

Index

1. Create a New Virtual Machine for Windows 11 in VirtualBox
2. Install Windows 11 on VirtualBox
3. Create a RAID 0 Striped Volume
4. Create a RAID 1 Mirrored Volume
5. Create a RAID 5 Volume using Storage Spaces
6. New features of Windows 11.

REFERENCES: INSTALLATION OF WINDOWS 11

How to install windows 11 on Virtual Box with our TPM

<https://www.repairwin.com/how-to-install-windows-11-on-virtualbox-even-without-tpm/>

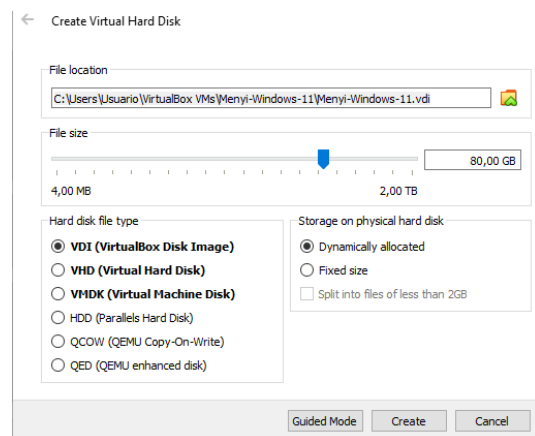
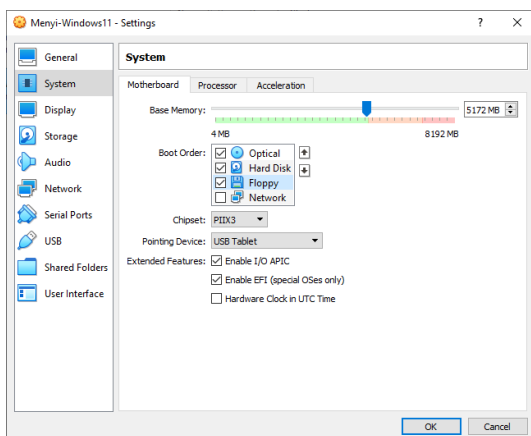
REFERENCES: WINDOWS 11 NEW FEATURES

<https://www.pcworld.com/article/614665/microsofts-new-windows-11-experiences-are-live-including-android-apps.html>

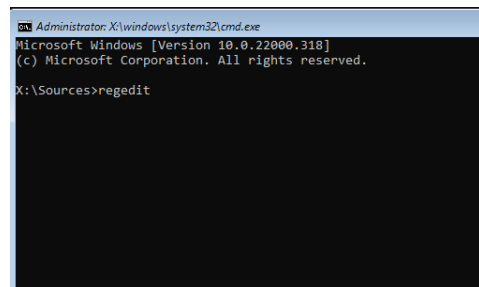
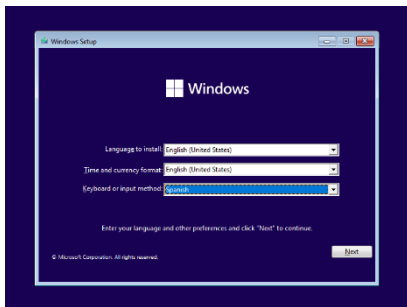
Create a New Virtual Machine for Windows 11 in VirtualBox

NOTE: VirtualBox is already updated to the latest version.

Start the VM machine to install Windows 11

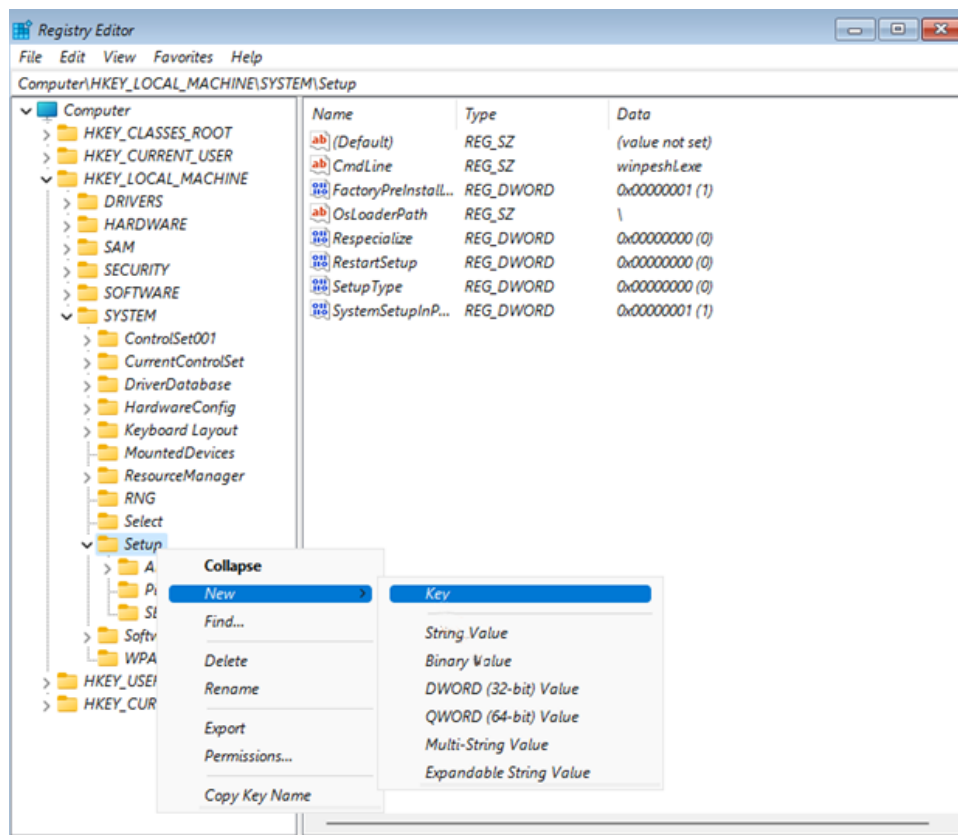


Install Windows 11 on VirtualBox

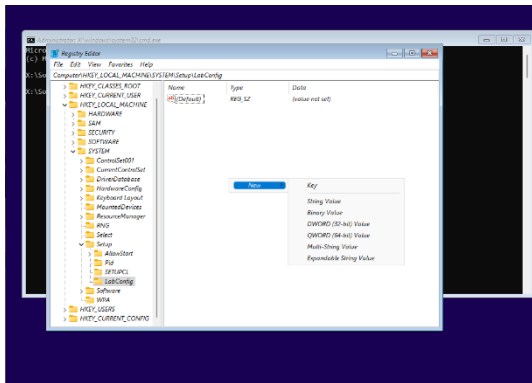


After this screen press
SHIFT+ 10 to open a terminal

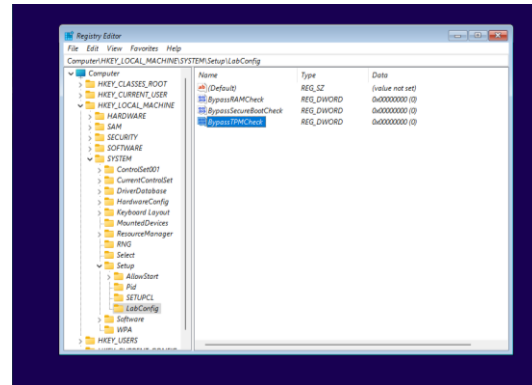
At command prompt type **regedit** to edit the
register before continue with the installation



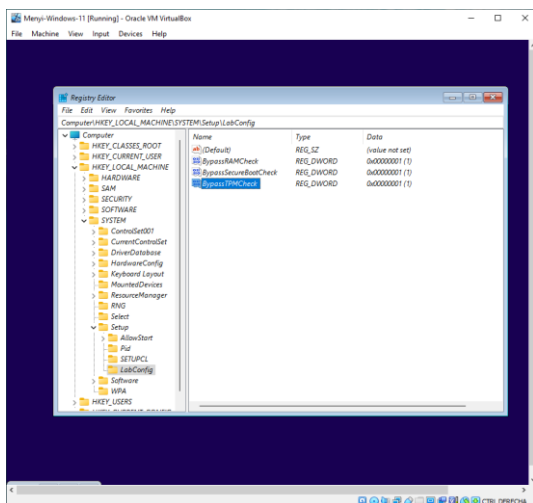
In Registry Editor navigate to HKEY_LOCAL_MACHINE\SYSTEM\Setup
Then right-click on Set key select New > Key
Name the new key LabConfig and press Enter



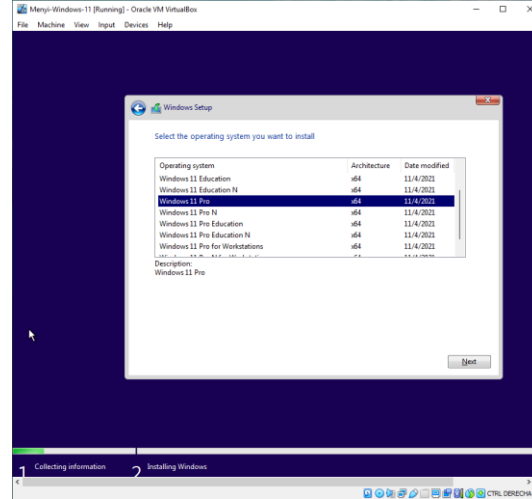
Now right-click on an empty space at the right pane and select DWORD (32-bit) Value



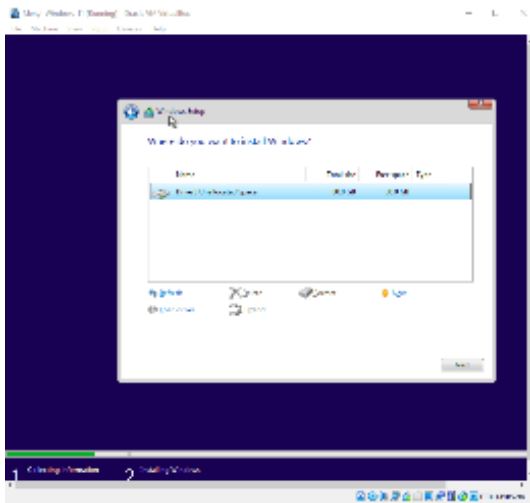
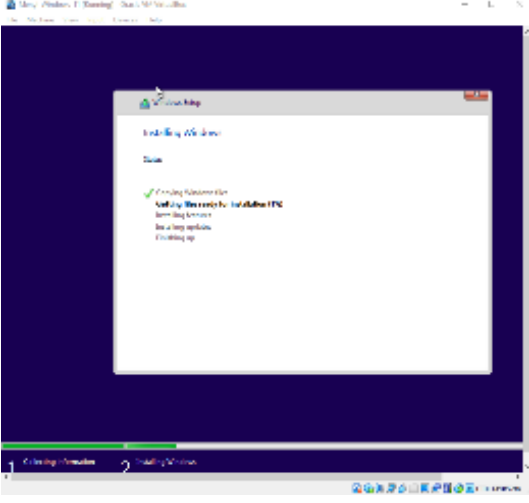
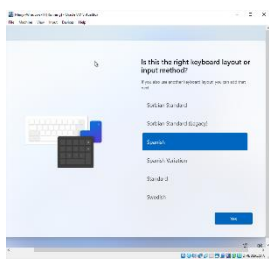
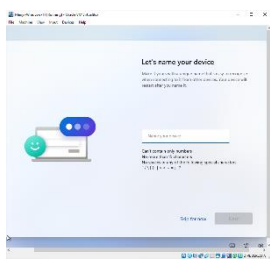
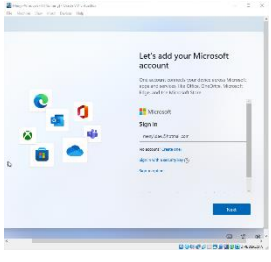
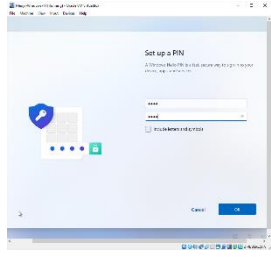
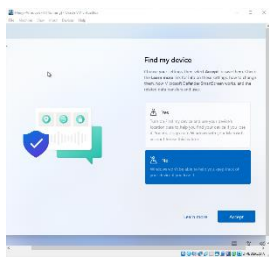
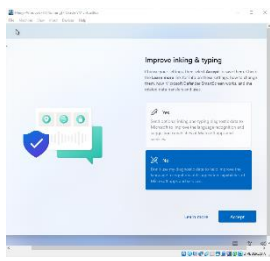
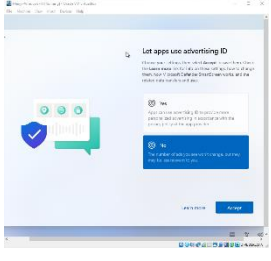
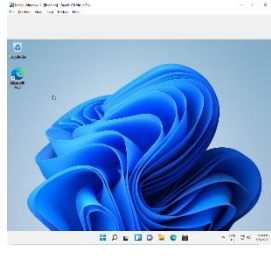
Name the new value BypassRAMCheck and press Enter



Create two more values named BypassSecureBootCheck y BypassTPMCheck

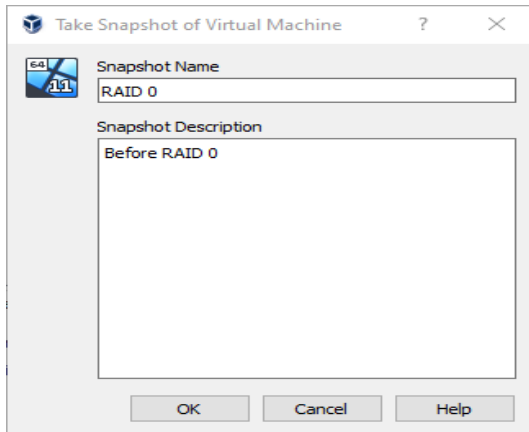


Once all the keys are created continue with the installation

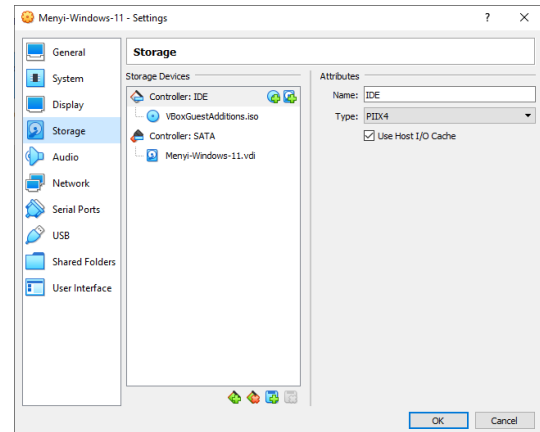
			
Create a New Partition Table	Windows 11 is correctly being installing		
Windows 11 basic settings to configure after installation			
			
			

Create a RAID 0 Striped Volume

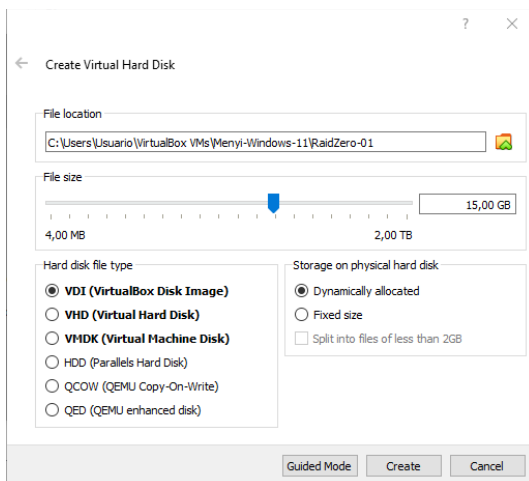
Power off the Virtual Machine



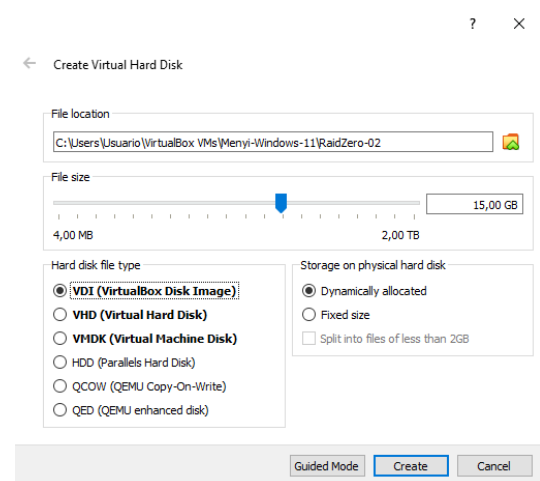
Take a Snapshot before to start



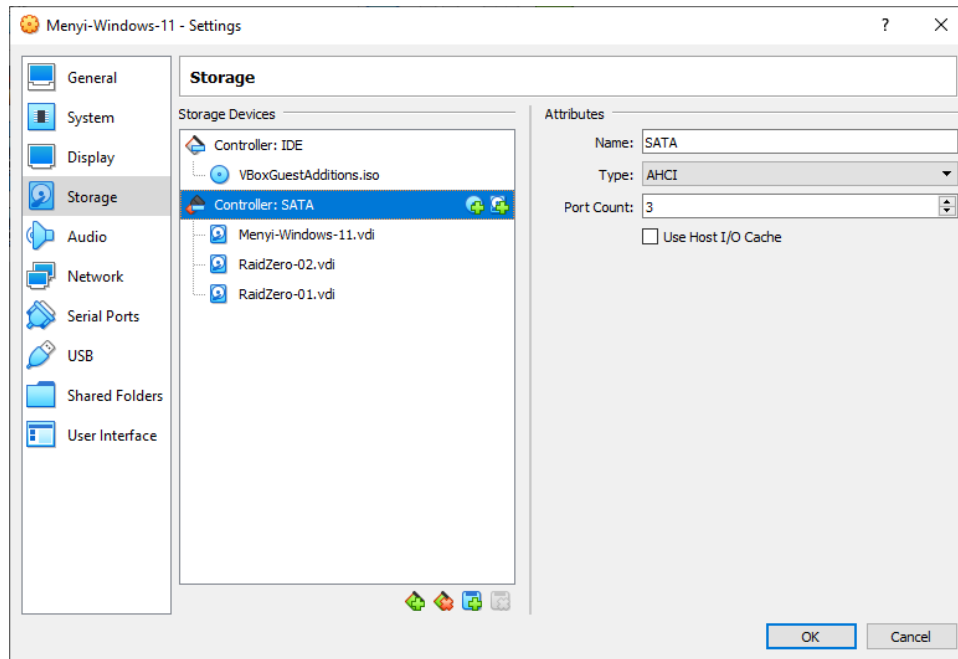
Open Storage Settings on VB

We need to create two Virtual Disk for the Striped VolumeDynamic allocated and 15Gb size, the **size must be the same on each disk**.

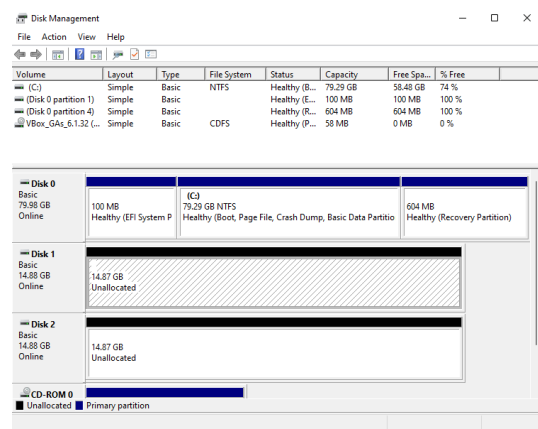
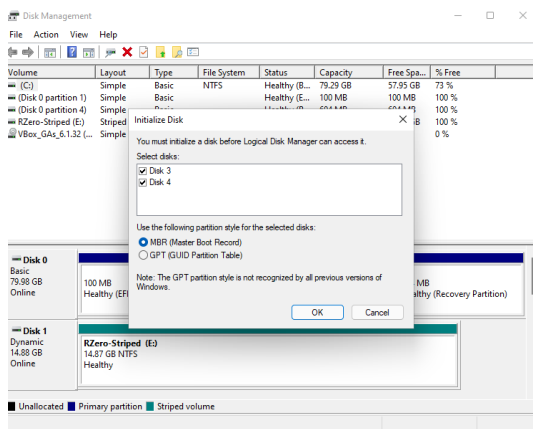
RAIDZero-01



RAIDZero-02

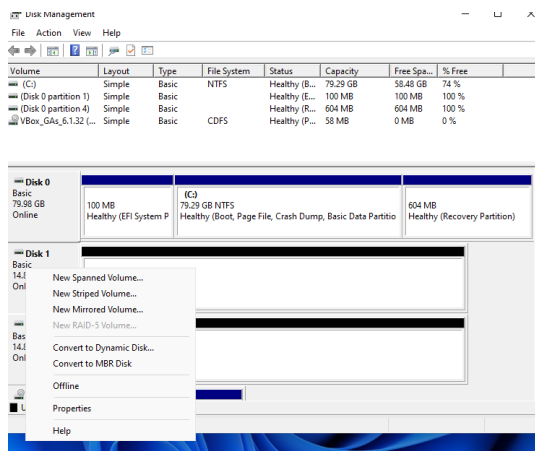


All good to go, so let's start the Windows-11 Virtual Machine and then open **Disk Management**
A prompt will ask to **Initialize** the new created disks (RAIDZero-01 and RAIDZero-02)

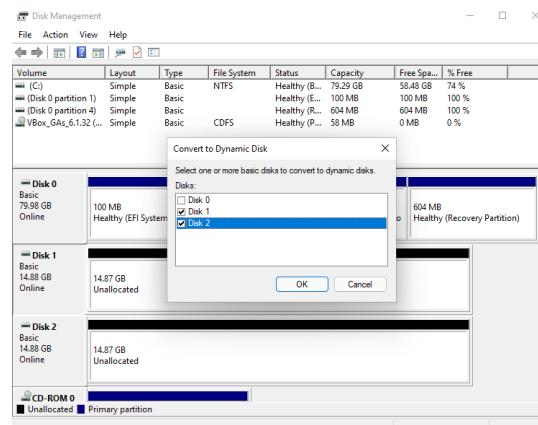


Once boths disks have been initialized, we can convert them to **Dynamic Disks**

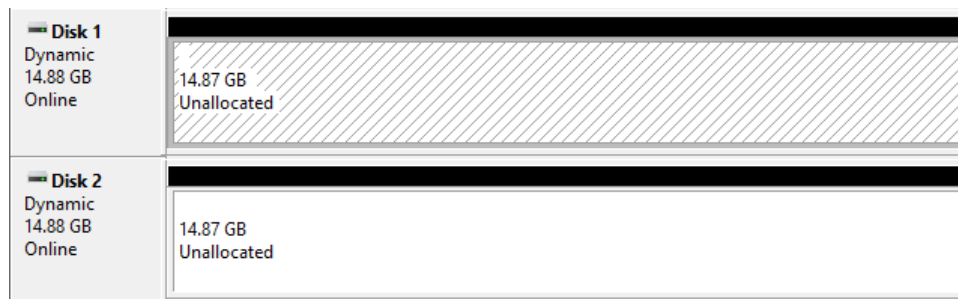
Select Disk 1 icon then Right >
Click Convert to Dynamic Disk



Convert to Dynamic Disk > Select both disks
then click OK

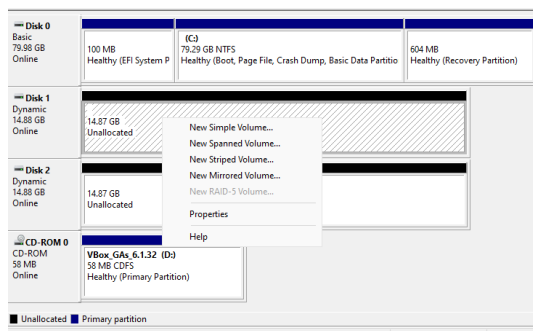


Notice that now both disks are Dynamic instead of Basic

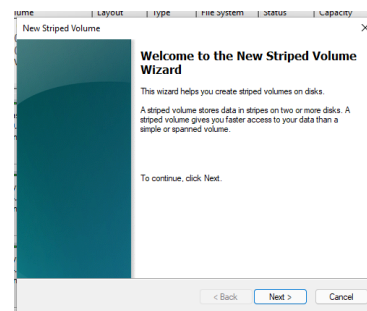


Now it's time to create the Striped Volume. Select the Unallocated space on Disk 1

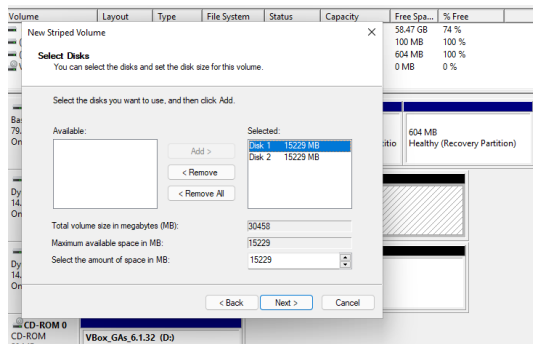
Unallocated Right click > **New Striped Volume**



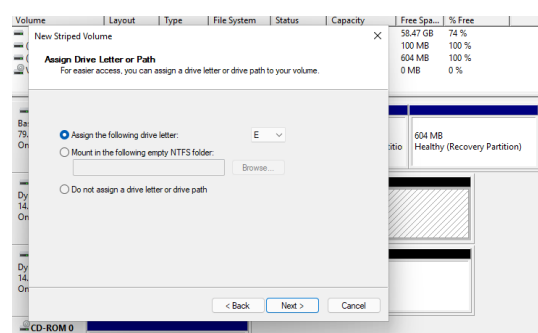
The **wizard** window opens. Click on **Next**



Select the Disk 2 then click on **Add** and **Next**



Assign the **drive letter**. Click on **Next**



Format Volume settings are NTFS file system with default allocation unit size and volume label RZero-Striped. Click on **Next** then **Finish**

New Striped Volume

Format Volume

To store data on this volume, you must format it first.

Choose whether you want to format this volume, and if so, what settings you want to use.

☐ Do not format this volume

☒ Format this volume with the following settings:

File system: NTFS

Allocation unit size: Default

Volume label: RZero-Striped

☐ Perform a quick format

☐ Enable file and folder compression

< Back

Next >

Cancel

New Striped Volume

Completing the New Striped Volume Wizard

You have successfully completed the Wizard.

You selected the following settings:

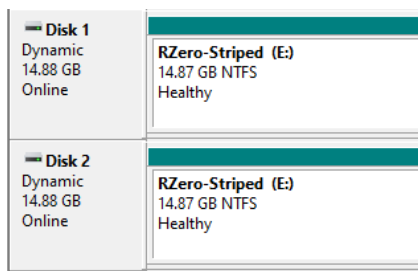
Volume type: Striped
Disks selected: Disk 1, Disk 2
Volume size: 30458 MB
Drive letter or path: E:
File system: NTFS
Allocation unit size: Default
Volume label: RZero-Striped
Quick format: No

To close this wizard, click Finish.

< Back

Finish

Cancel



Devices and drives (3)

Local Disk (C:)

58.1 GB free of 79.2 GB

RZero-Striped (E:)

29.6 GB free of 29.7 GB

CD Drive (D:) VirtualBox Guest Additions

0 bytes free of 58.3 MB

Notice that volume's names are the same as well as the assigned letter and the colour displayed has changed to green.

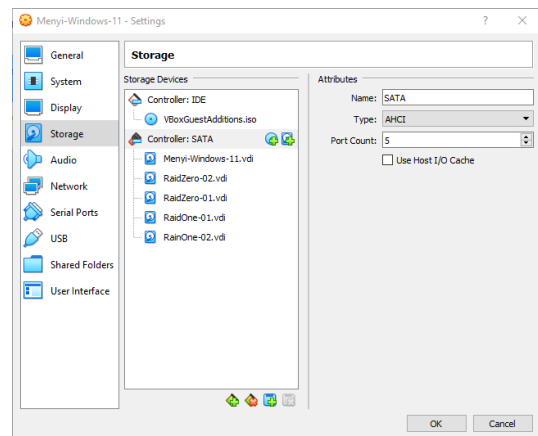
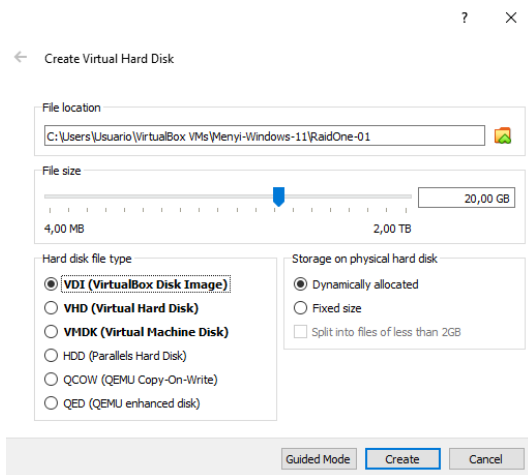
Open Windows Explorer > This PC. Along with C and Cd drives, we see **only one drive** (striped) with the name and the letter assigned.

Create a RAID 1 Mirrored Volume

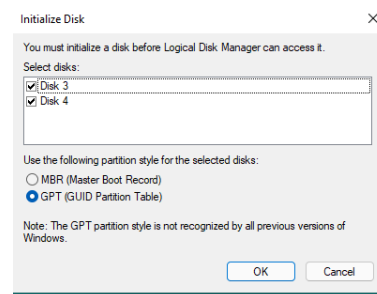
We can use the virtual disks created on the previous exercises, however we'll do it all over again.

So, first just shut down the VM and take a new snapshot.

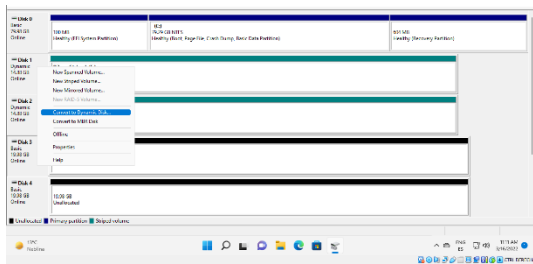
Then, create two new disks called RaidOne-01 and RaidOne-02 respectively, 20Gb size and Dynamic allocated each one.



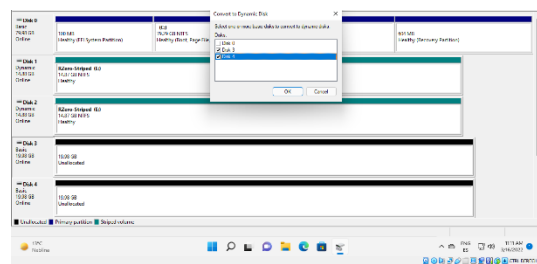
Start Windows-11 VM and open Disk Management to initialise the new created disks.
At the prompt make sure to select both disks then click OK



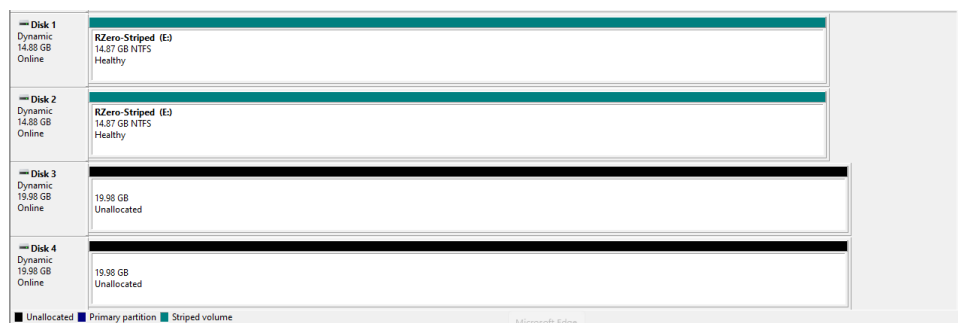
Once both disks have been initialised, right click on Disk 3 icon and click Convert to Dynamic Disk



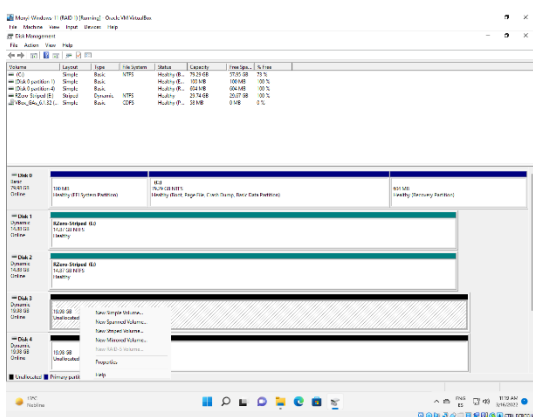
Convert to Dynamic Disk



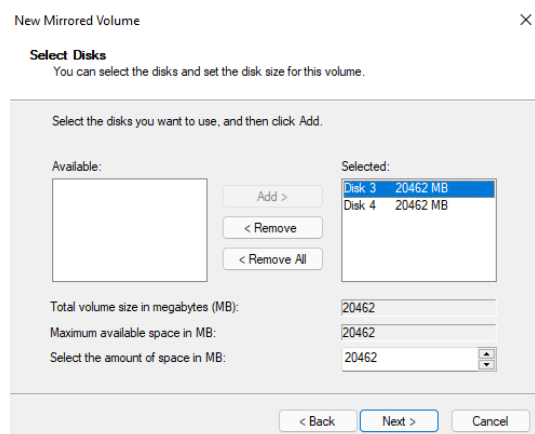
Select Disk 3 and 4 then OK



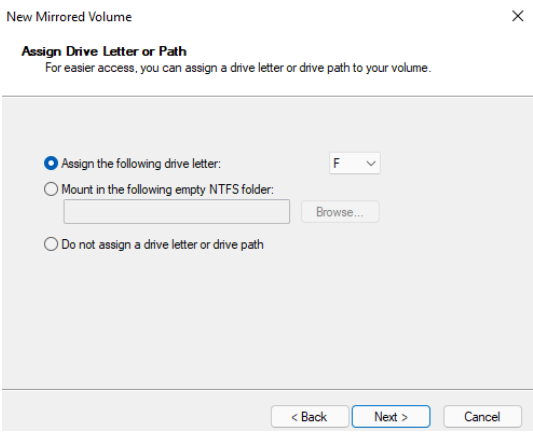
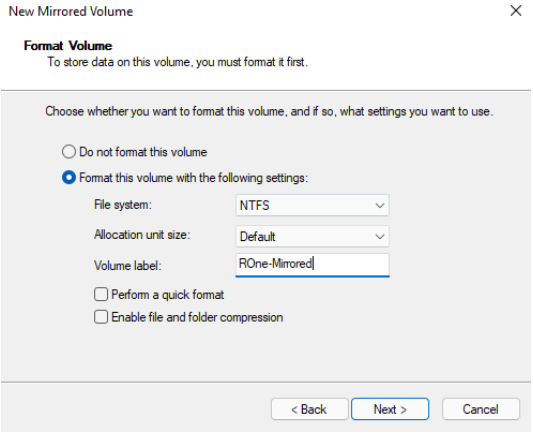
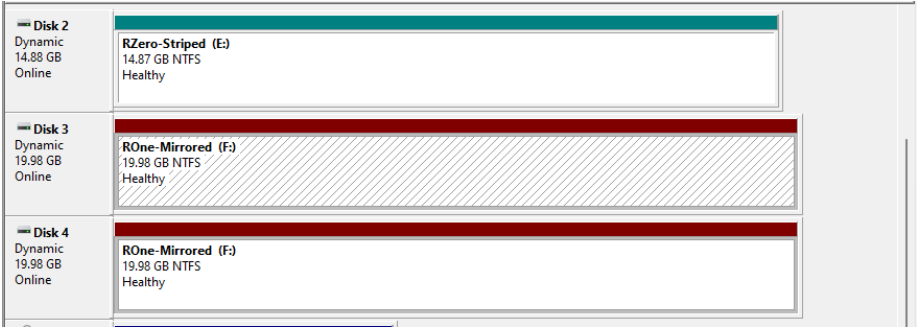
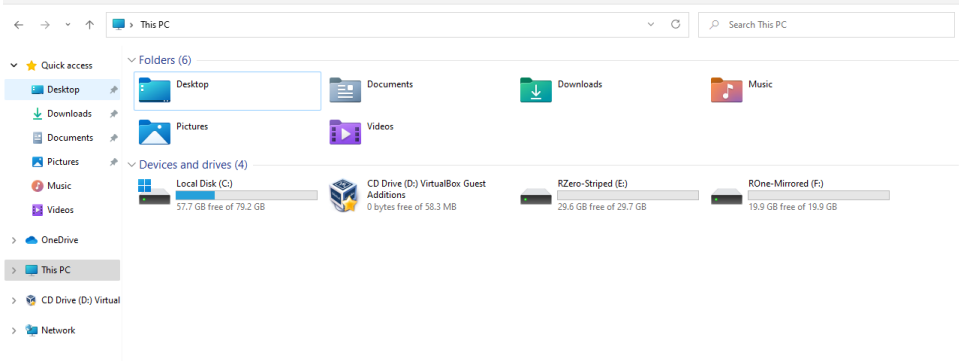
Disks 3 and 4 are now Dynamic.
Time to convert them to Mirrored



Right click on Disk 3 Unallocated space then
select New Mirrored Volume...

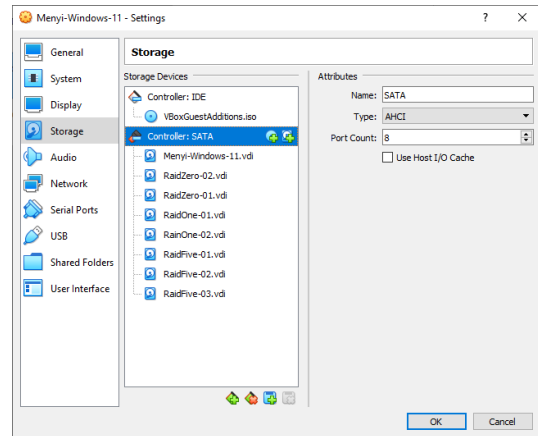
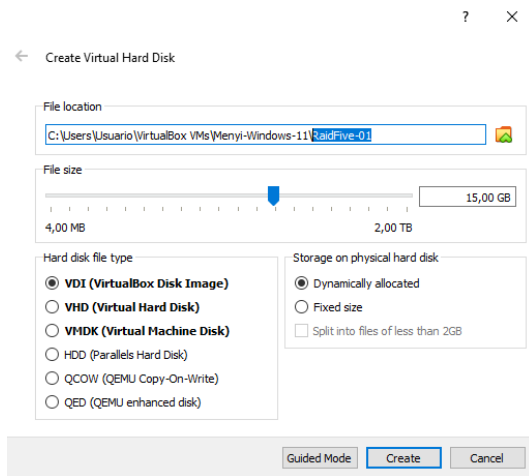


Click Next when the wizard window opens.
Select Disk 4 > Click on Add > Next

 <p>The screenshot shows the 'New Mirrored Volume' wizard. The 'Assign Drive Letter or Path' step is active. The 'Assign the following drive letter' option is selected with a radio button, and the letter 'F' is chosen from the dropdown. The 'Next >' button is highlighted.</p>	 <p>The screenshot shows the 'New Mirrored Volume' wizard. The 'Format Volume' step is active. The 'Format this volume with the following settings' option is selected. The file system is set to 'NTFS', allocation unit size is 'Default', and the volume label is 'ROne-Mirrored'. The 'Next >' button is highlighted.</p>
Assign the drive letter > Next	Format Volume Settings > Next > Finish
 <p>The screenshot shows the Disk Management console. Disk 3 and Disk 4 are both 'ROne-Mirrored (F:)'. The status bar at the bottom of the console shows 'RZero-Striped (E:)' and 'ROne-Mirrored (F:)'. The 'ROne-Mirrored (F:)' drive is highlighted with a green background.</p>	
<p>Notice that volume's names are the same as well as the assigned letter, also, the colour displayed has changed to green.</p> <p>To verify that our volumes are correctly striped open Windows Explorer > This PC</p> <p>Along with others drives, we see only one mirrored drive with the name and the letter assigned.</p>	
 <p>The screenshot shows the Windows Explorer 'This PC' view. Under 'Devices and drives', the 'ROne-Mirrored (F:)' drive is visible, showing 19.9 GB free of 19.9 GB. The drive is highlighted with a green background.</p>	

Create a RAID 5 Volume using Storage Spaces

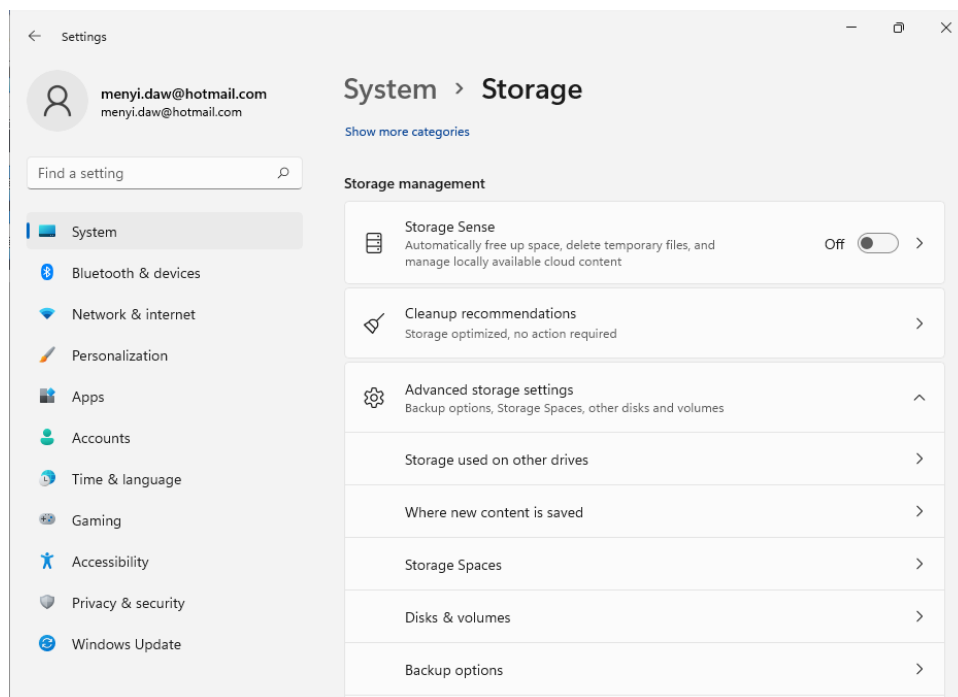
Shut down the VM and take a new snapshot before to start



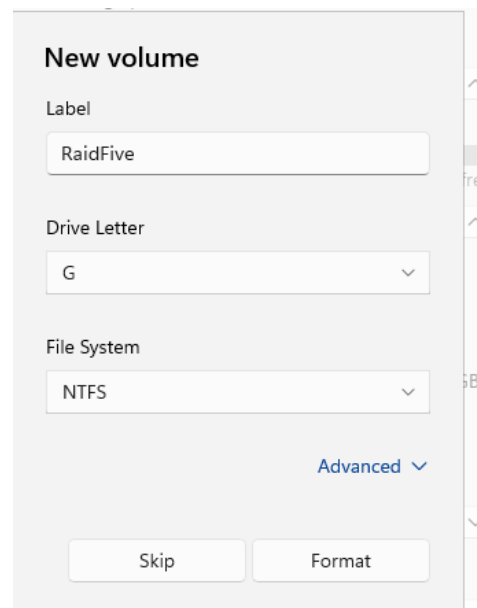
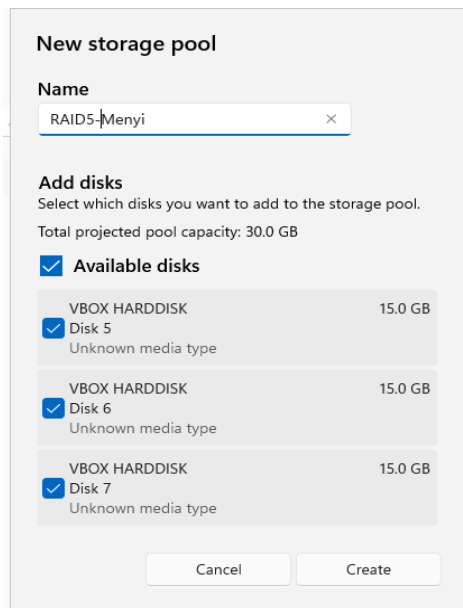
Create 3 Virtual disks called RaidFive-01, RaidFive-02 and RaidFive-03 respectively

Assign 15Gb size and select Dynamic allocated to each one

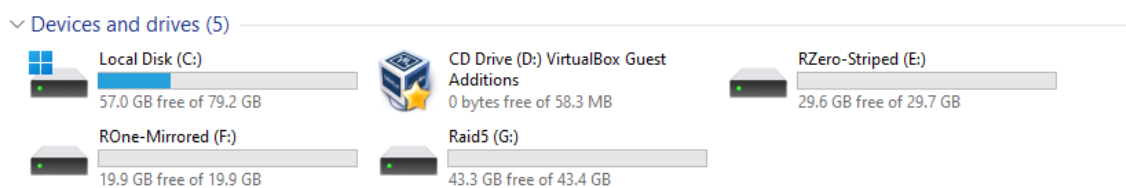
Start the Windows-11 Virtual Machine > Open Settings > System > Advanced storage settings



Select Storage Spaces > Click on Create a storage pool and Storage Space
Name the Raid and select the disks to add to the storage pool then click Create
At the New volume window confirm the options then click Format / Skip
Finally, in the Summary window, click Finish



Open **Mi PC** to check that RAID 5 storage is working correctly, as well as **Manage Storage Space**.

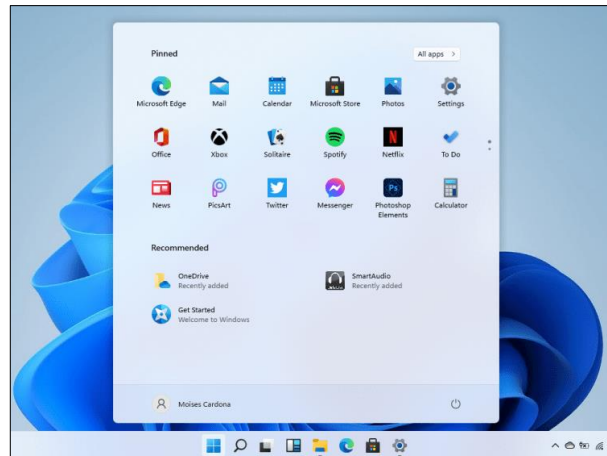


New features of Windows 11

Windows 11 brings a bunch of new features, and it will be available as a free upgrade for eligible Windows 10 PCs and on new PCs.

Microsoft is back with a new version of Windows that's designed to feel modern and easy to use, improving user's experience.

All in an effort to make you more productive in your professional or creative workflows.



Here there are some of the most important changes.

- **Design and interface**, a brand-new, more Mac-like interface to the OS. It features a clean design with rounded corners and pastel shades.
- **Android app integration**, Android apps are now available for Windows 11 through the Microsoft Store, via the Amazon Appstore.
- **Better virtual desktop support**, set up virtual desktops similar to Macs, and toggling between multiple desktops at once for personal, work, or gaming
- **Easier transition from monitor to laptop**, to group different sets of windows and apps together thanks to Snap Layouts and Snap Groups.
- **Microsoft Teams added to the Taskbar**, integrated directly into the Windows 11 taskbar, making it easier to access.
- **Widgets**, you can now access widgets directly from the Taskbar and personalize them to see whatever you'd like.
- **Enhanced touchscreen**, voice and pen support, more space between icons, adding gestures also adds haptics to your digital pen and. the OS introduces voice typing
- **Xbox tech to improve gaming**, including Auto HDR and DirectStorage, to improve gaming, another movement toward integrating PCs and Xbox consoles for Microsoft.

My favourite one is the **Android app integration**, so let's see *what it is and how to use it*.

What it is

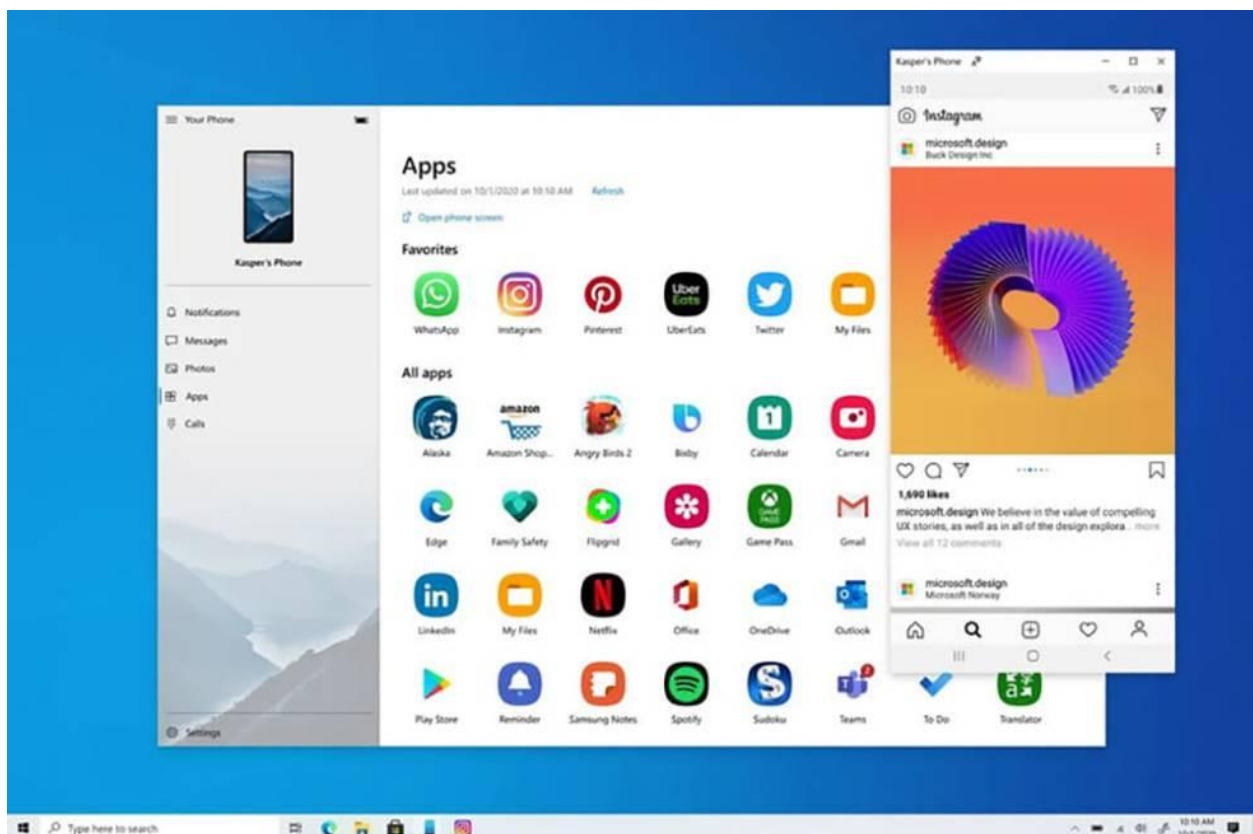
Android apps are now built into Windows 11 natively through the new Microsoft Stores.

Though you could access Android apps on your Windows 10 PC in certain cases (like if you have a Samsung Galaxy phone), Windows 11 marks the first time everyone will be able to download them directly onto your PC.

How to use it

Android apps are available in the new Microsoft Store via Amazon's Appstore. That means you'll need to download the Amazon Appstore to access the nearly 500,000 apps available there, including Disney Plus, TikTok, Netflix, Pinterest and Uber. However, you won't be able to access every Android app found in the Google Play Store.

Once you download the Amazon Appstore and sign in to or create an Amazon account, you'll be able to search for free or paid apps as you would on any other platform. Android apps are integrated into the Start bar and will also appear on the Taskbar with their own windows.



Easy to connect your phone and apps