

Instalação e Preparação do Ambiente Windows Server

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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/' , make sure there is enough free space.' The 'Upload' button is highlighted with a red box.

The screenshot shows the 'Task viewer: Copy data' interface. The 'Output' tab is selected, displaying log output for a file import task. The log shows:

```
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

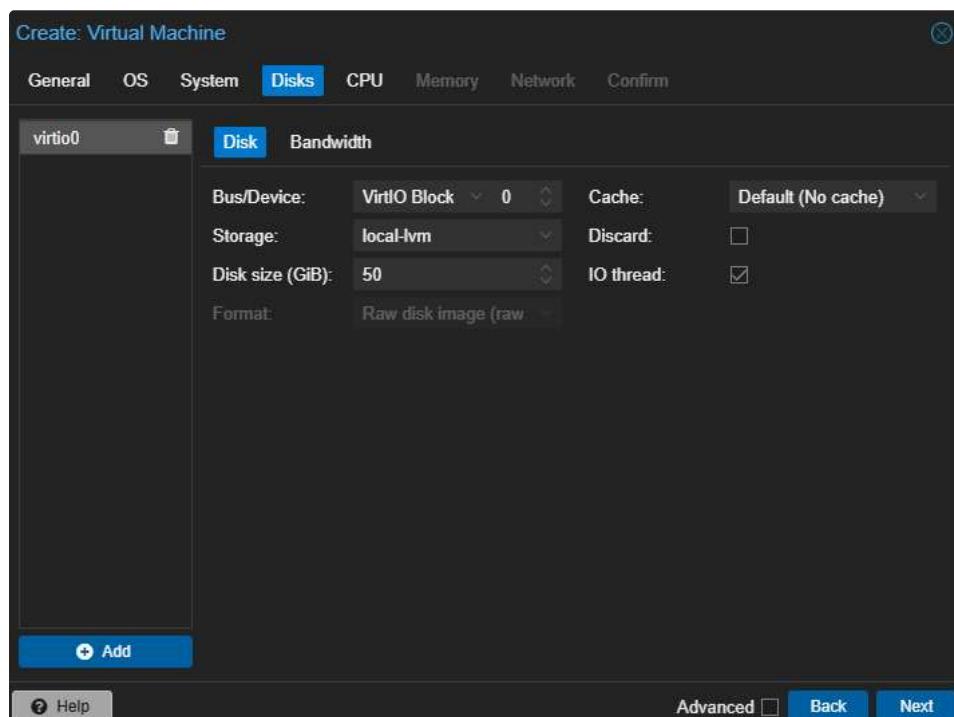
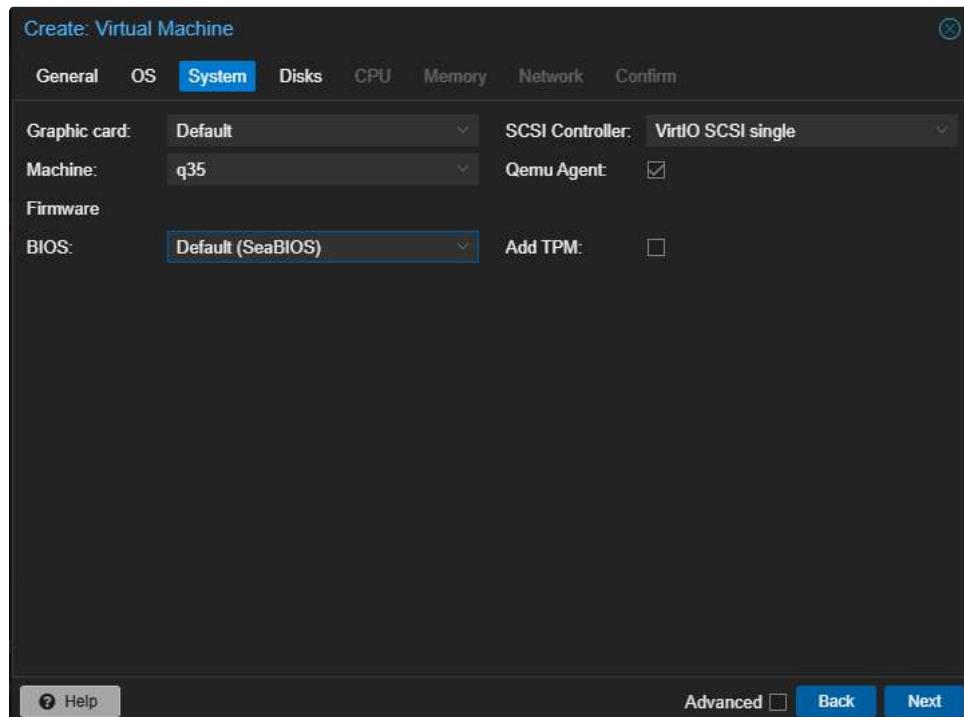
General OS System Disks CPU Memory Network Confirm

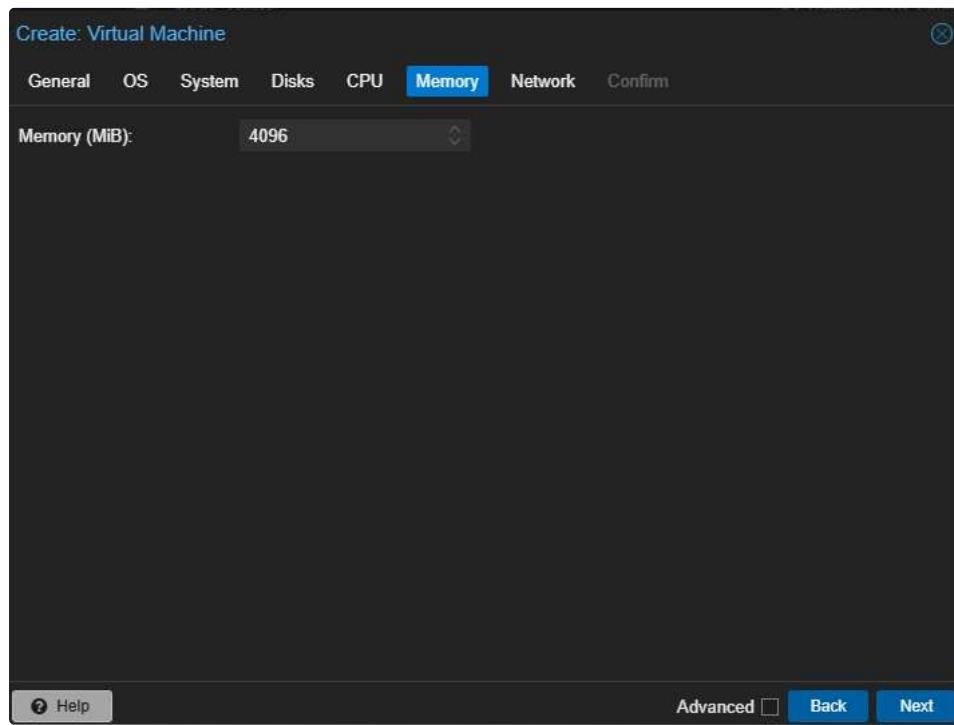
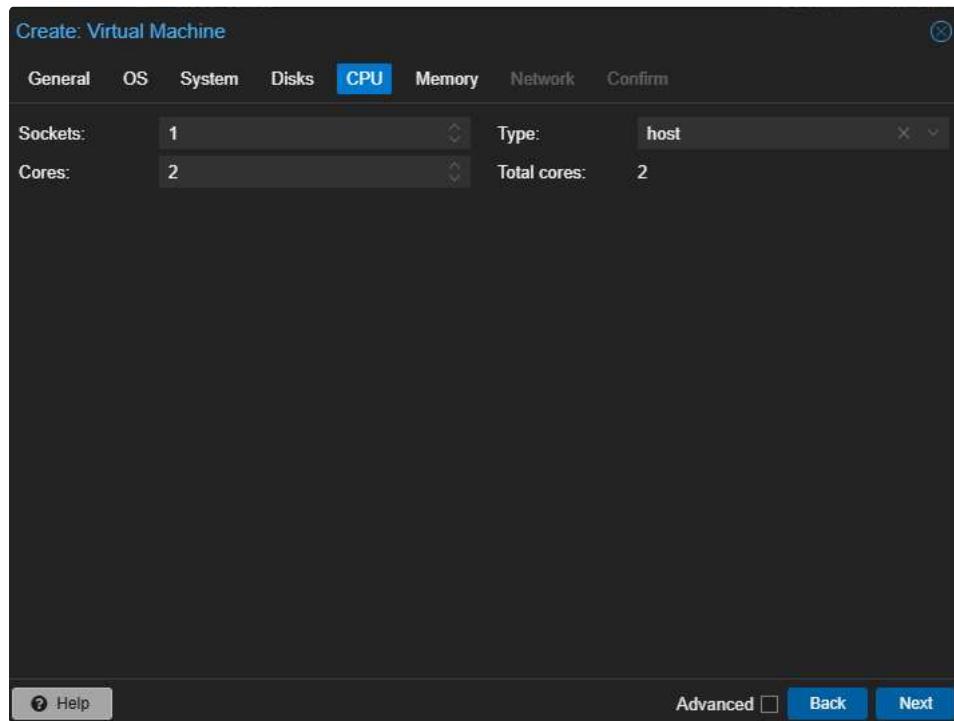
Graphic card: Default SCSI Controller: VirtIO SCSI single
Machine: q35 Qemu Agent:

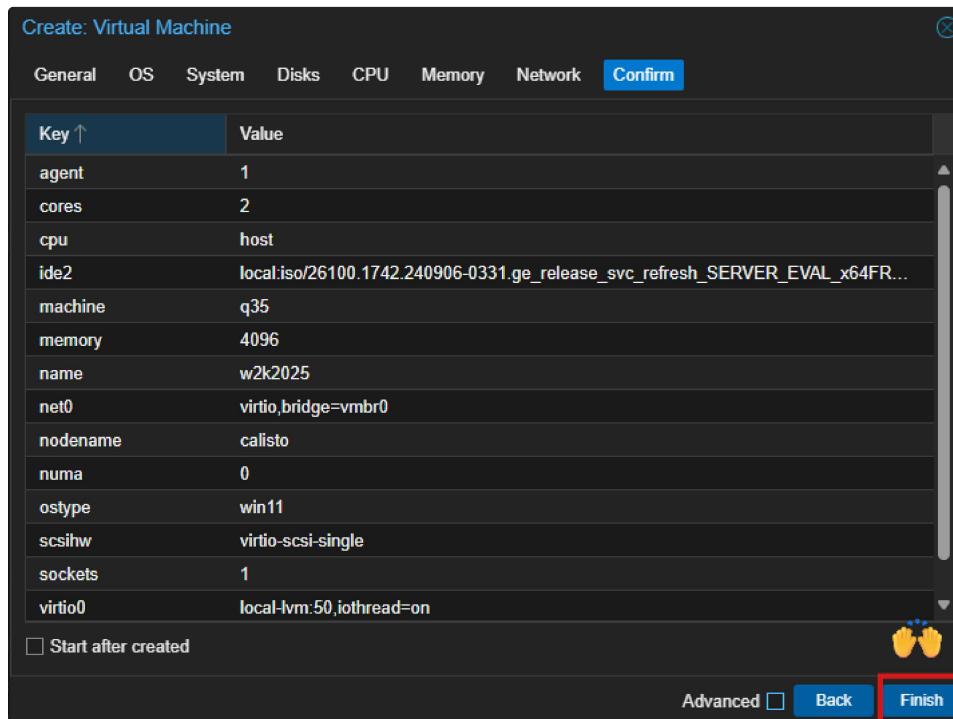
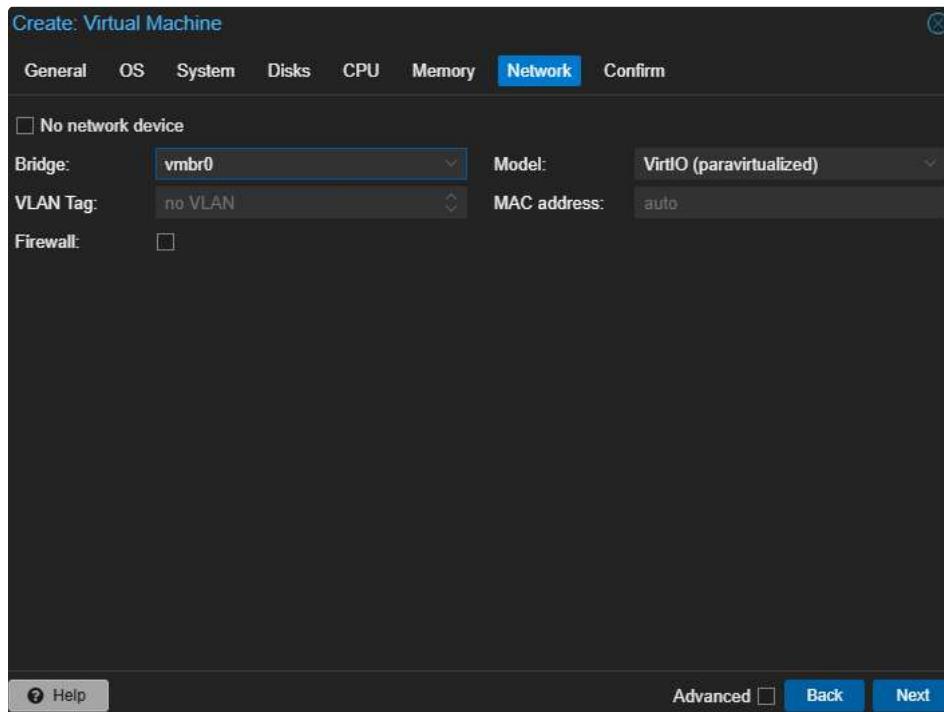
Firmware

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:

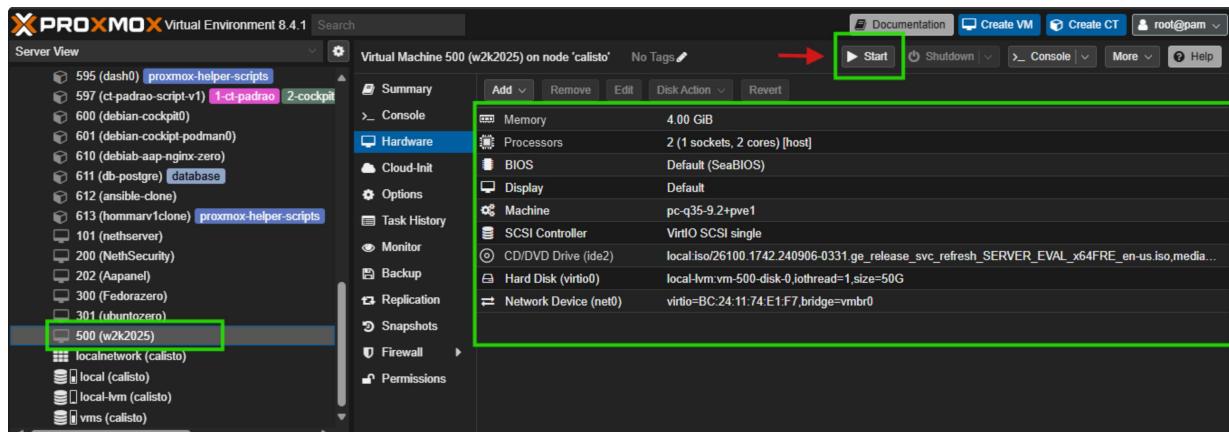
Help Advanced Back Next

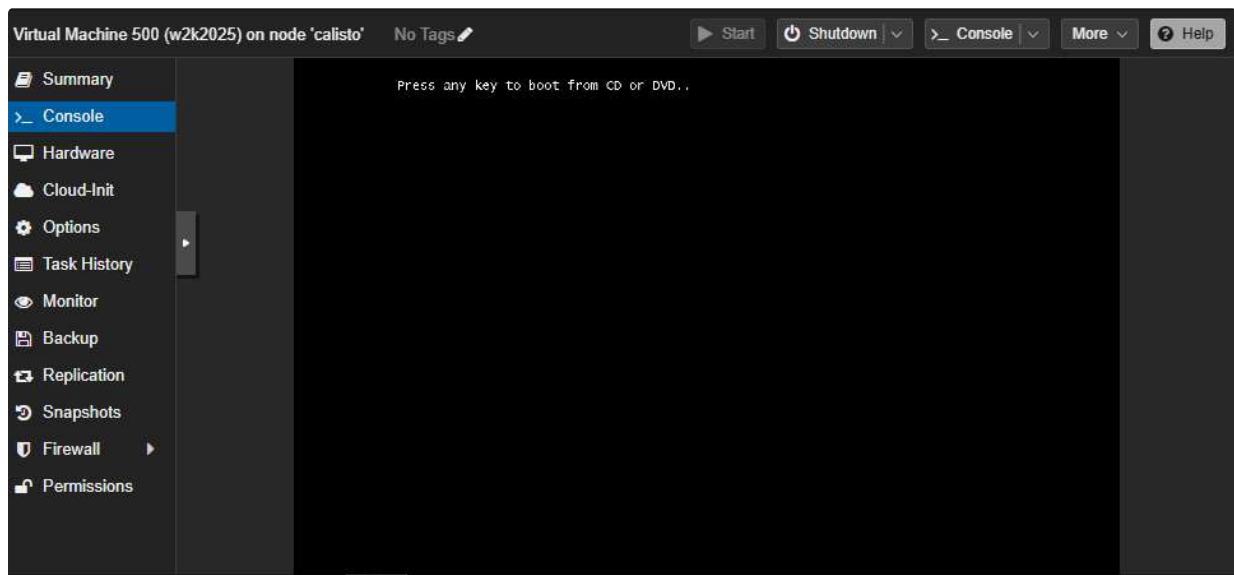
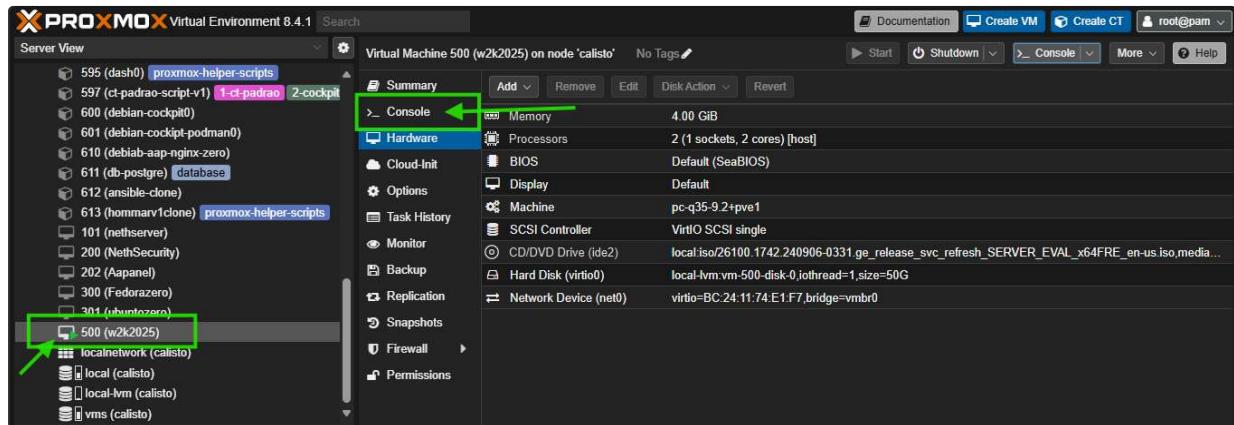


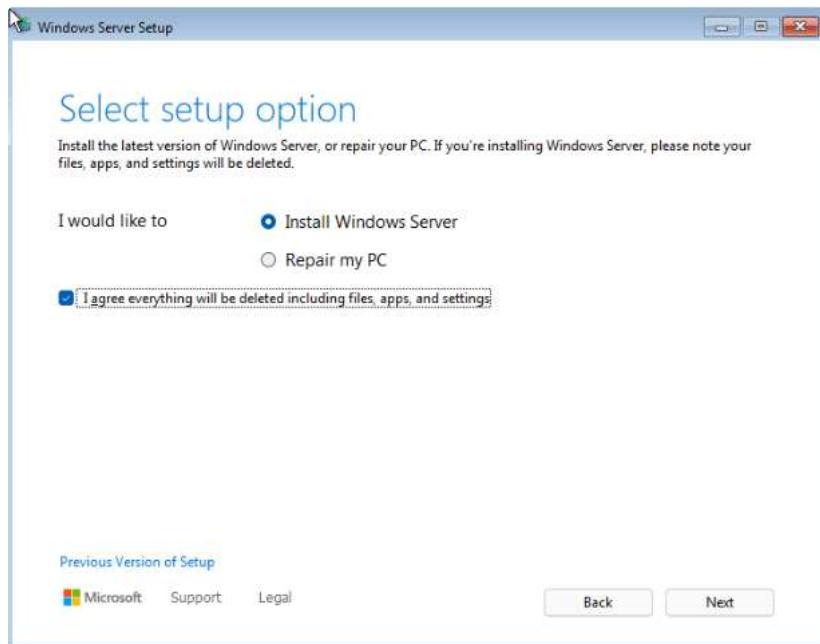
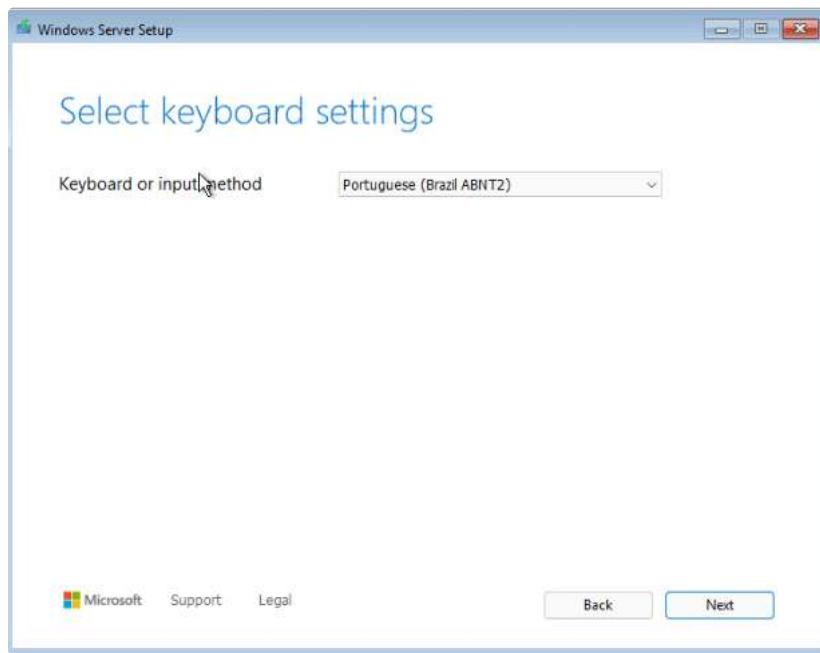
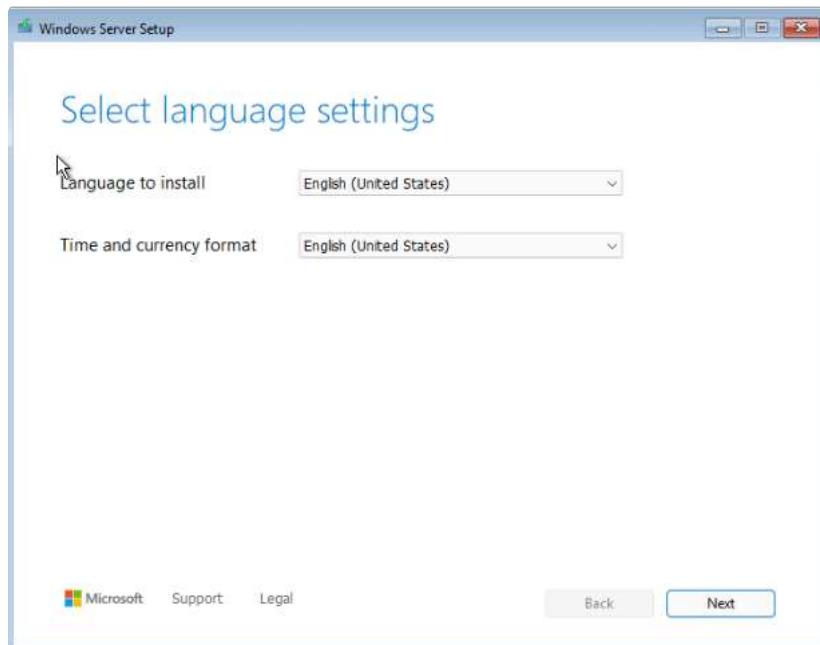


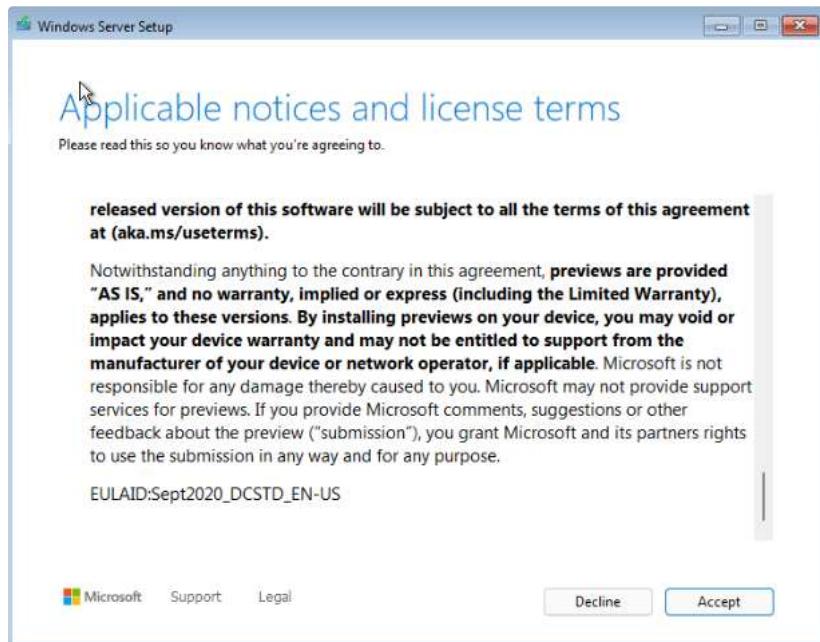
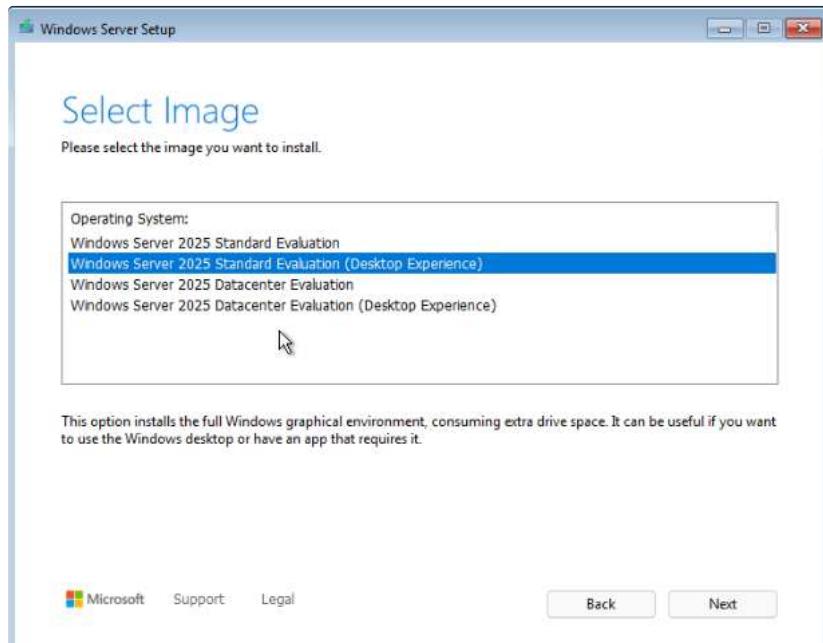


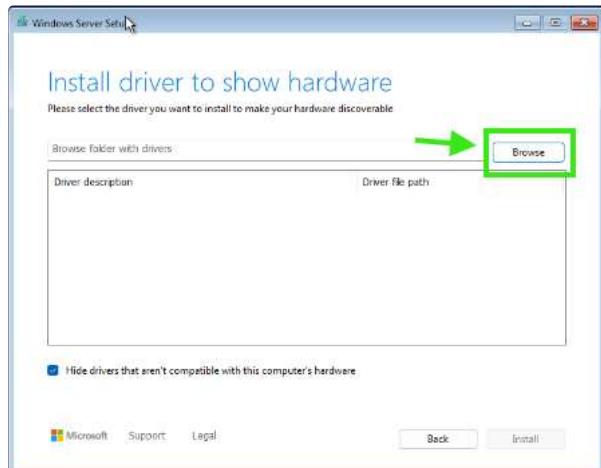
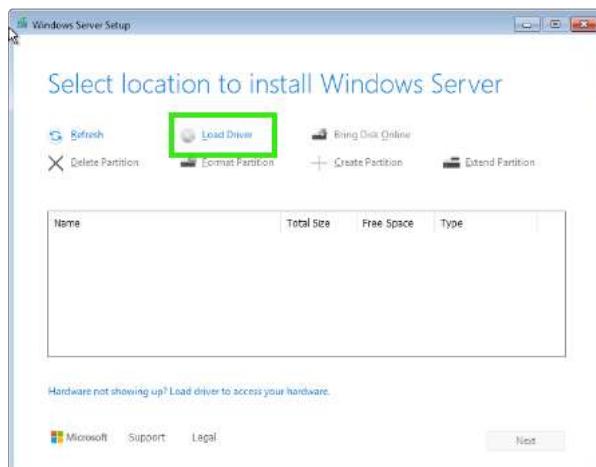
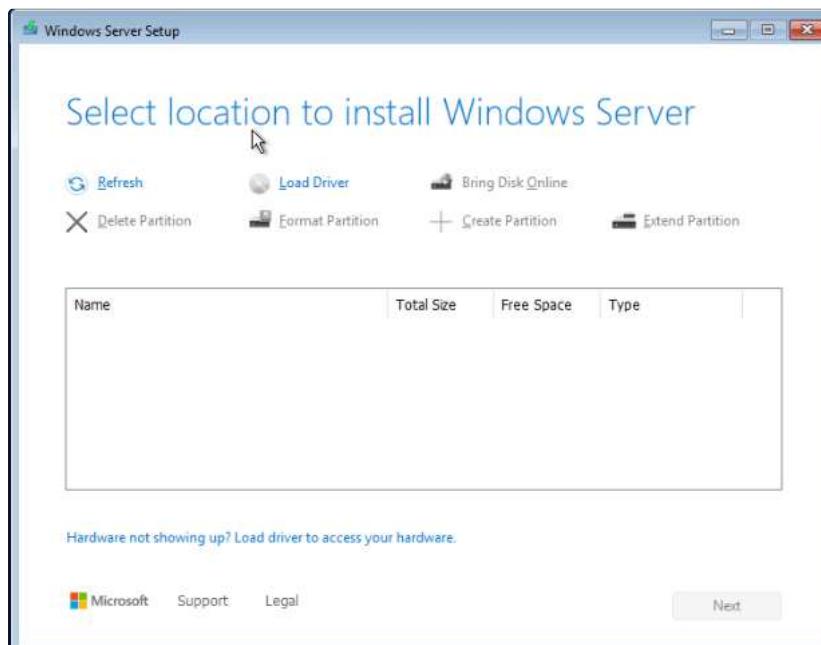
Iniciando a vm

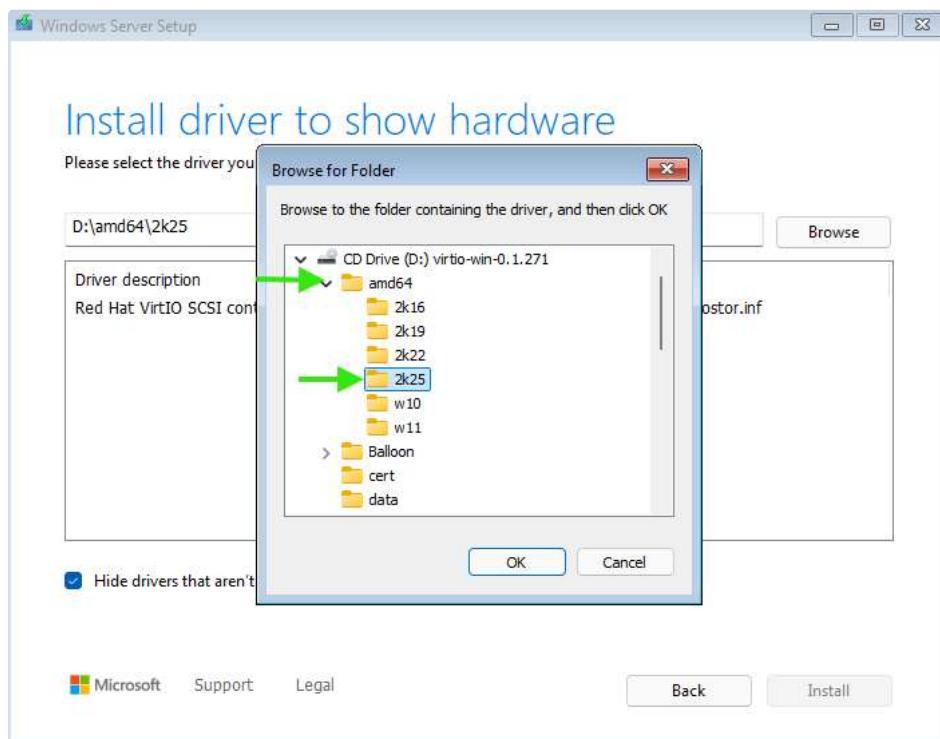
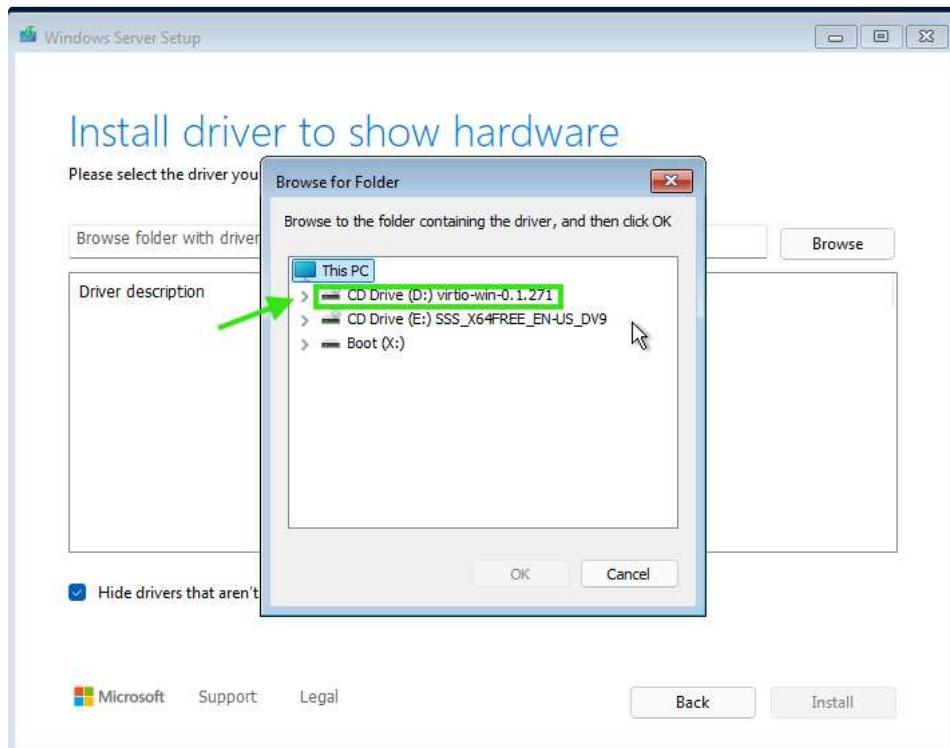


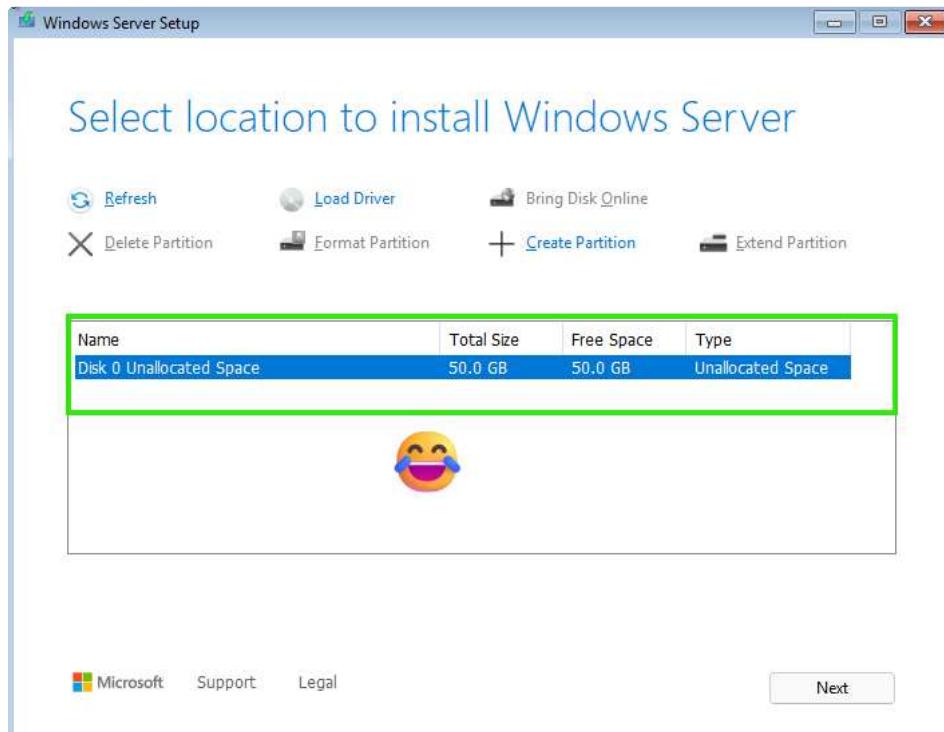
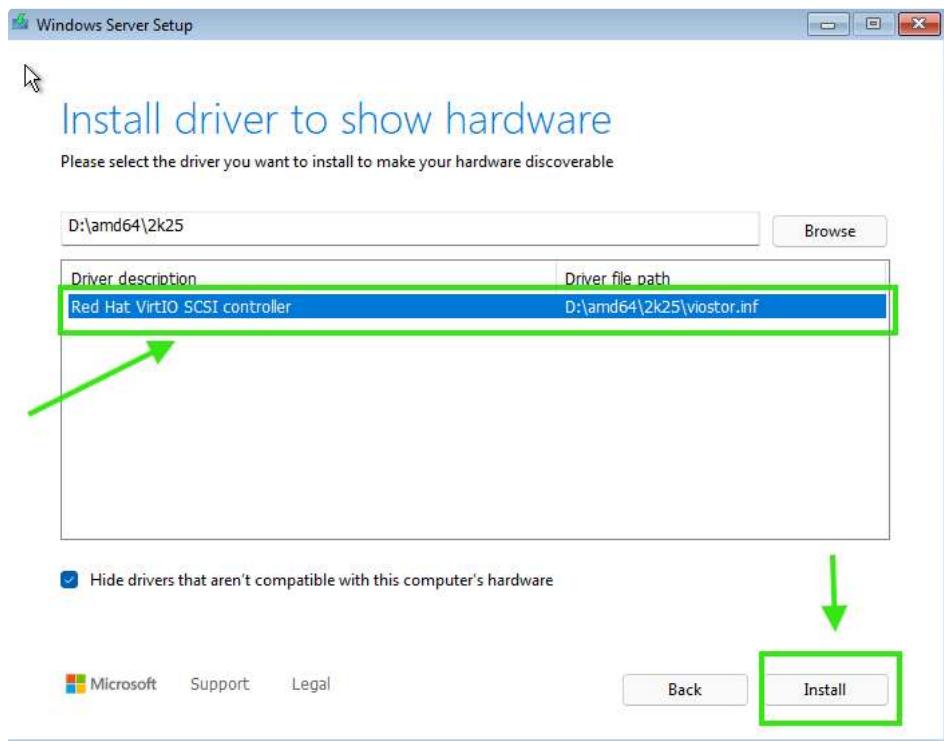


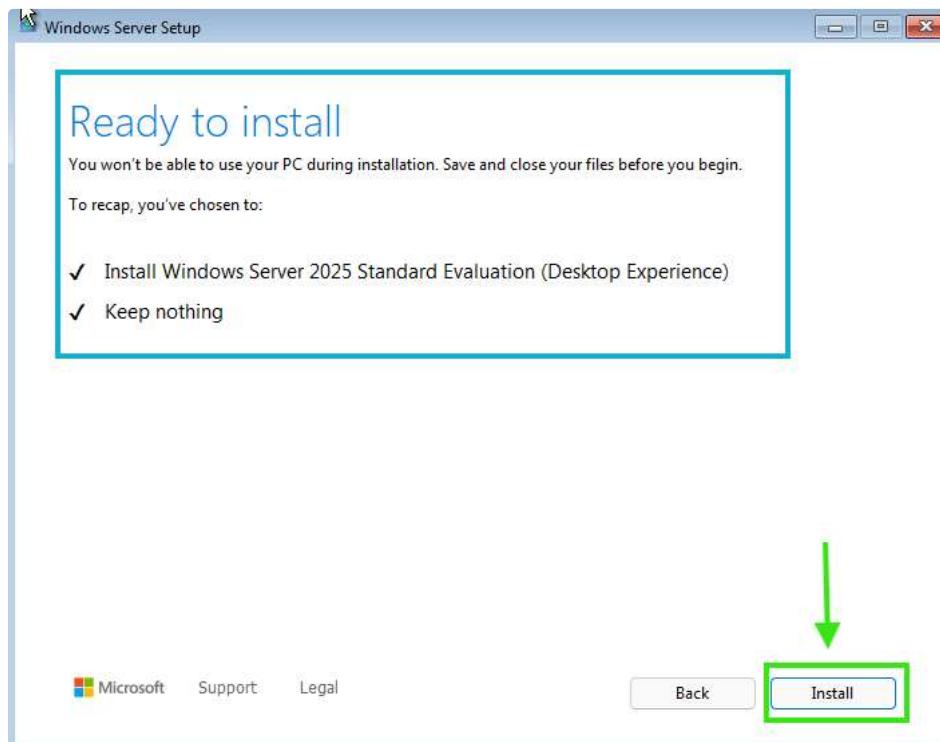
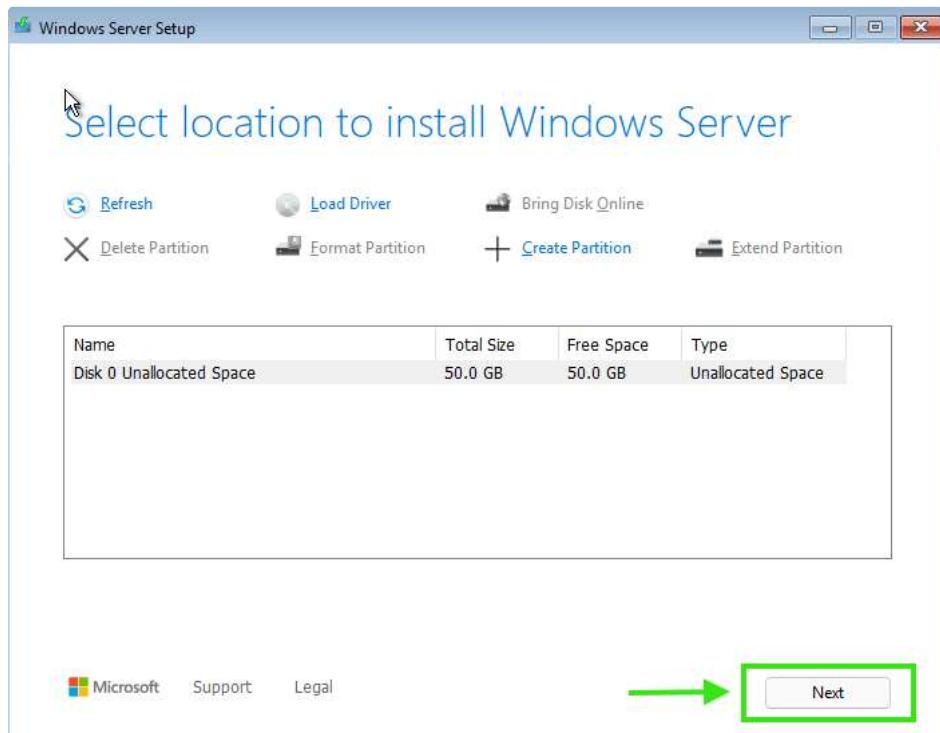














Installing 0%

Please keep your computer on.

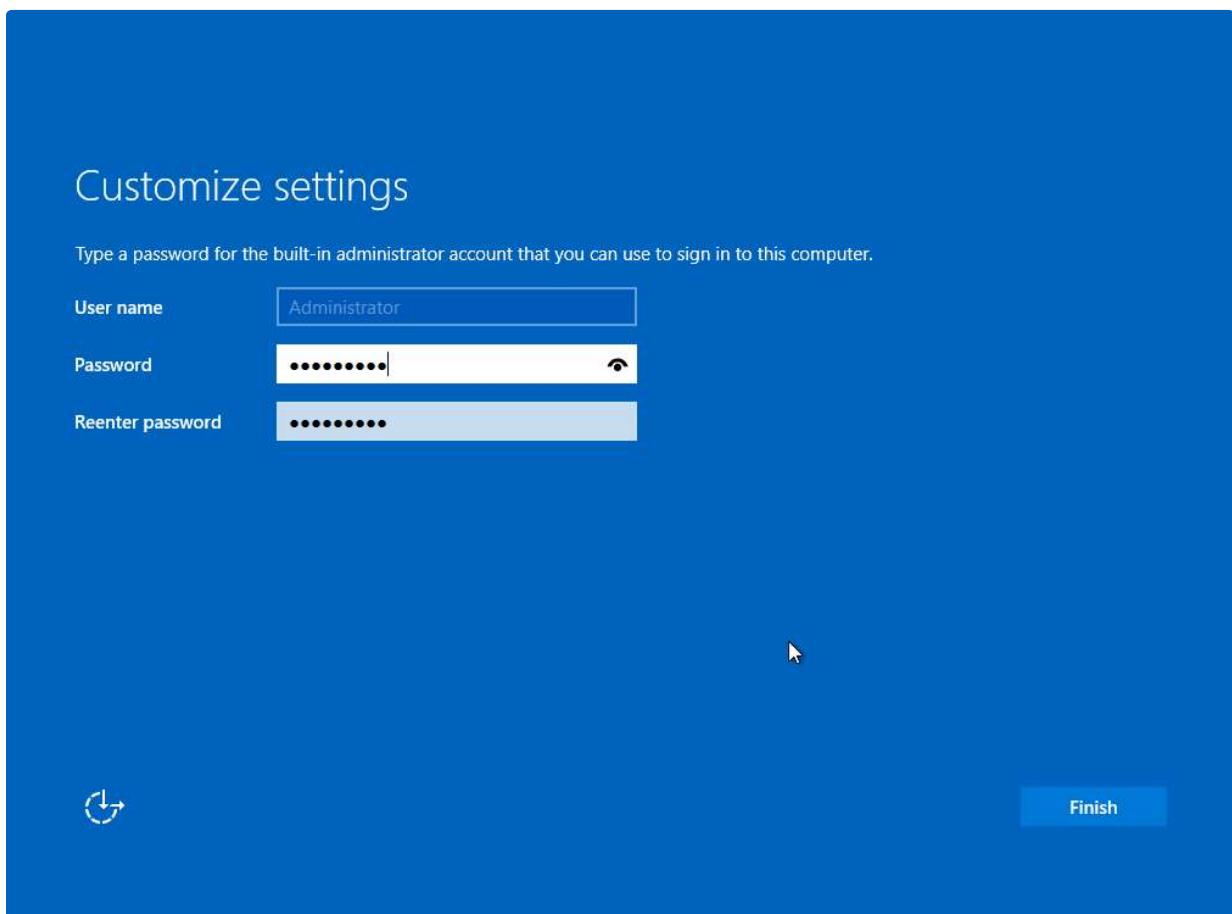
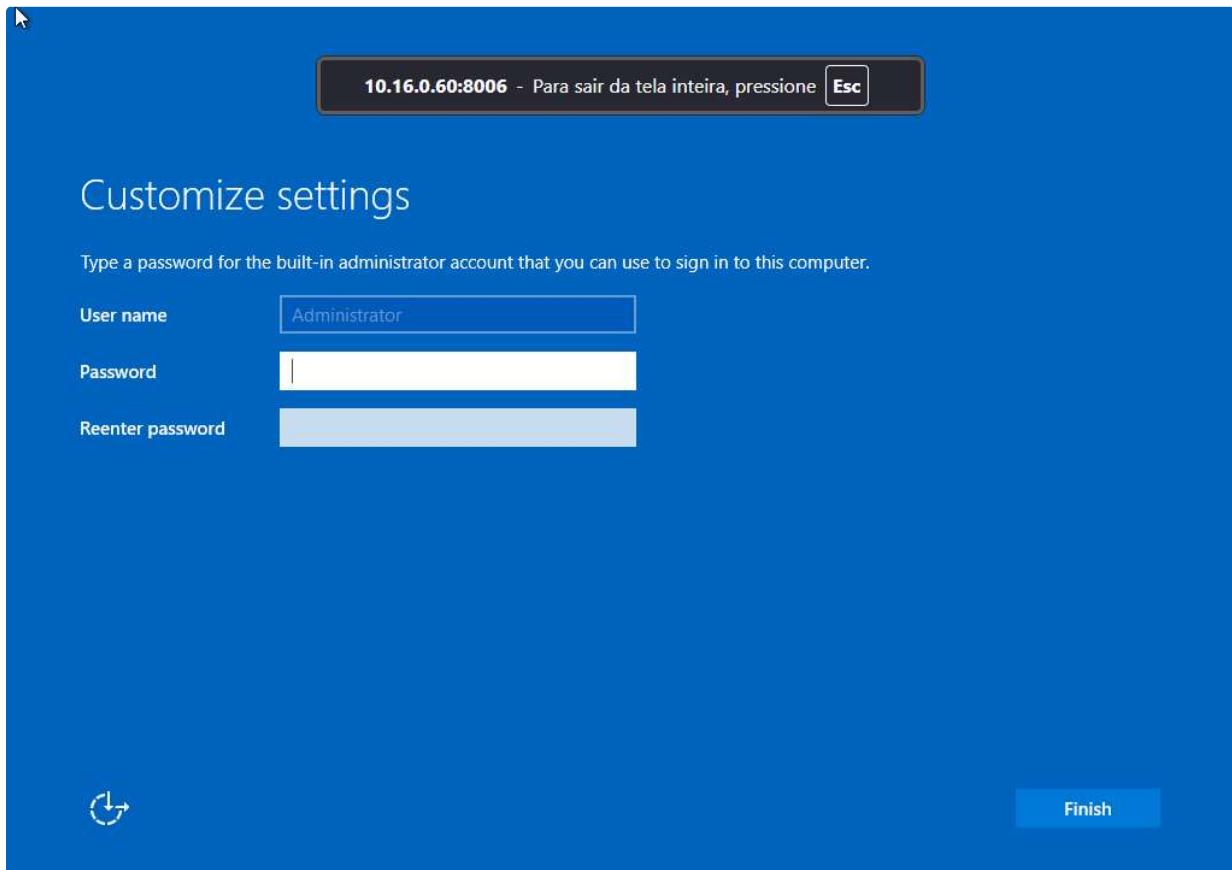
Your computer may restart a few times.

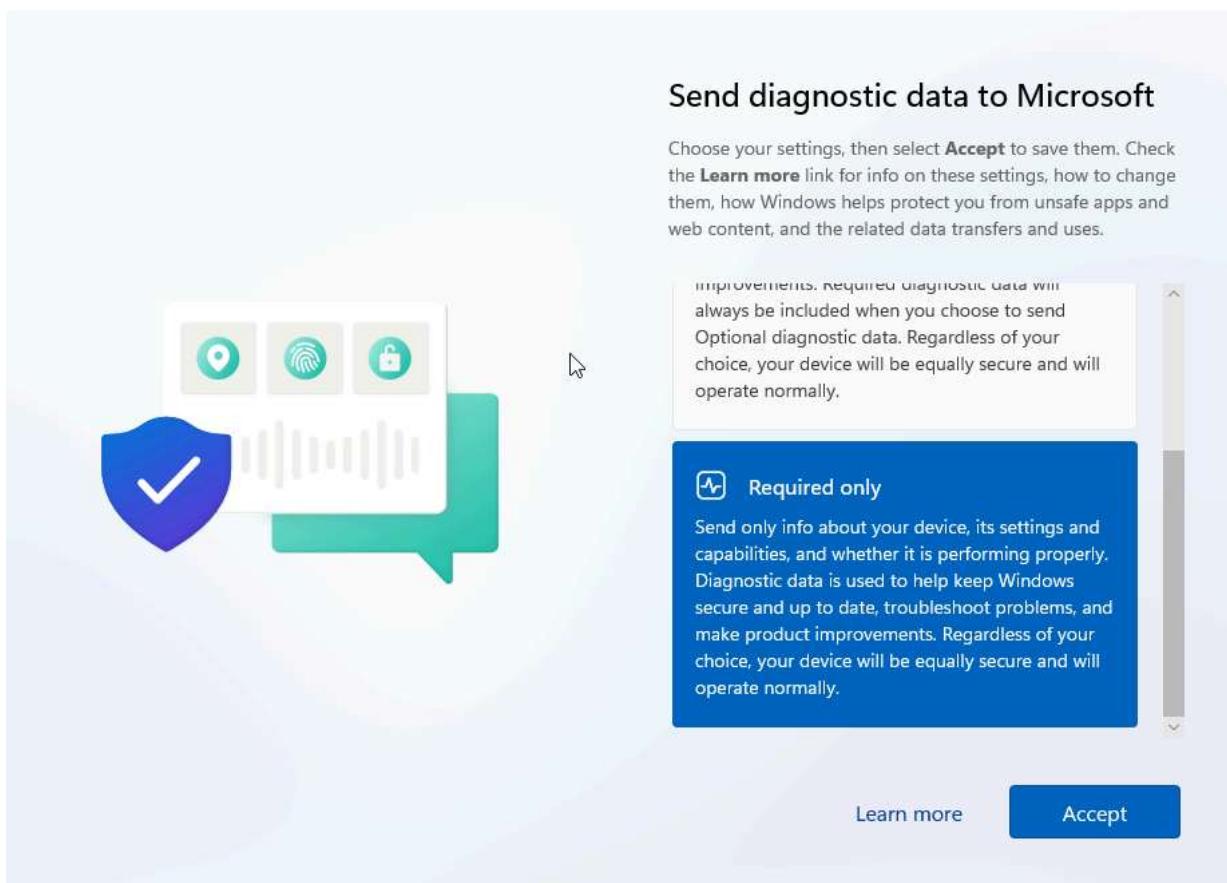
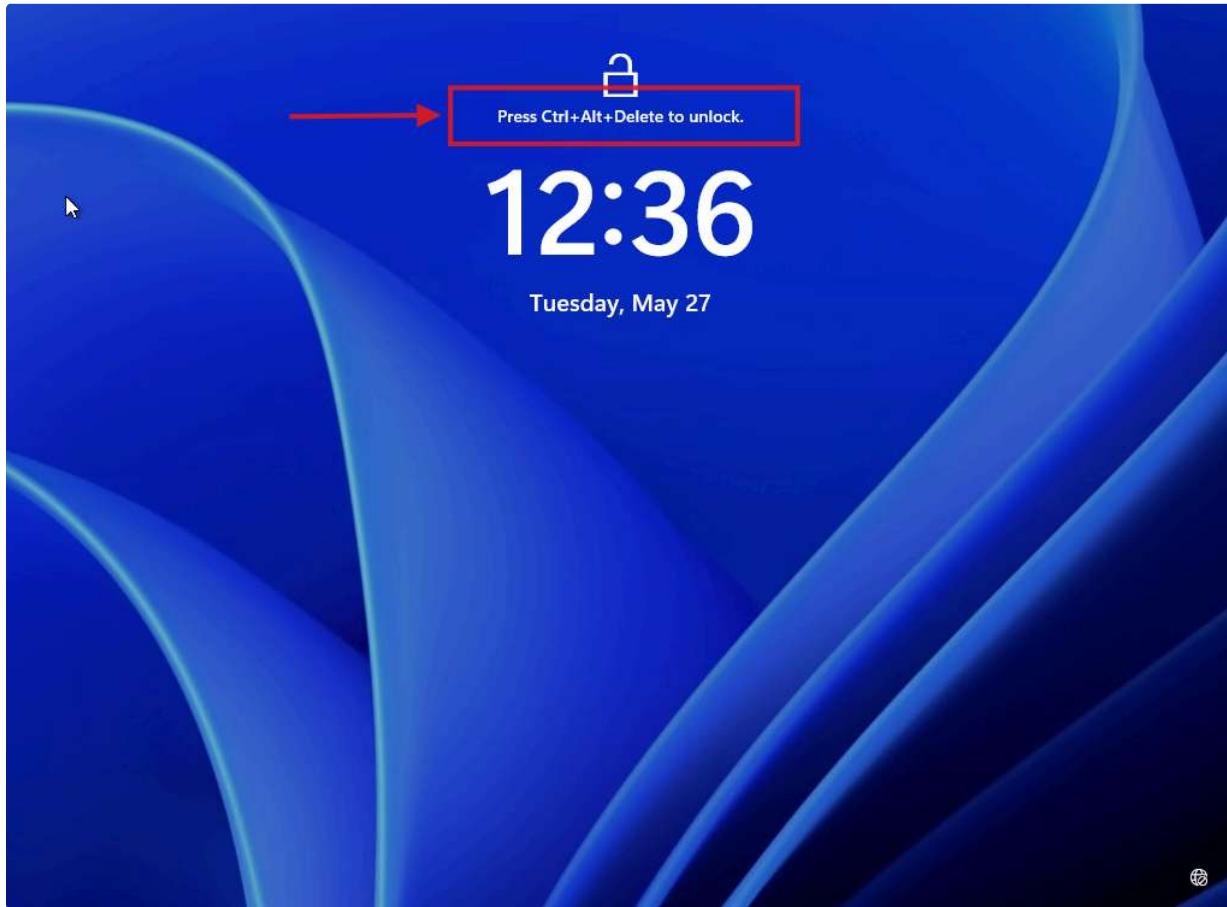


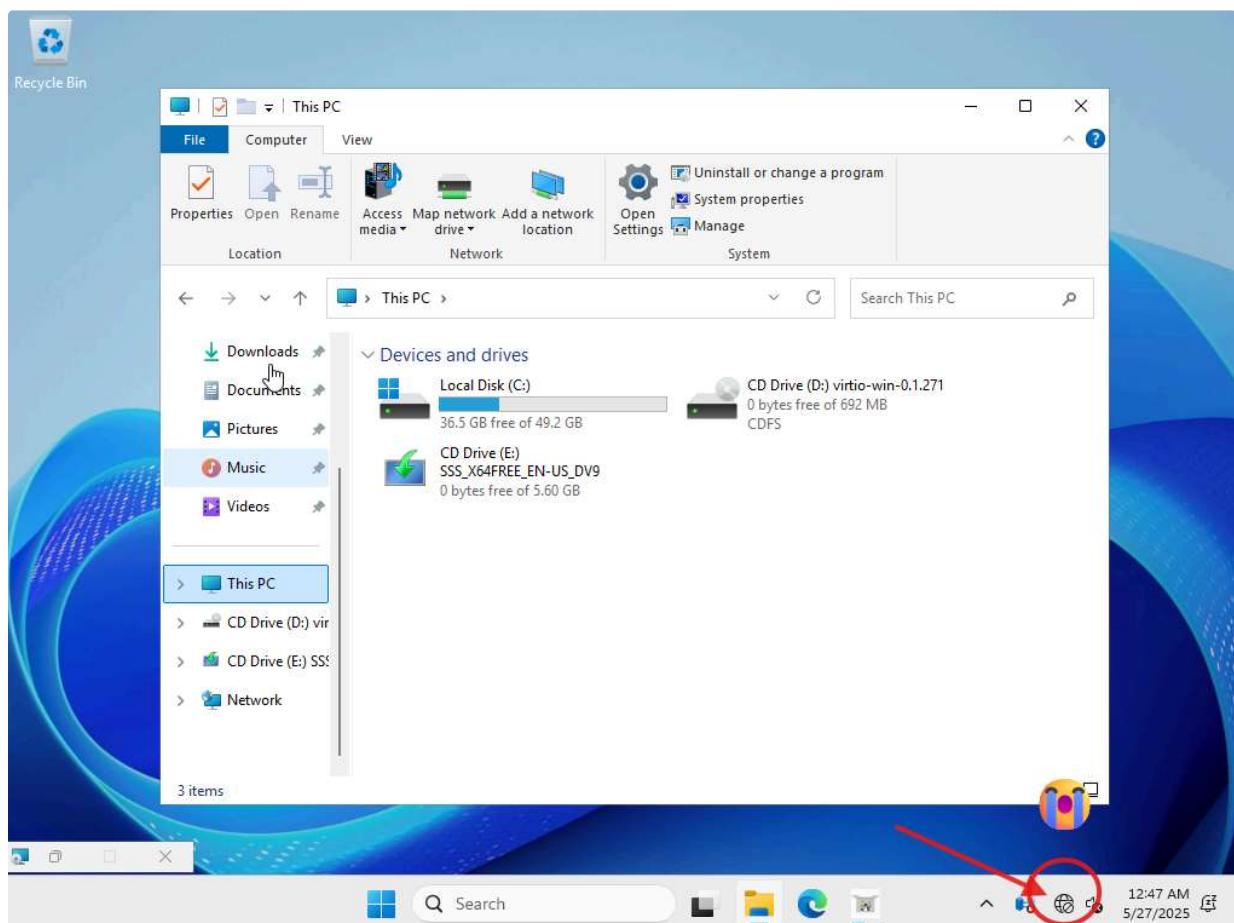
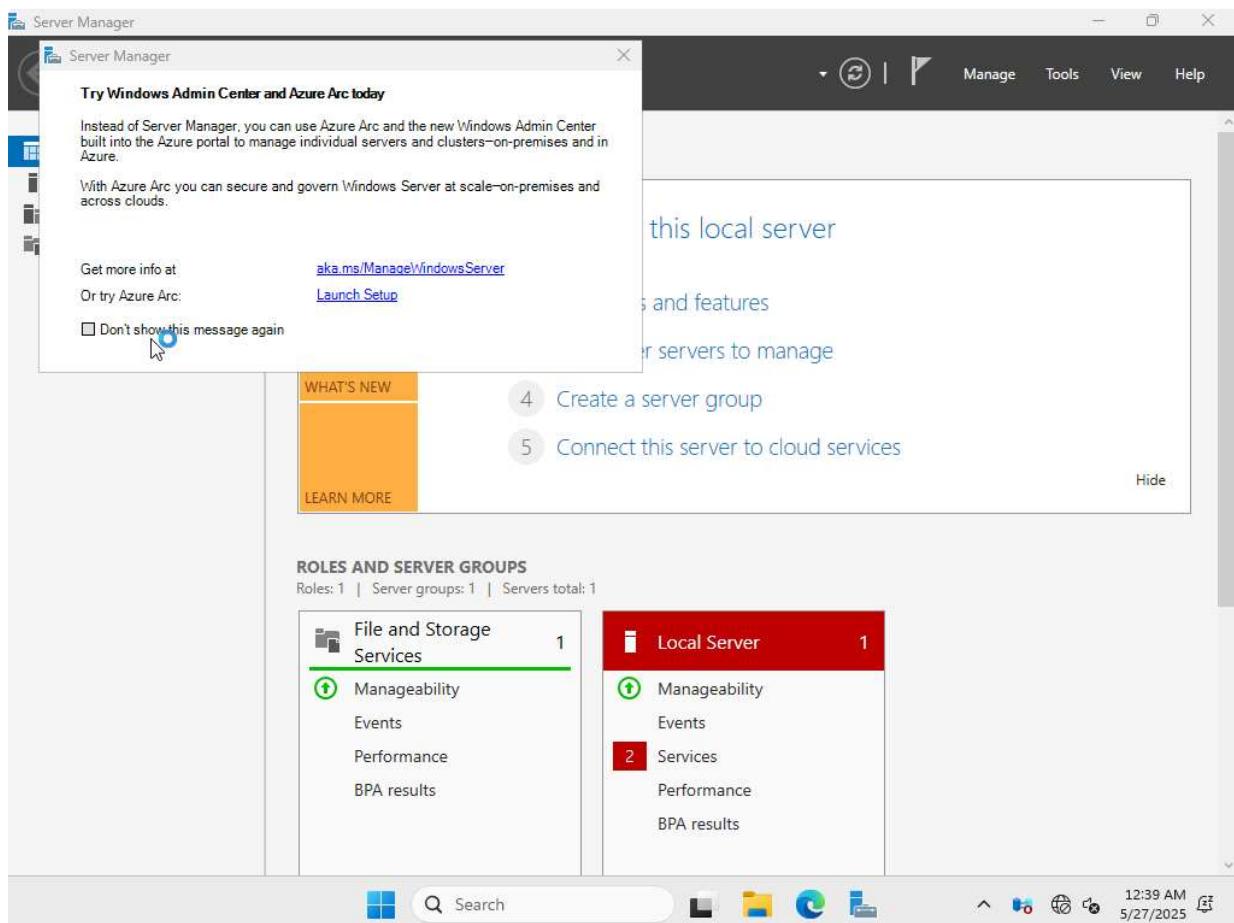
Installing 94%

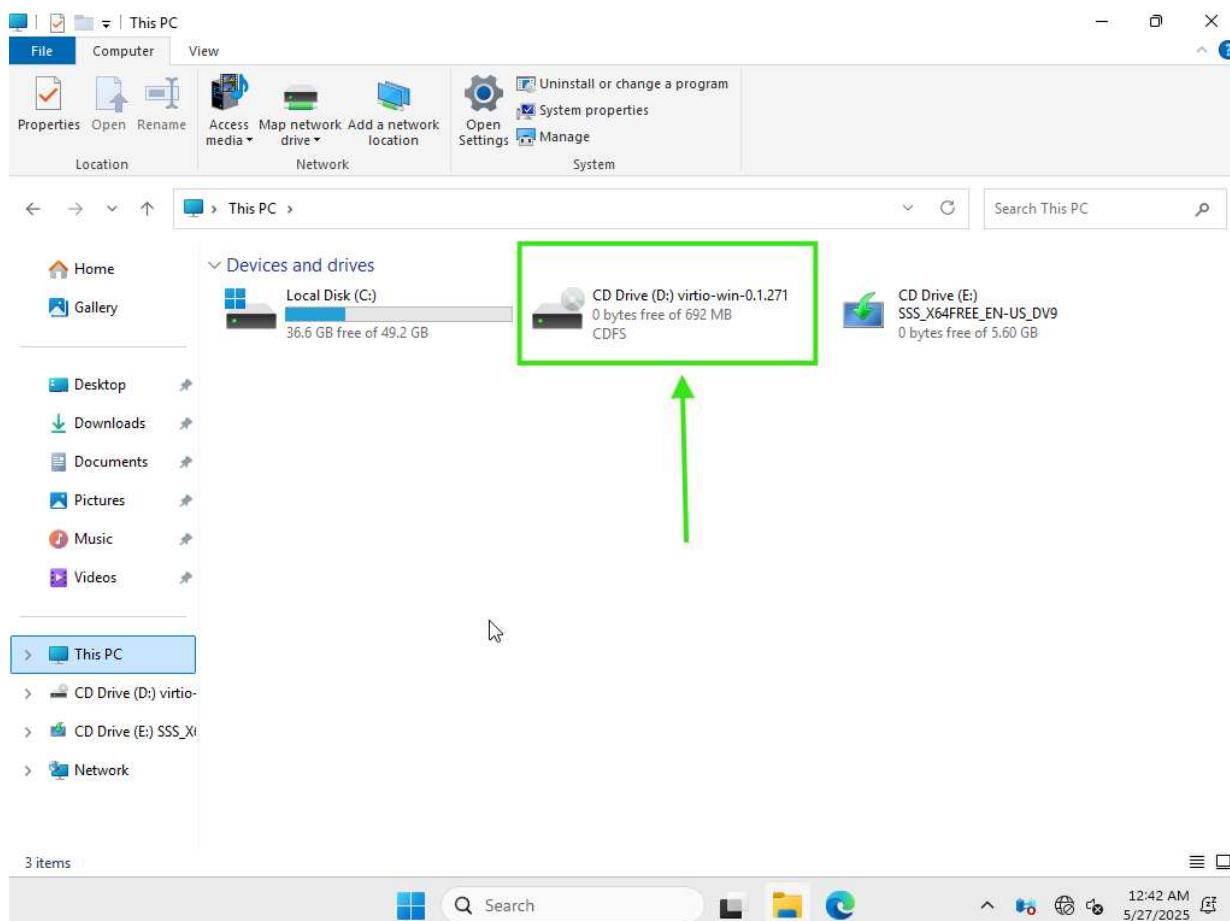
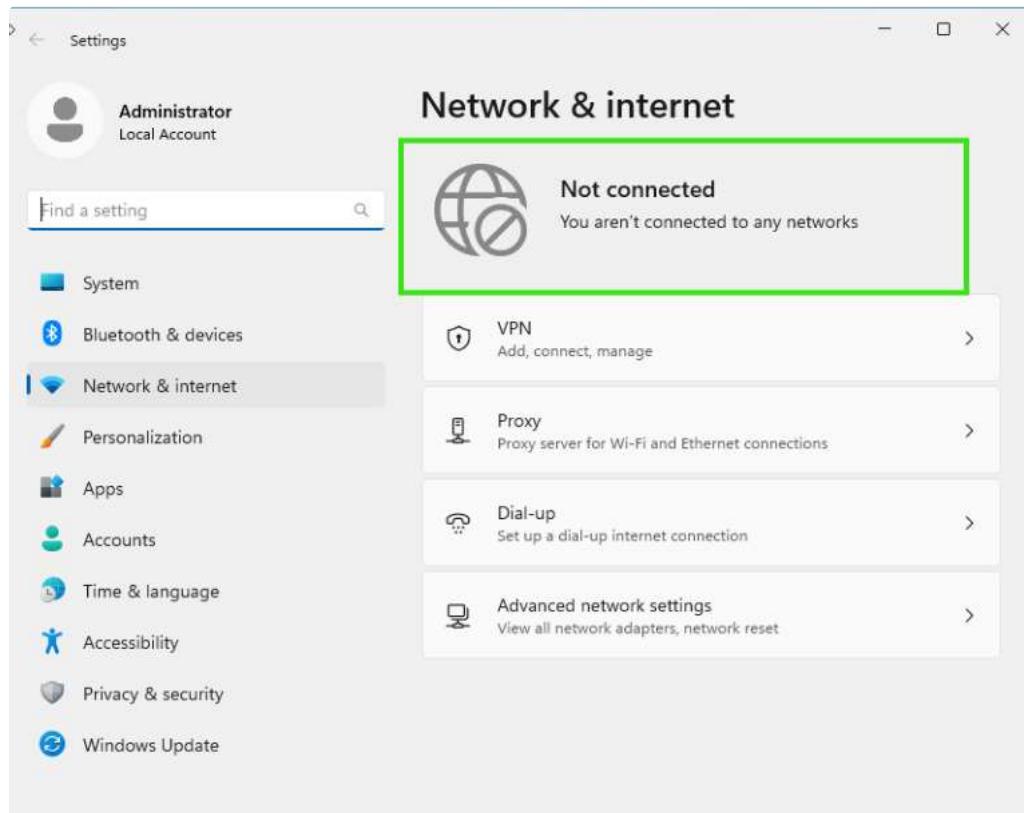
Please keep your computer on.

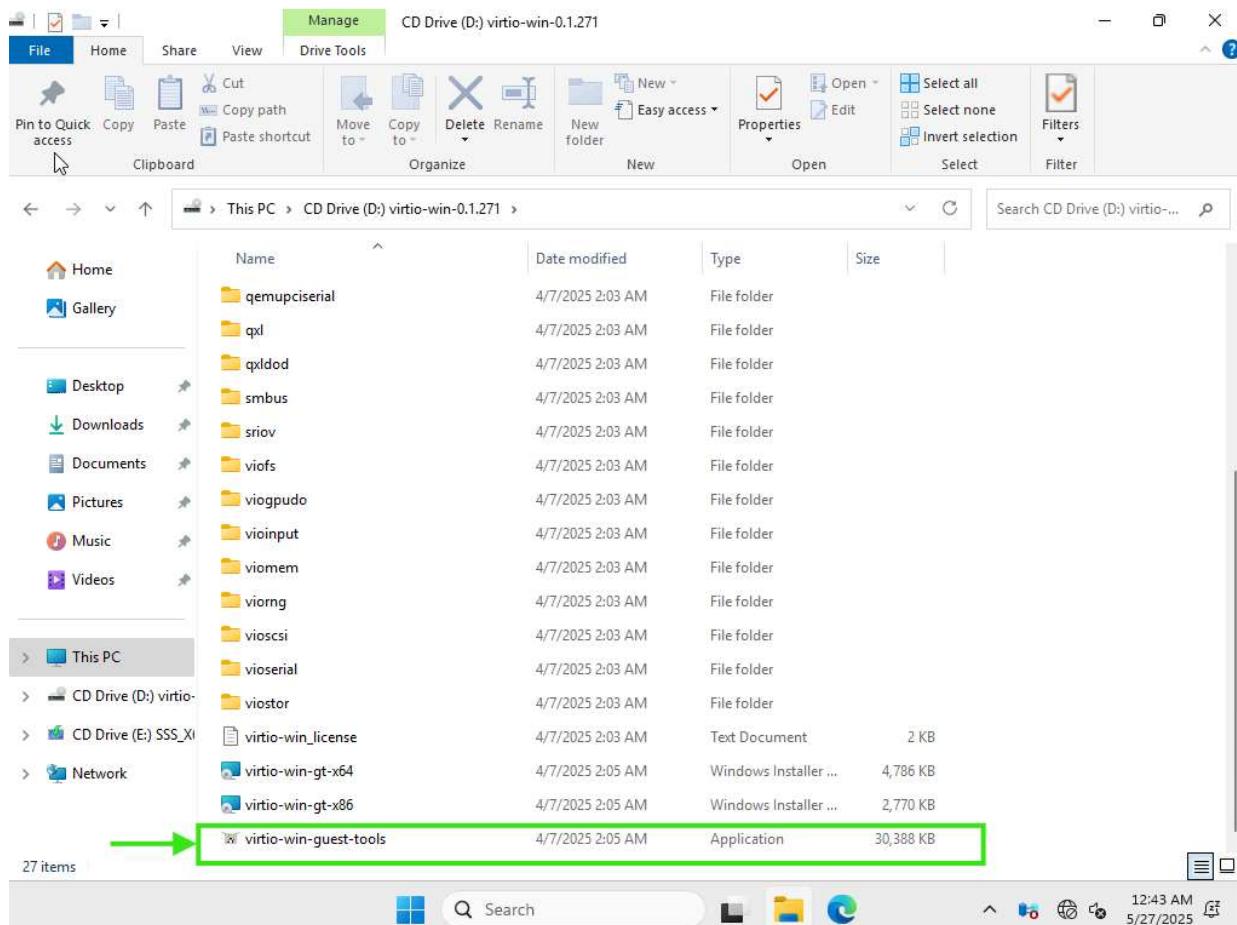
Your computer may restart a few times.

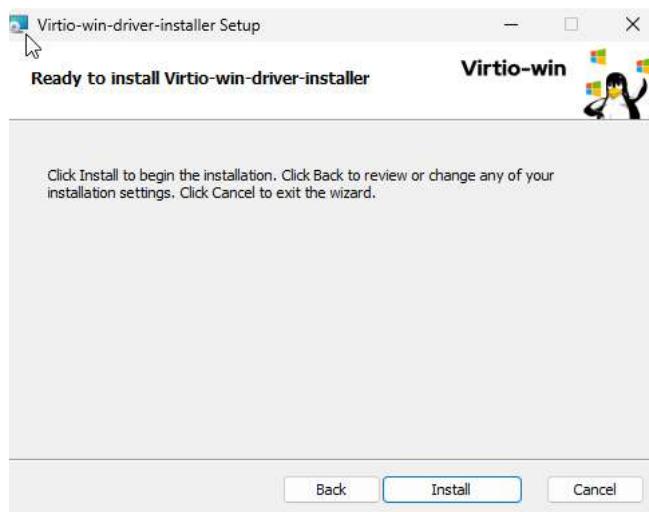
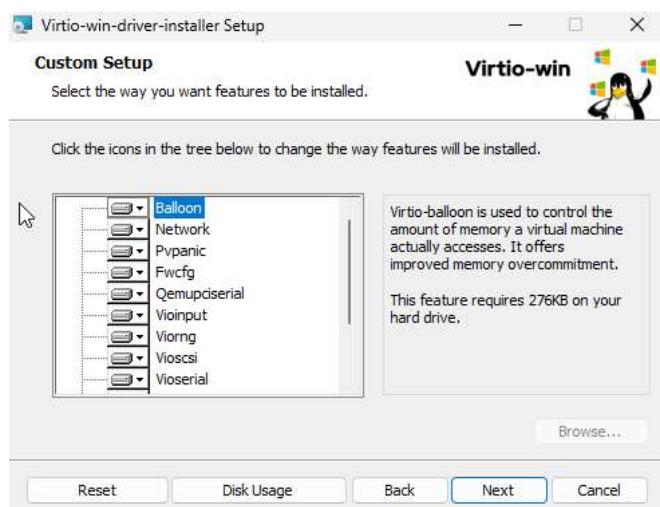
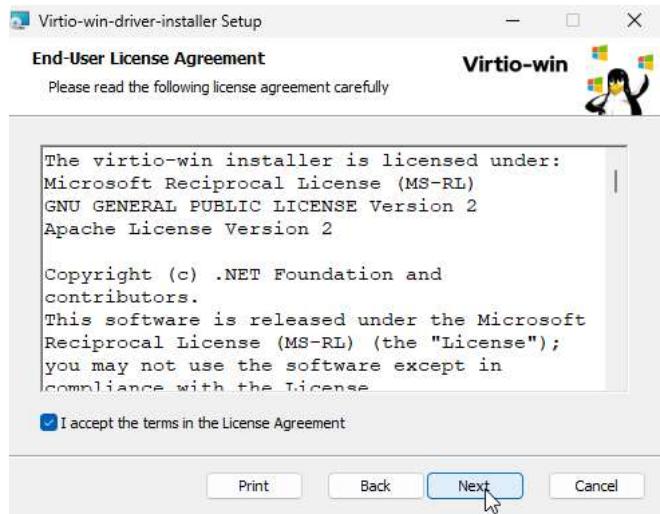


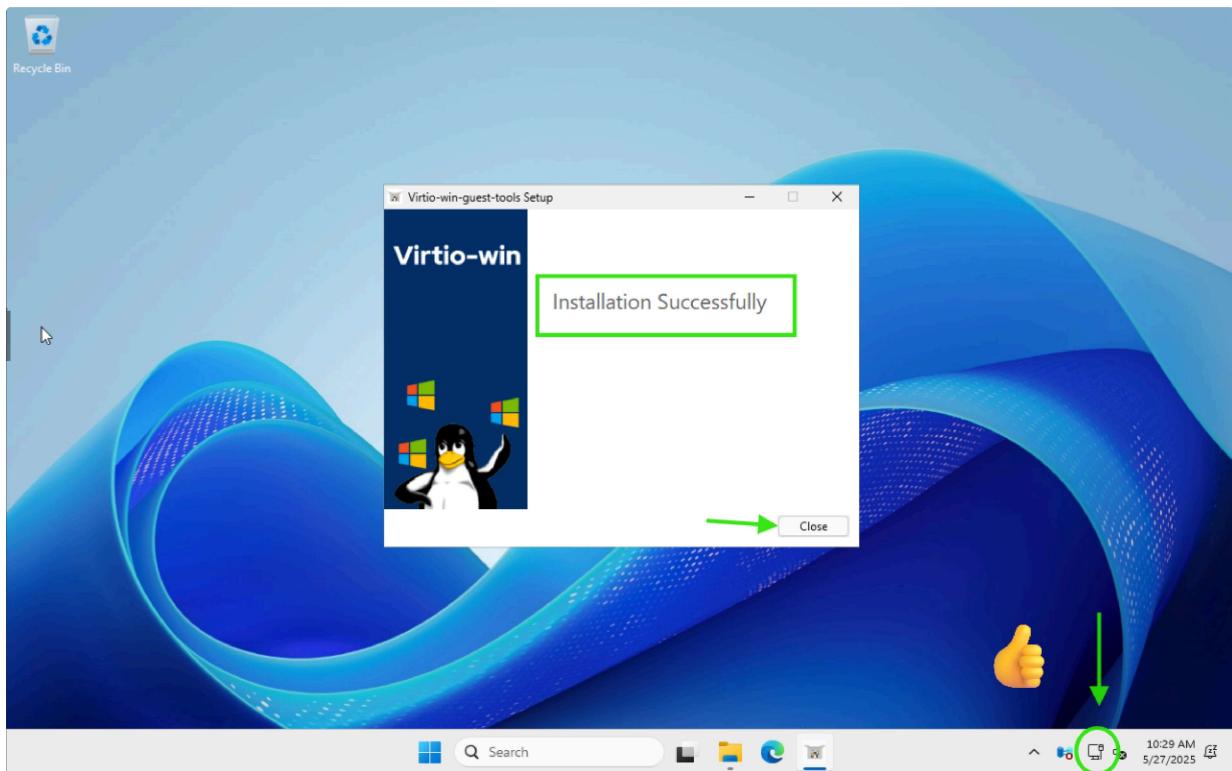
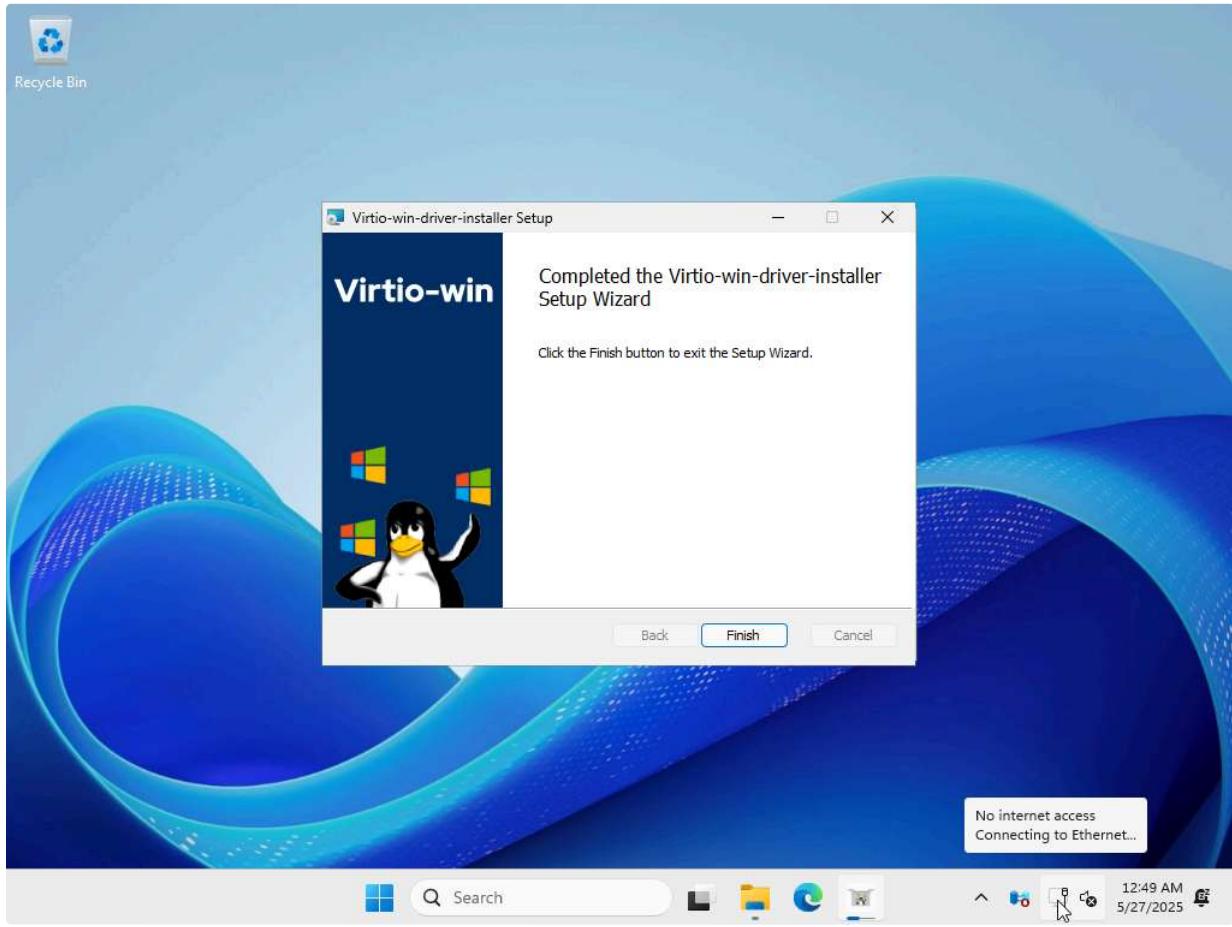


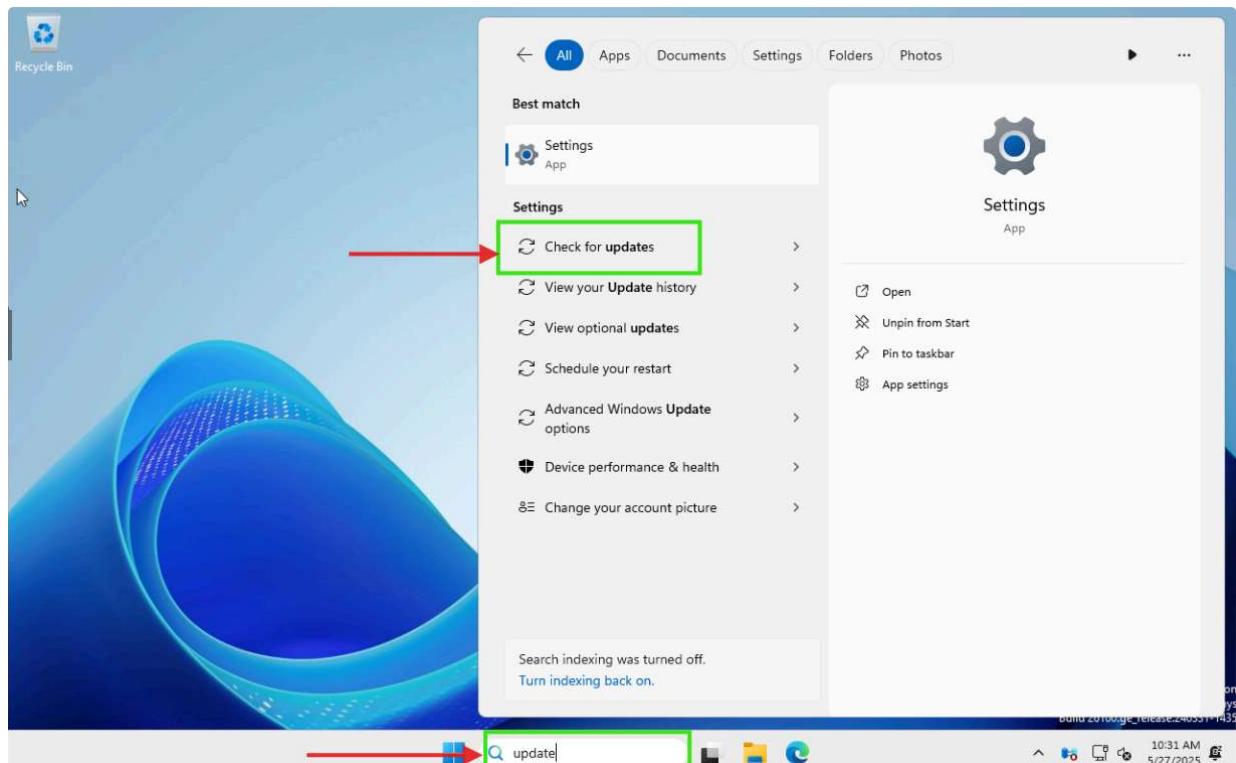
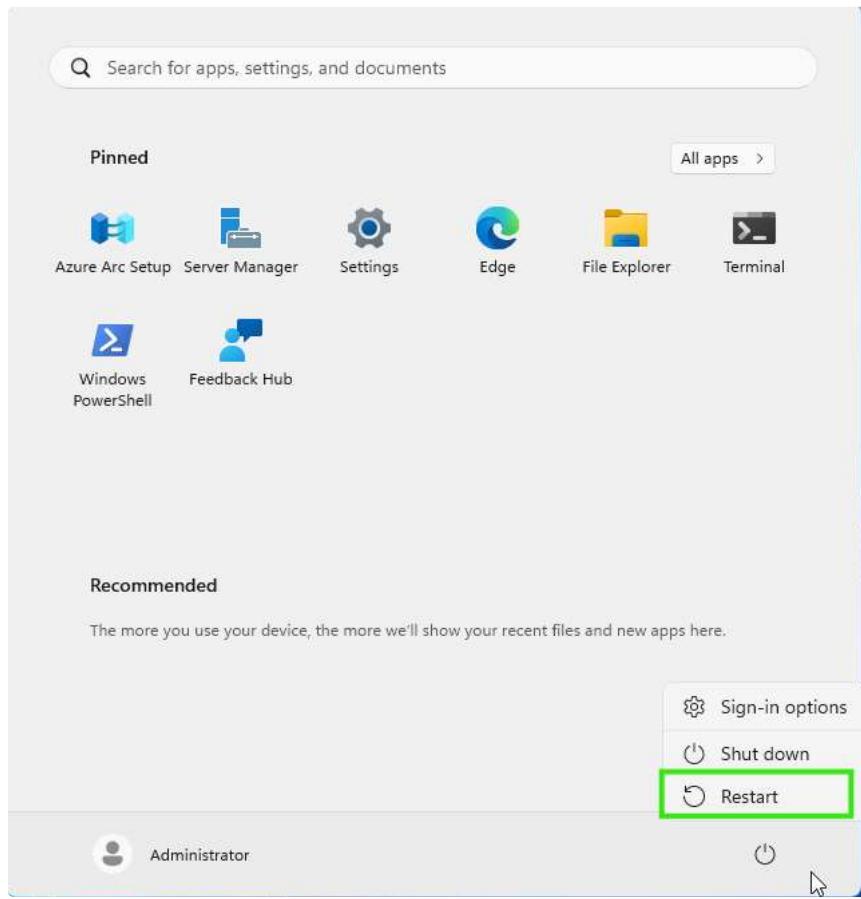


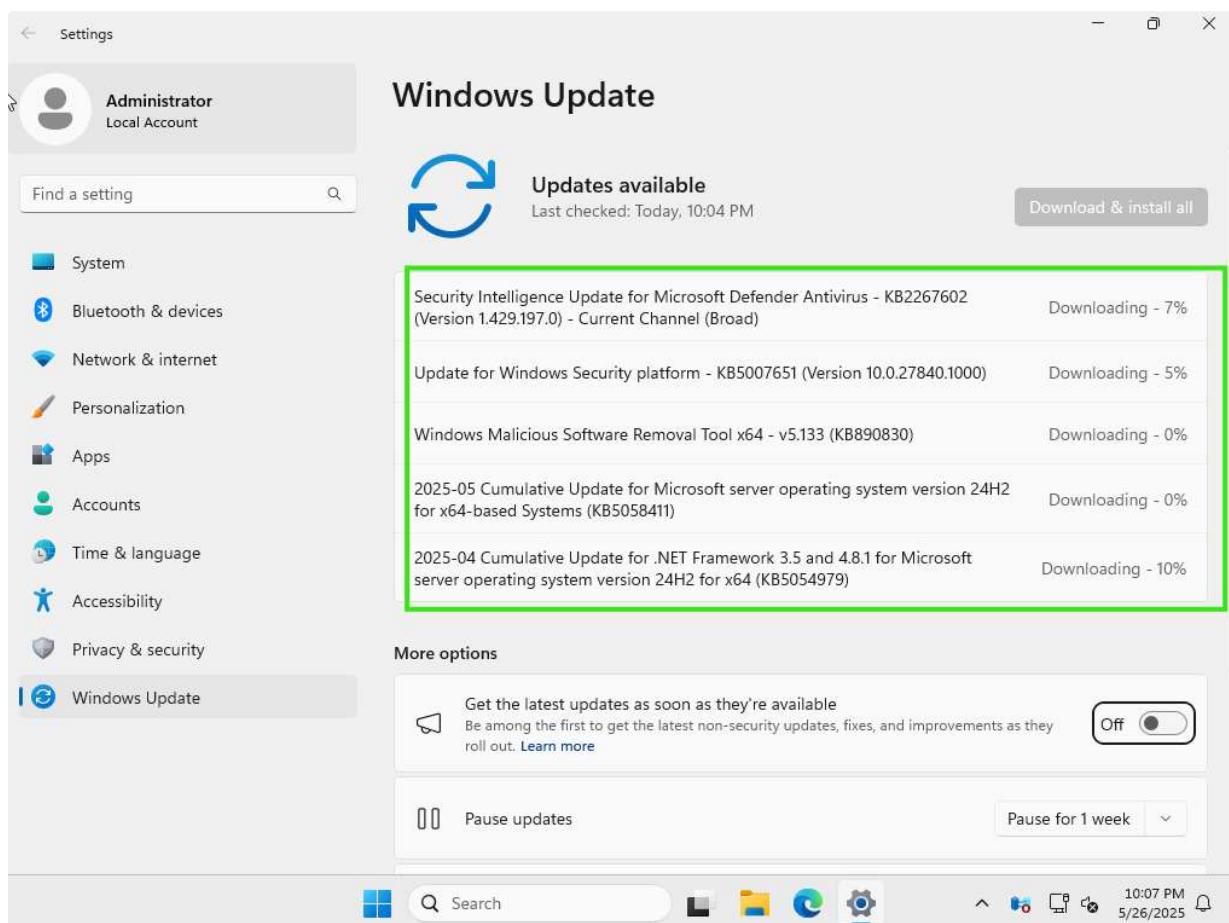
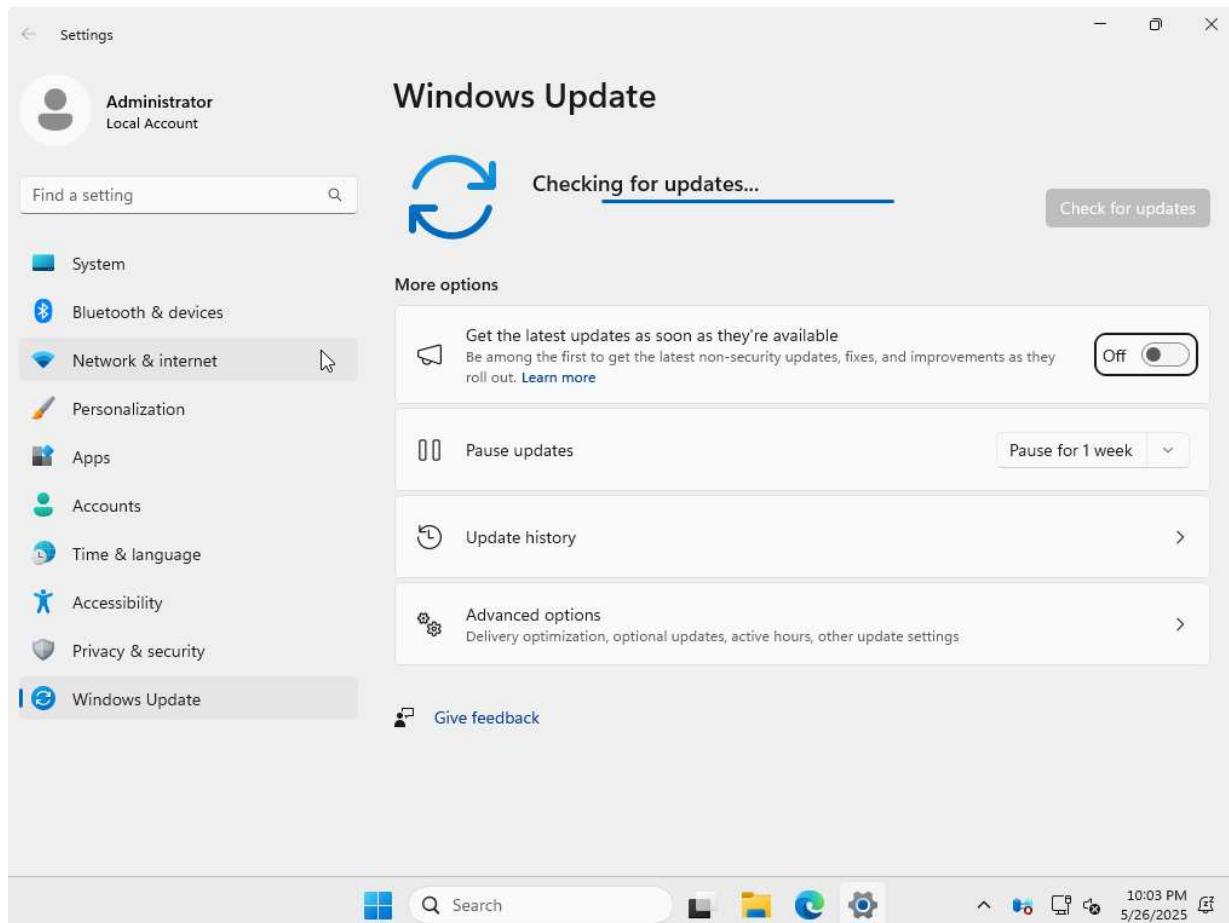


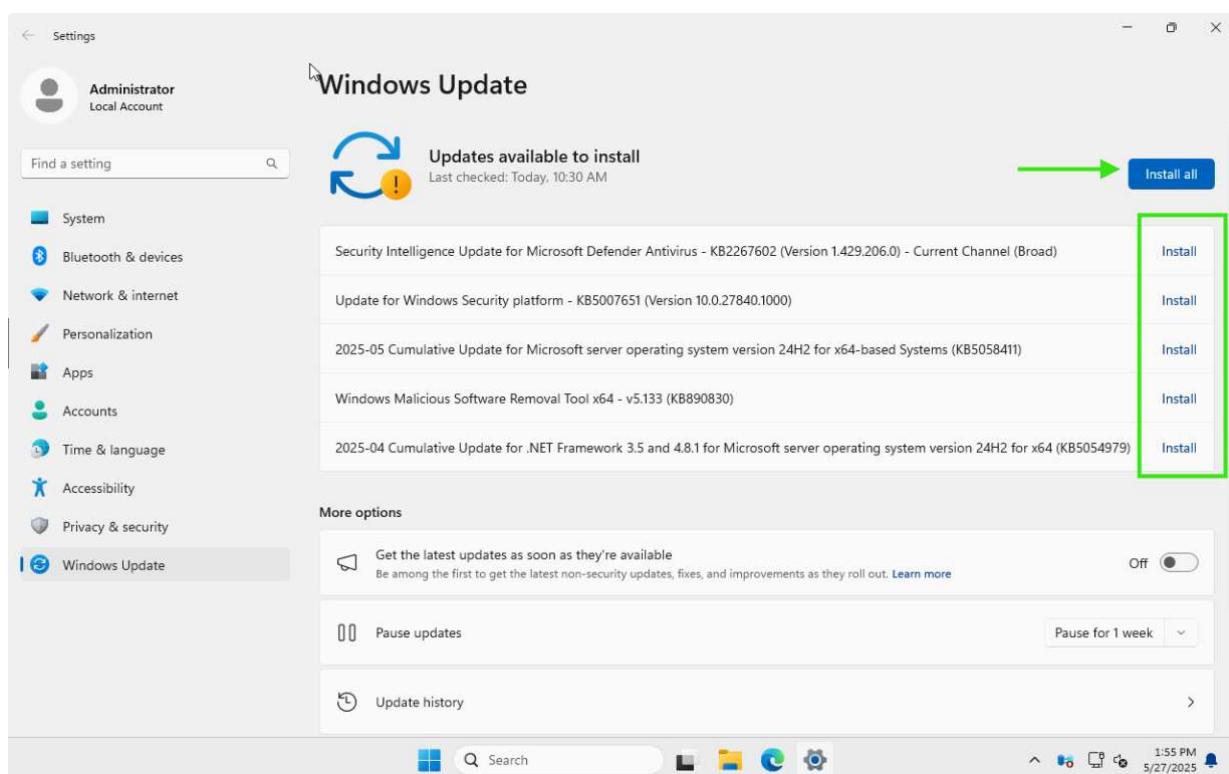
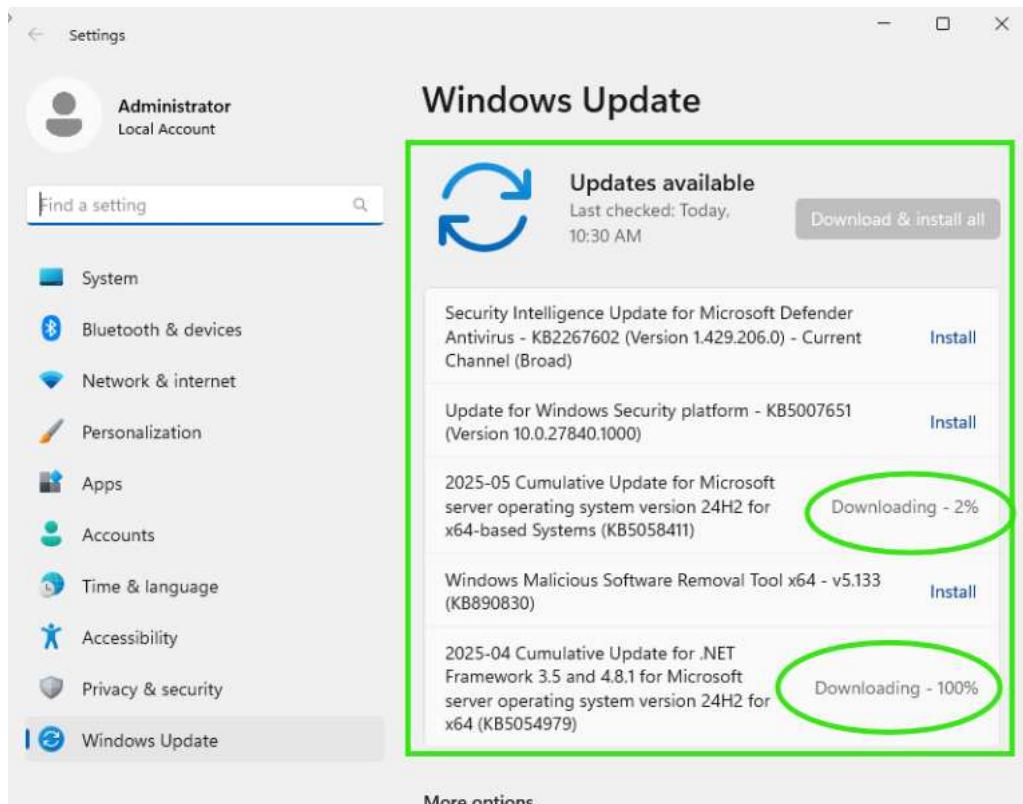


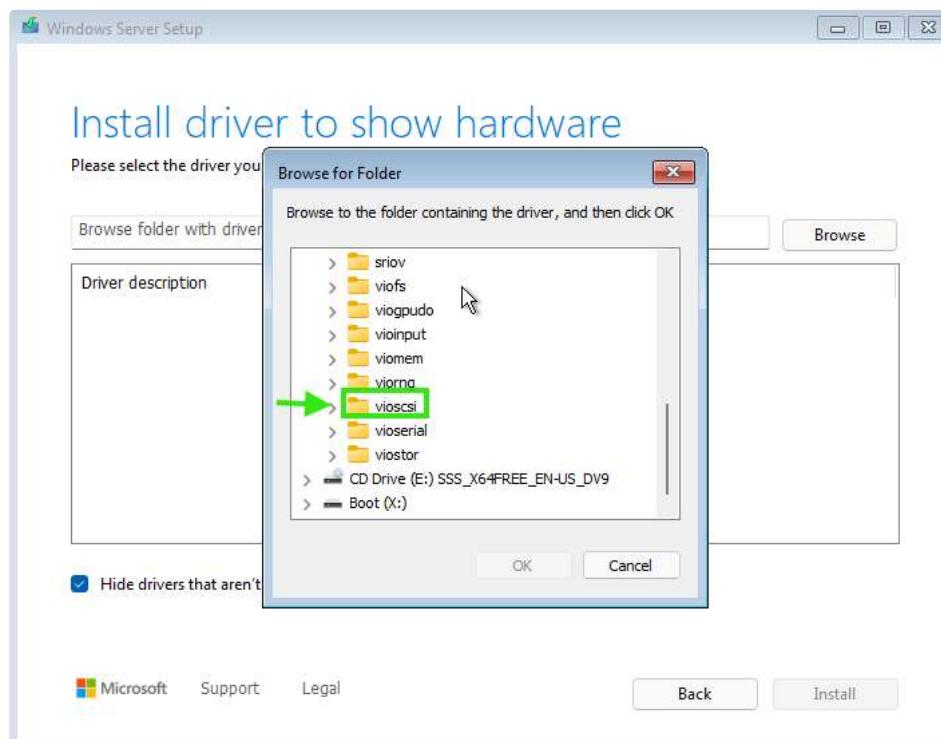
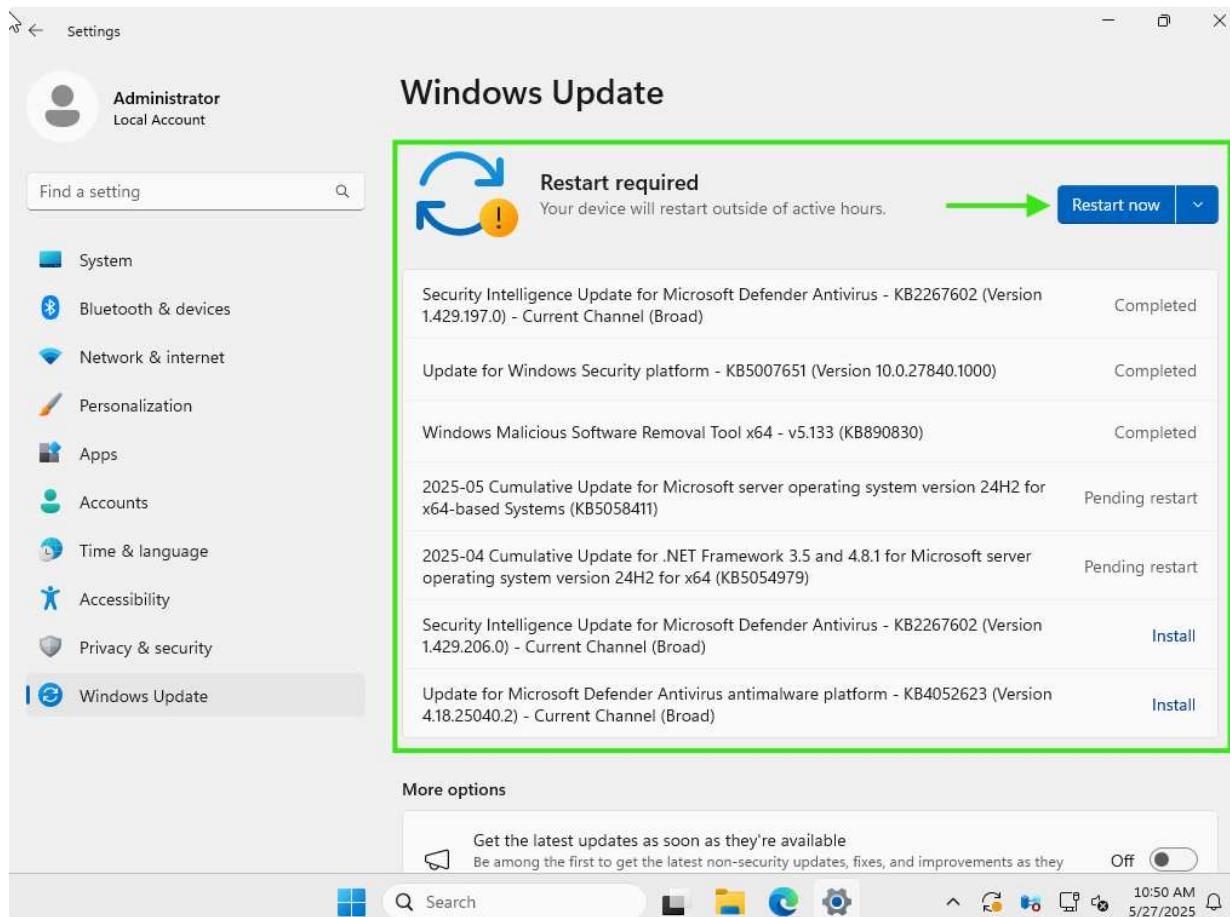


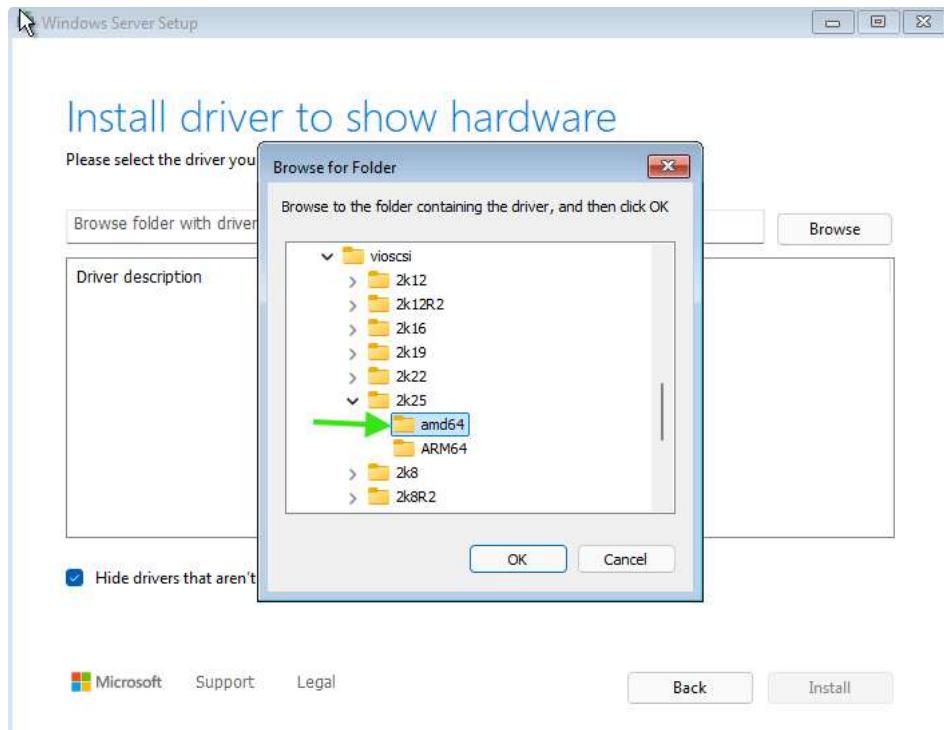
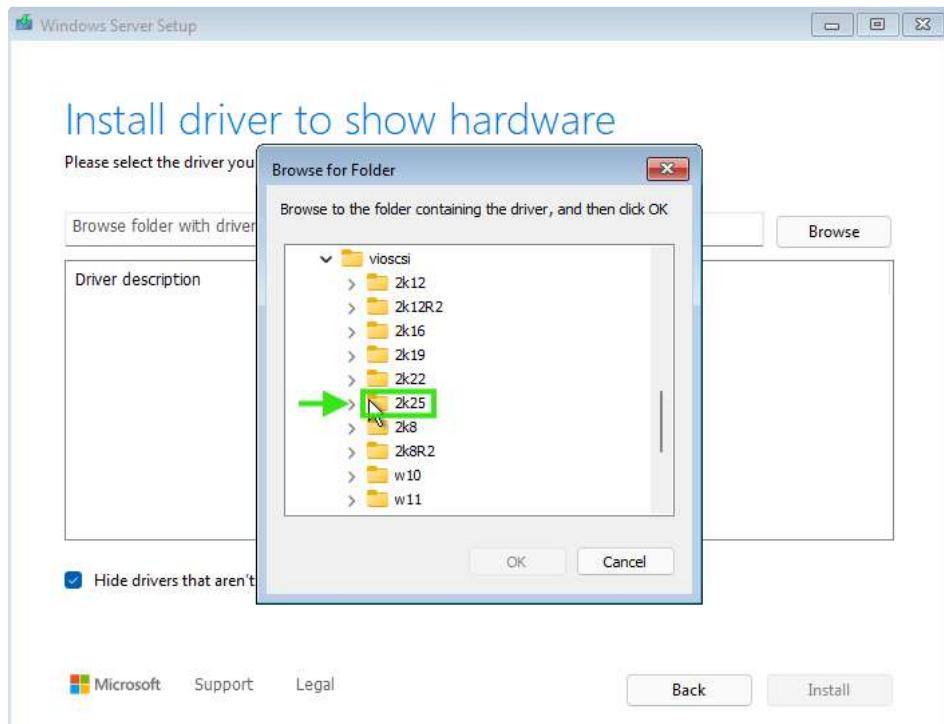












Drivers virtuio

 Windows VirtIO Drivers - Proxmox VE

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

Installation

Using the ISO

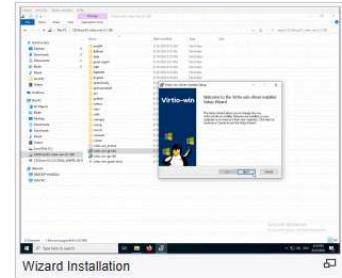
You can download the latest stable [build](#) or you can download the most recent [build](#) of the ISO. Normally the drivers are pretty stable, so one should try out the most recent release first.

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.

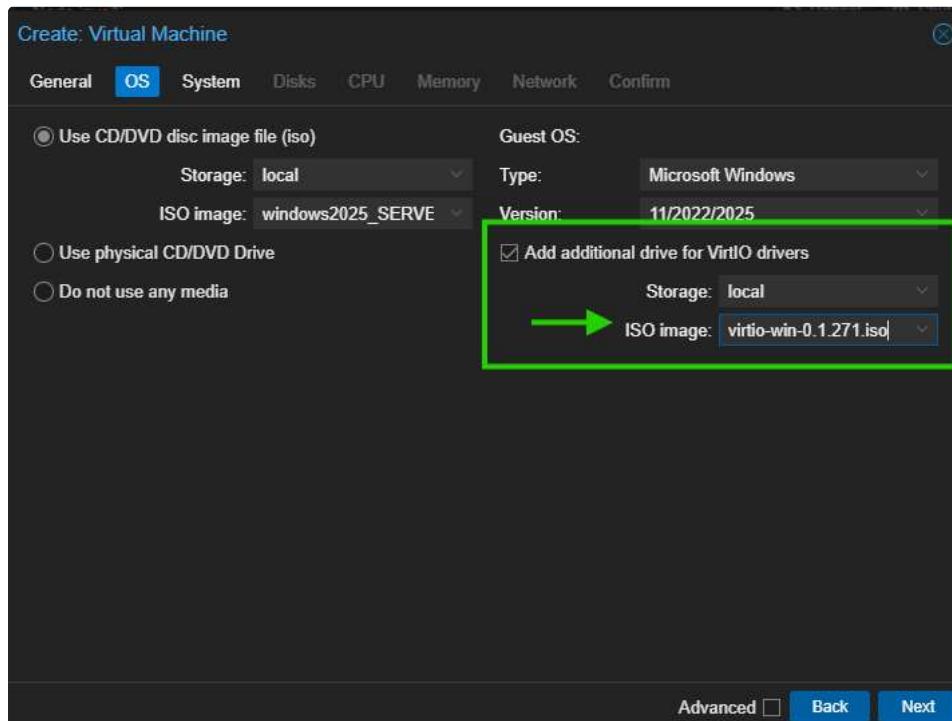
There you can see that the ISO consists of several directories, each having sub-directories for supported OS version (for example, 2k19, 2k12R2, w7, w8.1, w10, ...).

- 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/>

A screenshot of the Oracle VM VirtualBox "Create: Virtual Machine" dialog box, specifically the "OS" tab. The "Storage" dropdown is set to "local" and the "ISO image" dropdown is set to "windows2025_SERVER". The "Guest OS" dropdown is set to "Microsoft Windows" and "Version" is "11/2022/2025". There are three radio button options: "Use CD/DVD disc image file (iso)" (selected), "Use physical CD/DVD Drive", and "Do not use any media". A green arrow points to the checkbox "Add additional drive for VirtIO drivers", which is currently unchecked. At the bottom of the dialog are buttons for "Advanced" (with a gear icon), "Back", and "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

The screenshot shows the 'Server Manager' dashboard. The left sidebar has 'Dashboard' selected. The main area displays a 'QUICK START' section with numbered steps: 1. Configure this local server (highlighted with a green box and an arrow), 2. Add roles and features, 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. Below this, there's a 'ROLES AND SERVER GROUPS' section with three cards: 'File and Storage Services' (1 item), 'Local Server' (1 item), and 'All Servers' (1 item). The 'File and Storage Services' card is highlighted with a green box. The bottom status bar shows the date and time as 5/27/2025 5:03 PM.

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

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

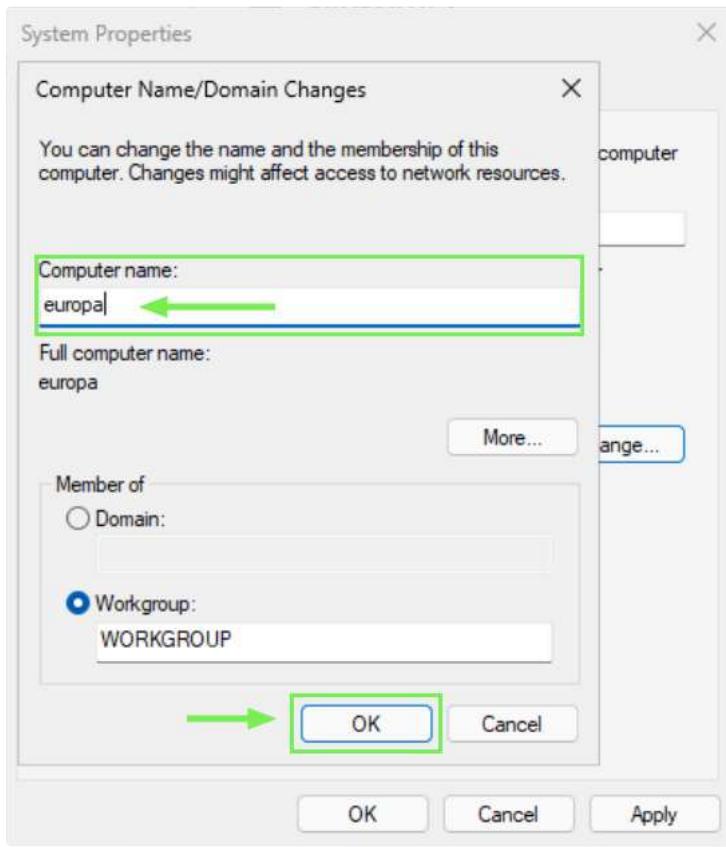
Installed memory (RAM): 7.98 GB

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

← → ⌂ ⌃ ⌄

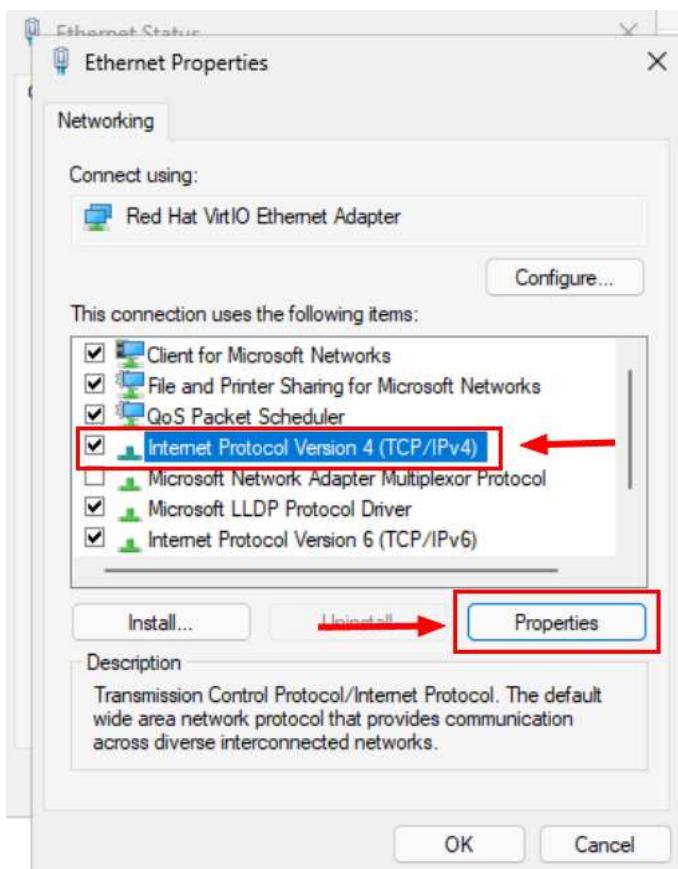
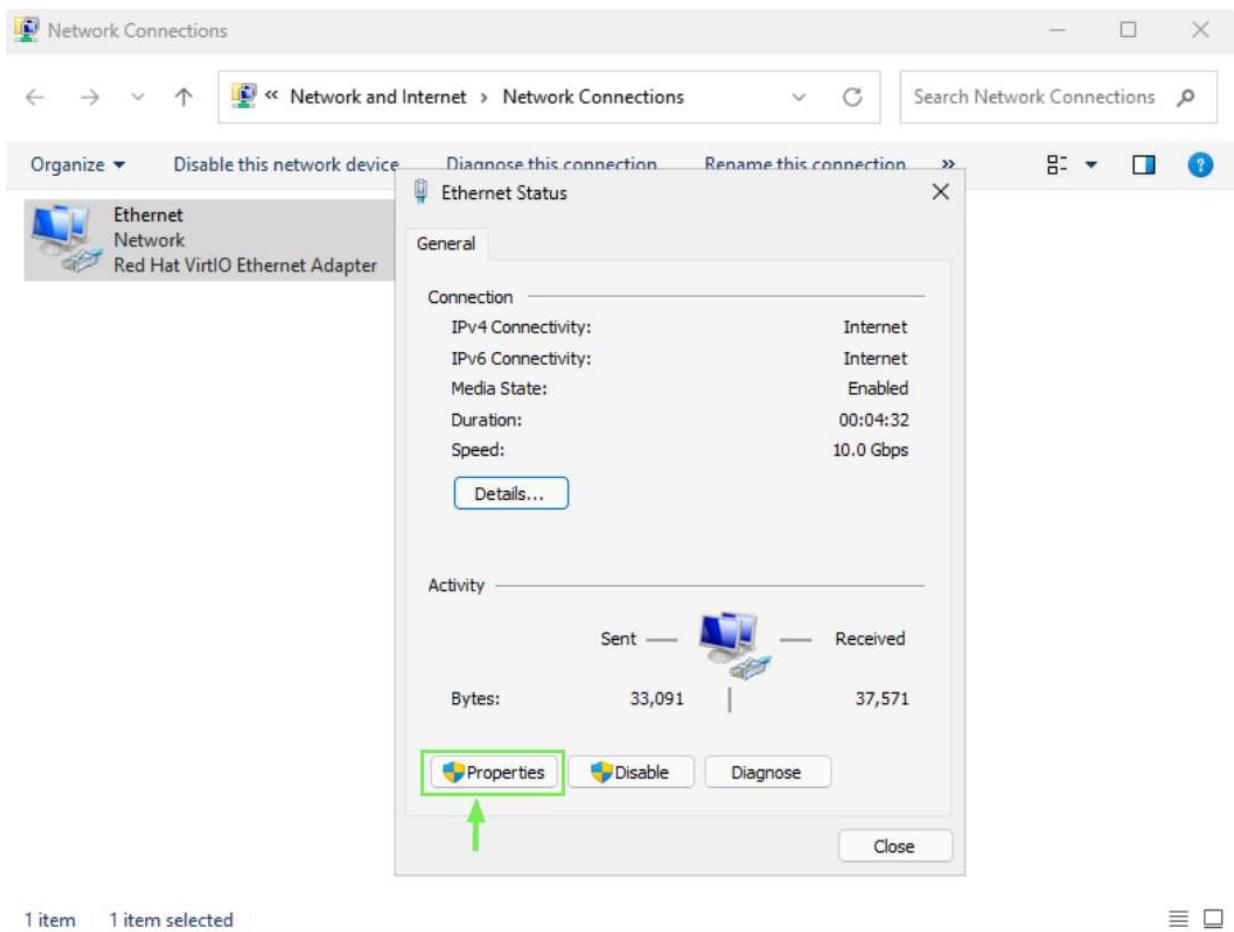
Network and Internet > Network Connections >

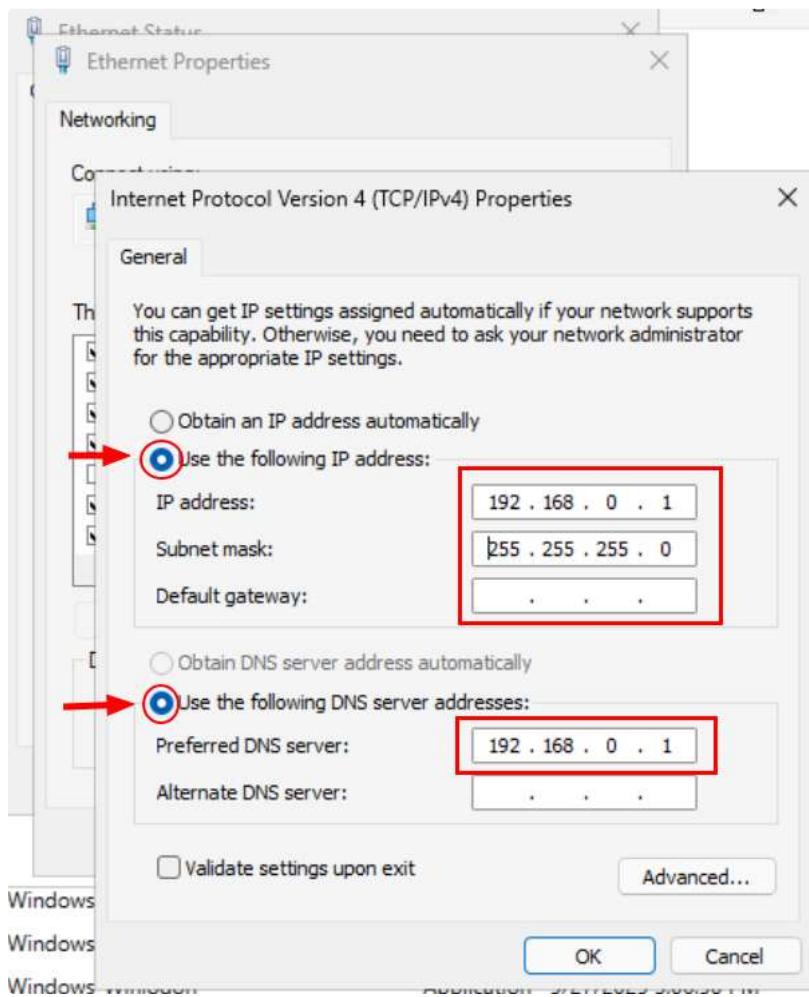
Search Network Connections

Organize ▾

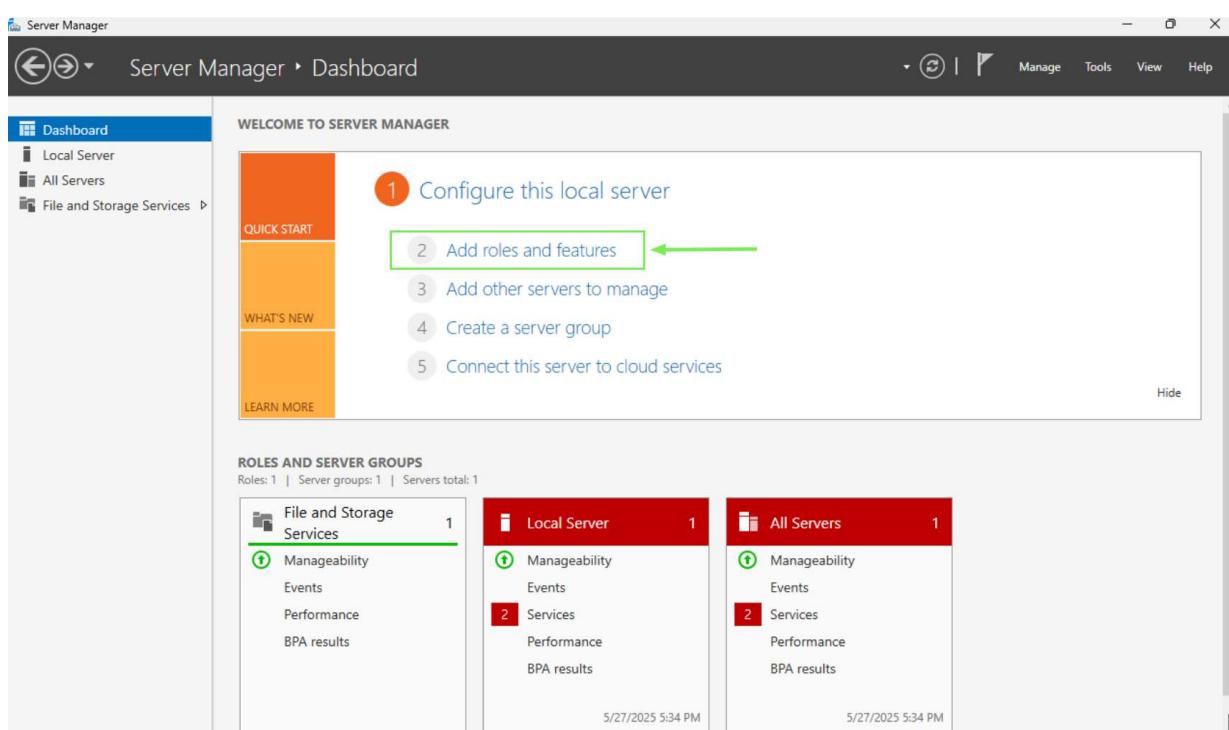
Ethernet
Network
Red Hat VirtIO Ethernet Adapter

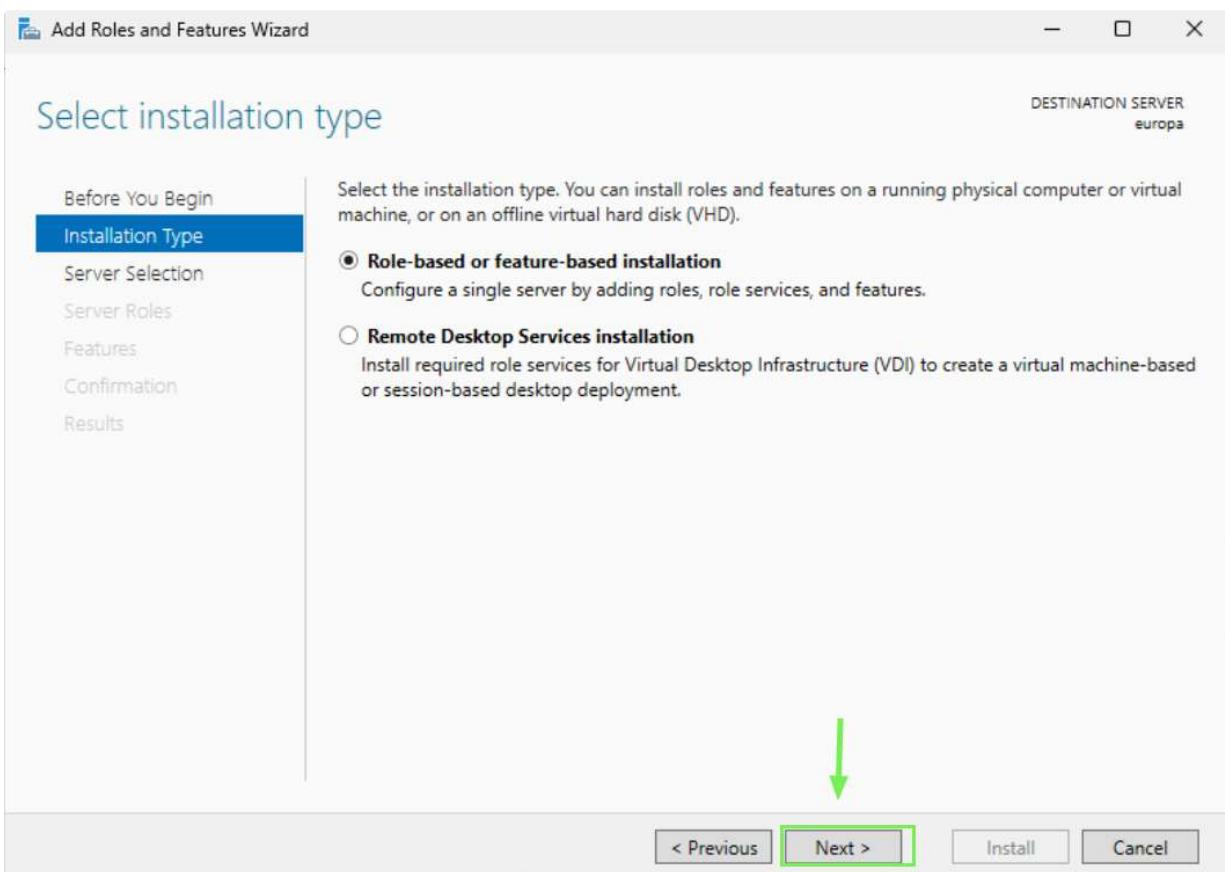
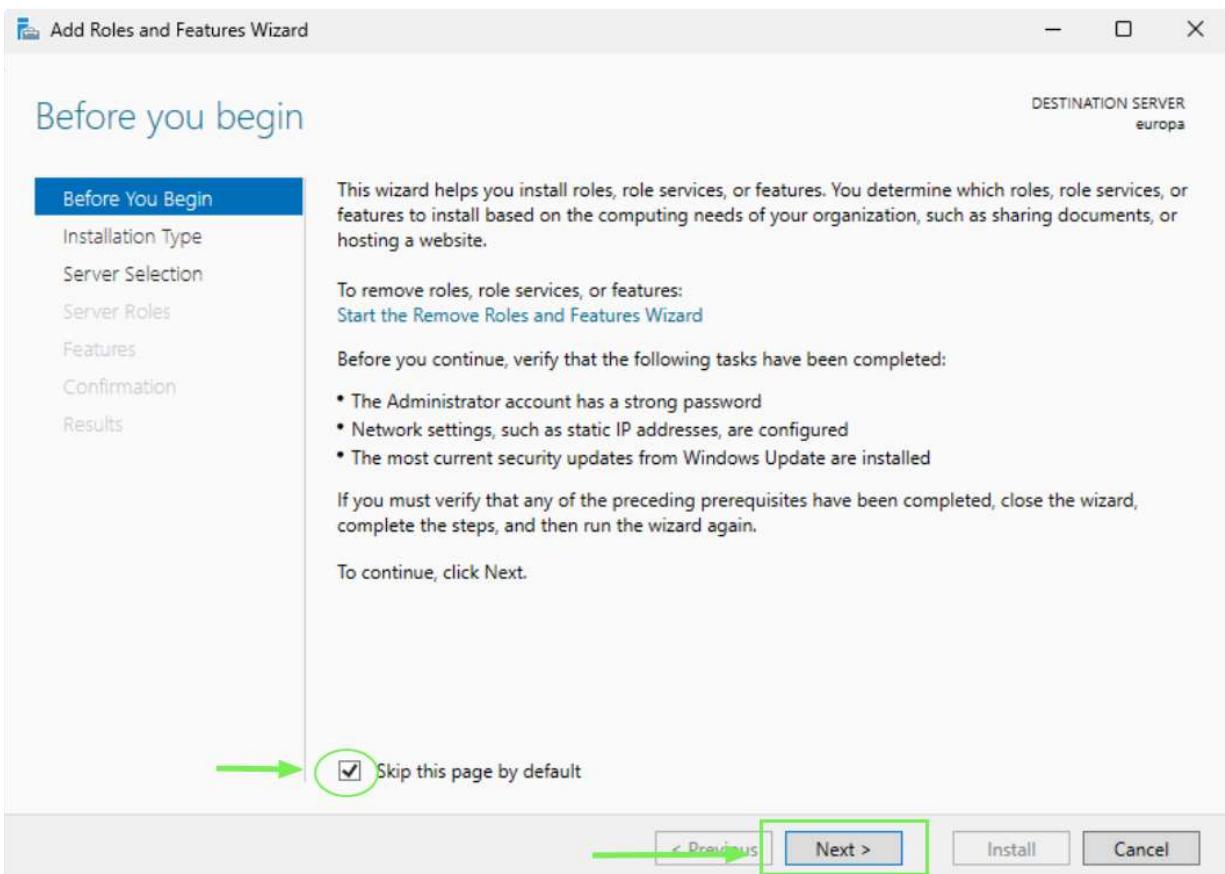
1 item

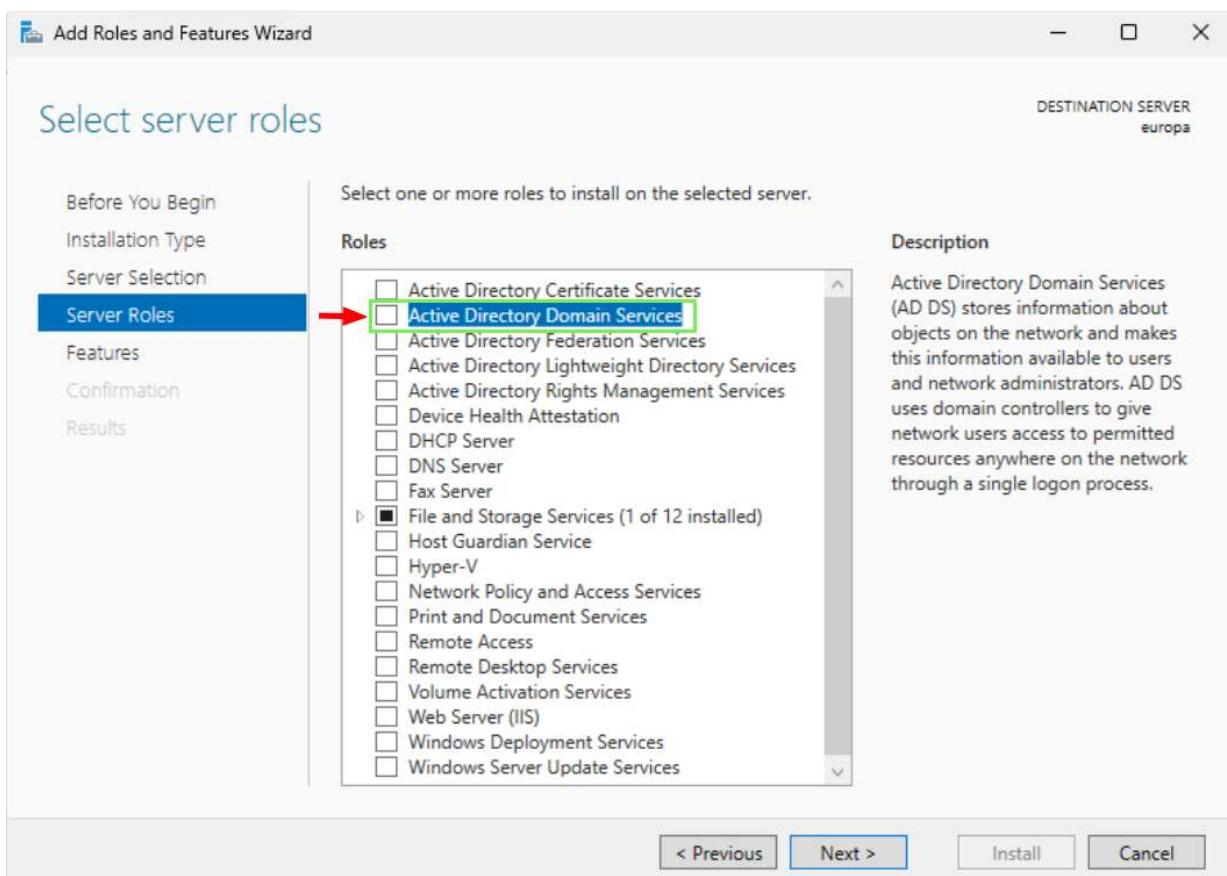
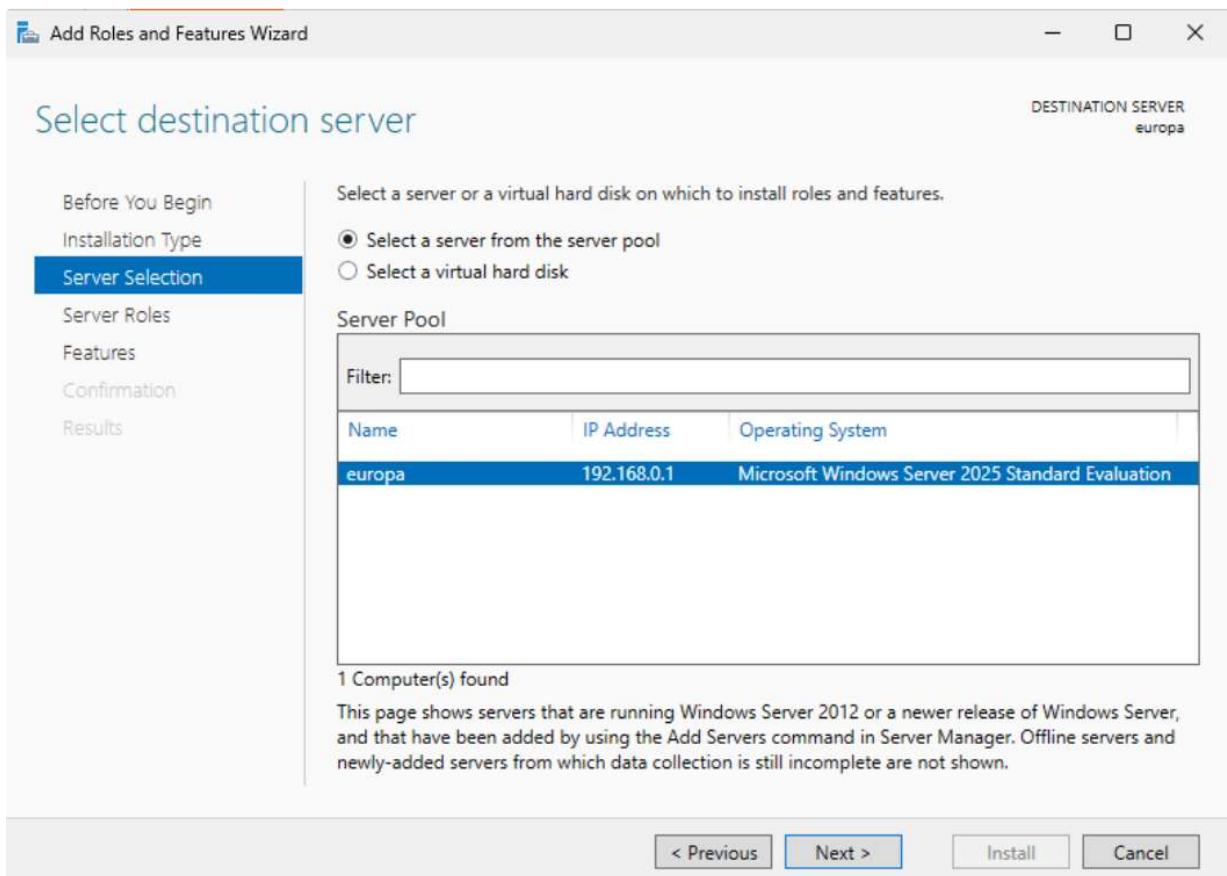


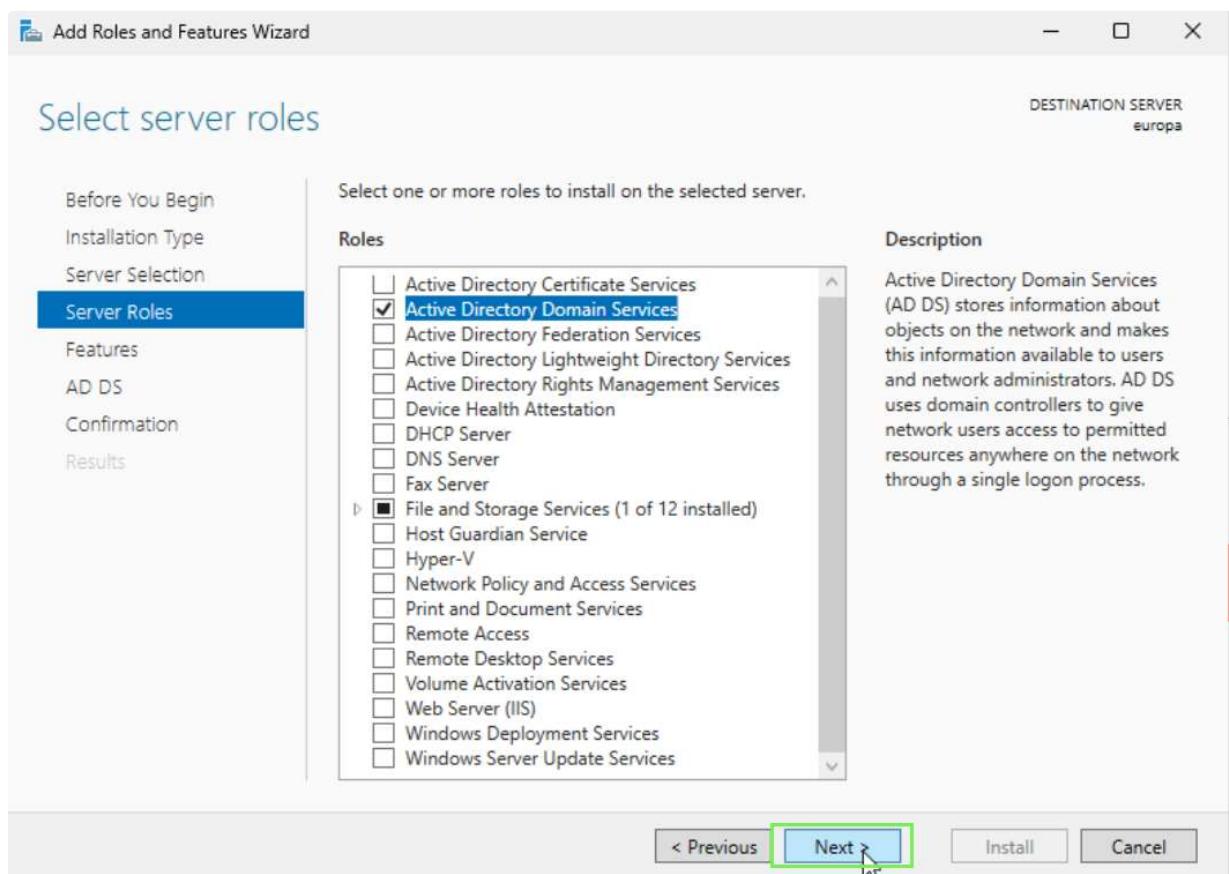
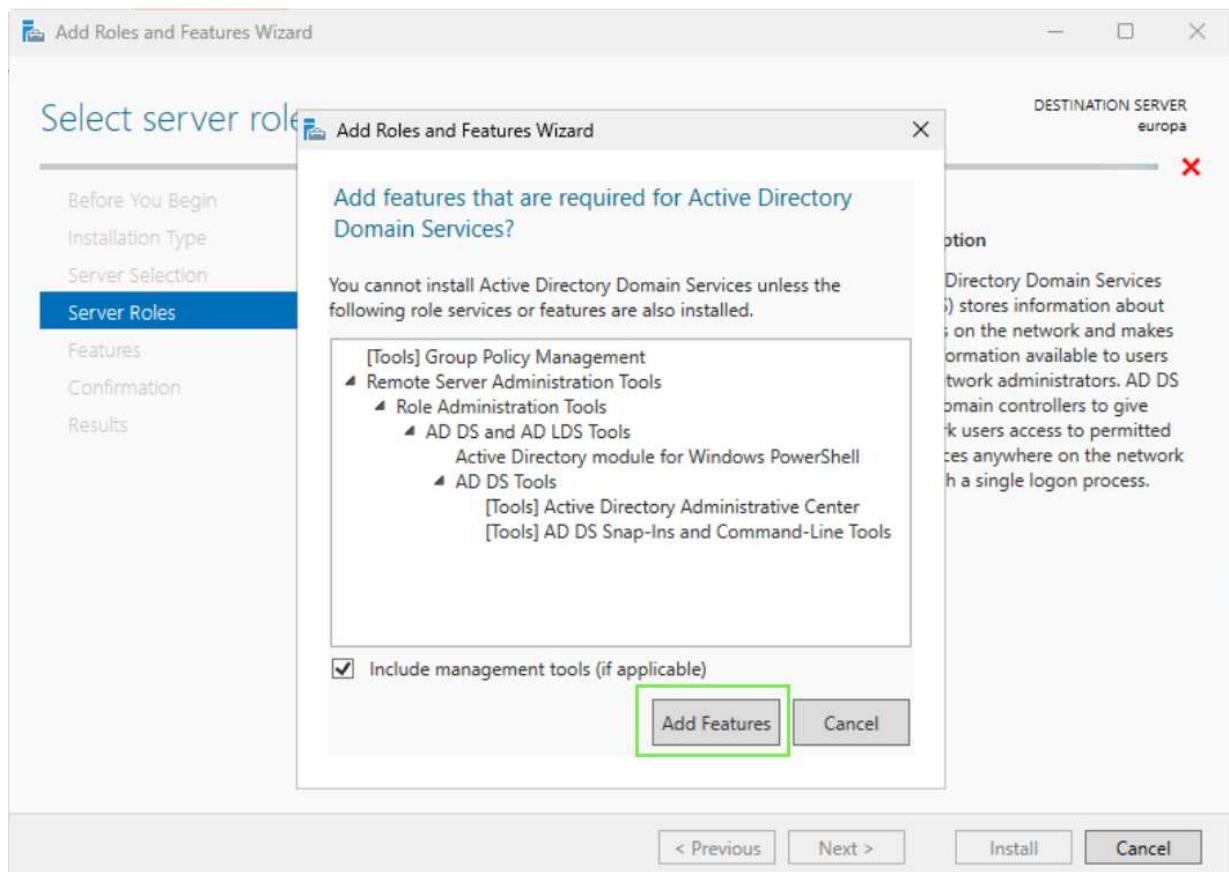


Instalar funções básicas: AD DS e Servidor de Arquivos.









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

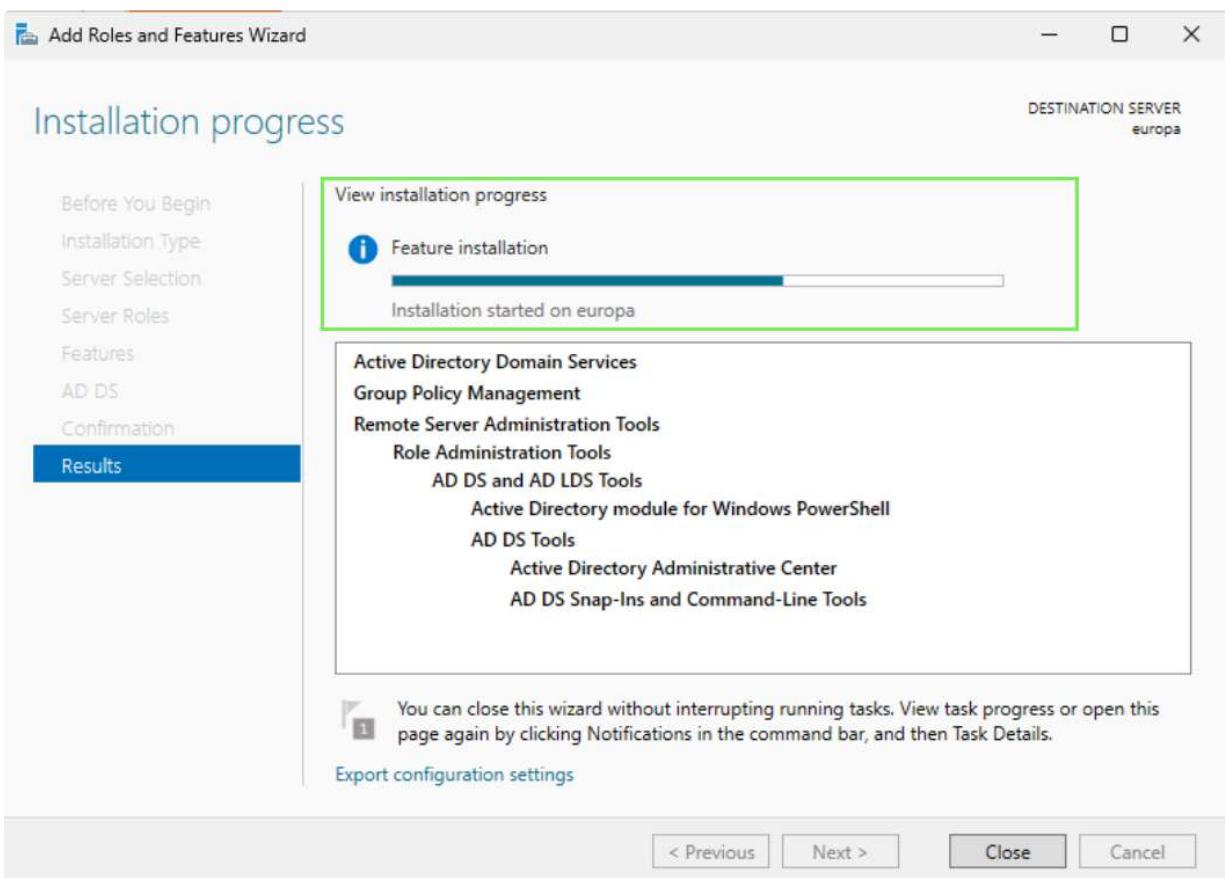
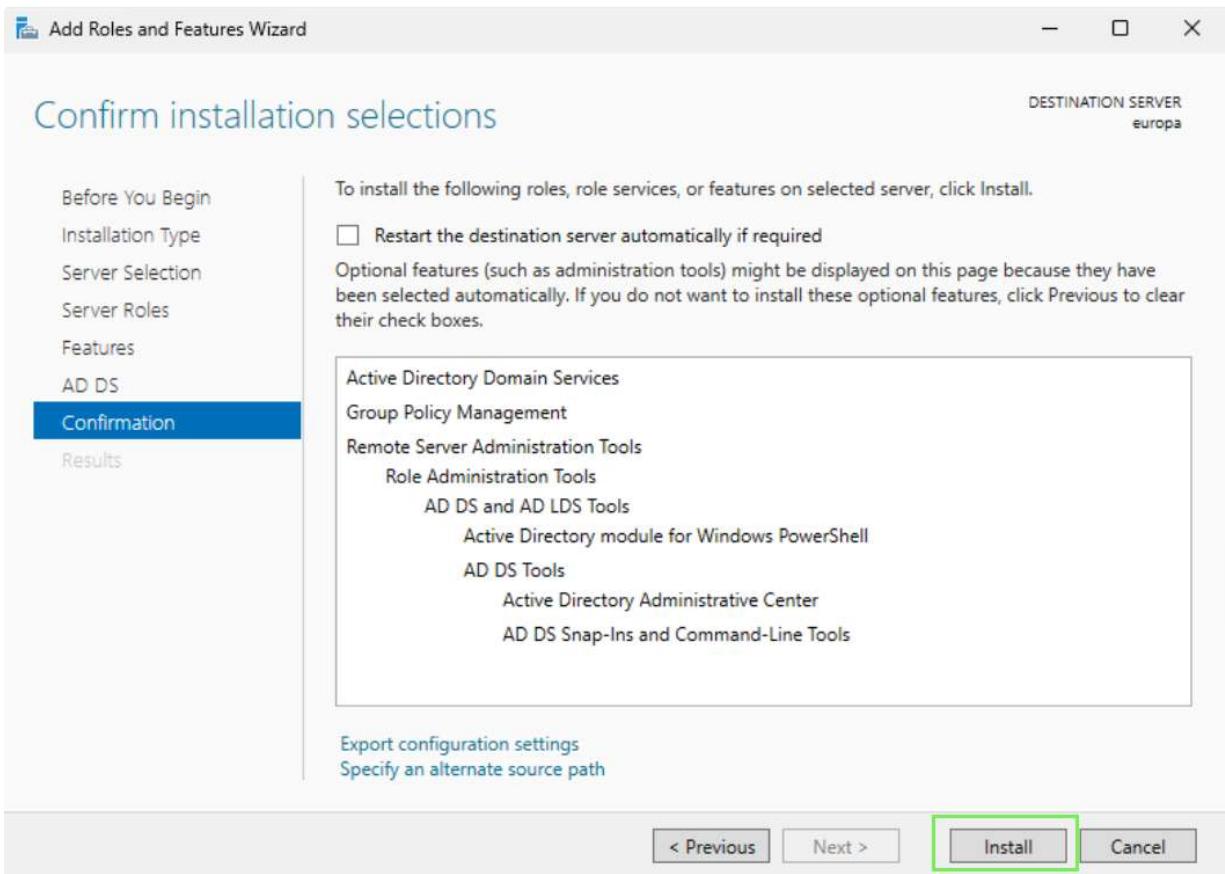
Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.

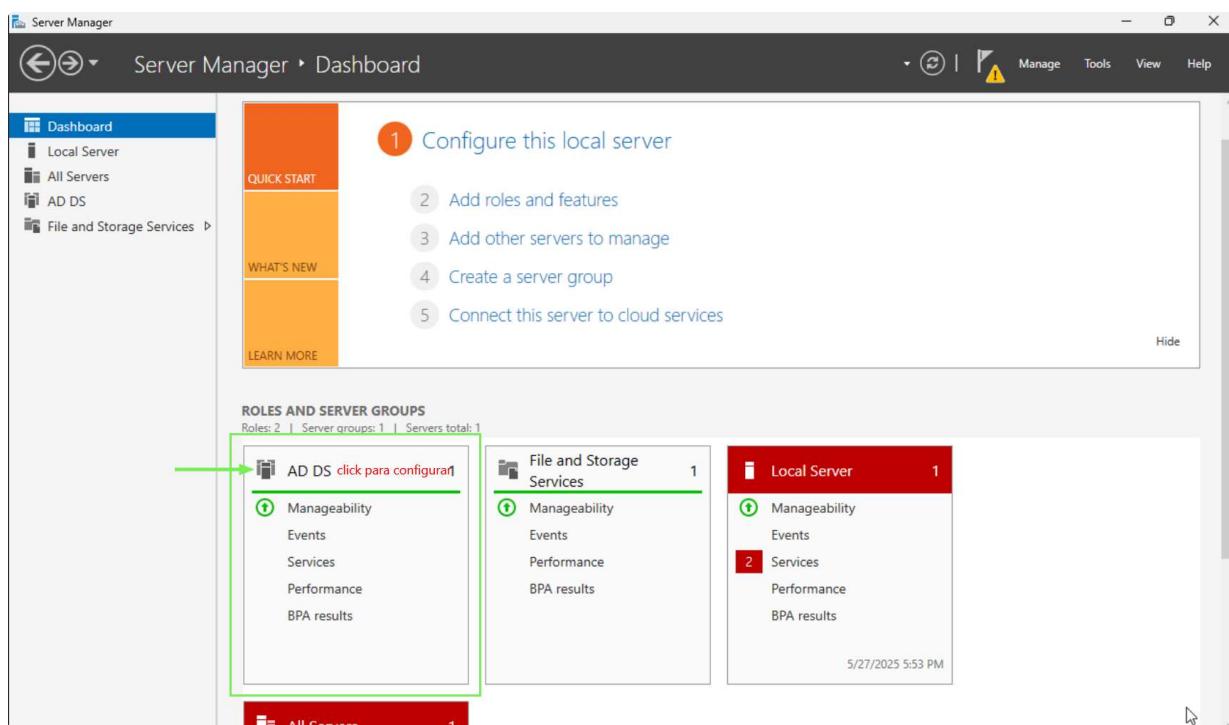
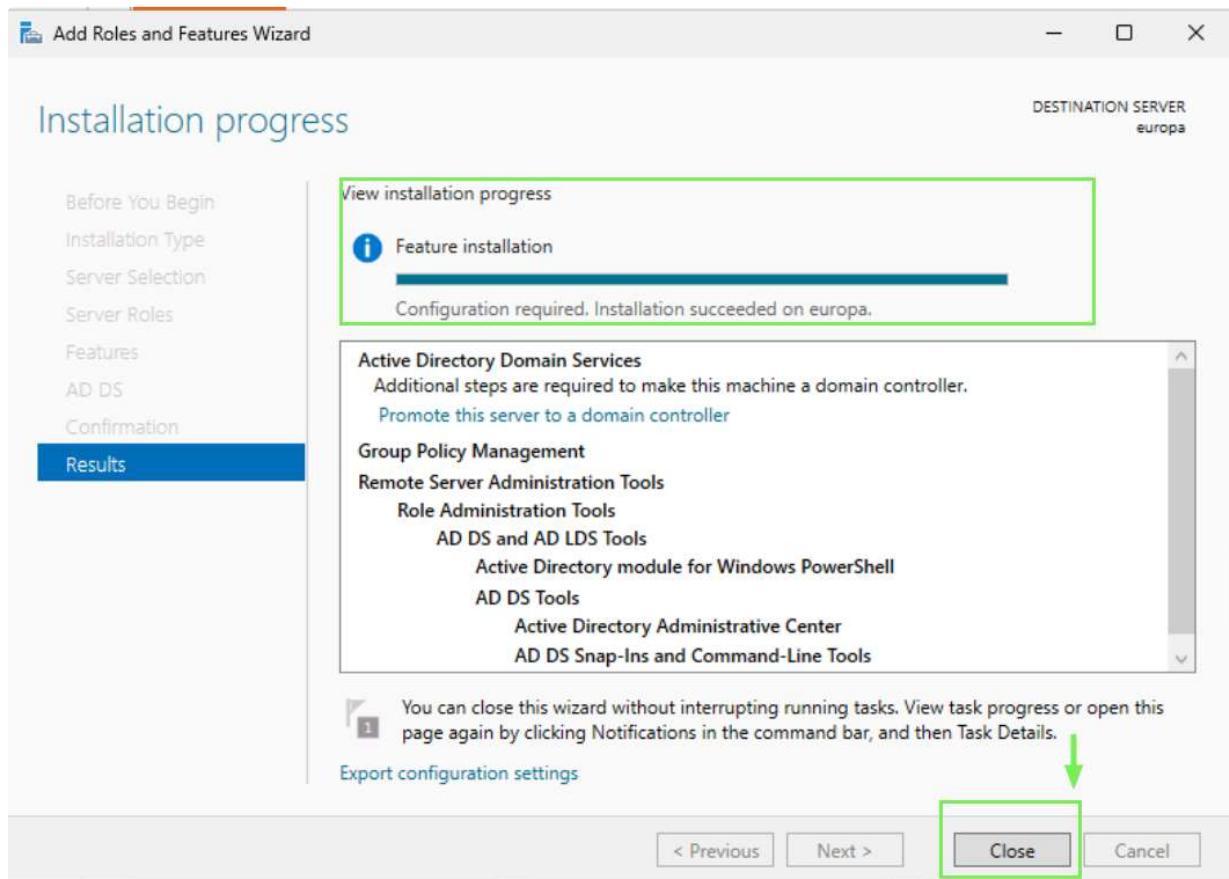
Things to note:

- 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'. A red arrow points to the 'More...' button in the top right corner of the 'EVENTS' pane.

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 |

| 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...'. A red box highlights this link, and a red arrow points to it from the bottom of the previous screenshot. Below the tasks, there is a notifications table with one entry: 'Additional steps are required to make this machine a domain controller.' dated 5/27/2025 5:52:23 PM.

