

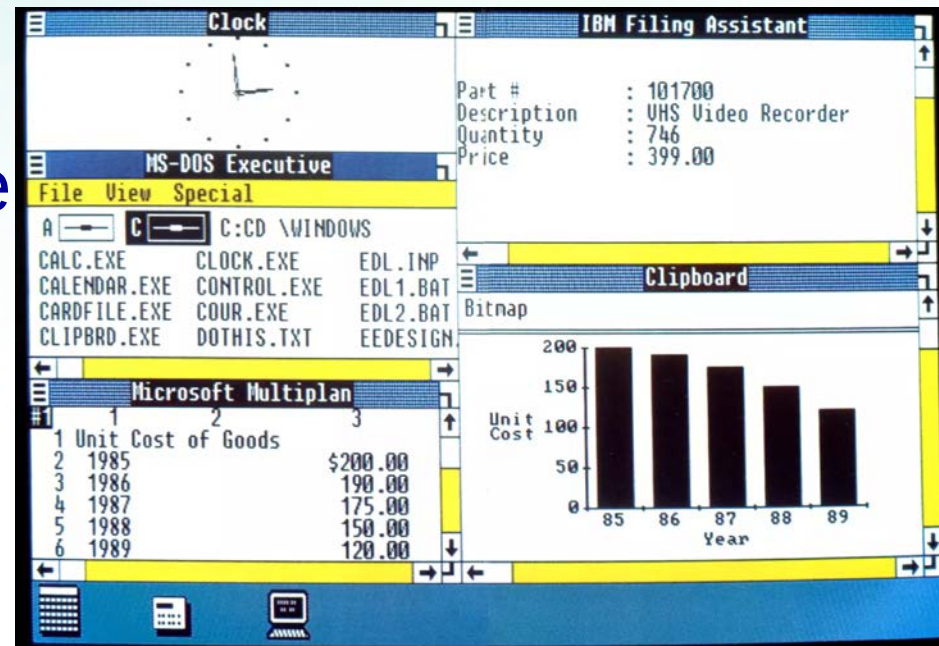


The Windows 11 Story

Hu3a Computer Club – July 2022

Microsoft History

- Microsoft formed in 1975 and developed the operating system they called : **MS-DOS**
- This ran on the IBM PC and shipped in 1981
- Went on to work on an GUI version originally called 'Interface Manager' but changed to 'Windows'
- Announced in 1983
- Version 1 Shipped in 1985
- First use by MS of a Mouse



Windows version 1

Windows History

Windows Versions	Release Date	Comments
Windows 1.0 – 2.0	1985 -1987	Replaced MS-DOS
Windows 3.0 – 3.1/ 3.11	1990 - 1994	
Windows NT 3.1 – 4.0	1993 - 1996	Server & Workstation
Windows 95	August 1995	Major Milestone
Windows 98	June 1998	
Windows 2000	February 2000	Business edition like NT
Windows ME	September 2000	The Big Failure
Windows XP	October 2001	Home & Pro. Best Ever
Windows Vista	November 2006	Another Failure ??
Windows 7	October 2009	Big Success – 64 Bit
Windows 8 – 8.1	October 2012	8.1 saved it
Windows 10	July 2015	A great OS
Windows 11	June 2021	Very similar to Win10

What Windows 11 do I want

It's only free if have a valid license & upgrade like for like

Otherwise you can buy (examples today);

Windows 11 Home is £94 Amazon

Windows 11 Pro is £120 Amazon

Windows 11 Pro KEY ONLY £18 Amazon

What Windows 11 do I want

Windows 11 comes in 2 versions

Home and Professional

Then within these you can choose

Retail or OEM license

Retail will allow you to use on future installs

OEM - Original Equipment Manufacturer

Can only be installed on new hardware & fixed to that hardware

Can I install Windows 11

Assuming you're running Win 10

Go to update & select Upgrade to Windows 11

Is that It !!!!!!!!

Can I install Windows 11

- Does your device meet the spec ;
- Is your CPU up to spec
- Does it have TPM 2.0
- For a free upgrade, do you have a verified (Activated) License
- For a free upgrade you must be running Windows 10 (For Win 7,8 & 8.1 users will need to upgrade to Win 10 first)

Can I install Windows 11

Does your CPU meet the spec.....

- 1Ghz or faster with 2 or more cores
- 64 bit
- Younger than Intel 8th Generation
- Younger than AMD 2nd Generation Ryzen

Can I install Windows 11

Does the rest of your System meet the spec...

- 4GB of RAM
- 64 GB Storage (HDD, SSD, M.2, PCIe 4.0)
- Secure Boot (UEFI)
- TPM Ver 2.0 (Trusted Platform Module)
- Graphic Card with DirectX 12 or later with WDDM 2.0 driver
- Internet Connectivity
- Microsoft Account

The TPM V2.0 Issue

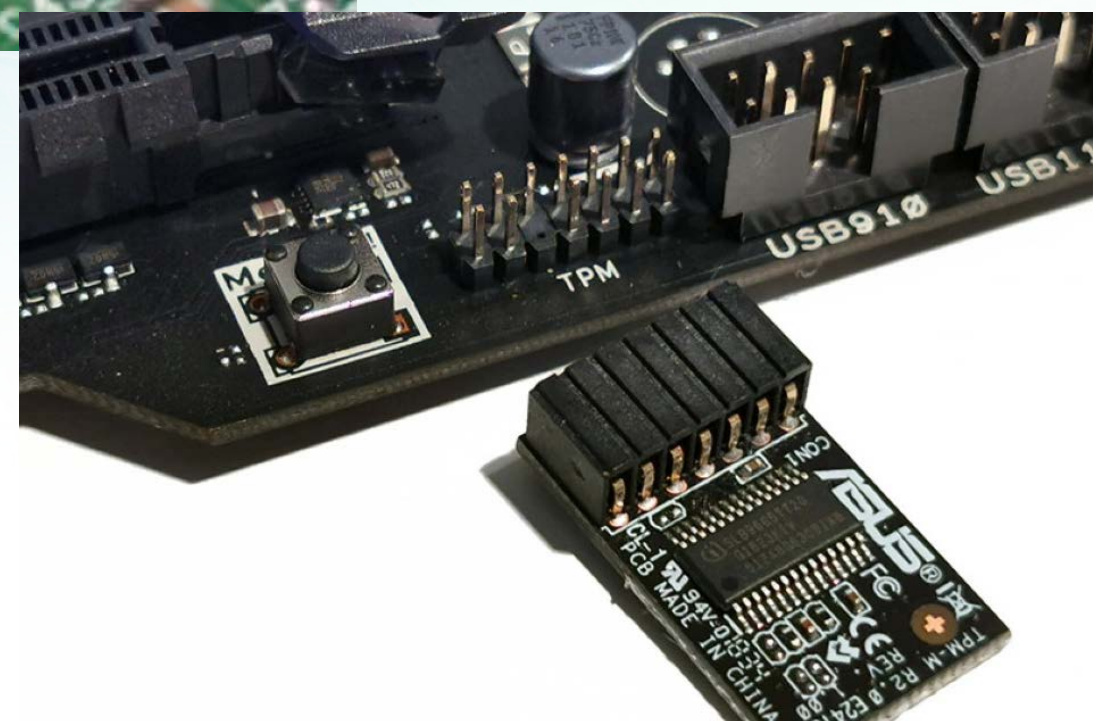
Trusted Platform Module is a security feature for protecting your OS. It's a tiny chip fitted to the Motherboard containing Cryptographic algorithms.

Any PC shipped in the last 5 years is likely to have this.

However, some PC's may need this feature enabled in the BIOS as it used to be unenabled by default

A close-up photograph of a green printed circuit board (PCB) from a motherboard. A black integrated circuit (IC) labeled 'LA9246 TMCK' is soldered onto the board. Several silver electrolytic capacitors are also visible, with markings like '025 100' and '025 220'. Other components like resistors and smaller ICs are scattered across the board.

TPM Chip
soldered to a
motherboard

A photograph showing a black TPM module with a gold-plated header. The module is labeled 'TPM-M REV. 2.0 LA9246' and 'MADE IN CHINA'. It is positioned next to a black PCB that has a similar gold-plated header and a small black component labeled 'TPM'. The background shows other components like capacitors and USB ports labeled 'USB910' and 'USB1'.

The TPM V2.0 Issue

Initially MS insisted on TPM V2.0

But if you have the right CPU and TPM V1.2 then MS have provided a Registry hack

- Registry Key: HKEY_LOCAL_MACHINE\SYSTEM\Setup\MoSetup
- Name: AllowUpgradesWithUnsupportedTPMOrCPU
- Type: REG_DWORD
- Value: 1

How can I install Windows 11

If you have Windows 10 then firstly go to the Windows 11 Installation Assistant

<https://www.microsoft.com/en-us/software-download/windows11>

How can I install Windows 11

Windows 11 Installation Assistant

This is the best option for installing Windows 11 on the device you're currently using. Click **Download Now** to get started.

 Before you begin

Download Now



Create Windows 11 Installation Media

If you want to perform a reinstall or clean install of Windows 11 on a new or used PC, use this option to download the media creation tool to make a bootable USB or DVD.

 Before you begin

Download Now

Download Windows 11 Disk Image (ISO)

This option is for users that want to create a bootable installation media (USB flash drive, DVD) or create a virtual machine (.ISO file) to install Windows 11. This download is a multi-edition ISO which uses your product key to unlock the correct edition.

Select Download 

 Before you begin

Download

How can I install Windows 11

Your first step is to try the Windows 11 Installation Assistant. This will give you an in-place upgrade keeping all your programmes. Read the "Before you Begin"

Click on the 'Download Now' button

and a small .exe file will be saved to you normal download location.

Run this file and follow the instruction.

This should be just like a Windows update.

How can I install Windows 11

Option 2 is to Create Windows 11

Installation Media and when run will download the media creation tool to make a bootable USB (or DVD).

Have a suitable sized (8GB or larger) USB stick to hand

Click on the 'Download Now' button

and a small .exe file will be saved to you normal download location.

Run this file and follow the instruction.

How can I install Windows 11

Using your Option 2 USB and assuming you machine hits the technical specs.....

Insert the USB into the machine and restart. After a Country Screen you'll be invited to Install Now. It'll ask for your product key. You can choose I don't have a product key and update it later. The choose the version like Windows 11 Home The you get to chose upgrade or clean install. Then follow the instructions.

How Bypass the Requirements

If you have an old CPU or a TPM issue then we can bypass the windows 11 checks for CPU, TPM & some others. It can be used for an upgrade or clean install

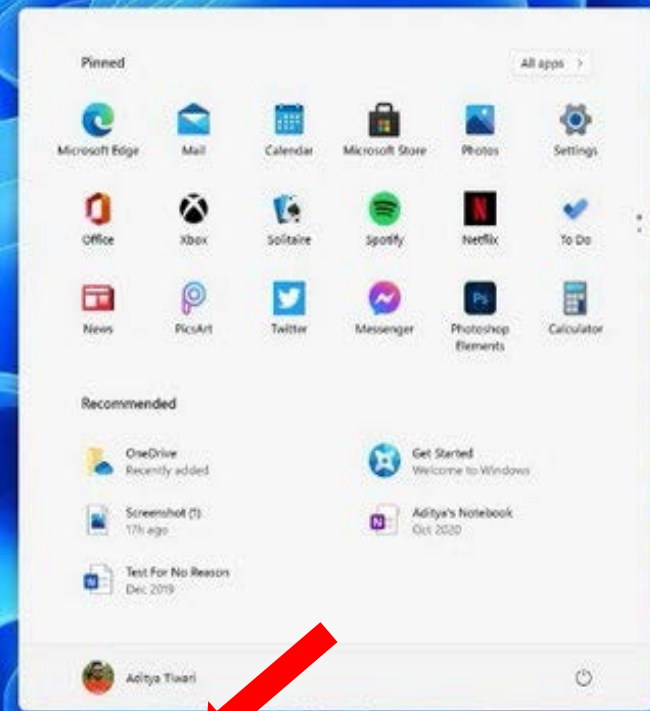
Of course this is not recommended by MS, invalidates any warranty, may lead to incompatibility issues and be no longer supported for updates. Involves Registry hacks so this is not for the fainthearted

If you want the details contact me.

Windows 10 Start Menu



Windows 11 Start Menu



The Desktop

The big difference is in the *Start Menu* and *Taskbar*.

All previous versions locate these on the left
The new start menu and taskbar are *centre screen*.
You can however, move the taskbar to the left if you want.

Windows 11 Start Menu is slightly simpler than the Windows 10 Start Menu as there is only a static list of apps and frequently used items. The Start Menu list is almost the same in Windows 10 & 11.

You can add apps or re-arrange as you want. But Windows 11 doesn't support Live Tiles.

If you use your Start Menu then Windows 10 is better.

The Desktop

More on the *Taskbar*, Windows 11 search bar becomes an icon (optional in Win 10).

Removes **Cortana** (but downloadable manually).

Windows Timeline gets replaced with Edge's sync feature and on the taskbar is replaced by **Virtual Desktops**. This enables you to switch between multiple desktops. While it's in Windows 10, it is harder to set up and use in Windows 10.

Teams now integrated into the Windows 11 Taskbar & removes **Skype**

The **Taskbar** position cannot be modified. Windows 11 forces it to the bottom left of the Desktop but you can move the App icons from the centre to the left.

Rounded corners on program windows is new.

Type here to search

Pinned

All apps >



Movies & TV



Task Manager



Microsoft Edge



PowerPoint



Excel



Word



Mail



Calendar



Microsoft Store



Photos



Settings



Office



Xbox



Solitaire



Spotify



Netflix



To Do



News

Recommended

More >



Capture0.png
Jul 23



Screenshot (2).png
Jul 19



Screenshot (1).png
Jul 13



secret.txt
Jul 12



New Text Document.ps1
Jul 8



Procdump.zip
Jun 30

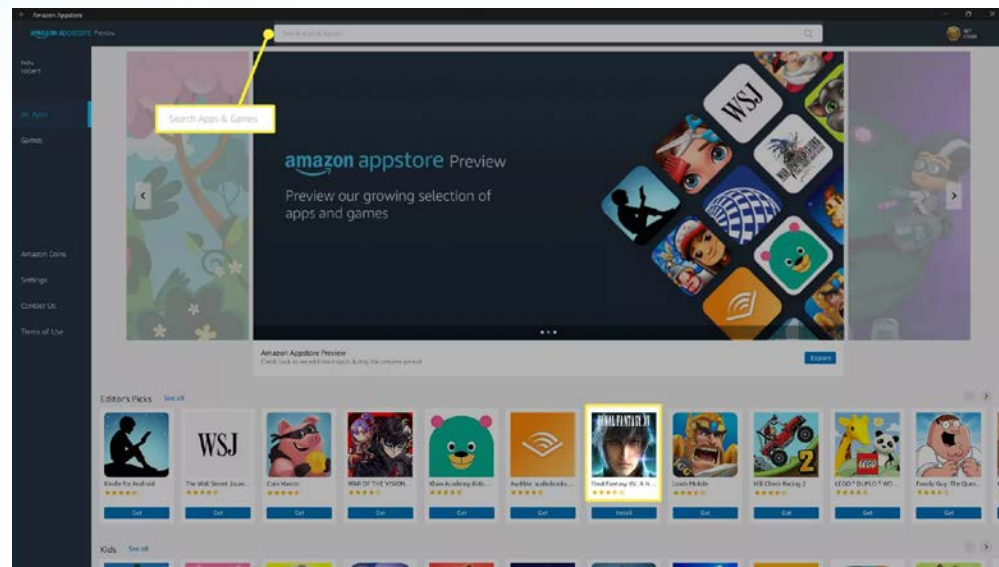
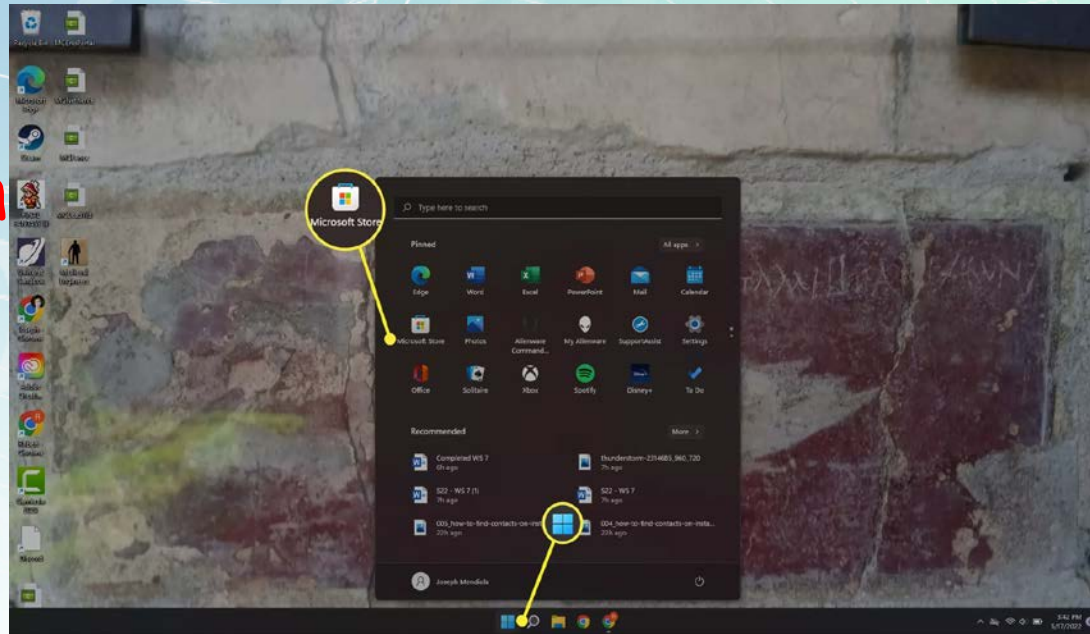


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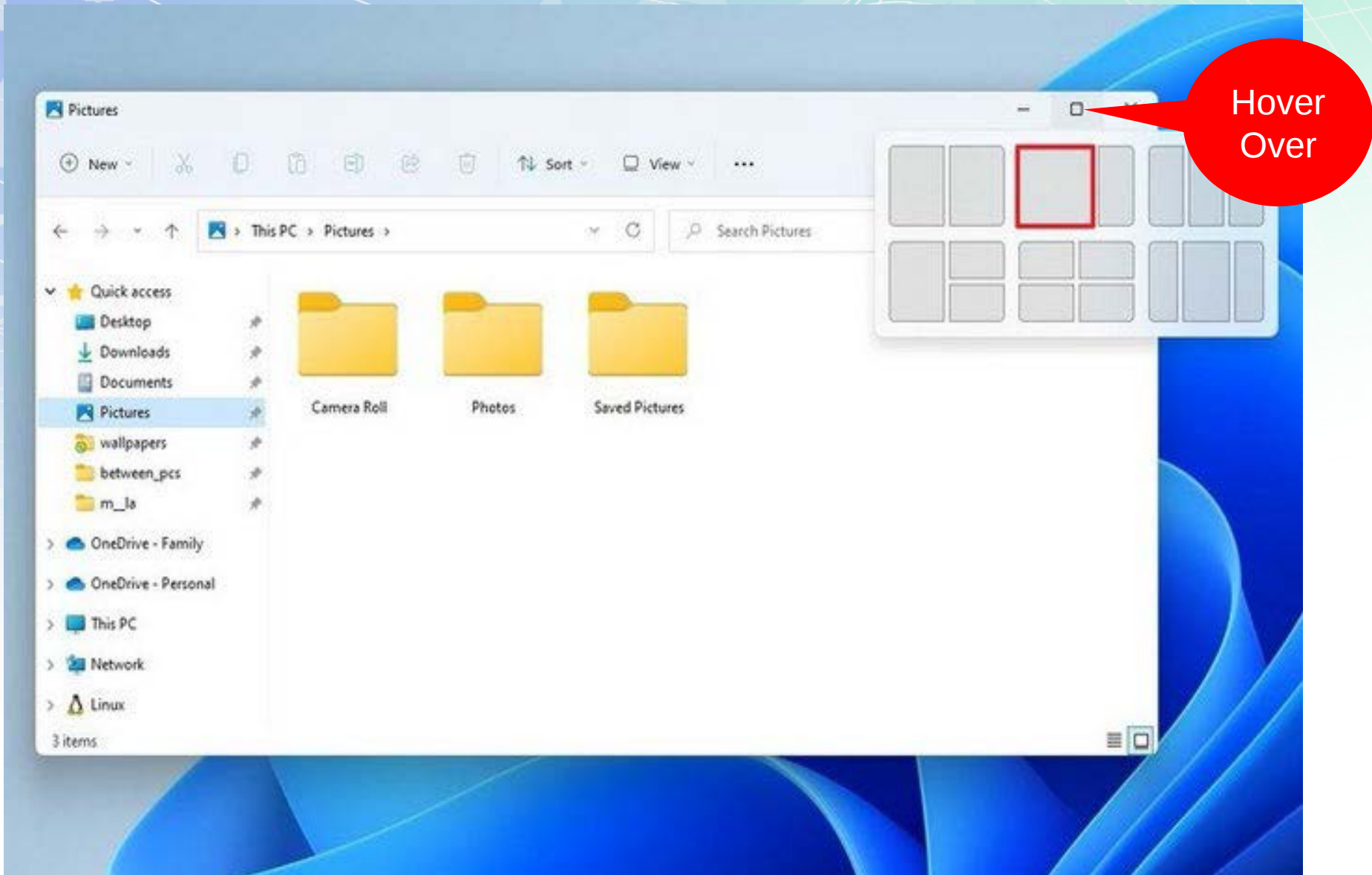


Android Apps on Windows 11

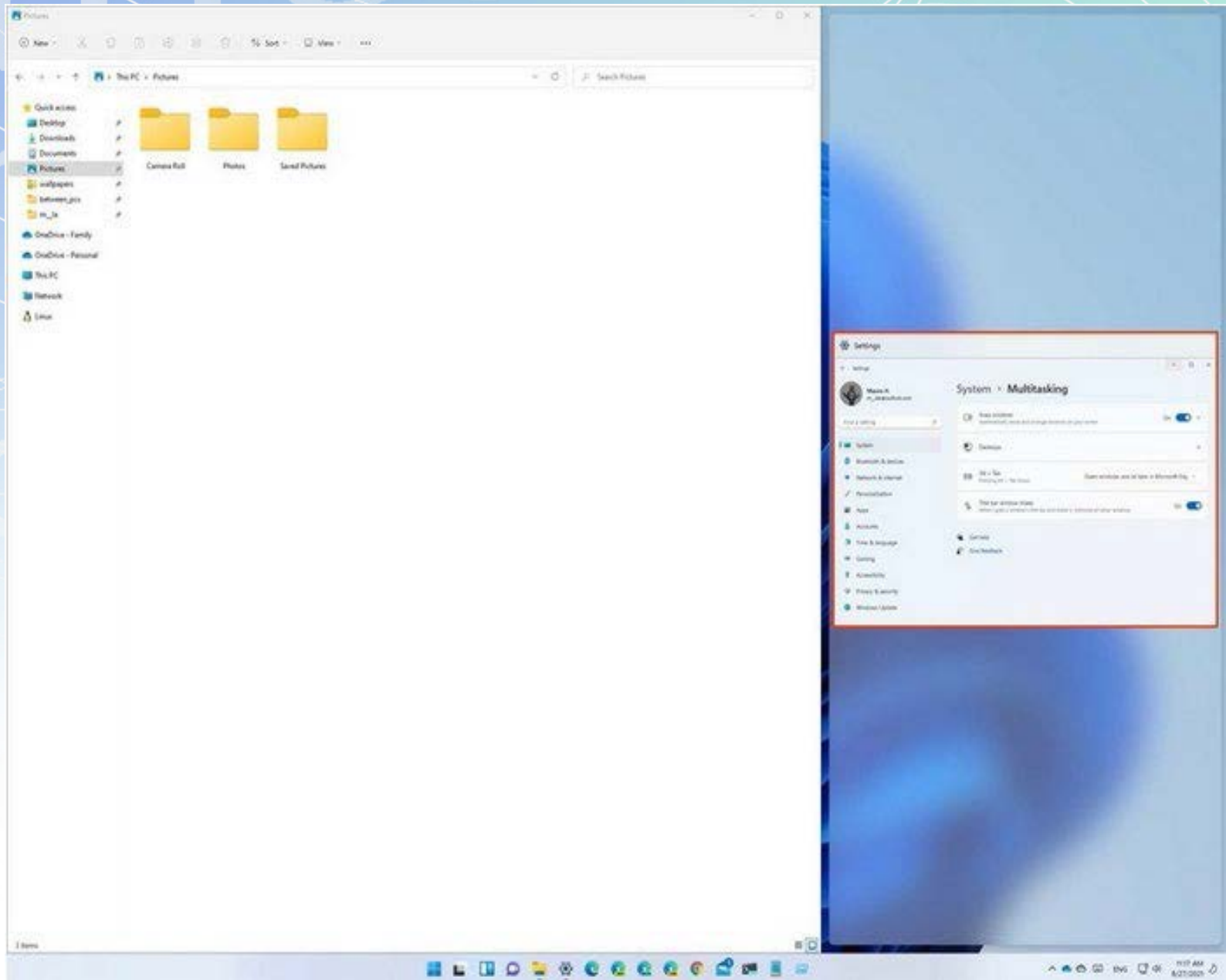
Windows 11 can only download Android apps from the Amazon Appstore. There is no connection to the Google Play Store. You'll need an Amazon account to download Android apps onto your Windows 11 device or you can use your existing account if you have one.



Improved Multitasking (Snap Layout)



Improved Multitasking (Snap Layout)



Improved Tablet Mode

Windows 11 drops the traditional Windows 10 tablet mode that makes a PC go to a full-screen Start Menu.

Instead, Win 11 behaves more like an iPad. When it knows it's a tablet, it makes it easier to touch as it adds more space between icons on the taskbar.

New gestures for opening and closing windows, switching between desktops, as well as new options in the Windows Ink Workspace. All of those are missing in Windows 10 tablet mode.

Features Added & Lost (1)

New features in Windows 11: *Better Gaming:*

Includes DirectX a collection of application programming interfaces (APIs) for handling tasks related to multimedia, especially games and video.

HDR (High Dynamic Range) is a video/imaging technique where the lights and darks in a digitally reproduced scene can be shown with more detail than before. In video games, the increased range of colour and luminance of HDR enables a more immersive, realistic experience.

DirectStorage originally designed for the Xbox Velocity Architecture, Microsoft is now introducing it to PC's. To put it in simple terms, DirectStorage can vastly reduce the loading times for games and render virtual worlds in more detail.

Features Added & Lost (2)

New features in Windows 11:

Personal Widgets (personalized Info Page)

Access them directly from the taskbar and personalize them to see whatever you would like, for example:

Watchlist could show stocks information.

Traffic could show traffic information based on your location.

Weather could show the latest weather based on location. Then click the widget and the forecast will open in a browser.

Tips could show tips to use Windows 11.

Sports could show match results and updates.

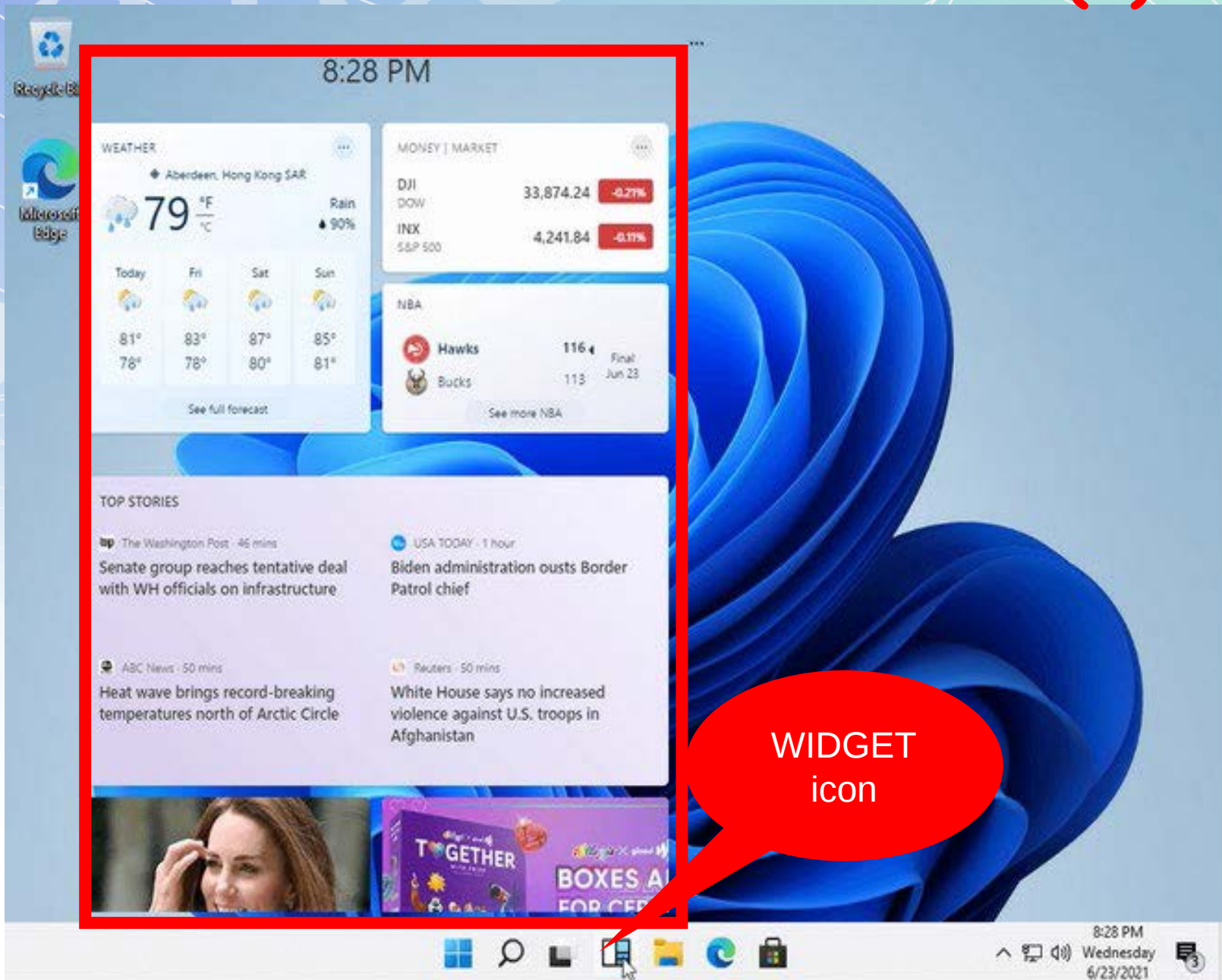
Entertainment could suggest new movies and link to watching them.

Outlook Calendar could show upcoming events in the calendar.

Photos Would display a slideshow of pictures stored on your OneDrive account.

News

Features Added & Lost (3)



Features Added & Lost (4)

Lost Features:

Cortana (not active by default)

Internet Explorer

Wallet

*3D Viewer**

*OneNote for Windows 10**

*Paint 3D**

*Skype**

**all available for download from the Microsoft Store*

Improved Performance

Aside from the new features, Microsoft has also improved performance compared to Windows 10.

It claims faster logins with 'Windows Hello'
Giving quicker wake from sleep, and faster web browsing.

Microsoft also claims that Window updates will be smaller for Windows 11 and they will execute in the background.

Moreover, Windows 11 has better efficiency for longer battery life on mobile devices like laptops and tablets.

Home vs Pro Features

Available in BOTH Windows 11 Home & Pro

- Microsoft Edge
- Microsoft Store
- Snap Layouts
- Desktops
- Microsoft Teams
- Touch, Pen, Voice experience
- Widgets
- Gaming

ONLY available in Windows 11 Pro

- Bitlocker device encryption
- Group Policy Editor
- Windows Information Protection (WIP)
(Helps protect business data against accidental leaks on any device used on a work network).

The End



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