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# Wednesday Workshop

## Windows 11 *An Early Look*

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# Agenda



- **Exploring Windows 11 - Demo**
  - **What's New and Different?**
  - **Key "Windows 11" Apps**
  - **Key Desktop Programs**
  - **Configuring and Customizing**
- **Windows 11 Versions & Pricing**
- **Hardware Requirements**
- **To Upgrade or Not**
- **How To Get Windows 11**
- **Windows 11 Compatibility Issues**
- **Moving Data, Settings & Programs**
- **Microsoft Store**
- **Web Links**



# What's New and Different

- **Web links:**
  - **Article:** <https://www.windowscentral.com/windows-11>
  - **Microsoft Video:** <https://insider.windows.com/en-us/home>
  - **Quanta Video:** <https://www.youtube.com/watch?v=wJash3Yq74U>
- **Windows 11 Start Menu Redesigned**
- **Task bar is now called the Dock (like MacOS), can't be moved.**
- **“Widgets” now open in a window from the Dock.**
- **Snapping and Docking of Windows, including saved layouts.**
- **Most Settings (Control Panel) now re-done as Fluent UI apps**
- **Improved support for multiple concurrent Desktops**
- **Search bar on the task bar has improved**
- **Microsoft Teams is integrated (superseding Skype)**
- **“Windows Store” (aka “Universal”) Apps Improved (Fluent Design UI)**
- **Microsoft has updated the Windows Store**
- **Internet Explorer 11 is gone**

# Some “Windows 11” Built-in Apps

- **Mail App**
  - Supports IMAP4 (default), Hotmail, Outlook.com, Gmail *and* POP3
  - Uses “Universal” interface – takes some getting used to
  - MS Outlook 2010 - 2019 will also install and run
  - Thunderbird also is compatible
- **Calendar App**
  - Wants you to sign in to your “Microsoft Account”
- **Photos - Viewer / Image Editor / Video Editor App**
  - Wants you to sign in to your “OneDrive Account”
  - Accesses web photo accounts (Facebook, ...)
- **Groove Music App**
  - Music Player
  - Interface to the Xbox music store
- **File Explorer (“Computer”)**
  - Ribbon interface is gone; replaced with a multi-level Menu Bar
  - Functionality not much different than Windows 10

# Windows 11 Settings

- **Winkey+I** brings up the **Settings** panel to access many settings tools.
  - Can also reach via **Start > Settings** (gear icon)
  - Includes **Control Panel**, **Network** and “**Change PC Settings**”.
- **Winkey+X** (or right-click the **Start** icon) pops up the **System Management Menu**, which links to many system management functions.
- Right click on the **Desktop** background and choose “**Personalize**” or “**Screen Resolution**”.
- **Windows 11 “God Mode” Folder**
  - Comprehensive categorized panel of links to change **Win 8** settings
  - On **Desktop**, right click and choose **New > Folder**
  - Name it “**God Mode.{ED7BA470-8E54-465E-825C-99712043E01C}**”
  - **Demo ...**

# Windows 11 Versions & Pricing

- **Successor to Windows 10**
  - Based on Windows 10
  - Features a revamped Start menu, widgets, other features
- **Retail PC Versions and Street Prices:**

	<b>OEM</b>
– Windows 11 Home	~\$130 ?
– Windows 11 Professional	~\$150 ?
– Windows 365 (subscription)	Per seat ???
– Windows 11 Enterprise	Per seat ???
- **Upgrade Price – FREE**
  - *To owners of Windows 10*
  - *To participants in the “Windows 11 Insider” Program.*
  - *An “in-place” upgrade is available via Windows Update only to systems running Windows 10.*
  - *Others can do a “clean install” upgrade using a downloaded setup image (burned to a dual-layer DVD or bootable flash drive).*

# Hardware Requirements

- A PC that runs Windows 10 may *not* be able to run Windows 11
  - <https://www.microsoft.com/en-us/windows/windows-11-specifications>
  - Key requirement is support for TPM 2.0 (Intel CPUs) or PSP 11.0 (AMD CPUs)
  - Windows 11 *requires* a 64-bit capable CPU with Intel VT-x or AMD-V.
  - No 32-bit version available.
- Tom Burt's *Recommended Configuration*:
  - 2.5 GHz or faster dual (or more) core 64-bit CPU, 8 GB of RAM or more.
  - TPM 2.0 (Intel) or PSP 11.0 (AMD) on CPU or add-on card or in UEFI BIOS.
  - DirectX 12 Graphics Card with WDDM 2.0 driver.
  - 80 GB free hard disk space on a 256 GB (or more) drive.
  - SSD for the system drive.
- There are few application compatibility issues
  - Most Windows 10 – compatible applications should run fine on a Windows 11 PC.
- There may be some device compatibility issues
  - Most 64-bit Windows 10 – compatible devices (printers, scanners, web-cams, ...) should run on Windows 11.

# To Upgrade or Not?

- **Windows 11 will ship pre-installed on most new PCs.**
  - Look for it on retail PCs in early October.
  - \$500 to \$900 buys a very nice desktop or laptop Windows PC.
  - For a desktop, recommend you have a 24" 1080P wide-screen flat panel.
  - Most new laptops have 1600 x 900 or higher screens, many with touch.
- **Windows 10 is still mainstream and will be supported until about October 2025. There's no compelling reason to upgrade an existing Windows 10 PC right away. Most user-visible changes are cosmetic. Internally, Windows 11 is more secure than 10.**
- **If you're already on Windows 10, Windows 11 isn't very different and should be an easy upgrade *if your hardware is compatible*.**
- **Still, it's probably best to wait a few weeks *or more* to let early problems get resolved.**



# How To Get Windows 11

- **Easiest – Buy a *new* PC on or after October 5<sup>th</sup>, 2021**
  - Windows 11 comes pre-installed.
  - Product activation handled by the hardware vendor.
  - Windows 11 tested and verified by the vendor.
  - *Still need to install your other applications and tools.*
- **If you're running Windows 10 on compatible hardware, Windows 11 will come automatically via Windows Update**
  - Best to run the Windows 11 PC Health Check app before trying to install the upgrade. Checks your hardware and apps for compatibility.
  - Updates for existing Windows 10 PCs with compatible hardware reportedly will be available by Q1 of 2022, possibly sooner.
  - For custom built PCs, it may work well to install Windows 10 (using old or cheap product keys) and then let Windows Update deliver Windows 11.
- **Install “Final” Build (from ISO, DVD or USB Flash Drive)**
  - Use Media Creation Tool – will need 8GB capacity media.

# Windows 11 Compatibility Issues

- Run the Windows 11 PC Health Check App (demo)
- Hardware / Drivers
  - Windows 11 *requires* GUID Partition Tables, UEFI and Secure Boot
  - UEFI BIOS (might be out of date on old PCs) – update your BIOS flash
  - Windows 11 is only available as a 64-bit operating system ...  
Hardware drivers must also be 64-bit and signed!
  - May be no 64-bit Win 11 hardware drivers from MS or vendors for older devices
    - Video and Sound cards
    - SCSI Disk Controllers and Wireless LAN cards
    - Printers, faxes and Scanners
- System Utility / Tool Software
  - Anti-virus and backup programs may need upgrades
  - FAX, Scan and Print Tools
- Application Software – Especially OLD Programs
  - Games
  - Graphics applications
  - Video & music editors & players

# Moving Data, Settings and Programs

- Happens automatically if you do an in-place upgrade over Windows 10. Following are for new PCs ...
- **Windows 11 has no built in “Easy Transfer Tool”**
  - You can manually transfer data files from an old PC to a Windows 11 PC
  - Transfer via an Ethernet LAN or an external USB flash or hard drive
  - You still need to reinstall all your applications.
- **Consider Ease US Todo PCTrans Free 12.2**
  - <http://www.easeus.com/free-pc-transfer-software/>
  - Claims to be a more complete solution.
  - Moves installed programs as well as settings and data.
  - Review indicates process is complex
  - Also offer a paid “Pro” version for \$49.95.
- **Consider Zinstall Easy Transfer Tool (\$119)**
  - <http://www.zinstall.com/>

# Microsoft App Store

- An “*App*” is a computer program written to conform to the “Universal” look and feel, using a specific set of programming interfaces.
  - Most Apps are written in “interpreted languages” – HTML5 + JavaScript
- A “*Desktop Program*” is a computer program written to conform to the classic Windows look and feel, using a programming interface called “Win 32”.
  - Programs mainly written in C, C++, Visual Basic, Visual C#, Java or Delphi
- To go to the App store, on the Start Menu, click the icon for Store
  - This takes you to the store on the MS website
  - Store shows broad categories like Games, Lifestyle, Tools, Security
  - Pan across the display and click on a category to see specific apps
  - You can filter for Free, Paid or both
  - You can sort by various categories
- Demo ... Go to the store, locate and install an App
  - “Speed Test Pro” does a speed benchmark of your PC.

# Windows 11 – Web Links

- TechRadar Article: <https://www.techradar.com/news/windows-11-home-and-pro>
- Microsoft's Windows Site: <http://windows.com>
- [Windows 11: Do these 11 things immediately – TechRepublic](#)
- <https://www.techrepublic.com/article/why-windows-11s-security-is-such-a-big-deal/>
- Appual's Article on Bypassing Windows 11 Setup Compatibility Checks  
<https://appuals.com/bypass-windows-11-installation-requirements/>
- Krazy Ken's Win 11 Feature Overview:  
<https://www.youtube.com/watch?v=PI3kmRupFr4>
- Linus Tech Tips - Windows 11 Upgrade Hacks:  
<https://www.youtube.com/watch?v=NivpAiuH-s0>
- ZD-Net: [Windows 11 | ZDNet](#)

# Questions And Answers