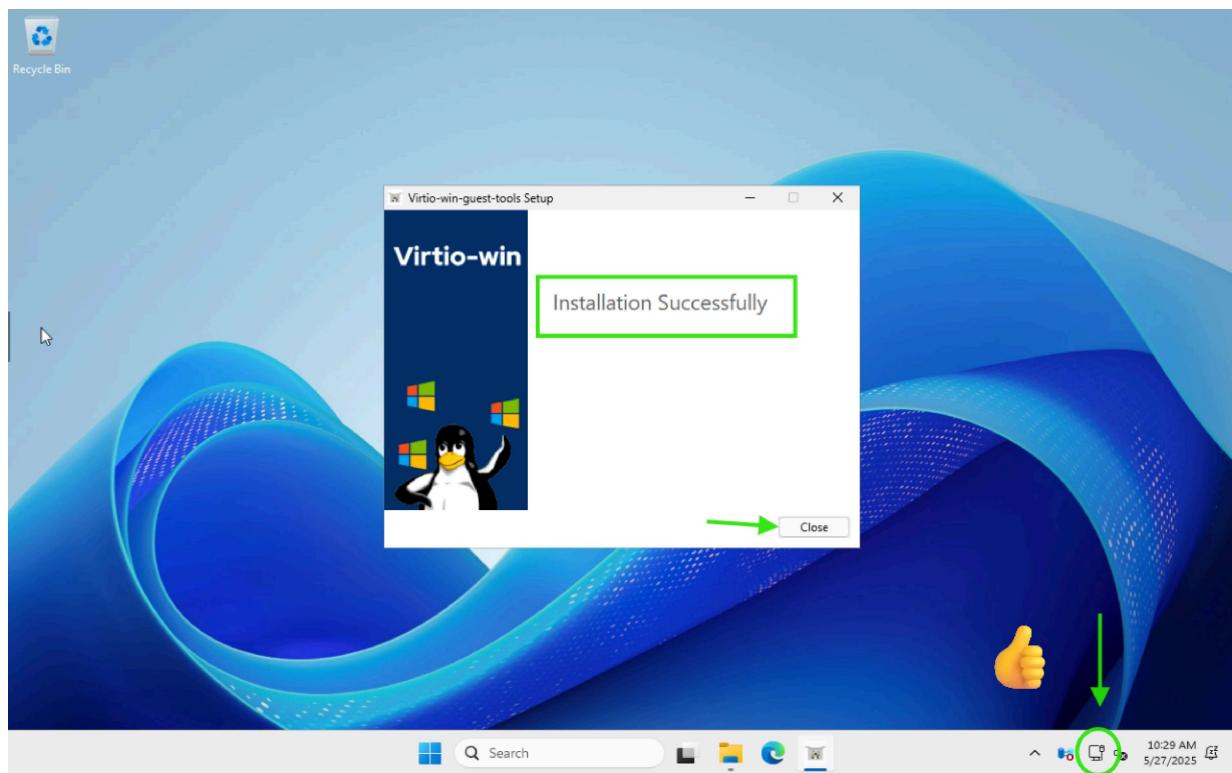
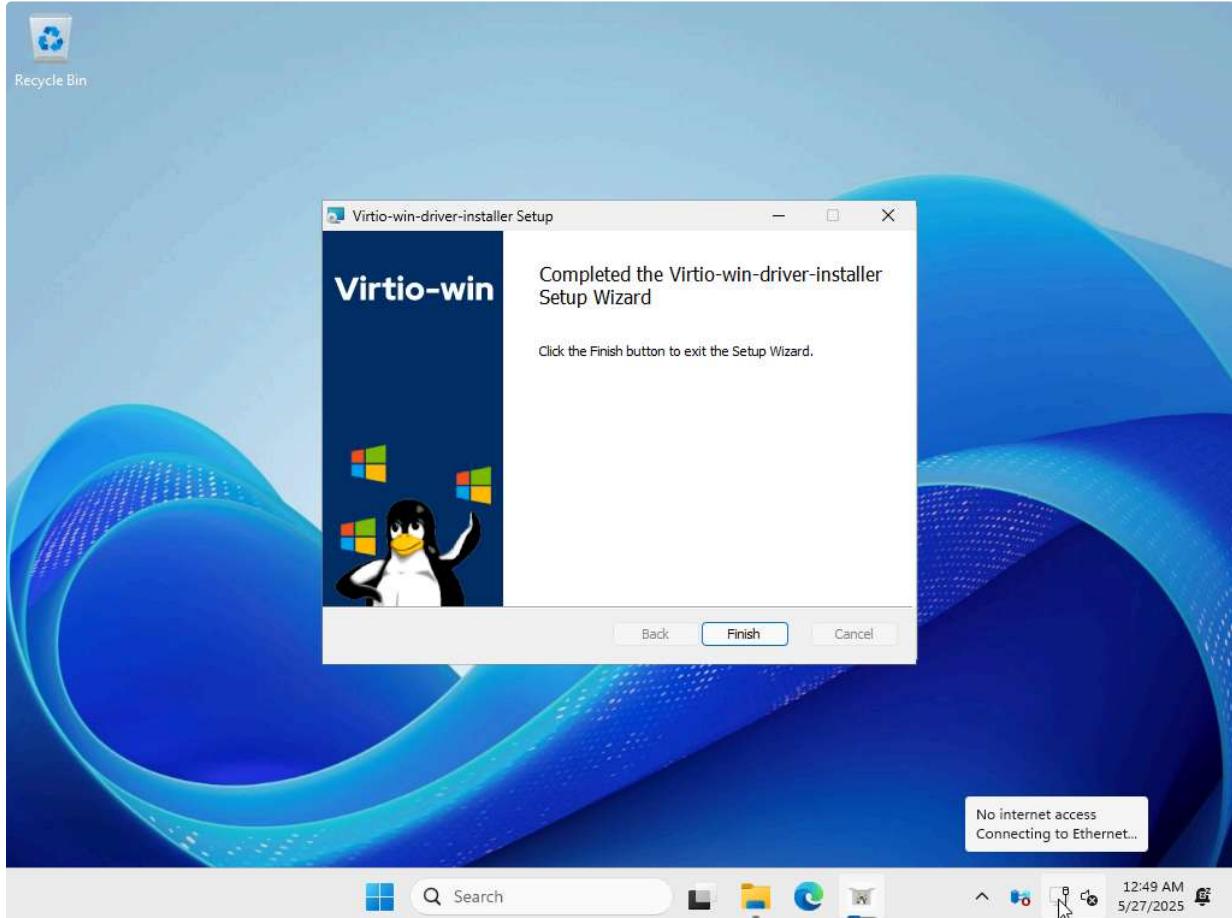


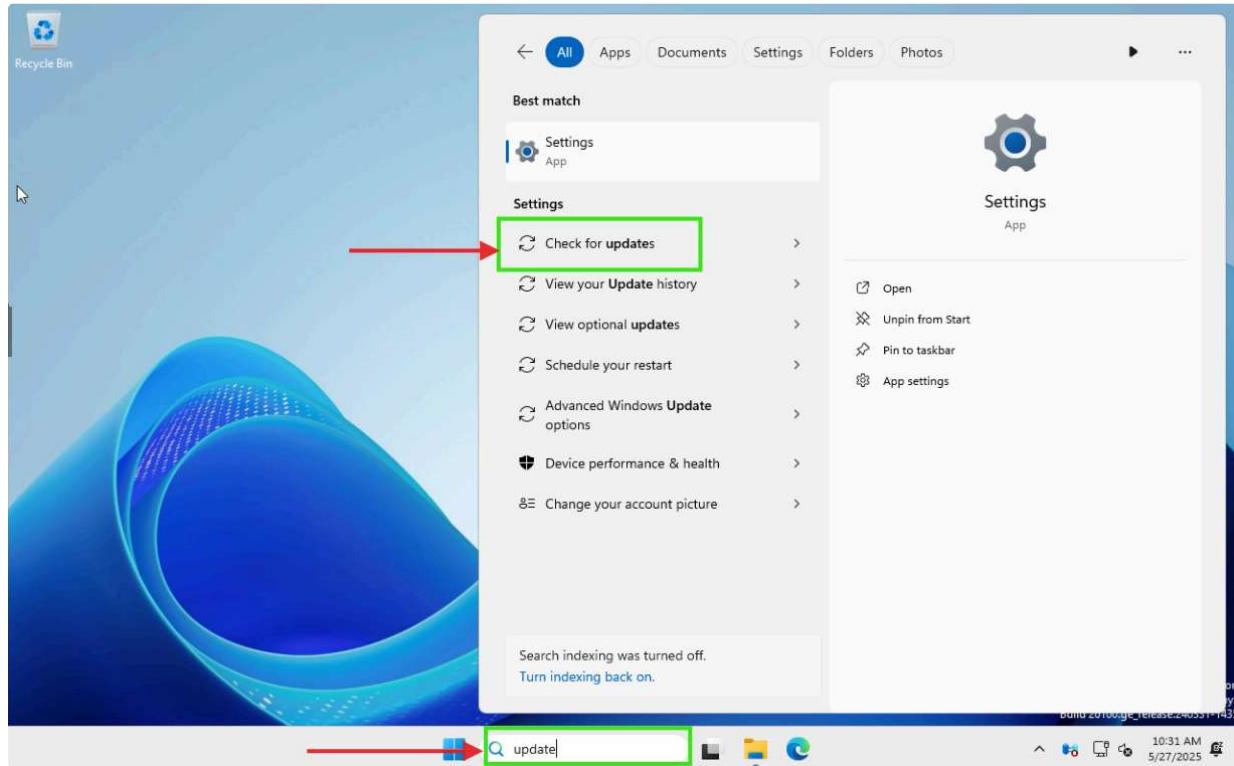
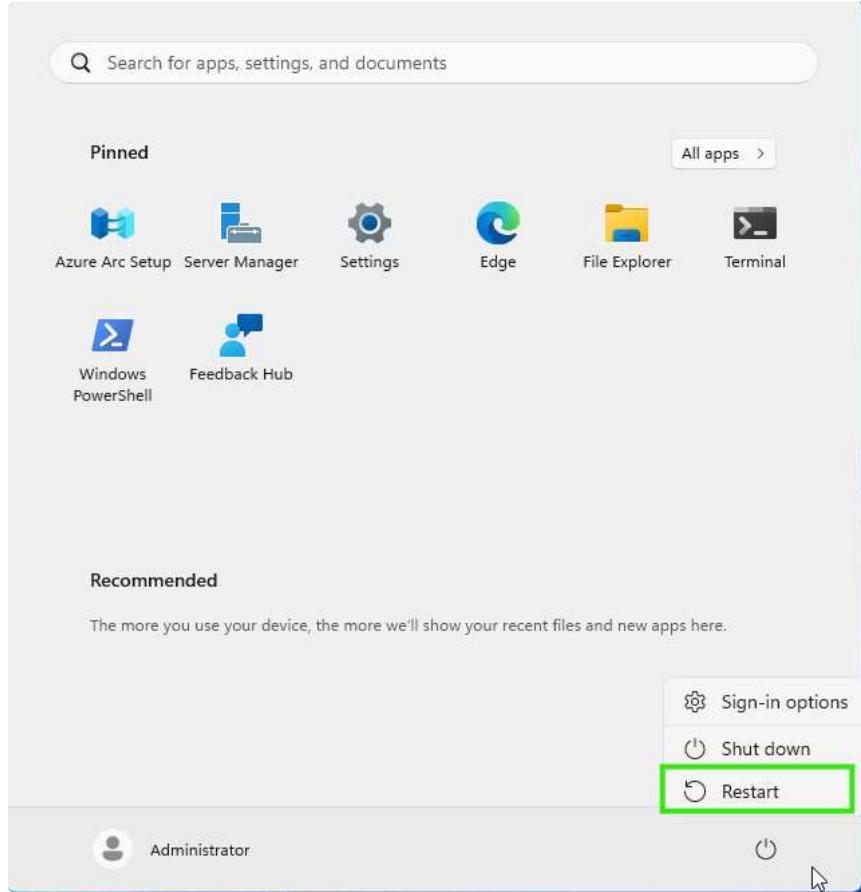


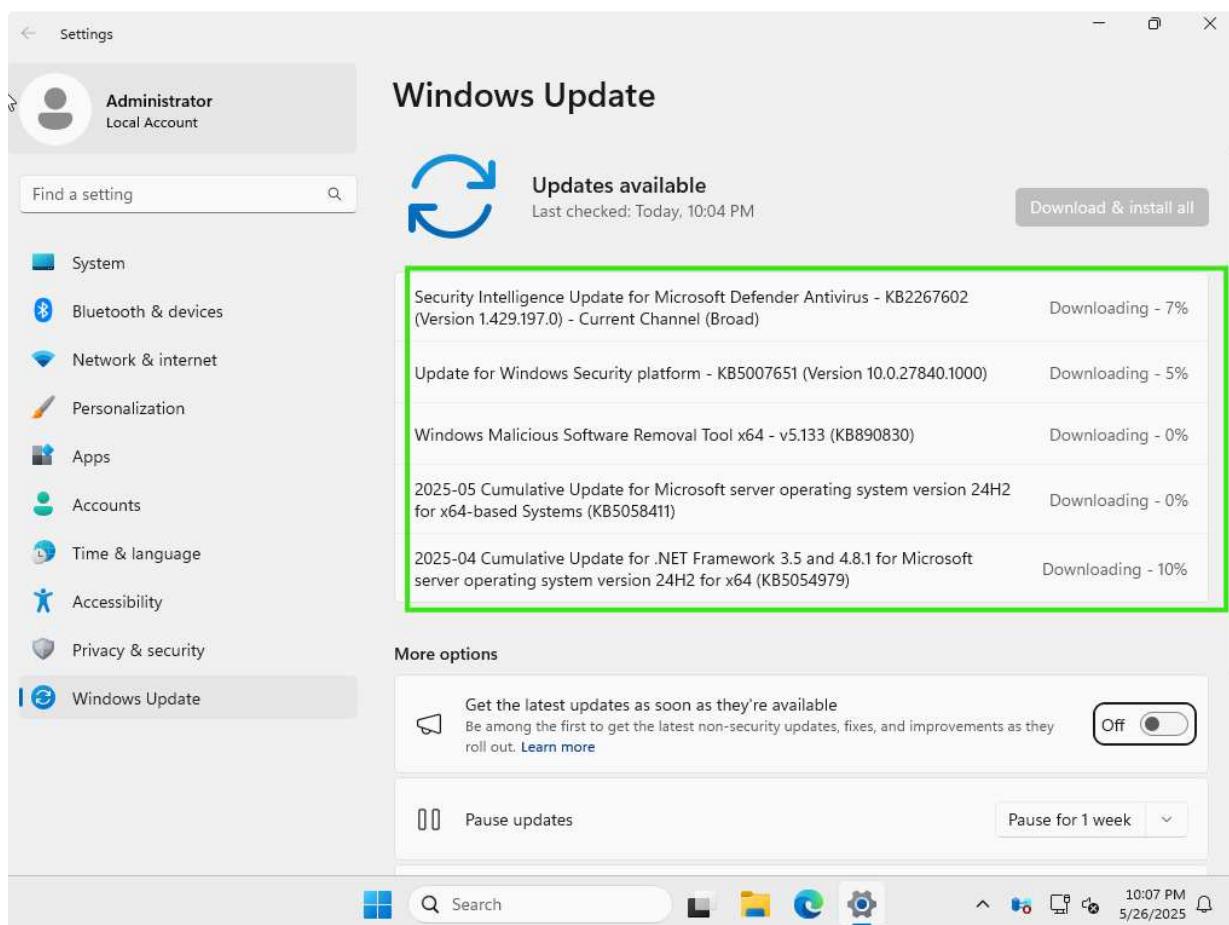
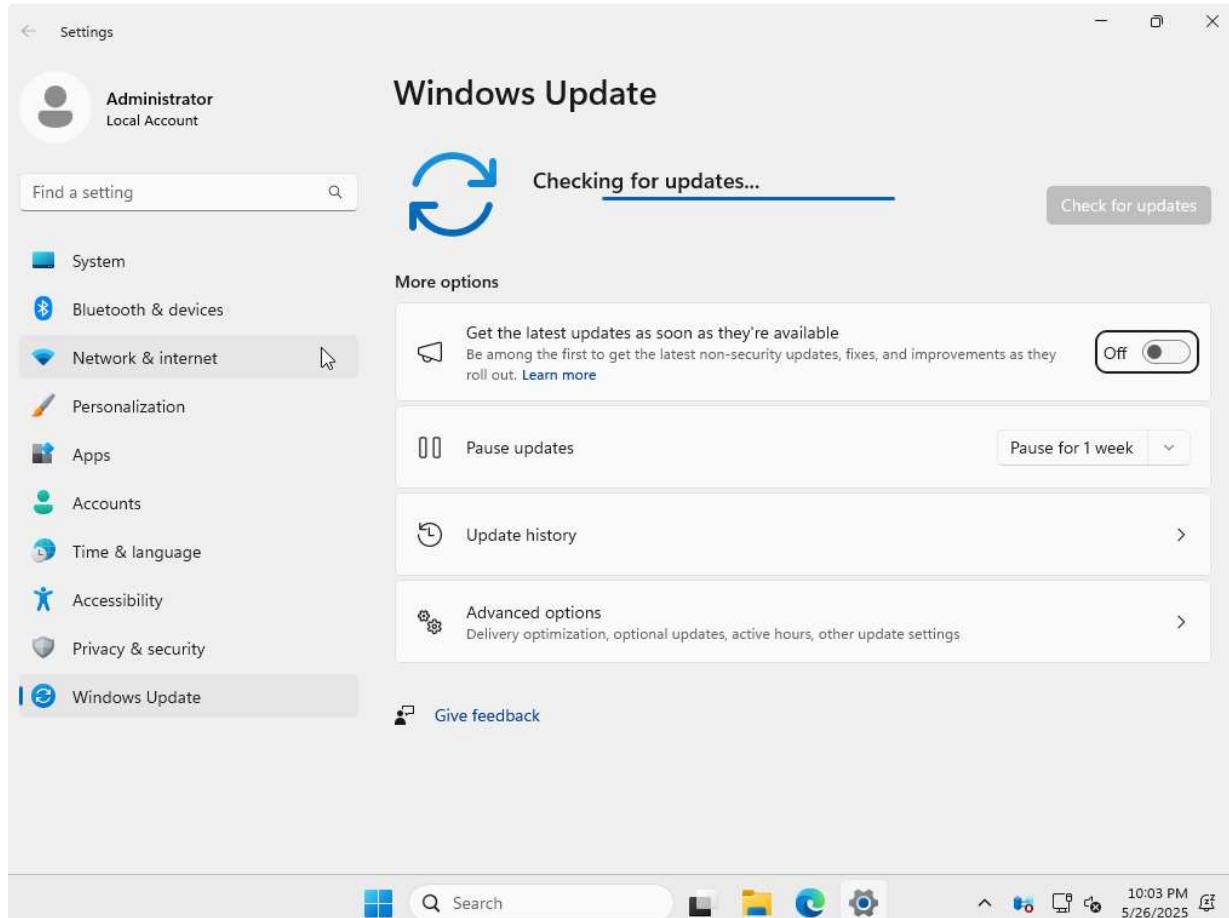


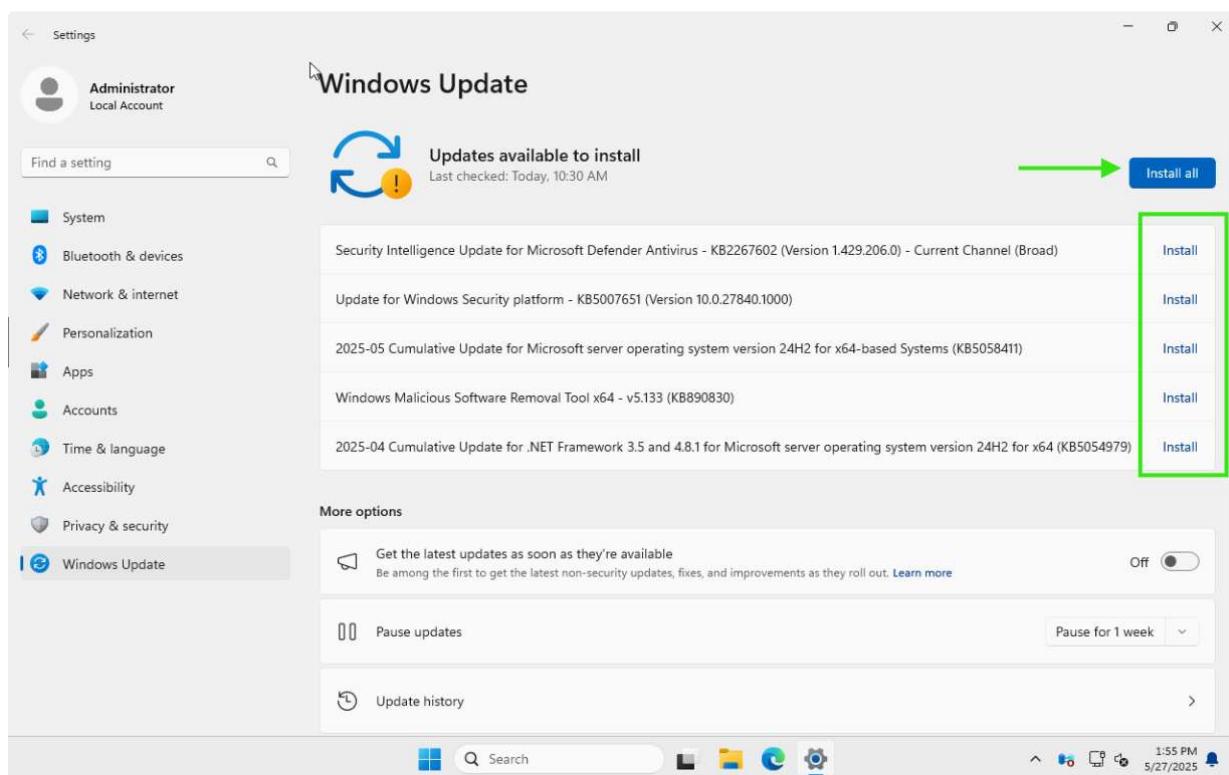
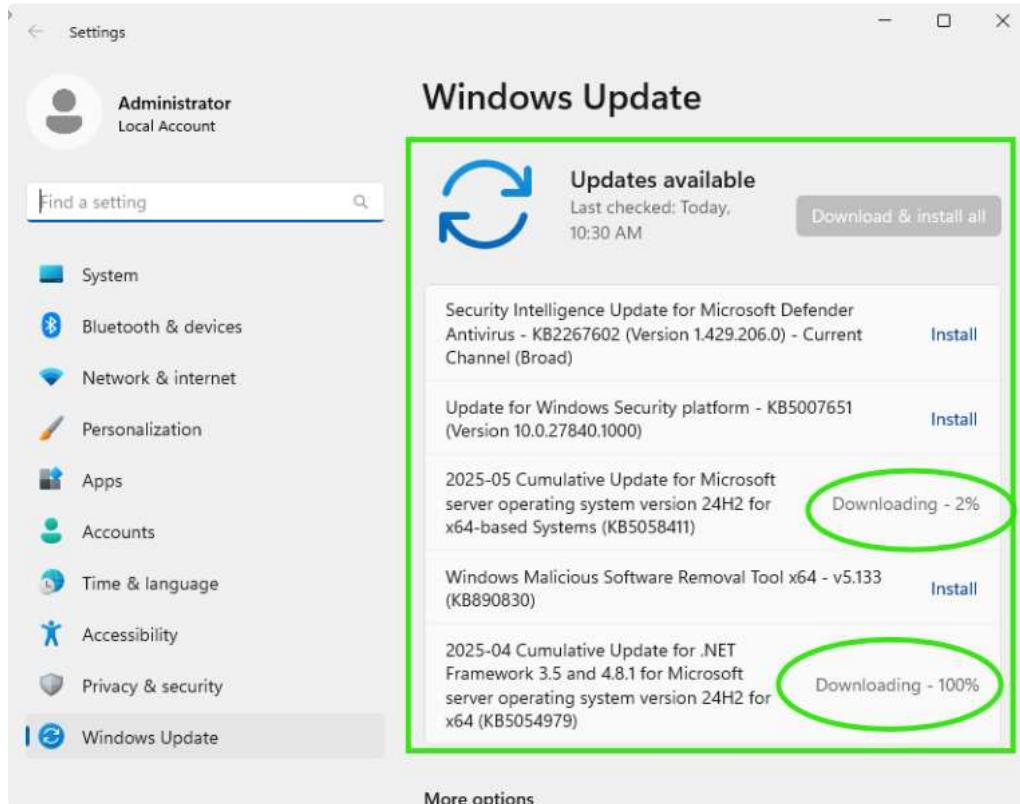


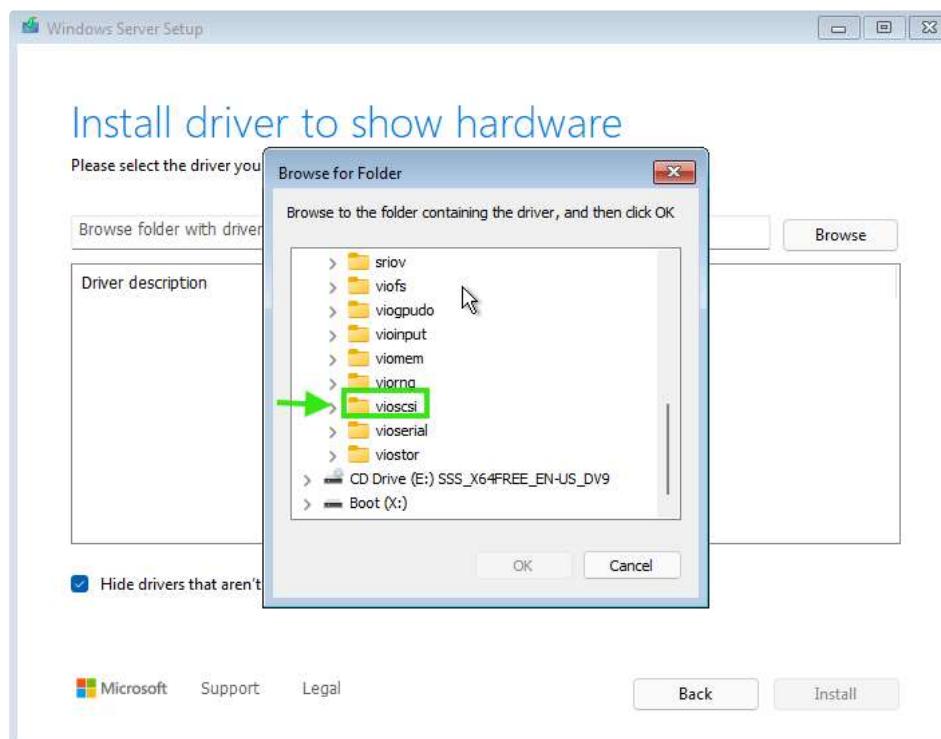
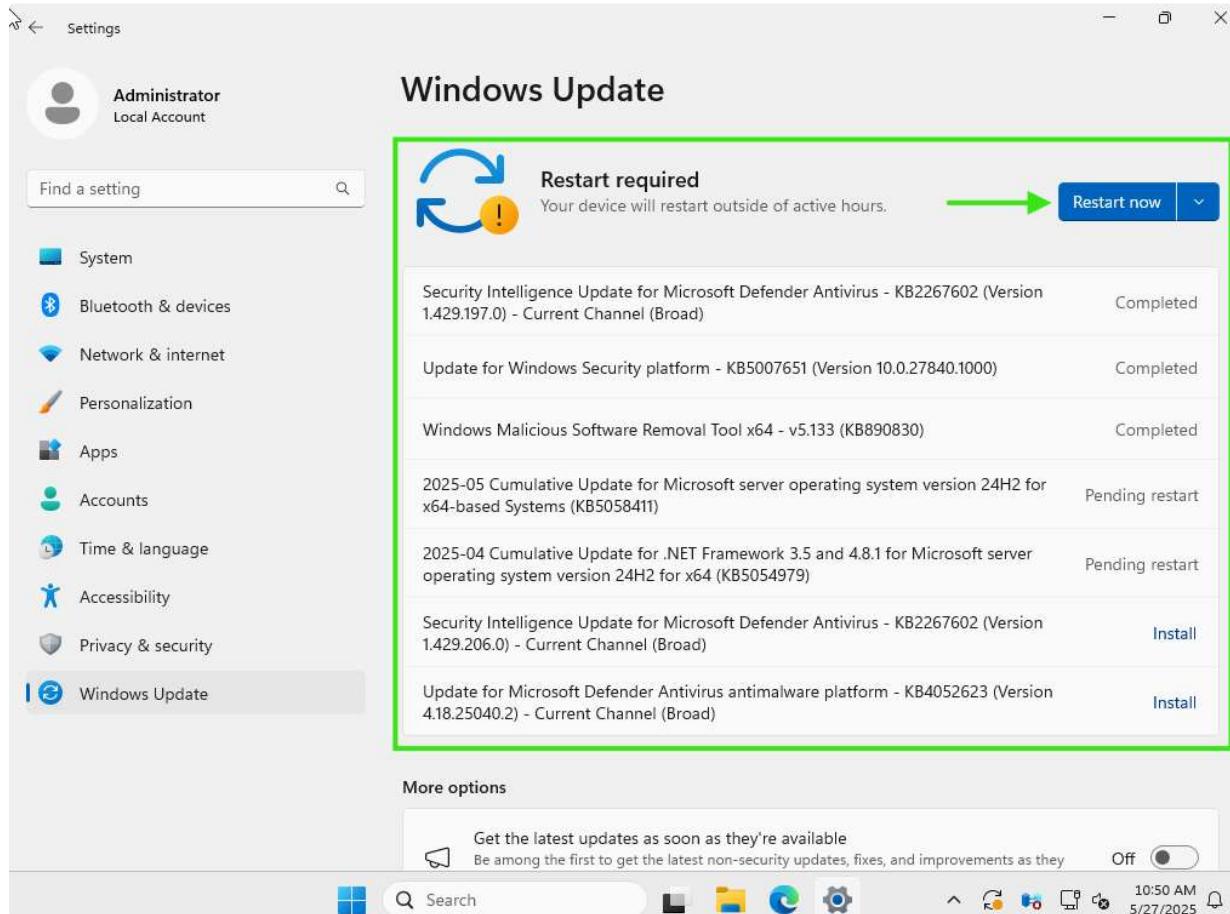


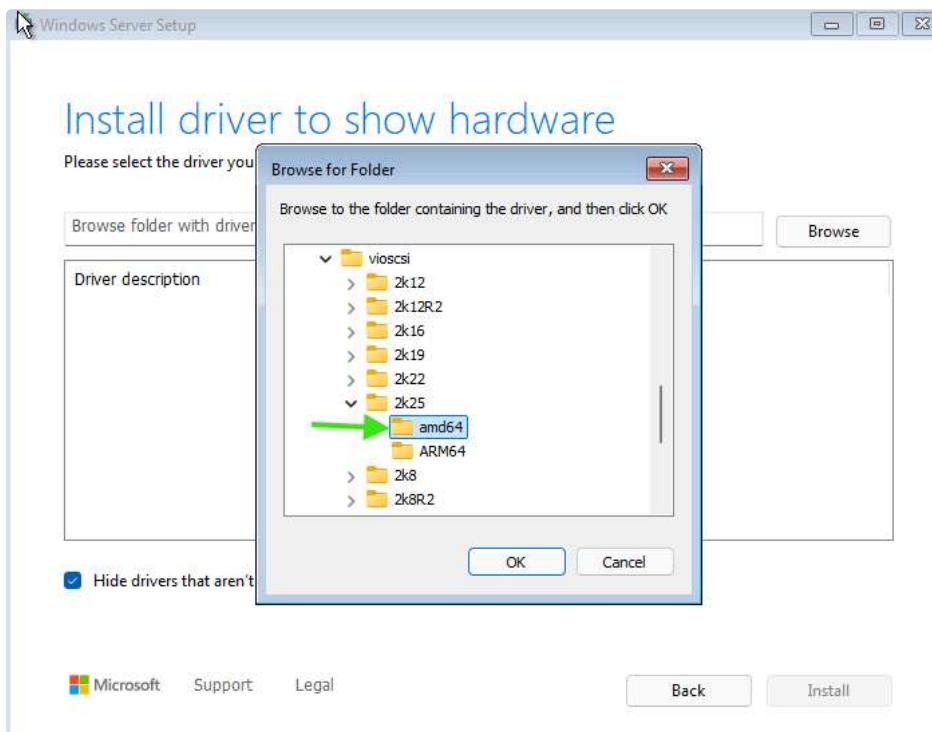
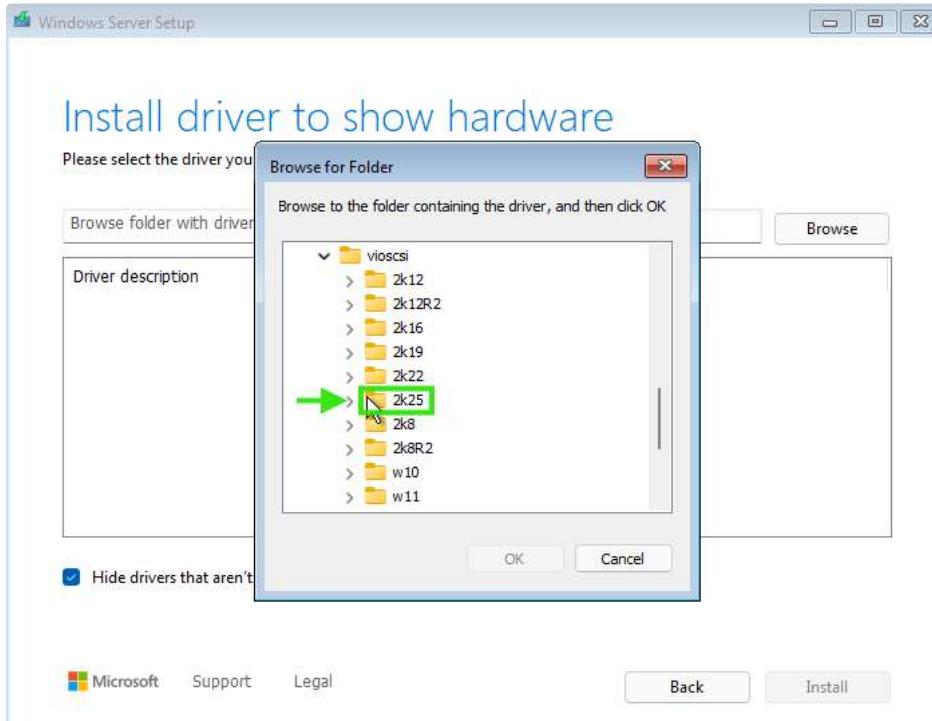












Drivers virtuio

 Windows VirtIO Drivers - Proxmox VE

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

Installation

Using the ISO

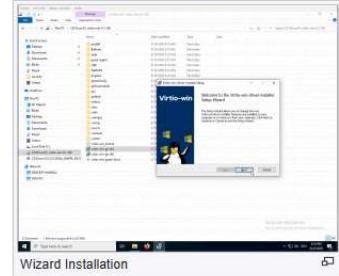
You can download the latest stable [build](#) or you can download the most recent [build](#) of the ISO. Normally the drivers are pretty stable, so one should try out the most recent release first.

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 (X)

OS General Disks CPU Memory Network Confirm

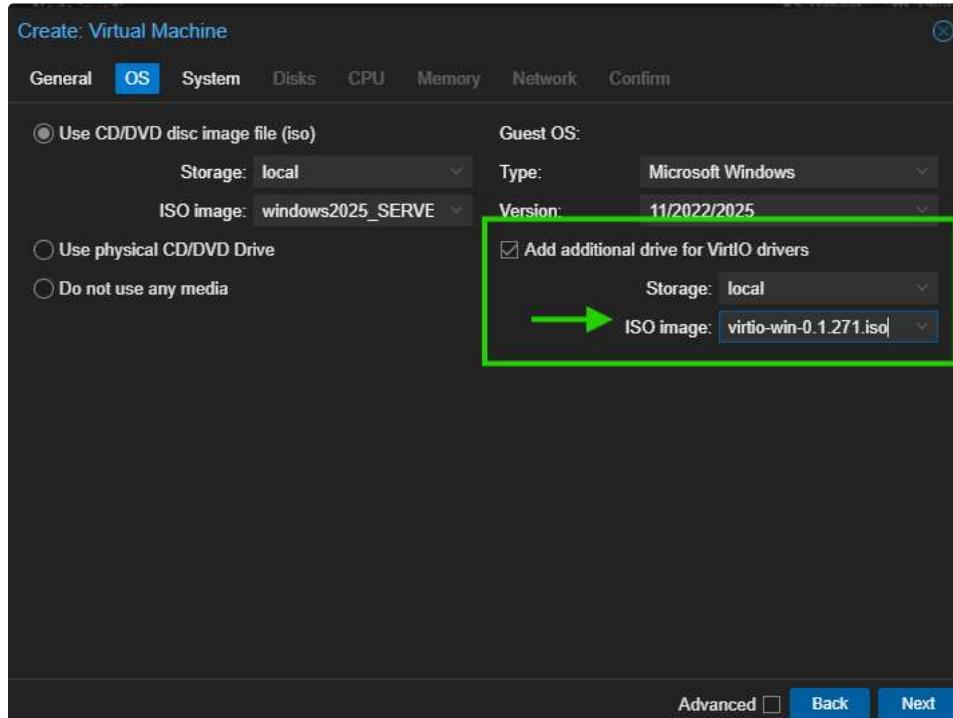
Use CD/DVD disc image file (iso) Guest OS:

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

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

Server Manager ▶ Local Server

PROPERTIES For WIN-357FPRHHL3I

Computer name	WIN-357FPRHHL3I	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
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	Processors	Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz
Hardware information	QEMU Standard PC (Q35 + ICH9, 2009)	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

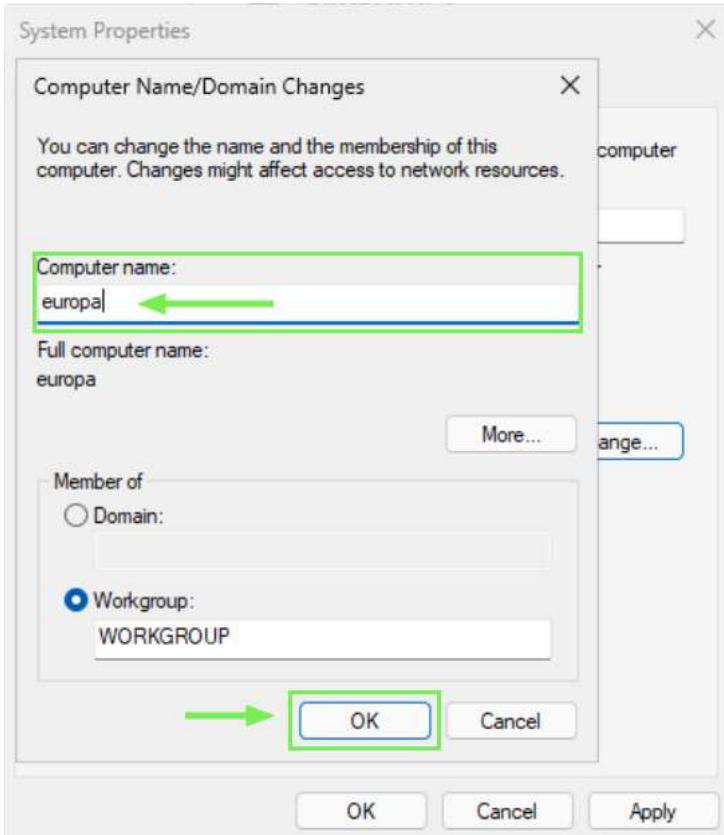
Server Manager ▶ Local Server

System Properties

Computer Name	Hardware	Advanced	Remote
<p>Windows uses the following information to identify your computer on the network.</p> <p>Computer description: Controlador de Domínio</p> <p>For example: "IIS Production Server" or "Accounting Server".</p> <p>Full computer name: WIN-357FPRHHL3I</p> <p>Workgroup: WORKGROUP</p> <p>To rename this computer or change its domain or workgroup, click Change.</p> <p>Change...</p>			
<p>Last installed updates</p> <p>Windows Update</p> <p>Last checked for updates</p>			
<p>Microsoft Defender Antivirus</p> <p>Real-Time Protection: On</p> <p>Feedback & Diagnostics</p> <p>Settings</p> <p>IE Enhanced Security Configuration</p> <p>On</p> <p>Time zone</p> <p>(UTC-08:00) Pacific Time (US & Canada)</p> <p>Product ID</p> <p>00493-20000-00001-AA597 (activated)</p>			
<p>Microsoft Windows Server 2025 Standard Evaluation</p> <p>Processor: Intel(R) Xeon(R) CPU E5-4627 v3 @ 2.60GHz</p> <p>Installed memory (RAM): 7.98 GB</p> <p>Total disk space: 49.22 GB</p>			

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

Local Server

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:
- 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: On

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

00493-20000-00001-AA597 (activated)

Before restarting, save any open files and close all programs.

OK

C (Q35 + ICH9, 2009)

Installed memory (RAM)

Total disk space

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

7.98 GB

49.22 GB

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

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

Network Connections

Network and Internet > **Network Connections**

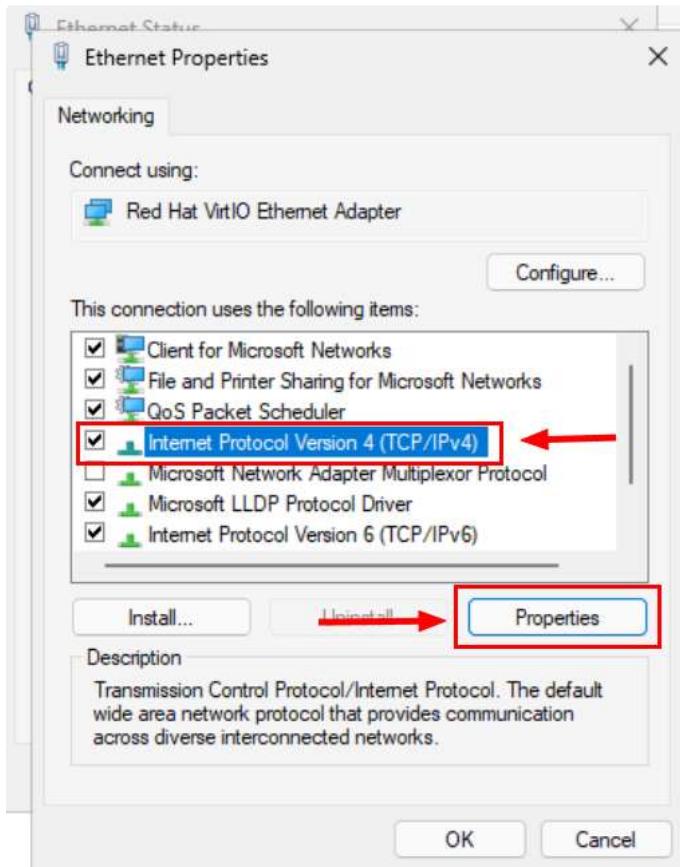
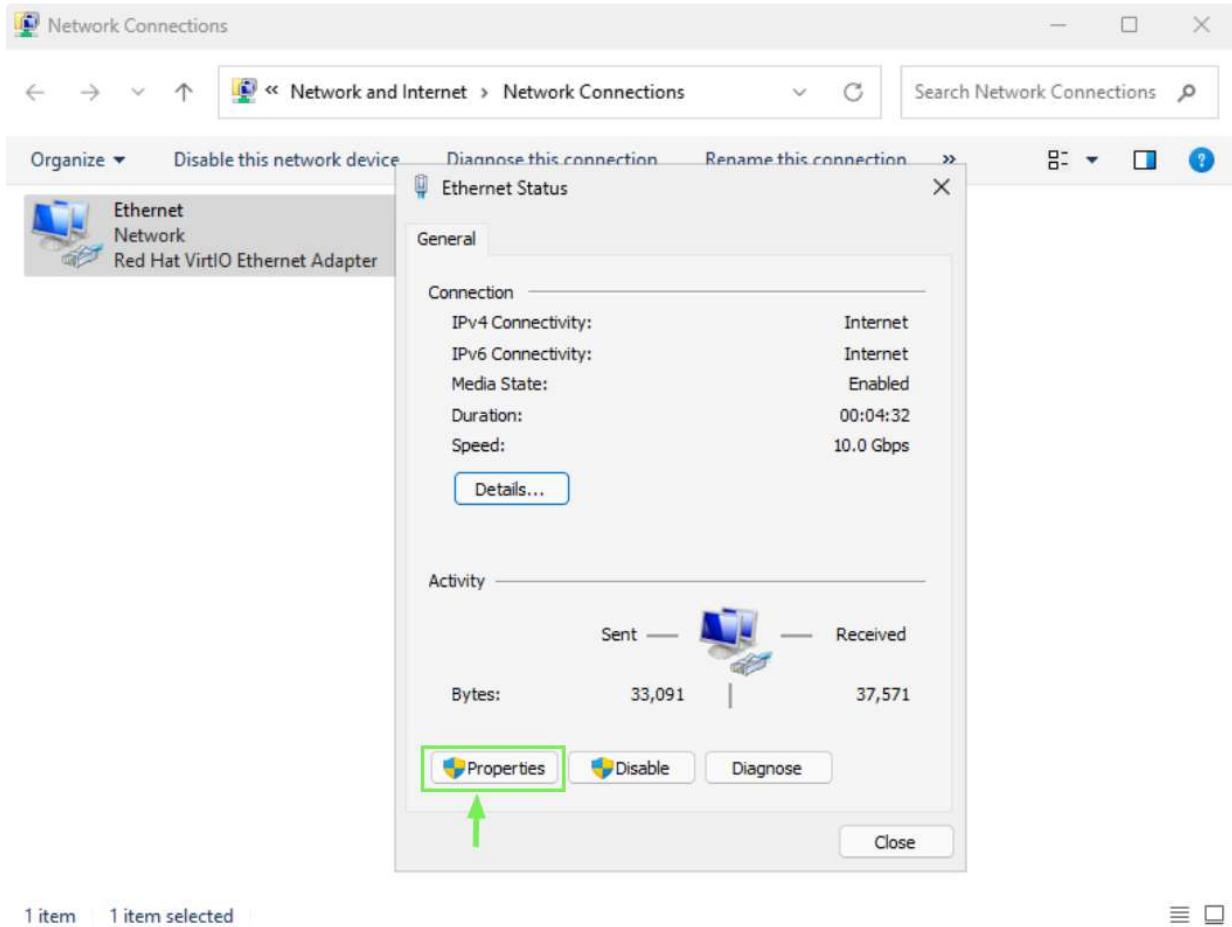
Ethernet
Network
Red Hat VirtIO Ethernet Adapter

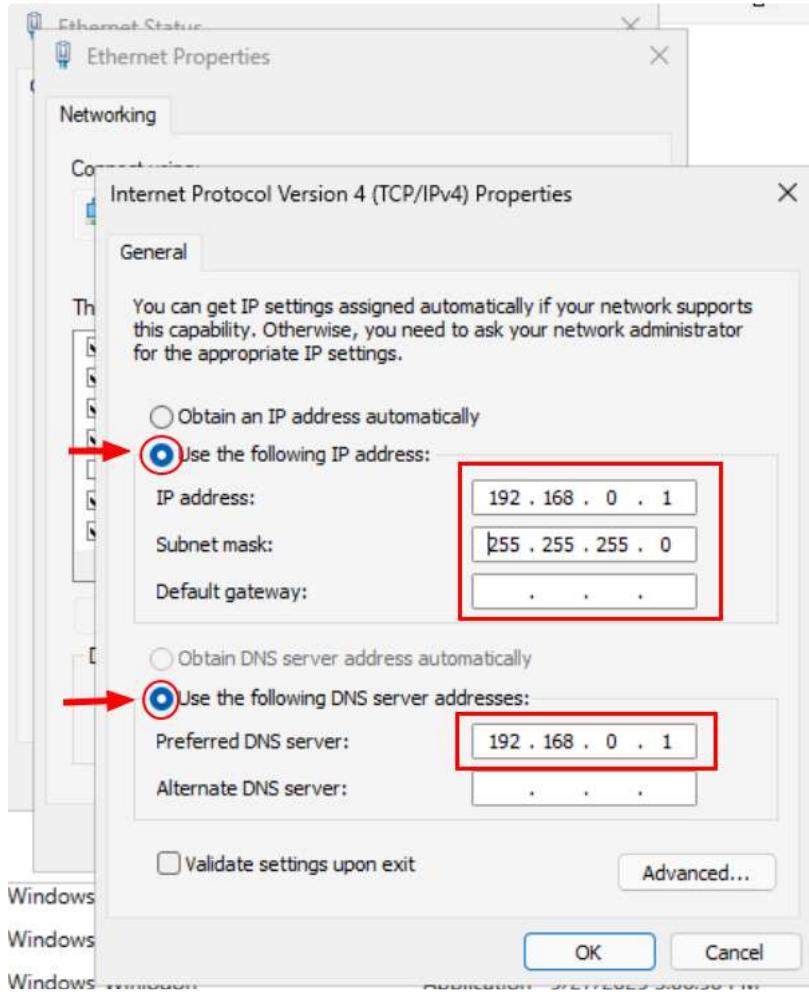
Network Connections

Network and Internet > **Network Connections**

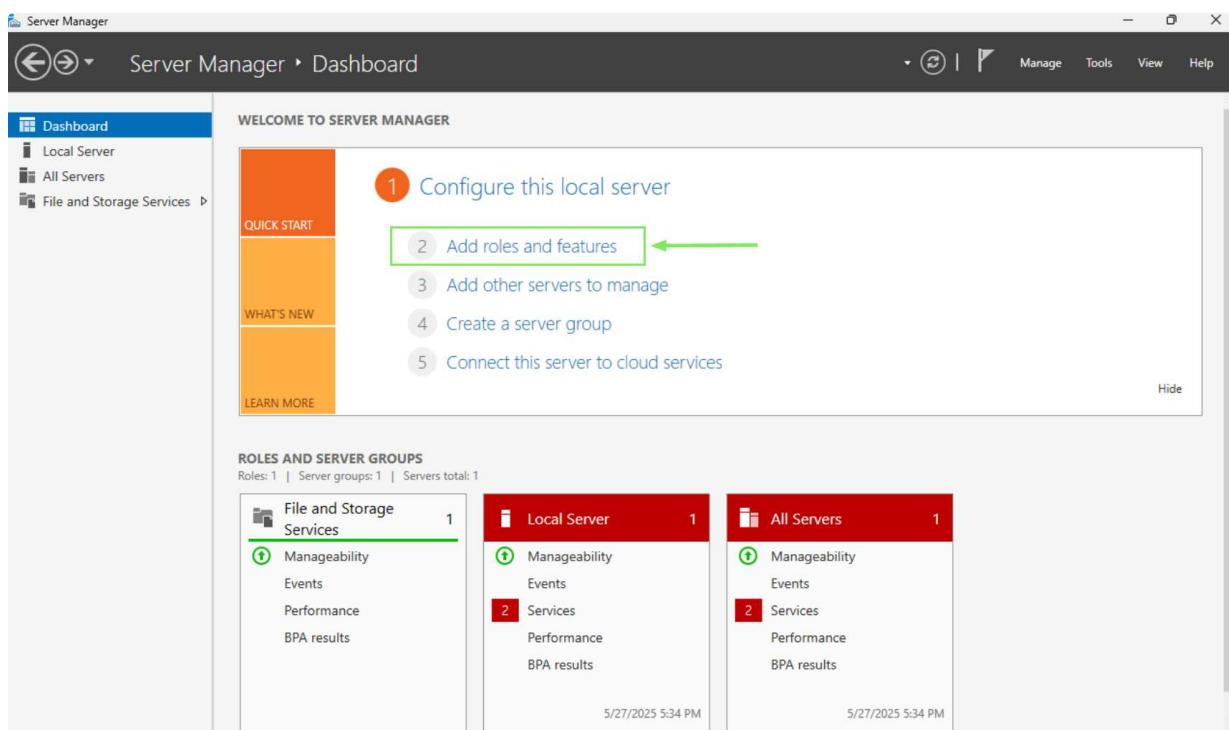
Ethernet
Network
Red Hat VirtIO Ethernet Adapter

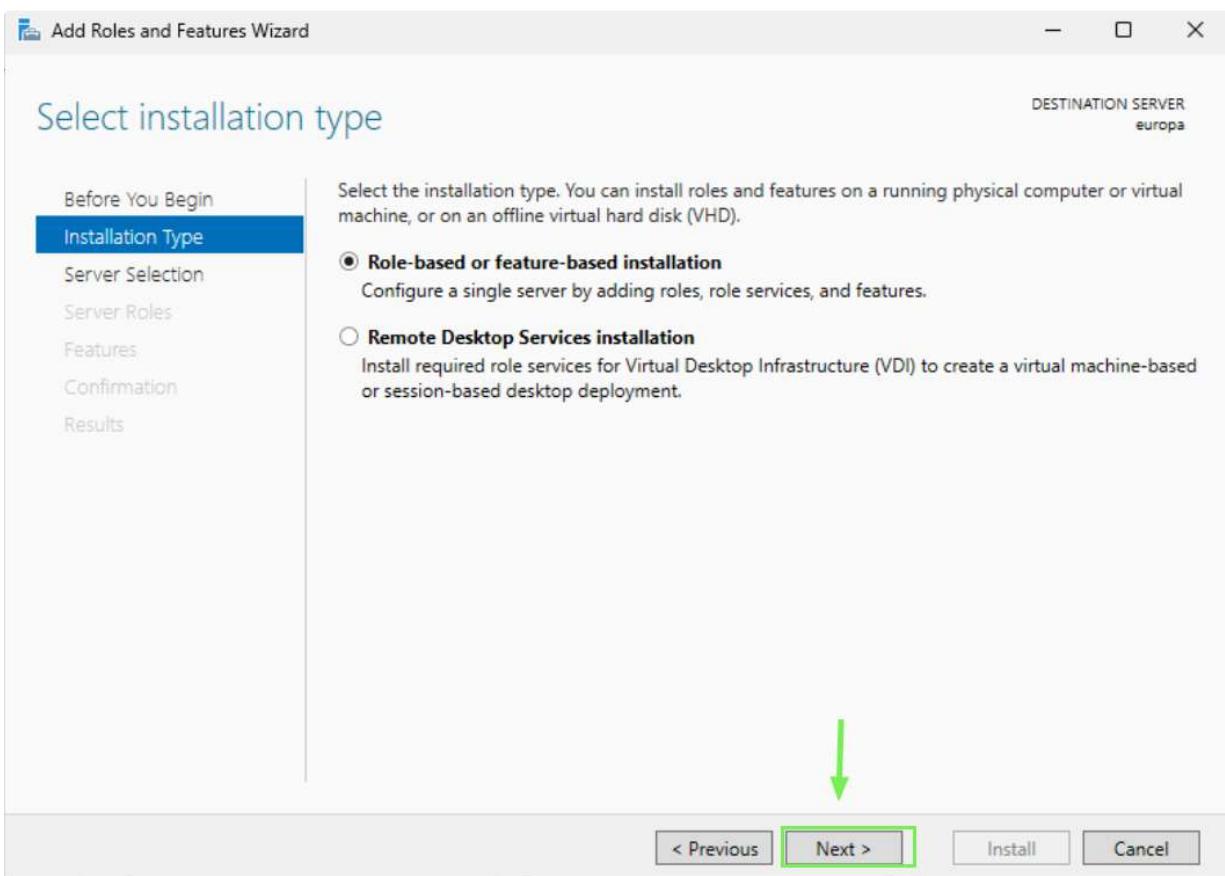
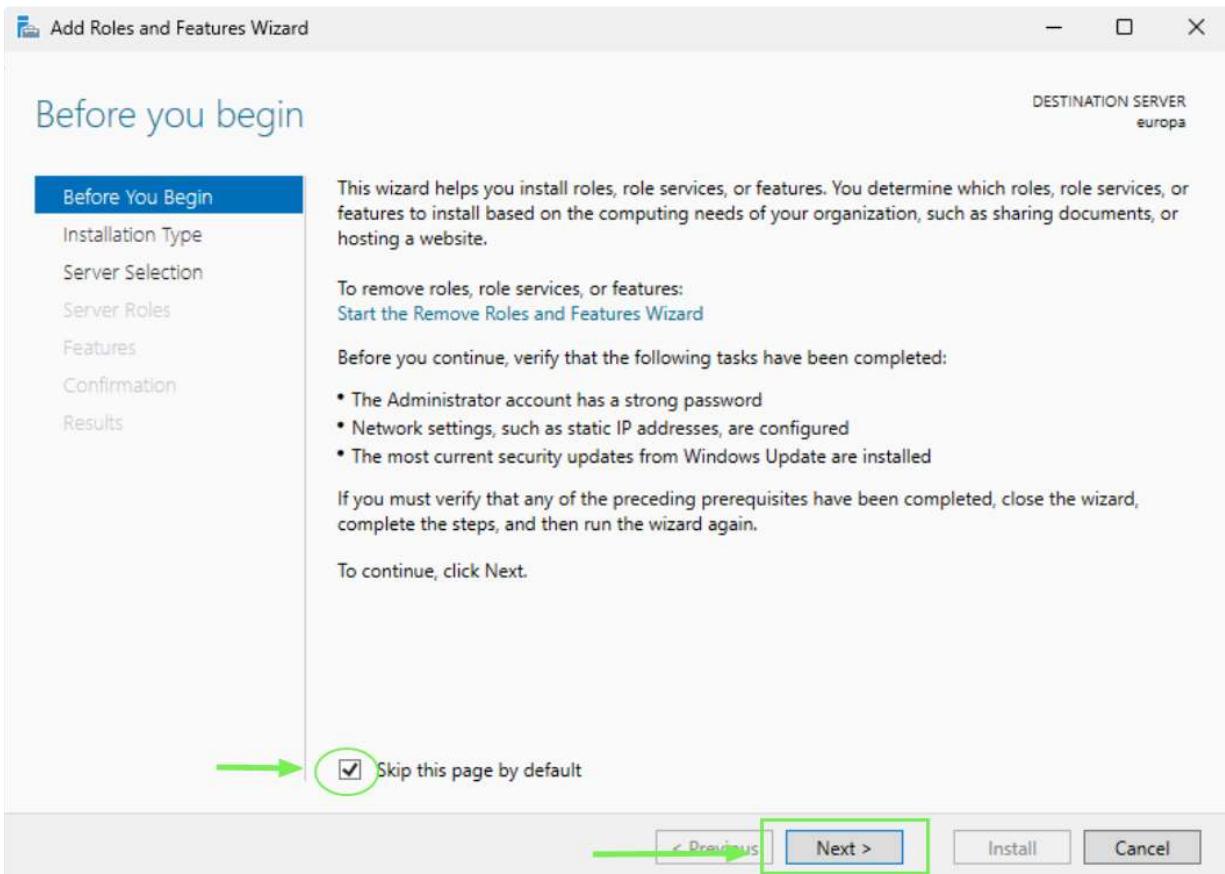
1 item

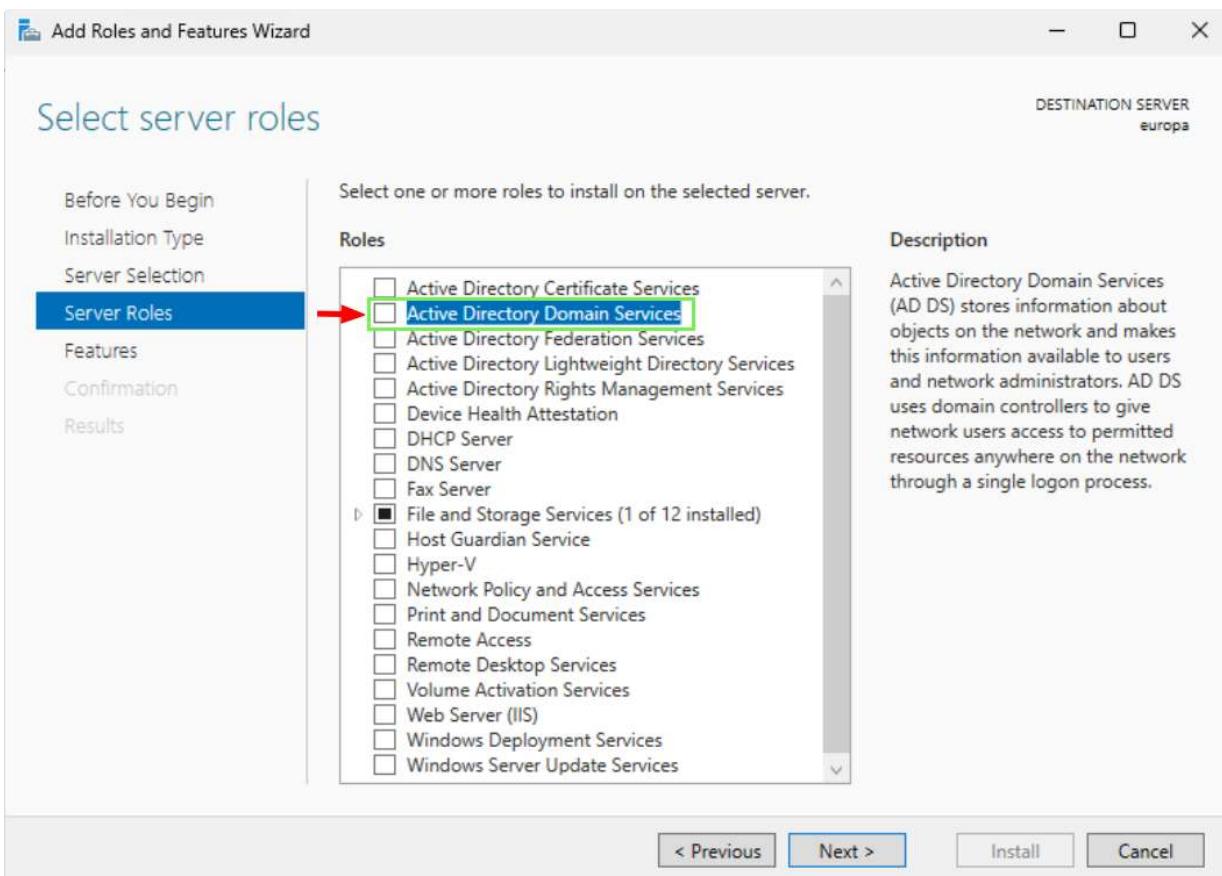
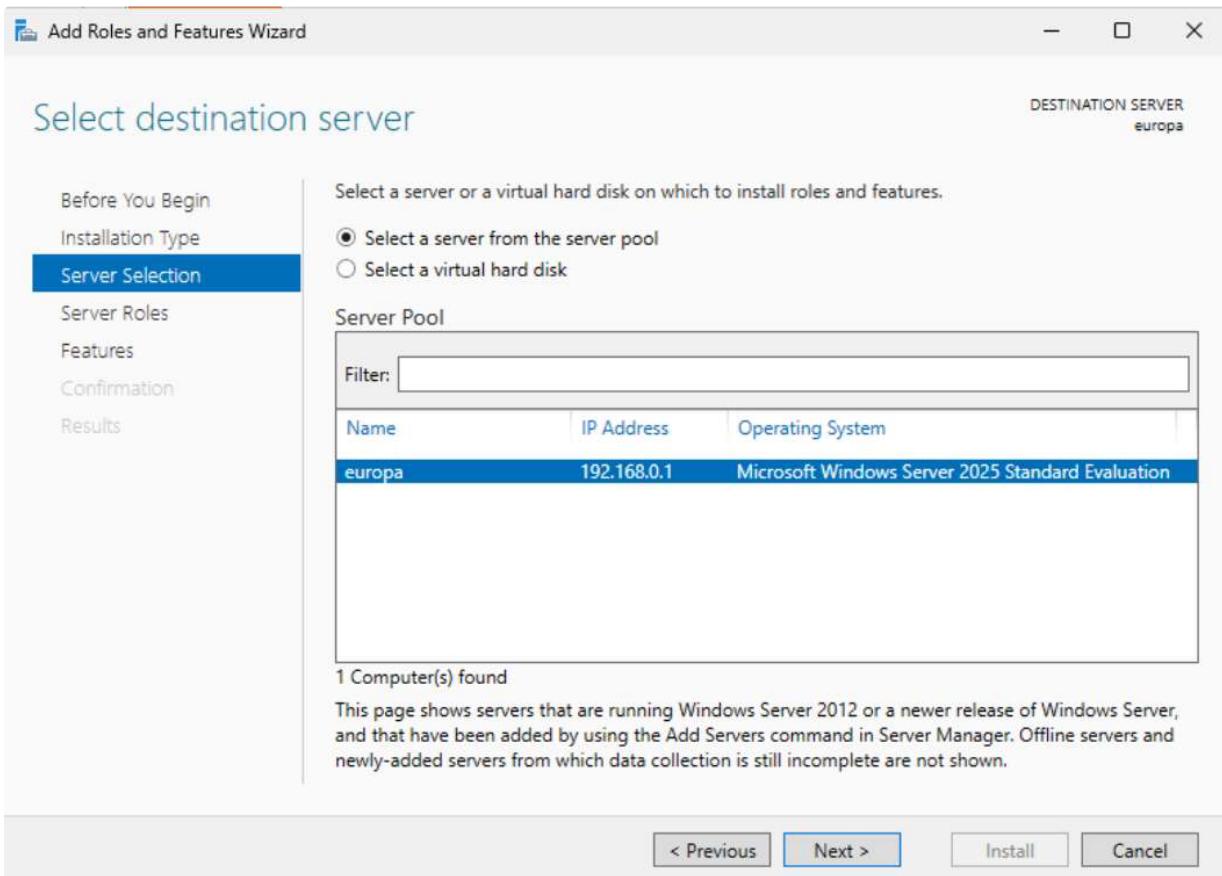


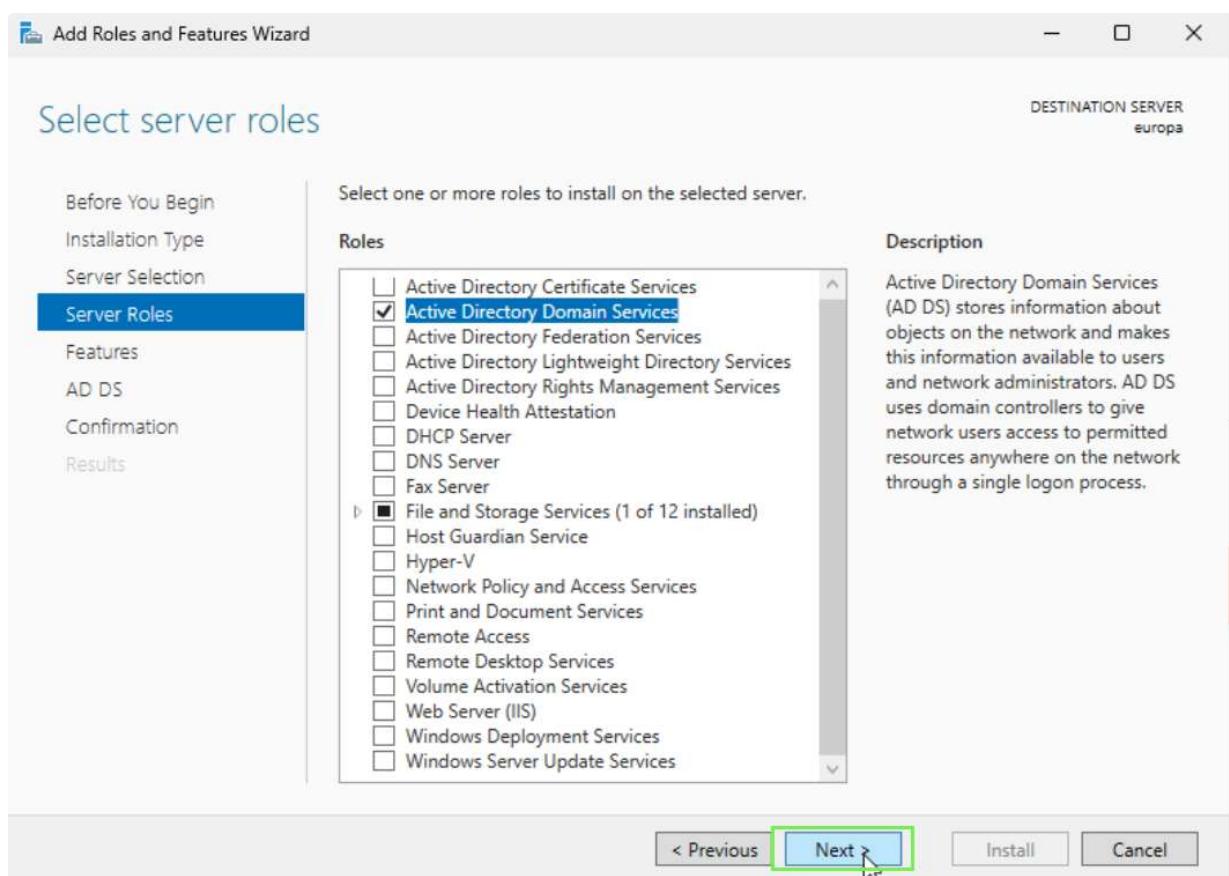
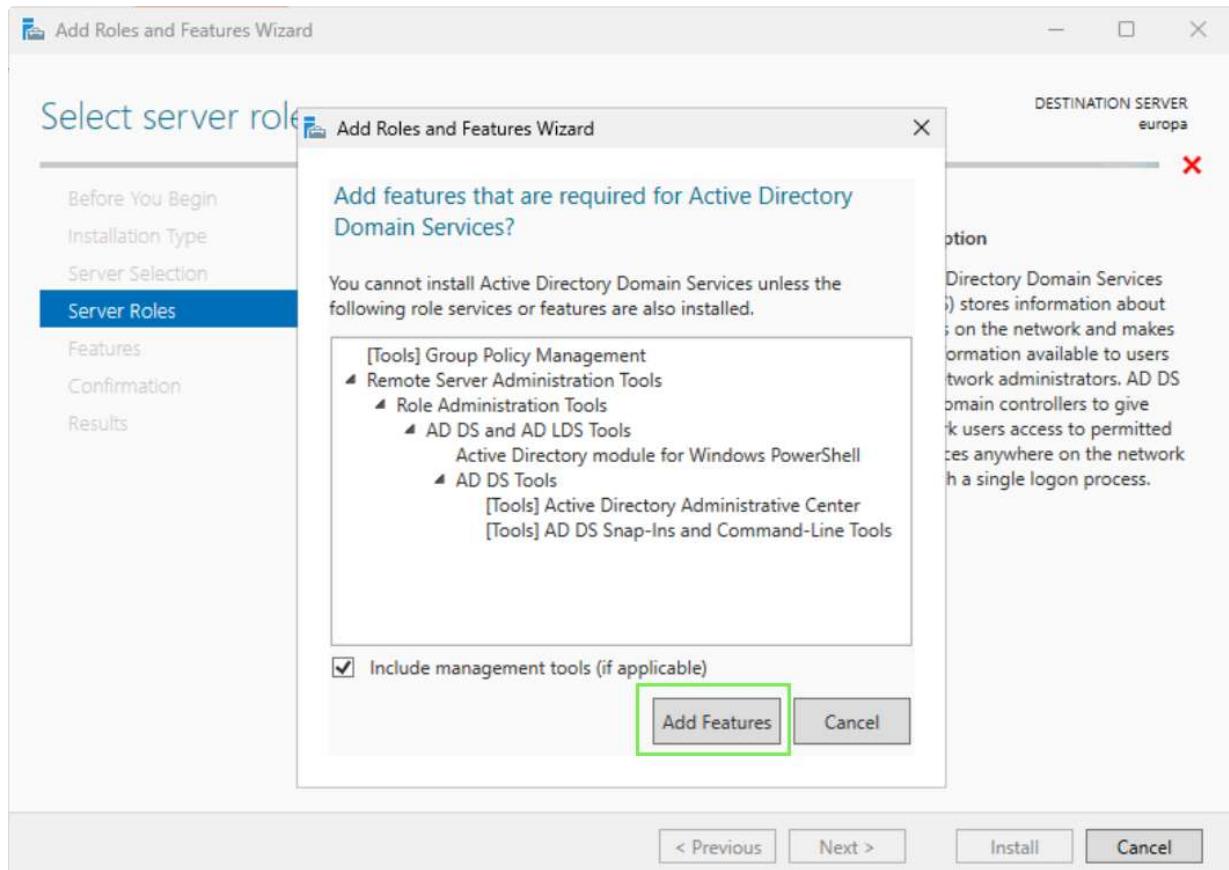


Instalar funções básicas: AD DS e Servidor de Arquivos.









Add Roles and Features Wizard

Select features

DESTINATION SERVER
europia

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
europia

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

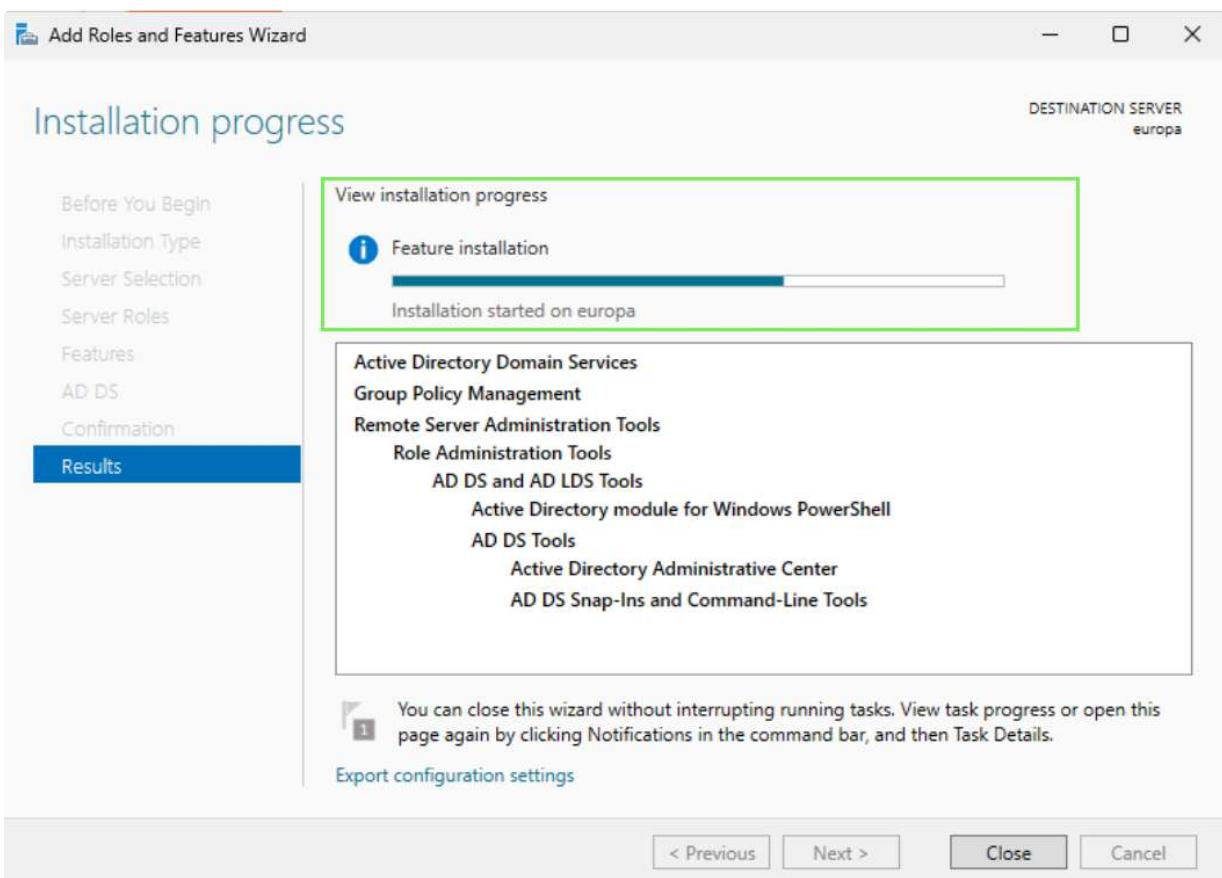
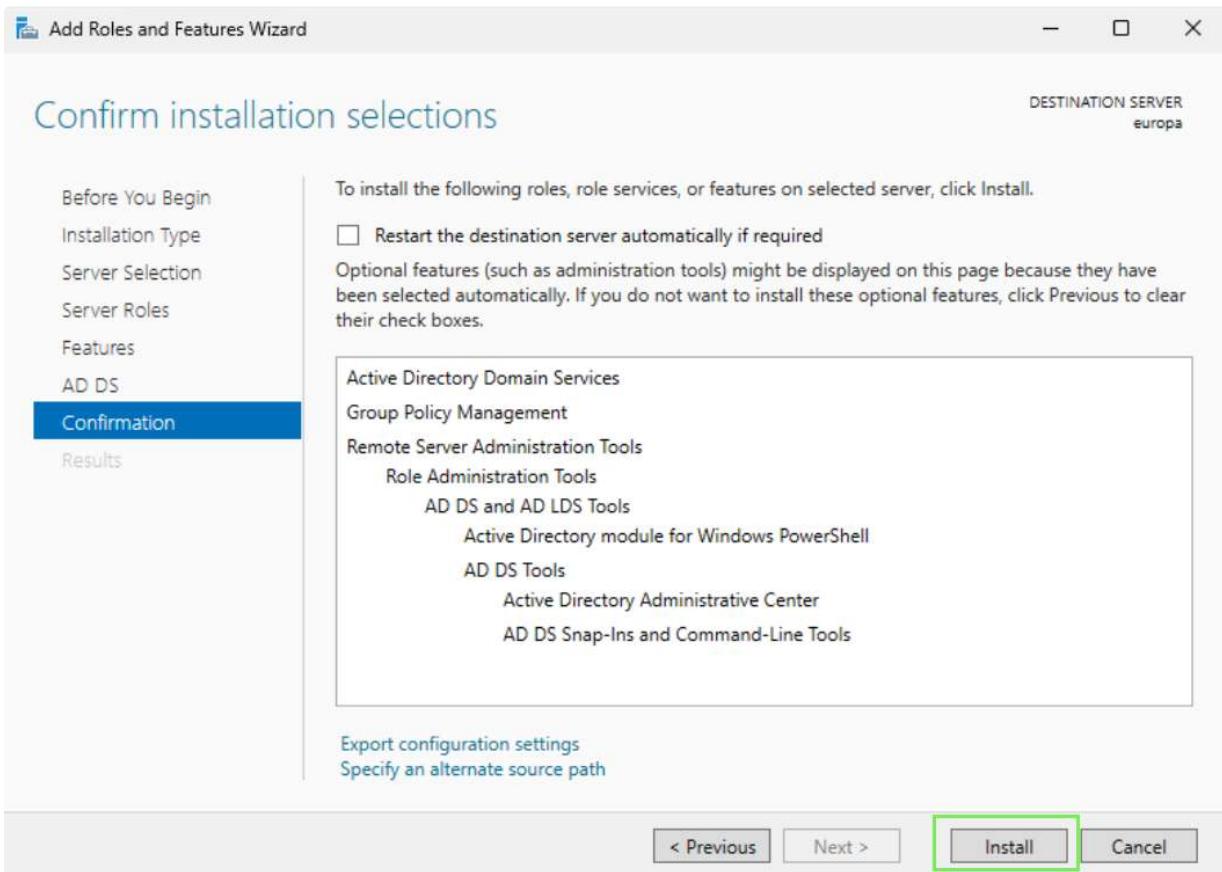
Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.

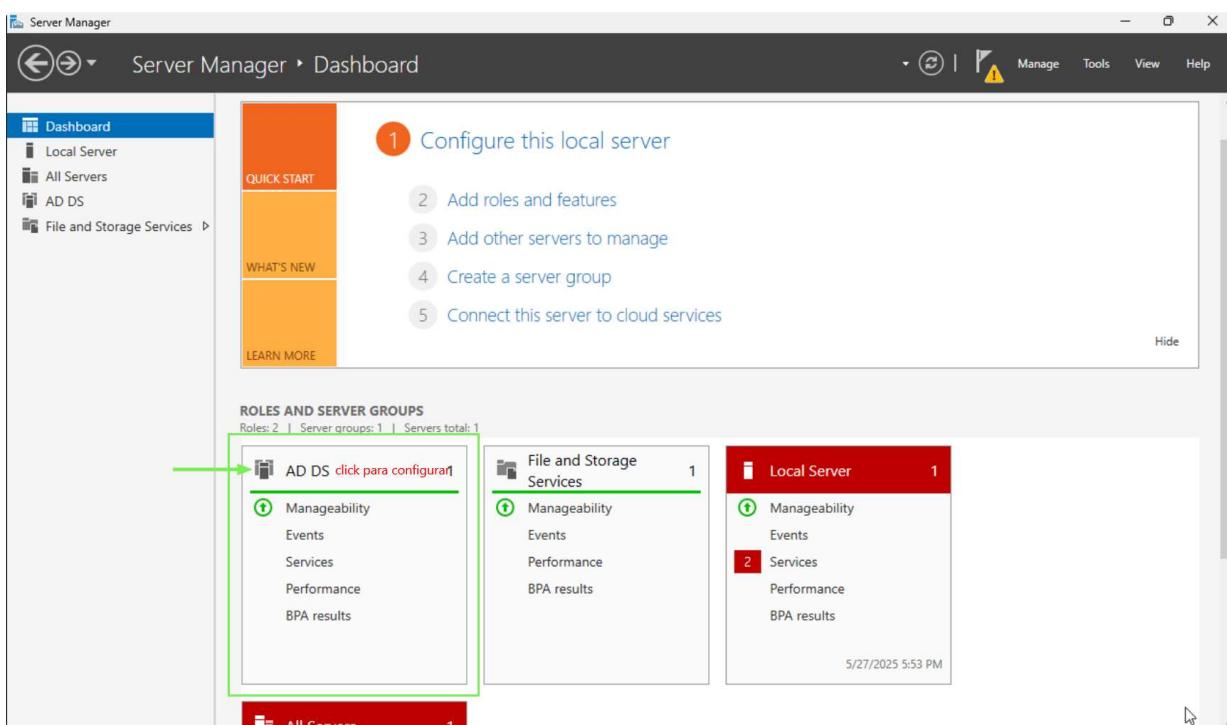
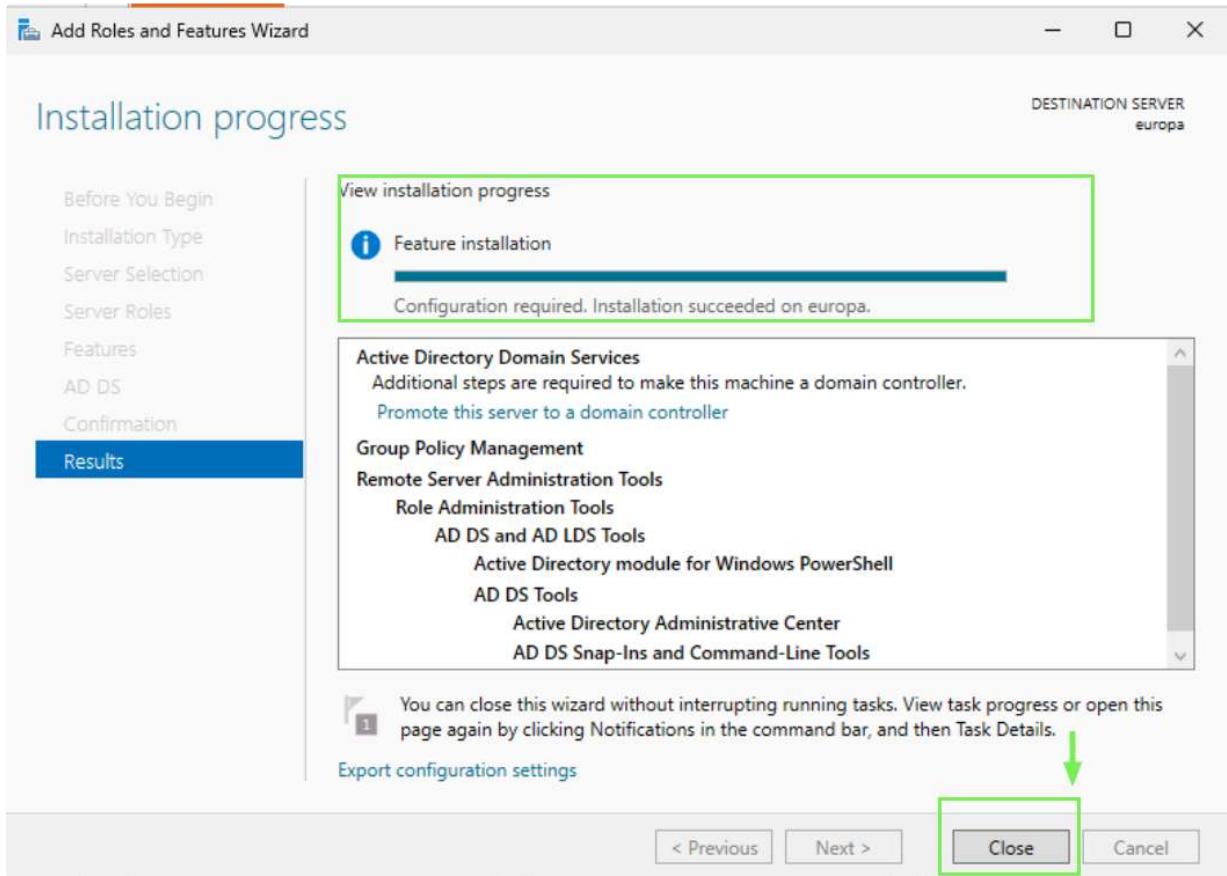
Things to note:

- 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





SERVERS
All servers | 1 total

Configuration required for Active Directory Domain Services at EUROPA

Server Name	IPv4 Address	Manageability	Last Update	Windows Activation
EUROPA	192.168.0.1	Online - Performance counters not started	5/27/2025 6:03:39 PM	00493-20000-00001-AA597 (Activated)

EVENTS
All events | 1 total

Server Name	ID	Severity	Source	Log	Date and Time
EUROPA	1202	Error	DFSR	DFS Replication	5/27/2025 5:50:13 PM

All Servers Task Details and Notifications

All Tasks | 1 total

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

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

