

Are you frustrated because your computer appears sluggish or corrupted?

How To Tune-Up Your PC and Keep It Virus Free

Sunday, September 19, 2021 – 10:00am
by Dilip Desai



Make your computer run like new for free! This will save you time and hundreds of dollars as you will find you no longer need to take your computer to the repair shop. **Yes, you can do your own computer maintenance!**

What you will learn:

- Increase the speed of your computer & keep VIRUS FREE
- Free up space on computer
- Popular Virus Protection Programs & features
- Recognize & Avoid Phishing Scams
- Firewall & Private Browsing
- Creative Passwords - Keep PW Strong & Unique
- Data Encryption & VPN
- Upcoming 5G technology



Dilip Desai, with a degree in Mechanical and Industrial Engineering, has a diverse business background. Dilip is a successful businessman having conceptualized and owned three businesses in his career, experienced

Management Consultant having consulted in about a dozen countries around the world, and a social worker in Pittsburgh for over 40 years. Dilip has been the founding member of many local groups & associations including Gujarati Samaj, Gujarati Sunday School & USAP. Since his retirement five years ago, he is pursuing his many Passions and Hobbies. Dilip has been offering the "Tech Corner" in the USAP Newsletter published on a quarterly basis.



How To Tune-Up Your PC and Keep It Virus Free

September 19, 2021



Dilip Desai
Pittsburgh, Pennsylvania

How To Tune-Up Your PC and Keep It Virus Free



TOPICS



1. [Computer Basics](#)
2. [What is my computer configuration?](#)
3. [Basic Steps to take to speed up a slow computer – What & How](#)
4. [Symptoms of an infected computer](#)
5. [Types of viruses](#)
6. [Anti-virus software and comparison](#)
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13. [What is 5G?](#)
14. [What is VPN \(Virtual Private Networks\)?](#)

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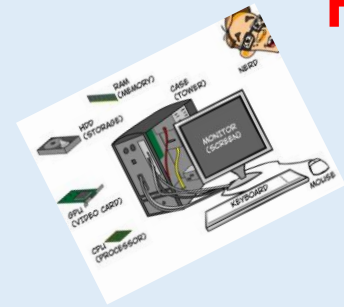


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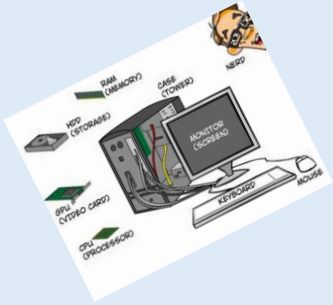


Computer basics-Parts of computer



- Computer systems are composed of *hardware*, *software*, and *firmware*.
- **Hardware** is **something you can touch and feel**; the physical computer itself is an example of hardware
- **Software** is the **operating system and applications that make the hardware work**; the software provides instructions for the hardware to carry out. Examples are: Windows10, Microsoft Office, Adobe Acrobat Reader, Tax software, and all the applications which run on the computer.
- The **operating system** is an important piece of software that **coordinates the interaction between hardware and software applications**, as well as the **interaction between a user and the computer**. Operating system examples include: DOS, Windows 98, NT Workstation, Windows 2000, Windows XP, and Windows 10.
- A **computer**, also called a PC, is a unit that performs tasks using software and comes in three basic models: A **desktop**, A **tower**, A **laptop**

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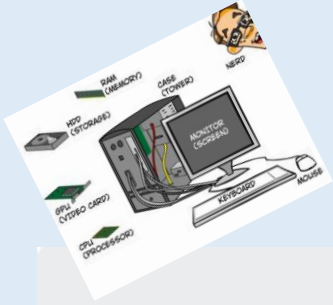


Computer basics-Parts of computer

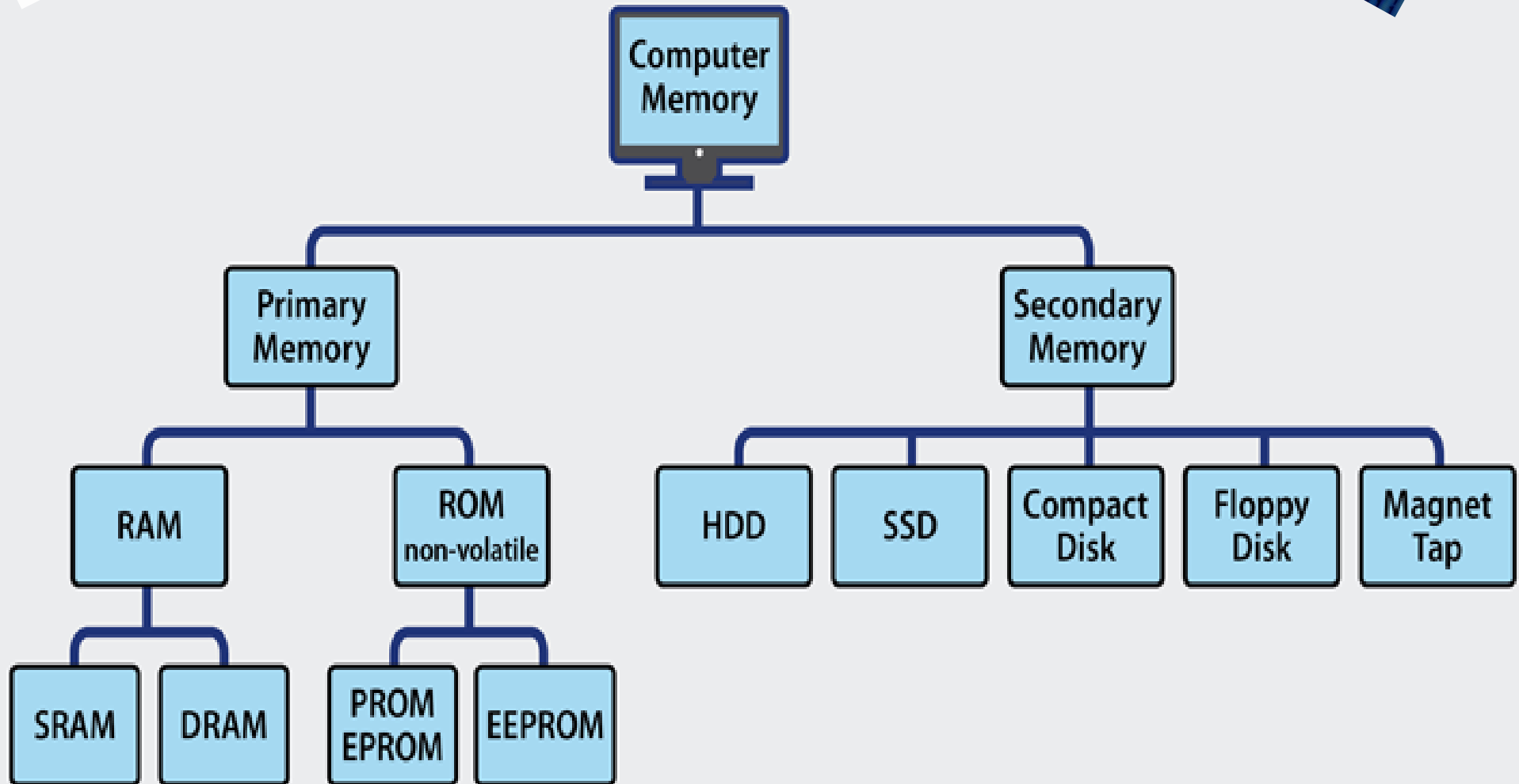
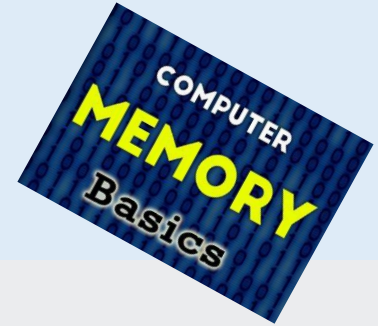


- A **Device driver** is a **special piece of software** designed to enable a **hardware** component.
 - The device driver allows the operating system to see, control, and use the hardware component **such as a printer**.
 - Its both **hardware and operating system specific** and is required by each piece of installed hardware for the operating system being used.
- **Firmware**, in layman's terms, is **software that is embedded in a piece of hardware**. A good way to remember is to regard it as **software for hardware**.
 - Firmware is made up of programs to make hardware devices tick.
 - Several key devices use firmware and will receive frequent firmware updates such as **Router, Printer, Modem, USB-connected peripherals (e.g., mouse, keyboard), Camera**

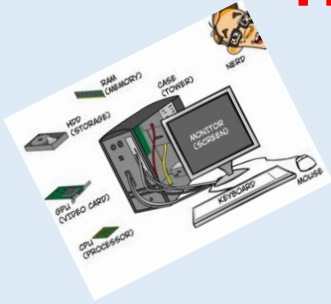
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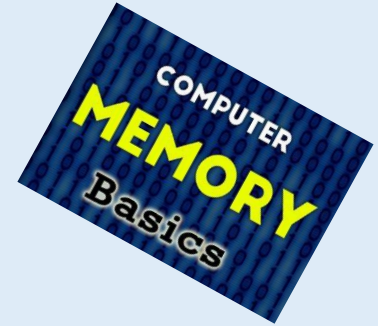
Computer basics-Parts of computer



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Computer basics-Parts of computer



Primary Memory

This is **the main memory of the computer**. CPU can directly read or write on this memory. It is **fixed on the motherboard** of the computer.

Primary memory is further divided in two types:

- 1.RAM(Random Access Memory)
- 2.ROM(Read Only Memory)

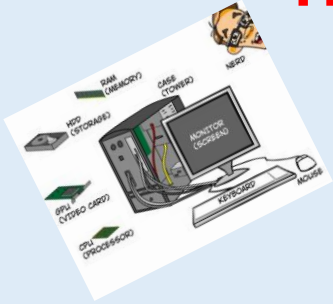
RAM (Random Access Memory)

- **RAM is a temporary memory**. The information stored in this **memory is lost as the power supply to the computer is turned off**. That's why it is also called Volatile Memory.
- It stores the data and instruction given by the user and also the results produced by the computer temporarily

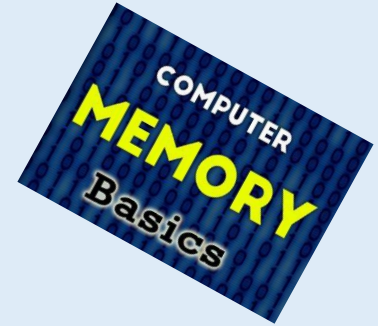
ROM (Read only Memory)

- Information stored in **ROM is permanent** in nature, i.e., it **holds the data even if the system is switched off**.
- It holds the **starting instructions for the computer**. ROM cannot be overwritten by the computer. It is also called Non-Volatile Memory.

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Computer basics-Parts of computer



Secondary Memory

- This memory is **permanent** in nature. Used to store the different programs and the information permanently (which were temporarily stored in RAM). It holds the information till we erase it.
- **Different types of secondary storage devices are:**
Hard Disc, Compact Disc, DVD, Pen Drive, Flash Drive, etc.

Cache Memory

- Temporary memory stores **frequently used data or processes for faster access in the future.**
- The purpose is to **save time, speed up the** operation of the **device** and reduce the amount of data that needs to be processed during use.

Should the Cache be cleared?

- Some apps can store up to GB of data that is no longer needed. In this case, you **need to delete them to free up memory space.**
- Another common reason is to help **reset the app to default** state **when** it **crashes** or difficult to use.
- You want to **delete** files that **contain personal information** to protect your privacy

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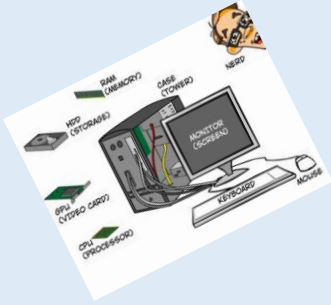


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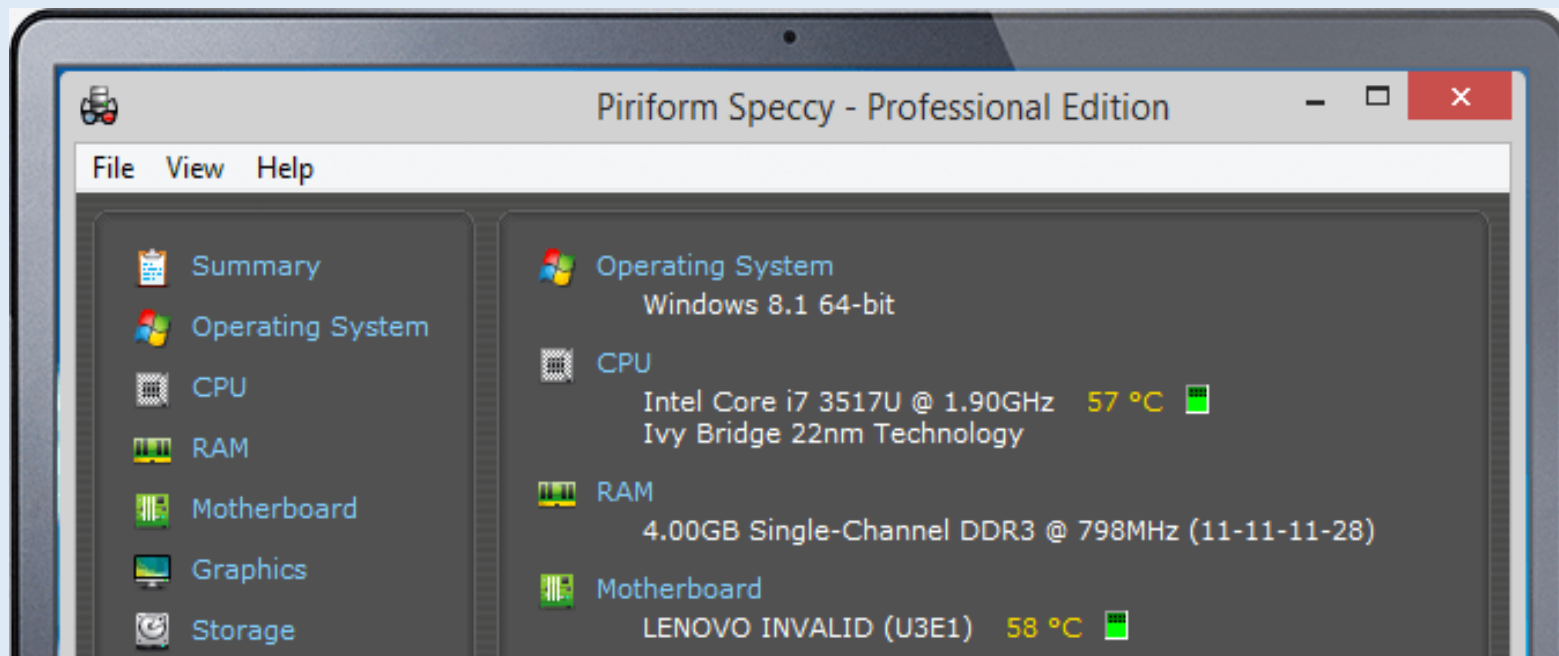
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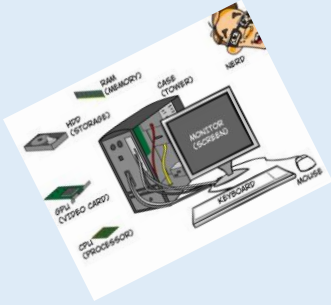


What's inside my computer (configuration)?

- CPU
- Operating System
- Storage
- RAM



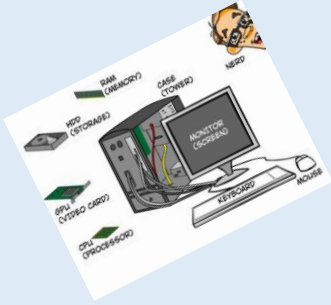
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What is the configuration of My Computer?

1. Click the Start button and then enter "**system**" into the search field. Select "System Information" from under Programs.
2. Click "**System Summary**" to see details about the operating system installed to the computer, the processor, basic input/output system and RAM.
3. Double-click "**Components**" Select a hardware device from the list to see its name, manufacturer, driver location and other details.

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System Information

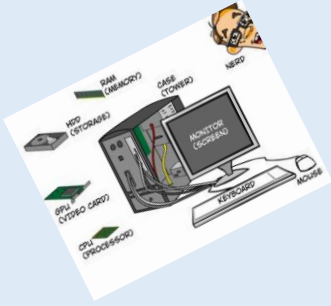
File Edit View Help

System Summary

- Hardware Resources
 - Components
 - Multimedia
 - CD-ROM
 - Sound Device
 - Display
 - Infrared
 - Input
 - Modem
 - Network
 - Ports
 - Storage
 - Drives
 - Disks
 - SCSI
 - IDE
 - Printing
 - Problem Devices
 - USB
 - Software Environment
 - System Drivers
 - Environment Variables
 - Print Jobs
 - Network Connections
 - Running Tasks
 - Loaded Modules
 - Services
 - Program Groups
 - Startup Programs
 - OLE Registration

Item	Value
OS Name	Microsoft Windows 10 Home
Version	10.0.19043 Build 19043
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	LAPTOP-13ALLVK6
System Manufacturer	HP
System Model	HP Laptop 15-bs0xx
System Type	x64-based PC
System SKU	6UY82UA#ABA
Processor	Intel(R) Core(TM) i3-7100U CPU @ 2.40GHz, 2401 Mhz, 2 Core(s), 4 Logical Pr...
BIOS Version/Date	Insyde F.66, 6/24/2020
SMBIOS Version	3.0
Embedded Controller Version	23.78
BIOS Mode	UEFI
BaseBoard Manufacturer	HP
BaseBoard Product	832A
BaseBoard Version	23.78
Platform Role	Mobile
Secure Boot State	On
PCR7 Configuration	Elevation Required to View
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume1
Locale	United States
Hardware Abstraction Layer	Version = "10.0.19041.1110"
User Name	LAPTOP-13ALLVK6\desai
Time Zone	Eastern Daylight Time
Installed Physical Memory (RAM)	8.00 GB

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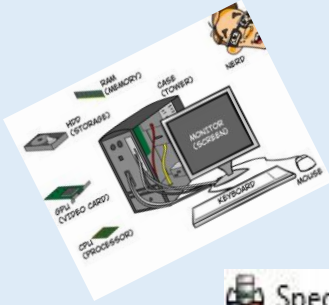
Speccy

By Piriform **FREE**

Speccy is a nifty little system information utility. Its mission is to collect and display more-detailed information about your hardware and its performance.

It shows the brand, model, version, driver, file, location, capacity, operating condition, and other data about your system's CPU, motherboard, RAM, graphics card, disk drives, optical drives, audio, peripherals, network, and operating system. It even displays the temperature of compatible hardware.

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Speccy
File View Help

- Summary
- Operating System
- CPU
- RAM
- Motherboard
- Graphics
- Storage
- Optical Drives
- Audio
- Peripherals
- Network

Operating System
Windows 10 Home 64-bit

CPU
Intel Core i3 7100U @ 2.40GHz 36 °C
Kaby Lake-U/Y 14nm Technology

RAM
8.00GB Dual-Channel Unknown @ 665MHz (10-10-10-28)

Motherboard
HP 832A (U3E1)

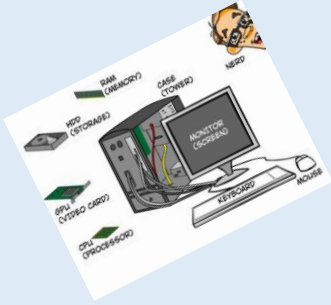
Graphics
Generic PnP Monitor (1366x768@60Hz)
Intel HD Graphics 620 (HP)

Storage
931GB PNY CS900 1TB SSD (SATA (SSD)) 33 °C
1863GB Seagate Ultra Slim MT SCSI Disk Device (USB (SATA)) 31 °C
4657GB Seagate BUP Portable SCSI Disk Device (USB (SATA)) 33 °C

Optical Drives
hp CDDVDW SN-208DB USB Device

Audio
Realtek High Definition Audio

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- Your computer's central processing unit (CPU) functions like the brain of your computer.
- It controls all the communication and the flow of data to and from the other parts of your computer.

The difference between 32-bit and a 64-bit is all about processing power.

- 32-bit processors are older, slower, and less secure
- 64-bit processor is newer, faster, and more secure.

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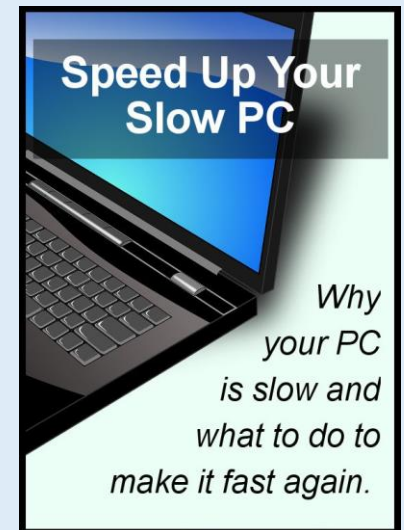
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Steps to speed up a slow computer (Windows 10)

1. Close system tray programs
2. Stop programs running on startup
3. Update Windows, drivers, and apps
4. Delete unnecessary files
5. Find programs that eat up resources
6. Adjust your power options
7. Run a disk cleanup
8. Defragment your hard drive
9. Adjust or disable graphics and animations
10. Check for malware
11. Upgrade your hardware



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Why is my computer slow?

- Your **operating system** has to **manage** the resources of your computer (**memory, drive space, processing power**) between all the programs that are running on it.
- There's a huge number of things that may be reducing your computer's performance, but they usually boil down to your **PC's resources being used inefficiently**.



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1. Close system tray programs

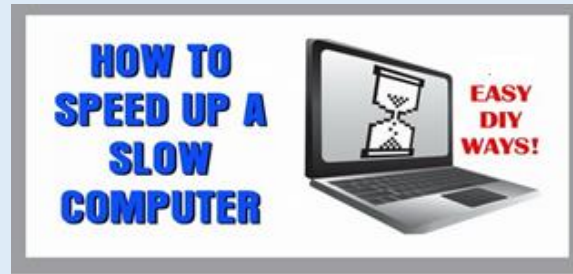
It's possible you have **too many programs starting up at the same time**. Items in the system tray often launch at startup and then stay running while you use your computer.

To access these items, **click the upwards arrow** toward the right side of your taskbar.



If there are any programs you don't need to have running, **right-click them and close**.

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2. Stop programs running on startup

Similar to programs running in the tray, other programs that **automatically run on startup** can slow down your computer. Some you may actually want to run, such as antivirus software, but others may be unnecessary.



Right-click the taskbar and select **Task Manager** **OR** hit **Ctrl-Shift-Escape** to launch.

Head to the **Startup tab** and you'll be able to view each **item that runs on startup, along with its impact.**

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2. Stop programs running on startup (continue)

Many applications can configure themselves to start automatically during startup and continue to run in the background, wasting valuable system resources that can significantly slow down the experience.

If you want to speed up Windows 10, you should disable all these applications running at startup or those you do not use regularly.

To disable apps at startup on Windows 10, use these steps:

1. Open **Settings**.
2. Click on **Apps**.
3. Click on **Startup**.
4. Click the **Sort by** menu and select the **Startup impact** option.
5. Turn off the toggle switch for any unnecessary app (especially those marked as "High impact" by the system).



How to stop programs running on startup is shown on next page

6. Restart your computer.

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2. Stop programs running on startup (continue)

Settings

Home

Find a setting

Apps

- Apps & features
- Default apps
- Offline maps
- Apps for websites
- Video playback
- Startup

Startup

Startup Apps

Apps can be configured to start when you log in. In most cases, apps will start minimized or may only start a background task.

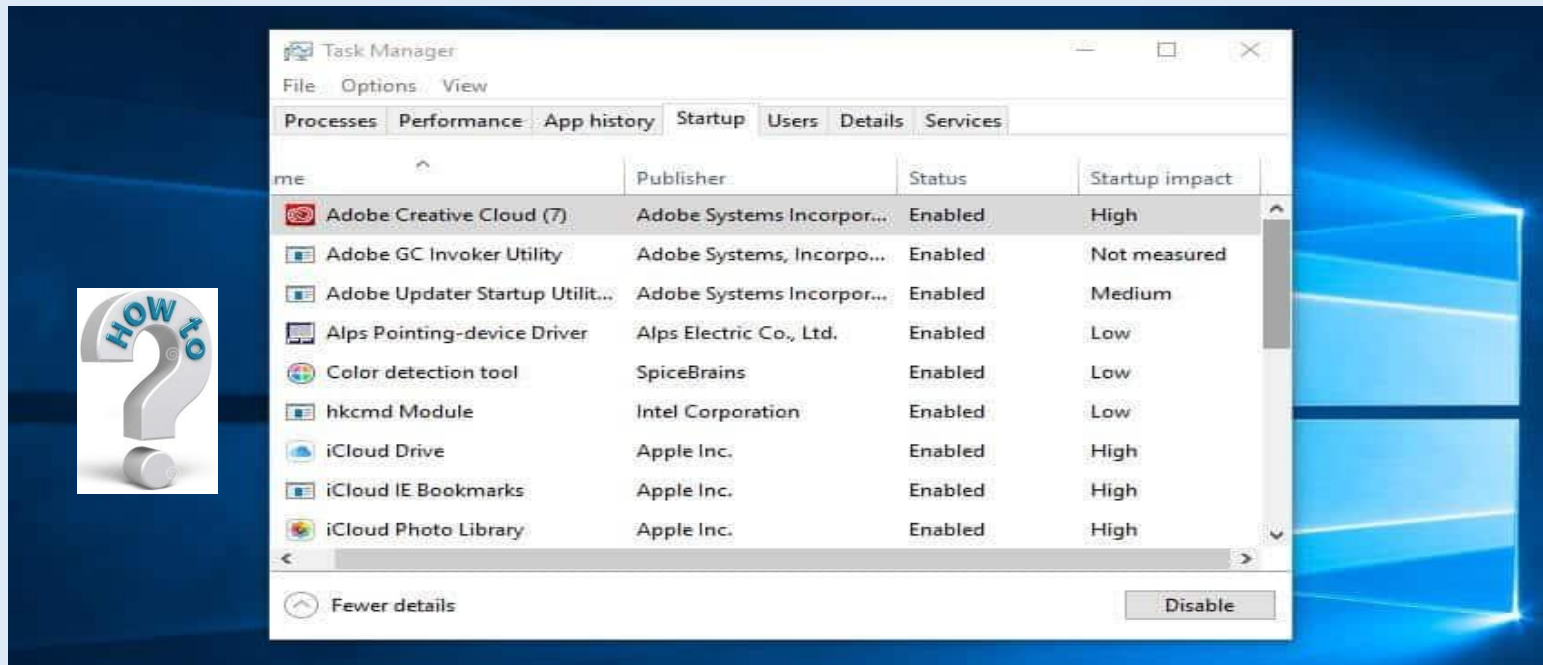
Sort by: Startup impact

	VMware Tools Core Service VMware, Inc.	<input checked="" type="checkbox"/>	On High impact
	Windows Security notification icon Microsoft Corporation	<input checked="" type="checkbox"/>	On Medium impact
	vm3dservice.exe	<input checked="" type="checkbox"/>	On Low impact
	Cortana Microsoft Corporation	<input checked="" type="checkbox"/>	On Not measured

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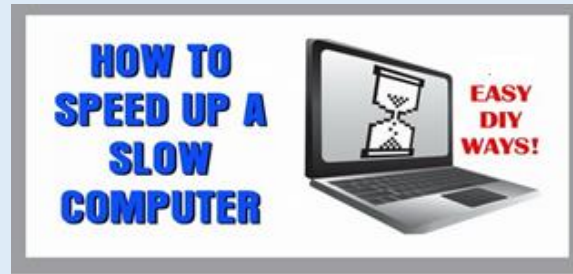
2. Stop programs running on startup (continue)



Go through these and decide which ones don't need to start automatically. ***This process is especially beneficial to performance if you can **disable some of the high impact ones.***** Note that some of these programs are vital for Windows to operate. The ones with **Microsoft listed as the publisher are probably best left alone.** If you aren't sure, either leave it.

- To disable, simply right-click and hit **Disable**. Remember, you're not disabling the program, just the fact that it runs on startup.

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3. Update Windows, drivers, and apps

Keeping your **software up to date** is a good idea for security. It can help performance too.

Windows will **automatically send you a notification when an update is available**. You just need to make sure you don't keep putting it off.

If you think you might have missed an update, you can always check.



- Go to **Start** and click **Settings** or the settings icon.
- Then go to **Updates & Security > Windows Updates**.

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3. Update Windows, drivers, and apps (continue)



Aside from your Windows operating system, drivers and apps should be kept up to date too.

It is good for both security and performance.

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4. Delete unnecessary files

Computers get cluttered. It could be having a negative impact on your computer's performance. Especially true if you deal with a **lot of large files, such as high-resolution images, audio files, and videos**, on a day-to-day basis.

Free up space by **making a habit of deleting files and folders each week and emptying the recycle bin afterwards.**

Handy tip:

HDDs usually run at peak speed until they reach roughly 90 percent capacity. So if you check how much space is used up and you're over 90 percent, that's probably what's slowing things down.

SSDs slow down more gradually as they fill up, so it's good to stay on top of things. It's recommended **not to fill an SSD to more than 75 percent** of its capacity.

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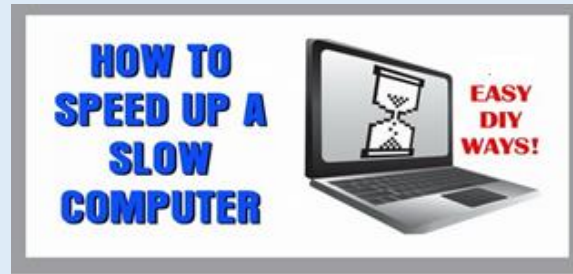
4. Delete unnecessary files (continue)

A screenshot of a Windows desktop showing the Recycle Bin icon. A right-click context menu is open over the icon. The 'Open' option is highlighted. Red boxes and arrows are used as annotations. One box points to the Recycle Bin icon with the text '1. Click the Mouse Right Button'. Another box points to the 'Open' option with the text '1. Select the Open'. The Windows taskbar is visible at the bottom with the search bar containing the text 'Search Windows'.

1. Click the Mouse Right Button

1. Select the Open

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5. Find programs that eat up resources

If you find that your computer is suddenly running significantly slower, chances are there is a particular program to blame. One way to identify is to go into your task manager and find out what's eating up your resources.

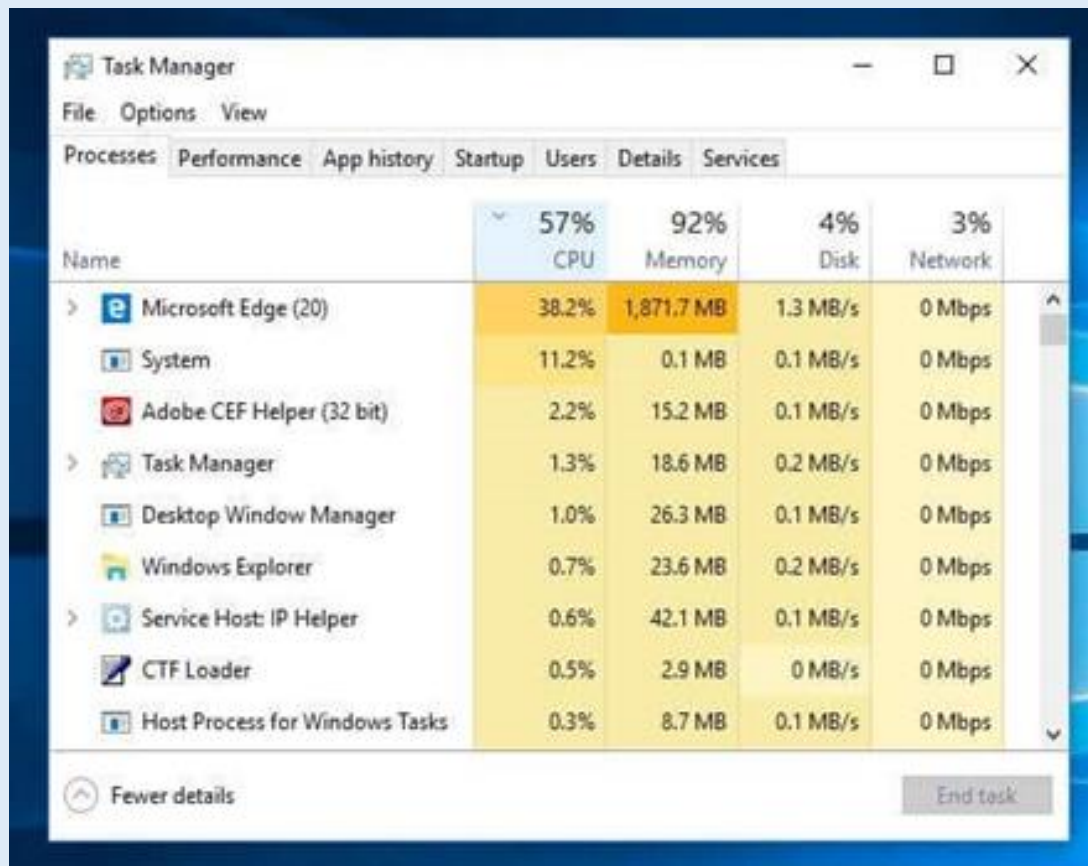


- Right-click the taskbar and select **Task Manager**.
- Click **More details** to find out information about the programs that are currently running on your computer.
- It should show you the **Processes** tab by default.

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5. Find programs that eat up resources (continue)



Name	CPU	Memory	Disk	Network
> Microsoft Edge (20)	38.2%	1,871.7 MB	1.3 MB/s	0 Mbps
System	11.2%	0.1 MB	0.1 MB/s	0 Mbps
Adobe CEF Helper (32 bit)	2.2%	15.2 MB	0.1 MB/s	0 Mbps
> Task Manager	1.3%	18.6 MB	0.2 MB/s	0 Mbps
Desktop Window Manager	1.0%	26.3 MB	0.1 MB/s	0 Mbps
Windows Explorer	0.7%	23.6 MB	0.2 MB/s	0 Mbps
> Service Host: IP Helper	0.6%	42.1 MB	0.1 MB/s	0 Mbps
CTF Loader	0.5%	2.9 MB	0 MB/s	0 Mbps
Host Process for Windows Tasks	0.3%	8.7 MB	0.1 MB/s	0 Mbps

You can click each header to sort the list according to which applications are using the most of that particular resource.

If you need to close something, try closing the actual application first.

If it won't close, come back to the **Task Manager** screen, right-click the application, and hit **End task**.



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6. Adjust your power options

Windows comes with several preset 'power plans' to suit your needs.

The **default** is – **Balanced** (Performance and Energy Consumption)
Energy Consumption is a concern only if you're running off battery.

High performance plan is a better option if your PC is running slow. It uses more energy, but favors performance so should help speed up your machine.

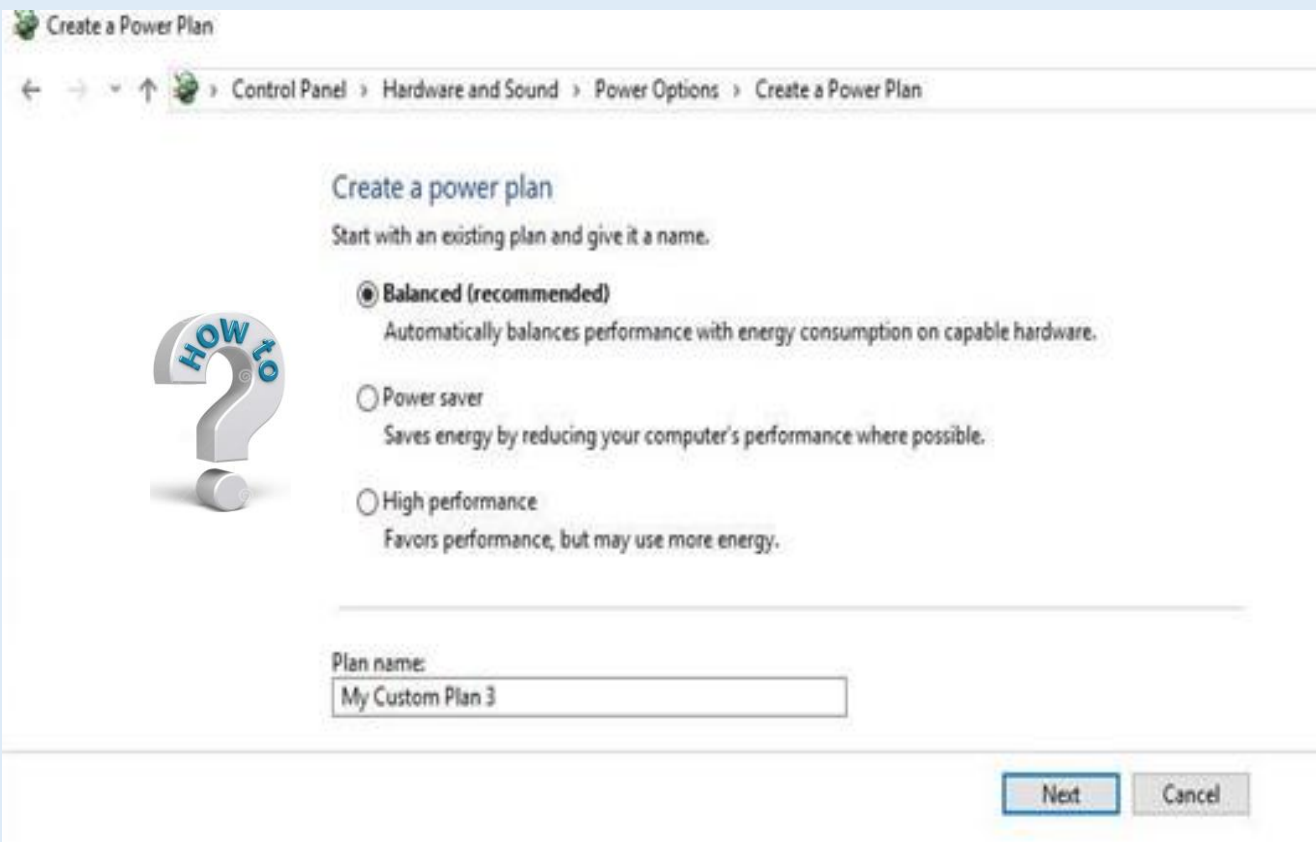


Go to **Control Panel > Hardware and Sound > Power Options > Create a power plan**. Choose which existing plan you would like to start with, enter a name for your new plan, and select **Next**.

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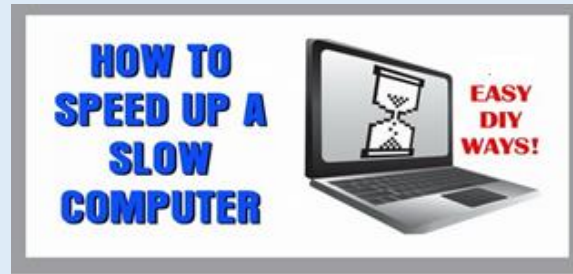
6. Adjust your power options (continue)



Basic options include how long the display stays on for when you're inactive and how long before the computer goes into sleep mode.

These won't really affect your computer's speed, but if you go into **Change advanced power settings**, you can make more adjustments that will have an impact.

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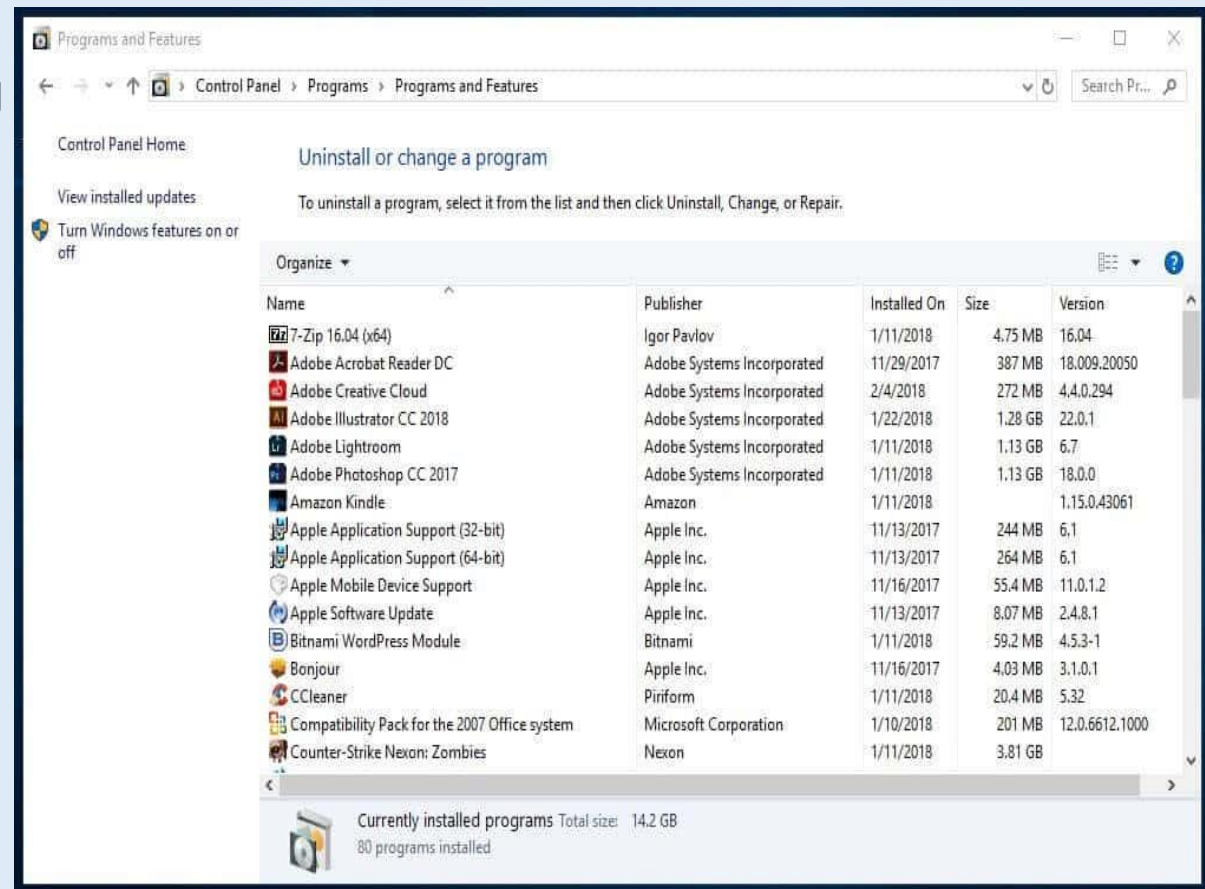


7. Uninstall programs you don't use

We often install huge programs without realizing how much space they're taking up.

If you think that might be the case, you can easily uninstall any programs you don't use.

To uninstall a program, head over to **Control Panel > Programs > Programs and Features**.



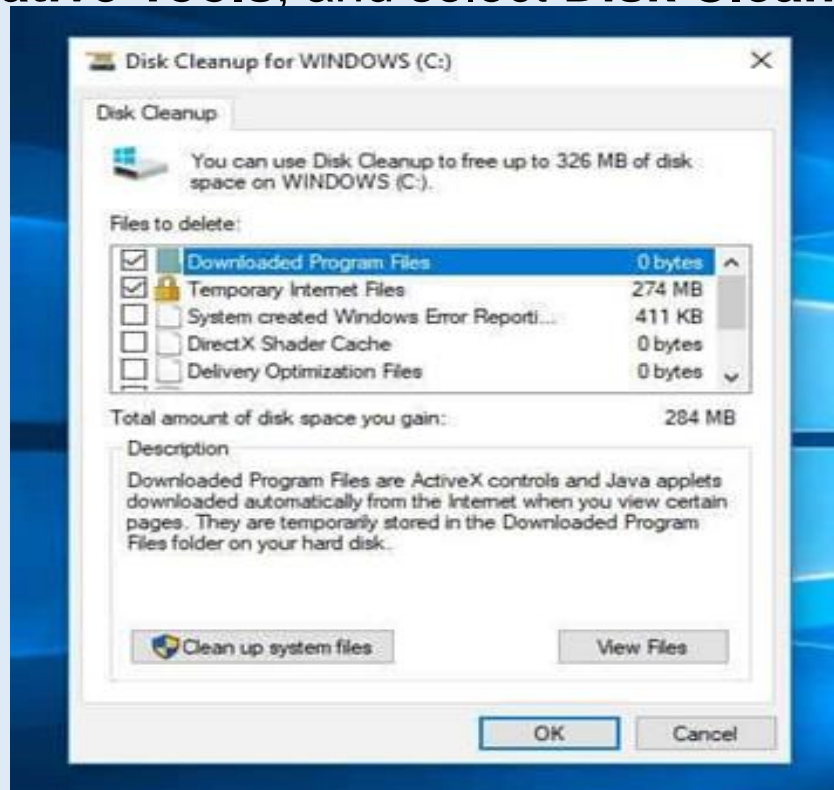
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8. Run a disk cleanup

Windows comes with a built-in tool for **cleaning up junk that accumulates over time**.

To access the Disk Cleanup tool, go to **Control Panel > System and Security > Administrative Tools**, and select **Disk Cleanup** from the list.



Here, you can select the types of files you want to get rid of and click **OK**.

Then click **Clean up system files** and choose any system files you want to remove.



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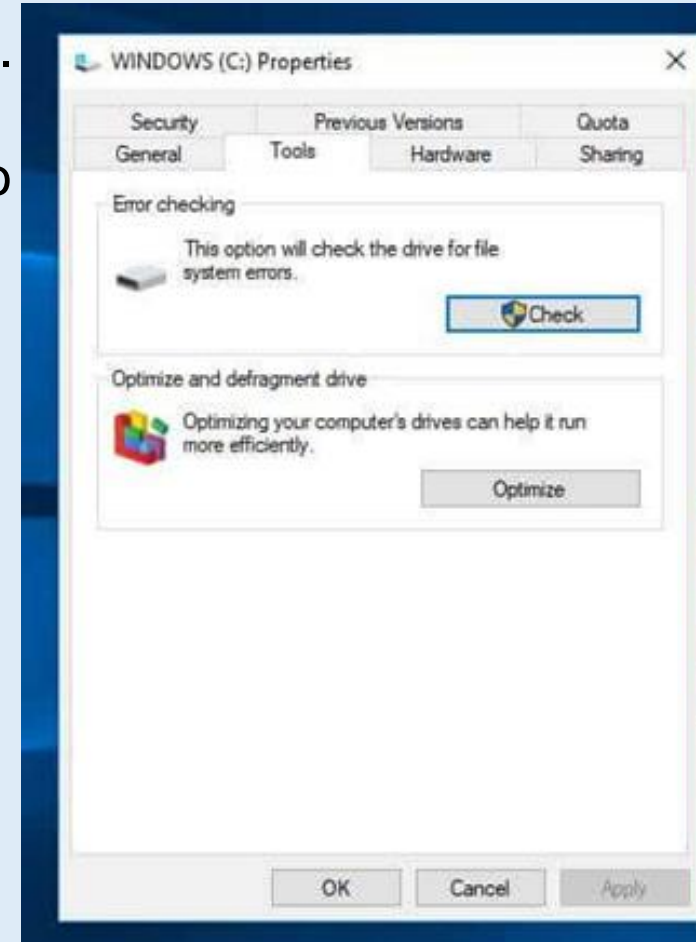


9. Defragment your hard drive

Over time, **files** on your hard drive **become fragmented**. **'Defragment'** - **putting those files back together** for system to run more efficiently. Windows 10, 8, and 7 do automatically on a set schedule. But you can manually run it if you suspect an issue.

You only need to do this if your computer uses a traditional **Hard Disk Drive (HDD)**. A Solid State Drive (SSD) works differently from a HDD, and there is no need for defragmentation. If you have both, only defragment the HDD.

Go to **My Computer** and right-click the hard drive. Then go to **Properties** > **Tools** and under **Optimize and defragment drive**, click **Optimize**.

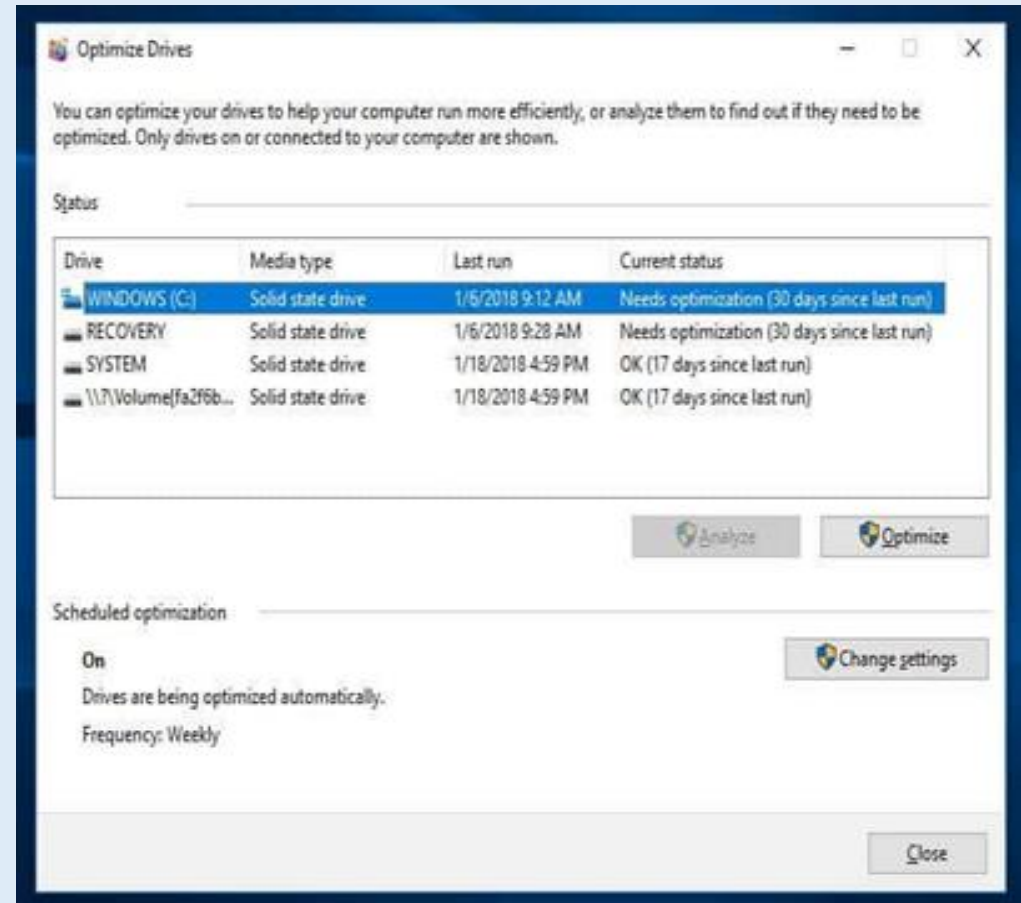


How To Tune-Up Your PC and Keep It Virus Free



9. Defragment your hard drive

- You'll then get an **Optimize Drives** screen popup.
- **Analyze** will be grayed out for SSD drives, but will be available for hard drives.
- Select an HDD drive and click **Analyze** to see how fragmented it is. If it is above five percent, click **Optimize** to defragment the disk.
- If SSD, **Optimize** is an available option. Clicking it will wipe data that is no longer considered in use.





How To Tune-Up Your PC and Keep It Virus Free



What are the differences between SSD and HDD?

SSD VS HDD

- FASTER PERFORMANCE
- NO VIBRATIONS OR NOISE
- MORE ENERGY EFFICIENT
- CHEAPER PER GB
- AVAILABLE IN LARGE VERSIONS

	SSD vs. HDD Usually 10,000 or 15,000 rpm SAS drives	
0.1 ms	Access Times SSDs exhibit virtually no access time	5.5-8.0 ms
SSDs deliver at least 6000 io/s	Random I/O Performance SSDs are at least 15 times faster than HDDs	HDDs reach up to 400 io/s
SSDs have a failure rate of less than 0.5%	Reliability This makes SSDs 4-10 times more reliable	HDDs failure rate fluctuates between 2-5%
SSDs consume between 2 and 5 watts	Energy Savings This means that on a large server, approximately 100 watts are saved	HDDs consume between 6 and 15 watts
SSDs have an average I/O wait of 1%	CPU Power You will have an extra 6% of CPU power for other operations	HDDs average I/O wait is about 7%
The average service time for an I/O request while running a backup remain below 20 ms	Input/Output Request Times SSDs allow for much faster data access	The I/O request time with HDDs during backup rises up to 400-500 ms
SSD backups take about 6 hours	Backup Rates SSDs allow for 3-5 times faster backup for your data	HDD backups take up to 20-24 hours

How To Tune-Up Your PC and Keep It Virus Free



10. Adjust or disable graphics and animations

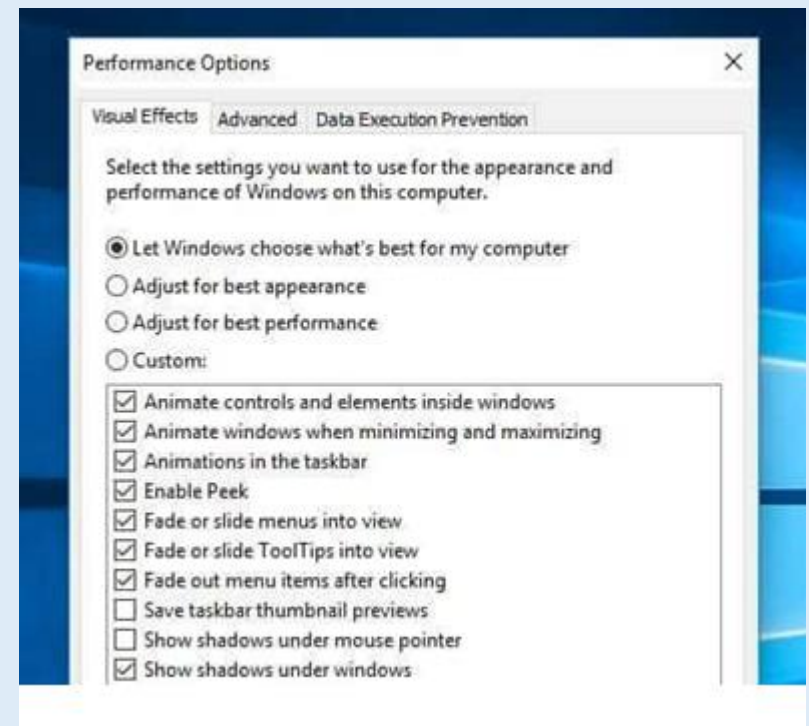
More recent versions of Windows come with **lots of graphics, including animations such as fading effects and flyouts**. These help make the application appear more sleek and refined and contribute to a better overall user experience. On the other hand, they can also slow down your computer.

Thankfully, it's simple to adjust these settings and hopefully save a little processing power.

Go to **Control Panel > System and Security > System > Advanced system settings**.

Then, in the **Performance** section, hit **Settings** and you'll have a full list of options.

You can select **Adjust for best performance** (this will remove all visual effects) or opt to remove some individually. It's a matter of preference, but fade and shadow features are some you could probably live without.



How To Tune-Up Your PC and Keep It Virus Free



11. Check for malware

- Malware (malicious software) is a **broad term used to describe malicious programs** that could cause harm to your computer.
- These may come from various sources, including **email links, software downloads, and even ads** (malvertisements).
- Aside from potentially causing permanent damage to your system, **some forms of malware can cause your computer to run slow.**
- Having **good antivirus software** installed can help protect against malware, as well as other threats.

How To Tune-Up Your PC and Keep It Virus Free



Summary - Key Reasons of Slow Computer

1. Unrequired Files, Programs, Browser extensions
2. Windows, Programs, Drivers, Security program, Extensions not up-to-date
3. Primary, Secondary Memory maxed out or Defrag required
4. Check for Malware

How To Tune-Up Your PC and Keep It Virus Free



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14. What is VPN (Virtual Private Networks)?

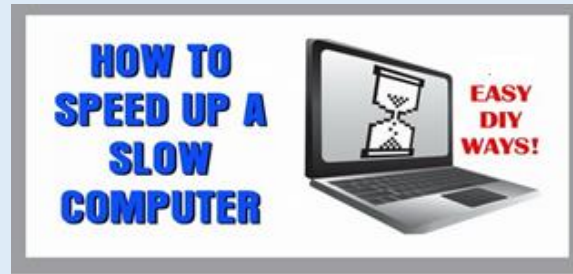
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Symptoms of an Infected Computer

- You see unexpected messages or images
- Program start unexpectedly
- Your computer freezes frequently, or programs start running slowly
- You get lots of system error messages
- You notice that files or folders have been deleted
- Your web browser behaves erratically

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Symptoms of an Infected Computer (continue)

- Your personal firewall tells you that an application has tried to connect to the internet (and it's not a program that you ran)
- Your friends tell you that they have received e-mails messages from your address and haven't sent them anything
- The operating system will not load when you start your computer

According to Kaspersky.com

How To Tune-Up Your PC and Keep It Virus Free



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Comparison of antivirus software



Malware: Viruses, Spyware, Adware & Other Malicious Software

What is Malware?

- Malware is a **catch-all term for various malicious software**, including viruses, adware, spyware, browser hijacking software, and fake security software.
- These programs can **seriously affect your privacy and your computer's security**. For example, malware is known for relaying personal information to advertisers and other third parties without user consent.

Comparison of antivirus software



Malware: Viruses, Spyware, Adware & Other Malicious Software

Types of Malware

- **Viruses** which are the **most commonly-known** form of malware and potentially the most destructive. **They can do anything from erasing the data on your computer to hijacking your computer to attack other systems, send spam, or host and share illegal content.**
- **Spyware** **collects your personal information and passes it on to interested third parties without your knowledge or consent.** Spyware is also known for installing Trojan viruses.

Comparison of antivirus software



Malware: Viruses, Spyware, Adware & Other Malicious Software

Types of Malware (continue)

- **Adware** displays pop-up advertisements when you are online.
- **Fake security software** poses as legitimate software to trick you into opening your system to further infection, providing personal information, or paying for unnecessary or even damaging "clean ups".
- **Worms** are a malicious software that rapidly replicates and spreads to any device within the network.

Comparison of antivirus software



Malware: Viruses, Spyware, Adware & Other Malicious Software

Types of Malware (continue)

- **Spamware** – Software that **send in solicited bulk messages** indiscriminately.
- **Trojan Horse** – Legitimate seeming software that **allows a hacker remote access to a target computer.**
- **Bots** - Also known as **spiders, crawlers.** Processes that **automate tasks done by humans.** Gathers passwords and sends out spam.

How To Tune-Up Your PC and Keep It Virus Free



12. Upgrade your hardware

If you've tried all of the tricks above, it might be time to invest in some new hardware. Here are a couple of things you may want to consider putting some money into:

- **Add an SSD:** While HDDs offer more space for a lower price, adding an SSD can make your computer run much faster.
- **Add more RAM:** If you have an older system, it may have too little memory to run modern applications efficiently. What's more, **if you use a lot of programs simultaneously, you might not have enough Random Access Memory (RAM)** to carry you through. Installing a new RAM kit could give you the boost you need.

How To Tune-Up Your PC and Keep It Virus Free

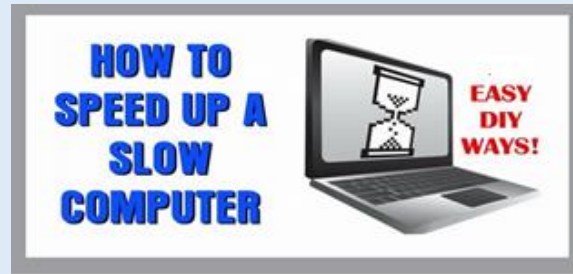


A few more tips

Here are a few more tips to get you up to speed:

- **Keep your computer clean:** This may sound obvious, but accumulated dust and grime can actually slow down your computer. Physically cleaning your computer regularly could help speed it up and prevent overheating.
- **Remove unused browser extensions (gives extra features):** These **can slow down your browsing experience** so it's worth doing some regular housekeeping there.
- **Restart regularly:** Sometimes all you need is a fresh boot. **Restarting your computer can enable updates to take effect and shut down stuck programs.** When you're taking a break, it could be a good time to hit restart.
- **Run fewer simultaneous programs:** Just like multitasking can be detrimental to our productivity, running lots of programs simultaneously can dampen your computer's speed. **Make a habit of closing programs instead of just minimizing** them and you should see some improvement.
- **Slow Internet:**

How To Tune-Up Your PC and Keep It Virus Free



Advantages of Computer Maintenance

- More efficient use of system resources
 - Run faster
 - Fewer Halts
 - Less aggravation and waiting
- Fewer Crashes
 - Repairs corrupt files
 - Avoids Blue Screen of Death
- Better Security
 - A lot of personal data stored
 - Less viruses



How To Tune-Up Your PC and Keep It Virus Free



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Comparison of antivirus software



Windows Security

Microsoft **Defender** Antivirus protect your device from viruses, malware, and other threats. It isn't the absolute best antivirus software but good enough. It does not offer many extras. Windows Security includes seven areas of protection that you can manage and monitor:

1. **Virus & threat protection** – monitor the malware protection, scan the device for threats, launch an offline scan
2. **Account protection** – allows you to see how to protect your identity (locks Defender settings).
3. **Firewall & network protection** – lets you monitor network connections.
4. **App & browser control** – helps you protect your device and data from malicious code hidden on apps, files, and websites.
5. **Device security** – provides hardware-level security features, protect your computer from attacks.
6. **Device performance & health** – display the health and performance report of your computer.
7. **Family options** – manage devices and kids' online experience using a Microsoft account

Comparison of antivirus software



https://en.wikipedia.org/wiki/Comparison_of_antivirus_software

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Comparison of antivirus software

From Wikipedia, the free encyclopedia
(Redirected from [List of antivirus software](#))

 This article needs to be **updated**. Please help update this article to reflect recent events or newly available information.
(November 2020)

This is a non-exhaustive list of *notable* antivirus and Internet Security software, in the form of comparison tables, according to their platform (e.g. desktop, mobile, server, etc.) and their operating systems (e.g. Windows, macOS, Linux, Solaris, Android, iOS, Ubuntu Touch, Windows Phone, etc.).

Contents [hide]

- 1 Legend
- 2 Desktop computers and servers
 - 2.1 Windows
 - 2.2 macOS
 - 2.3 Linux
 - 2.4 Solaris
 - 2.5 FreeBSD
- 3 Mobile (Smartphones and tablets)
 - 3.1 Android
 - 3.2 iOS
 - 3.3 Windows Mobile

Comparison of antivirus software



https://en.wikipedia.org/wiki/Comparison_of_antivirus_software

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Comparison of antivirus software

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Windows [\[edit \]](#)

Company	Software	On-demand scan	On-access scan	Boot-time scans	Heuristics	CloudAV	Firewall	IDS	IPS	Sandbox	Email Security	AntiSpam	Web protection	Macro protection	Live Update	Sup
Avast	Avast Free Antivirus	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	No	Yes	Yes	Yes	
Avast	Avast Premium Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	
AVG Technologies (avast)	AVG Antivirus FREE	Yes	Yes	Yes	Yes	No	No	No	No	?	No	No	Yes	Yes	Yes	
AVG Technologies (avast)	AVG Antivirus	Yes	Yes	Yes	Yes	Yes	No	No	No	?	Yes	No	Yes	Yes	Yes	
AVG Technologies (avast)	AVG Internet Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Yes	Yes	Yes	Yes	
Avira	Avira Antivirus FREE	Yes	Yes	Yes	Yes	Yes	No	No	No	?	No	Yes	No	Yes	Yes	
Avira	Avira Internet Security	Yes	Yes	Yes	Yes	Yes	No	No	No	?	Yes	Yes	Yes	Yes	Yes	
Bitdefender	Bitdefender Antivirus Free	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	
Bitdefender	Bitdefender Antivirus Plus	Yes	Yes	Yes	Yes	Yes	Yes	V · T · E	Yes	No	Yes	Yes	Yes	Yes	Yes	

Comparison of antivirus software



Our 13 Top Picks From 67 Products Reviewed – PC Magazine

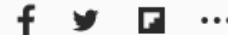
The Best Antivirus Protection for 2021

Antivirus software is critical for every PC. Without it, you risk losing your personal information, your files, and even the cash from your bank account. We've tested more than 40 utilities to help you pick the best antivirus protection for your computers.



By [Neil J. Rubenking](#)

Updated August 6, 2021



OUR 13 TOP PICKS FROM 67 PRODUCTS REVIEWED

Best for Multi-Device Households



PC EDITORS' CHOICE ●●●●○ 4.0 Excellent

McAfee AntiVirus Plus

Best for Single Desktop Protection



●●●●○ 4.0 Excellent

Norton AntiVirus Plus

Best for Excellent Lab Test Scores



PC EDITORS' CHOICE ●●●●● 4.5 Outstanding

Kaspersky Anti-Virus

Best for Wealth of Bonus Features



PC EDITORS' CHOICE ●●●●● 4.5 Outstanding

Bitdefender Antivirus Plus

Comparison of antivirus software



Anti-Virus Software Features

Kaspersky Total Security

← Tools

Security

My Network

Manage applications

Data Protection

Clean and optimize

Reports

Cloud Protection
Uses a cloud-based database to detect danger immediately.

Quarantine
Stores files that were modified or deleted during disinfection.

On-Screen Keyboard
Protects your data from keyloggers.

Kaspersky Rescue Disk
Disinfects a critically infected computer when the operating system starts.

Kaspersky Total Security

← Tools

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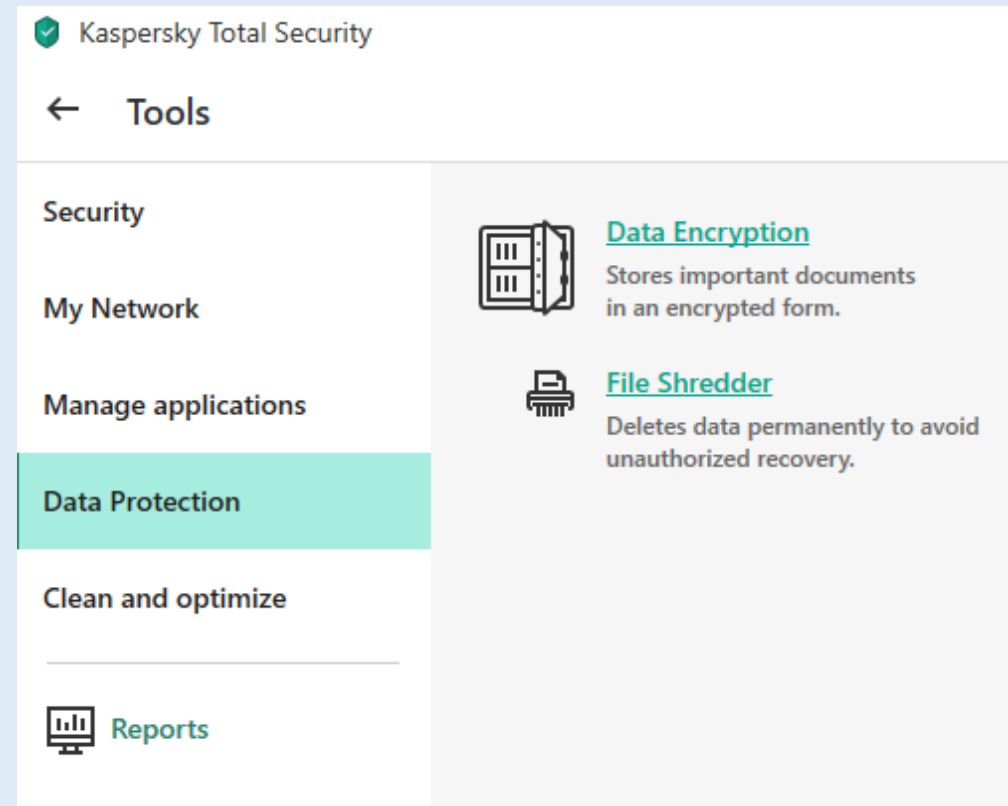
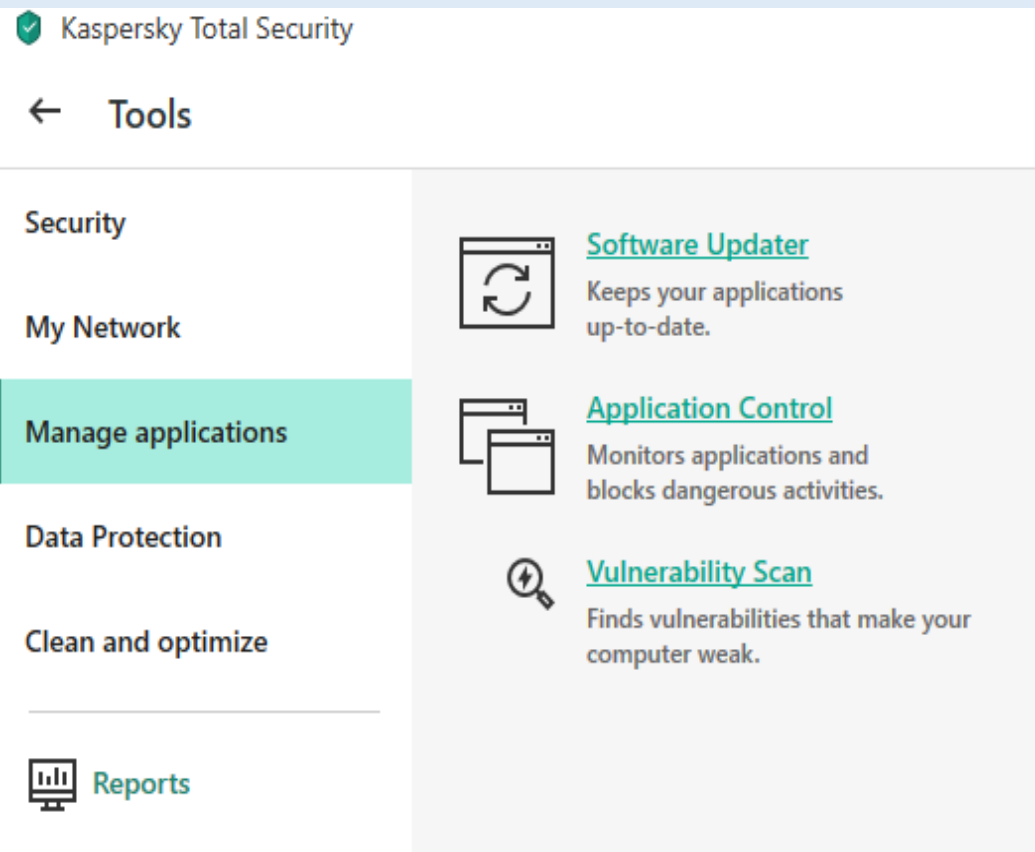
Kaspersky VPN
Secure data transfer.

Network Monitor
Shows network activity of all applications.

Comparison of antivirus software



Anti-Virus Software Features



Comparison of antivirus software



Anti-Virus Software Features

Kaspersky Total Security

← Tools

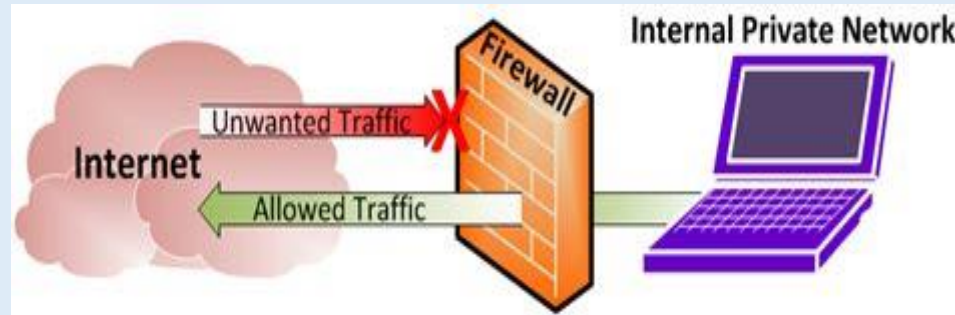
- Security
- My Network
- Manage applications
- Data Protection
- Clean and optimize**
- Reports

- PC Cleaner**
Helps you delete unnecessary applications.
- Unused Data Cleaner**
Deletes temporary and other unused files.
- Privacy Cleaner**
Clears the traces of your activity.
- Browser Configuration**
Helps securely configure Internet Explorer.
- Microsoft Windows Troubleshooting**
Clears the traces of malicious objects in the system.

Comparison of antivirus software



Firewall



A Firewall is a **protective boundary** that monitors and restricts information that travels **between your computer** and a network or the **internet**.

This provides **line of defense** against someone who **might try to access your computer** from outside the Windows Firewall **without your permission**.

How To Tune-Up Your PC and Keep It Virus Free



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How To Tune-Up Your PC and Keep It Virus Free

Current 2021 Top 10 List of Scams and Frauds

https://www.consumerfraudreporting.org/current_top_10_scam_list.php

Top 10 Scams

1. Debt Collection:

Harassing collectors threatening with repeated calls. Credit/Debit card fees, Credit Repair companies and **unauthorized use of credit/debit cards**.

2. Fake Government Officials

If you received an email, letter or phone call from a government agency (typically the IRS or FBI) and it instructs you to wire, Western Union or MoneyGram money someplace, or follow a link and enter information - **Don't believe it!**

3. Identity Theft, Phishing and Pharming

Scammers gain access to your confidential information, like social security numbers, date of birth and then use it to apply for credit cards, loans and financial accounts. Typically, the **victim receives an email that appears to be from a credible, real bank or credit card company**, with links to a website and a request to update account information. But the **website and email are fakes**, made to look like the real website.

Current 2021 Top 10 List of Scams and Frauds

https://www.consumerfraudreporting.org/current_top_10_scam_list.php

Top 10 Scams (continue)

4. Phone scams

This includes telemarketers violating the Do Not Call list, Robodialers, **scammers calling up pretending to be from a bank or credit card company**. Scammers have even found a way to scam consumers by pretending to be a government official calling to sign you up or confirming your previous participation on the Do Not call list! A good example of this is the **"Your Microsoft license key has expired" scam call**

5. Loans Scams / Credit Fixers

False promises of business or personal loans, even if credit is bad, for a fee upfront. Or a scam that promises to repair your credit for a fee.

6. Fake Prizes, Sweepstakes, Free Gifts, Lottery Scams

You receive **an email claiming you won a prize, lottery or gift, and you only have to pay a "small fee" to claim** it or cover "handling costs". Unsolicited email or telephone calls tell people they are being entered or have already been entered into a prize draw. Later, they receive a **call congratulating them on winning** a substantial prize in a national lottery.

Current 2021 Top 10 List of Scams and Frauds

https://www.consumerfraudreporting.org/current_top_10_scam_list.php

Top 10 Scams (continue)

7. Internet merchandise scams

You **purchase something online**, but it is either never delivered or it is not what they claimed it was, or is defective.

8. Automobile-Related Complaints

Car loans, car buying, car sales, auto repair, fake or useless **extended warranties**.

9. Credit Bureaus and related credit scams

Credit/debit card fees, pay day loans, credit repair companies and unauthorized use of credit/debit cards. Some of these complaints involved hidden fees and billing disputes as well.

10. Phishing/Spoofing Emails

Emails that pretend to be from a company, organization or government agency but **ask you to enter or confirm your personal information**

How To Tune-Up Your PC and Keep It Virus Free



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How To Tune-Up Your PC and Keep It Virus Free



Phishing

Phishing is when an **attacker attempts to fool you into clicking on a malicious link or opening an attachment** in an email.

Be suspicious of any email or online message that creates a **sense of urgency**, has **bad spelling** or addresses you with a generic greeting such as "Dear Customer."

How To Tune-Up Your PC and Keep It Virus Free

Phishing

WHAT YOU NEED TO KNOW

SCAMMERS ARE AFTER YOUR



Passwords



Financial Info



Identity



Money

WHY DO WE FALL FOR THESE SCAMS?

- Urgency
- Desire to please
- Greed
- Curiosity
- Complacency
- Fear



PROBABILITY THAT A PHISHING MESSAGE SUCCEEDS
1 out of 10!



WATCH OUT FOR

- Spelling & Grammar Errors
- Sender Address
- Things That Sound Too Good to be True

BEWARE OF UNSOLICITED MESSAGES

- Attachments
- Links
- Login Pages

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Phishing scams

Phishing scams usually tell a story to **trick you into clicking on a link or opening an attachment**, the FTC explains. These emails and texts can say or include things such as:

- They've noticed some **suspicious activity or log-in attempts on your account**
- They claim there's a **problem with your account or your payment information**
- They say you **must confirm some personal information**
- They include a **fake invoice**
- They encourage you to **click on a link to make a payment**
- They say you're eligible to register for a government refund
- They offer a coupon for free foods

How To Tune-Up Your PC and Keep It Virus Free



Phishing

Scammers use email or text messages to trick you into giving them your personal information. But there are several things you can do to protect yourself.

A. How To Recognize Phishing

B. How To Protect Yourself From Phishing Attacks

C. What To Do if You Suspect a Phishing Attack

D. What To Do if You Responded to a Phishing Email

E. How To Report Phishing

How To Tune-Up Your PC and Keep It Virus Free



How To Recognize Phishing Scams

1. **Phishing emails and text messages may look like they're from a company you know or trust.** They may look like they're from a bank, a credit card company, a social networking site, an online payment website or app, or an online store.
2. **Phishing emails and text messages often tell a story to trick you into clicking on a link or opening an attachment.**



How To Tune-Up Your PC and Keep It Virus Free




A. How To Recognize Phishing

Here's a real world example of a phishing email




Your Life Insurance Notice! Inbox x

 **FidelityLife** <selstar99@gmail.com>
to desai12 ▾


[\\$250,000 coverage as low as \\$15/month you could help protect your family](#)

Peace of Mind with Low Rates from Fidelity Life a leading life insurance company for families.
Free Quotes, no obligation.

 **FIDELITYLIFE**

**UP TO \$1 MILLION IN
TERM LIFE INSURANCE**

Rates as low as \$1 a day

 **GET MY FREE QUOTE!** ▶

How To Tune-Up Your PC and Keep It Virus Free

A. How To Recognize Phishing

Here's a real world example of a phishing email



How To Tune-Up Your PC and Keep It Virus Free

A. How To Recognize Phishing

Here's a real world example of a phishing email

Phishing email example: Account temporarily suspended

From: "SunTrust"<secure@suntust.com>
To: -
Subject: Account Temporarily Suspended
Date: 2017-08-25 10:09AM



Dear SunTrust Client,

As part of our security measures, we regularly screen activity in the suntrust Online Banking System. We recently contacted you after noticing on your online account, which is been accessed unusually.

To view your Account,

1. Visit suntrust.com
2. Sign on to Online Banking with your user ID and password
3. Select your account

We appreciate your business and are committed to helping you reach your financial goals. call us at 800-SUNTRUST (786-8789), or stop by your local branch to learn more about our helpful products and services.

Thank you for banking with SunTrust.

Sincerely,
SunTrust Customer Care

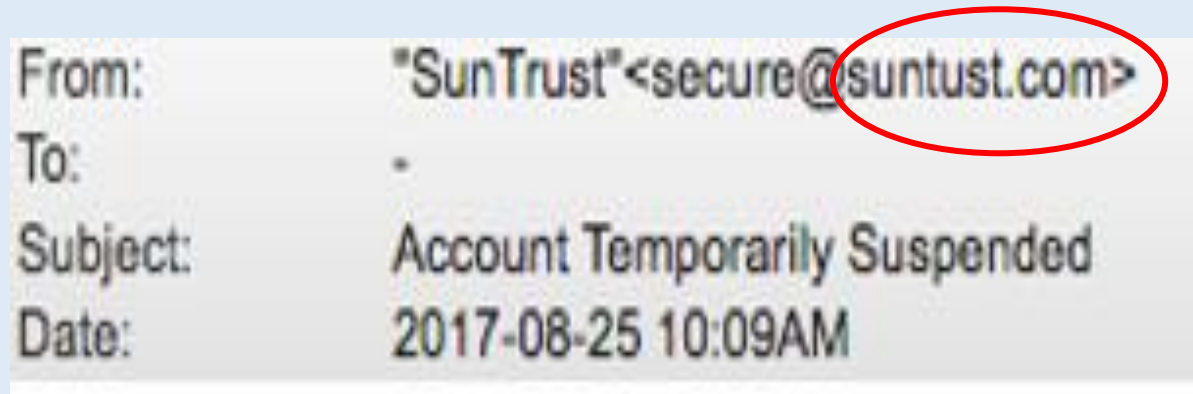
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A. How To Recognize Phishing

Here's a real world example of a phishing email

How can you tell it's fake

- First, look for spelling or grammatical errors. In the example, you'll see that the sentence "We recently contacted you after noticing on your online account, which is been accessed unusually" doesn't really make any sense.
- If you hovered over the Suntrust.com link in the live version of the image above, you'd see a link to a shortened URL at bit.ly. If you unshorten that link, you'll discover that it leads to a pet-food company in Israel, not to SunTrust.



How To Tune-Up Your PC and Keep It Virus Free



A. How To Recognize Phishing

Here's a real world example of a phishing email

Coupon Scams

Coupon scams try to get you to ignore your common sense by offering a truly great deal — and that's the very first sign of a scam. Let's consider some examples from the past few years:

- \$100 anniversary coupon from Kohl's
- \$75 coupon from Costco
- 50% off your entire purchase at Target
- \$100 off at ALDI
- \$75 off any purchase at Bed Bath & Beyond
- \$50 off at Lowe's

How To Tune-Up Your PC and Keep It Virus Free

A. How To Recognize Phishing

Here's a real world example of a phishing email

confirmation Receipt! Inbox x

congrats!_L_S_M@up1ik2p4.ziess.com via gmail.com
to dokfo9stah

Aug 25, 2021, 5:56 PM

[RE:valsad2000 Congrats! You've received a Costco reward You have been acc...](#)

Costco
Satisfaction Survey

We Want
Your
Opinion

- Reply
- Reply to all
- Forward
- Print
- Block "congrats!.."**
- Report spam
- Report phishing
- Show original
- Translate message
- Download message
- Mark as unread

How To Tune-Up Your PC and Keep It Virus Free

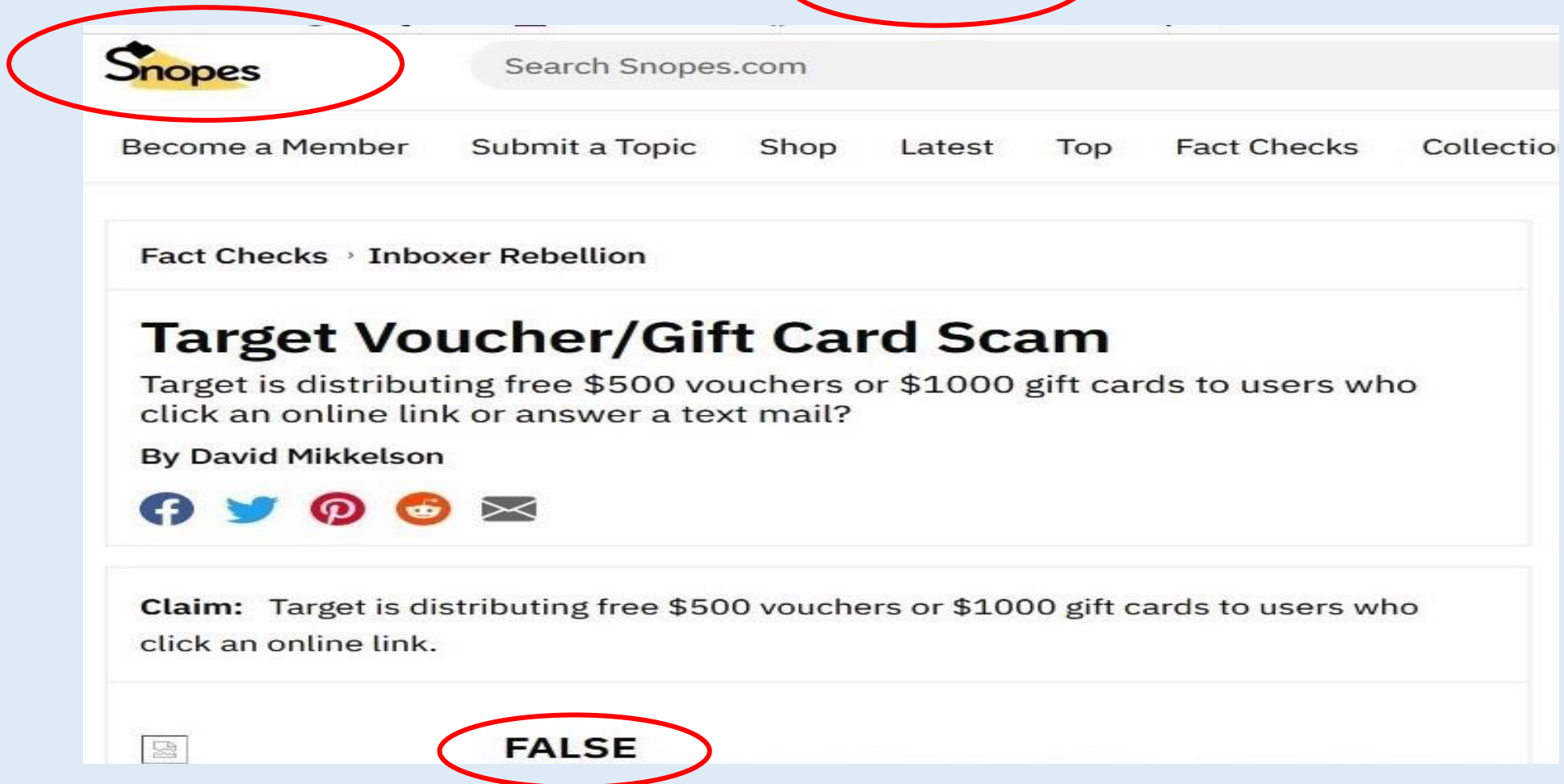
A. How To Recognize Phishing

Here's a real world example of a phishing email

Coupon Scams

How can you tell it's fake?

Research on **SNOPE.SCOM**



The screenshot shows the Snopes website interface. The Snopes logo is circled in red. The search bar contains the text "Search Snopes.com". The navigation menu includes "Become a Member", "Submit a Topic", "Shop", "Latest", "Top", "Fact Checks", and "Collection". The main content area is titled "Fact Checks › Inboxer Rebellion" and features a large heading "Target Voucher/Gift Card Scam". Below the heading, the text reads: "Target is distributing free \$500 vouchers or \$1000 gift cards to users who click an online link or answer a text mail?". The author is listed as "By David Mikkelson". There are social media sharing icons for Facebook, Twitter, Pinterest, and Reddit, along with an email icon. A "Claim:" section states: "Target is distributing free \$500 vouchers or \$1000 gift cards to users who click an online link." At the bottom of the article, the word "FALSE" is circled in red, indicating the scam is not real.

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A. How To Recognize Phishing

Here's a real world example of a phishing Message on FB



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Phishing

Scammers use email or text messages to trick you into giving them your personal information. But there are several things you can do to protect yourself.

A. How To Recognize Phishing

B. How To Protect Yourself From Phishing Attacks

C. What To Do if You Suspect a Phishing Attack

D. What To Do if You Responded to a Phishing Email

E. How To Report Phishing

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B. How To Protect Yourself From Phishing Attacks

Four Steps To Protect Yourself From Phishing

1. **Protect your computer by using security software.** Set the software to **update automatically** so it can deal with any new security threats.
2. **Protect your mobile phone by setting software to update automatically.** These updates could give you critical protection against security threats.
3. **Protect your accounts by using multi-factor authentication.** Some accounts offer extra security by requiring two or more credentials to log in to your account. This is called multi-factor authentication. The additional credentials you need to log in to your account fall into two categories:

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B. How To Protect Yourself From Phishing Attacks

Four Steps To Protect Yourself From Phishing (continue)

3. Protect your accounts by using **multi-factor authentication** (continue)

The additional credentials you need to log in to your account fall into two categories:

- Something you have — like a passcode (OTP) you get via an authentication app or a security key.
- Something you are — like a scan of your fingerprint, your retina, or your face.

Multi-factor authentication makes it harder for scammers to log in to your accounts if they do get your username and password.

4. **Protect your data by backing it up.** Back up your data and make sure those backups aren't connected to your home network. Such as an external hard drive

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Phishing

If you get an email or a text message that asks you to click on a link or open an attachment, answer this question:

Do I have an account with the company or know the person that contacted me?

- **If the answer is “No,”** it could be a phishing scam. Go back and review the tips in How to recognize phishing and look for signs of a phishing scam. If you see them, report the message and then delete it.
- **If the answer is “Yes,”** contact the company using a phone number or website you know is real. Not the information in the email. Attachments and links can install harmful malware.

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Phishing

D. What To Do if You Responded to a Phishing Email

- If you think a scammer has your information, like your Social Security, credit card, or bank account number, go to [IdentityTheft.gov](https://www.identitytheft.gov). There you'll see the specific steps to take based on the information that you lost.
- If you think you clicked on a link or opened an attachment that downloaded harmful software, update your computer's security software. Then run a scan.

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Find out if you're compromised

The aptly named "Have I Been Pwned?" lets you know if your email address or phone appears in a compromised database.

';--have i been pwned?

Check if you have an account that has been compromised in a data breach

et@yahoo.com

Oh no — pwned!

Pwned on 8 breached sites and found 1 paste (subscribe to search sensitive breaches)

Notify me when I get pwned Donate

If it does, don't panic: Remember that many of the sources in that database are years old. For example, one of my email addresses was indeed "pwned," but it was in the Dropbox breach of 2012 -- and I've long since changed my password there.

Of course, it certainly wouldn't hurt to change the password on any site(s) detected here. (Pro tip: Click **Notify me when I get pwned** so you can be informed if and when your email appears in the next breach.)

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Phishing

Scammers use email or text messages to trick you into giving them your personal information. But there are several things you can do to protect yourself.

- A. How To Recognize Phishing
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- E. How To Report Phishing**

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Phishing

E. How To Report Phishing

If you got a phishing email or text message, report it. The information you give can help fight the scammers.

Step 1. If you got a phishing email, forward it to the Anti-Phishing Working Group at reportphishing@apwg.org. If you got a phishing text message, forward it to SPAM (7726).

Step 2. Report the phishing attack to the FTC at [ReportFraud.ftc.gov](https://www.ftc.gov/identity-theft).

Step 3. On Gmail (3 dot on top right corner for Reply, Forward etc.) – Report Phishing & Block Sender

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A. How To Recognize Phishing

Here's a real world example of a phishing email

confirmation Receipt! Inbox x

congrats!..I_S_M@up1ik2p4.ziess.com via gmail.com
to dokfo9stah

Aug 25, 2021, 5:56 PM

[RE:valsad2000 Congrats! You've received a Costco reward You have been acc](#)

Costco
Satisfaction Survey

We Want Your Opinion

- Reply
- Reply to all
- Forward
- Print
- Block "congrats!.."
- Report spam
- Report phishing
- Show original
- Translate message
- Download message
- Mark as unread

How To Tune-Up Your PC and Keep It Virus Free



TOPICS



1. Computer Basics
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14. What is VPN (Virtual Private Networks)?

How To Tune-Up Your PC and Keep It Virus Free



How to Avoid Internet Scams

You should be aware of the recent internet scams, do not instantly fill any form, click on email link from unknown sender

1. Avoid buying products from untrusted websites.
2. Always check the **URL** in the browser address bar to make sure the site isn't a phishing website.
3. Don't take part in surveys offering you free money or gifts.
4. Double **verify** the credibility of the website where you are paying.
5. Don't pay to anyone **over the phone** who claims to be from a Government office.
6. Don't click on Ads that read "**Your computer is infected with a virus**".
7. Never reply to the SPAM emails and don't go their website.
8. Do proper research before investing in any cryptocurrency.
9. Don't fall for **easy money making** websites, you won't get anything.

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How to Avoid Internet Scams (continue)

You should be aware of the recent internet scams, do not instantly fill any form, click on email link from unknown sender

10. Make your password harder to hack
11. Change your password regularly
12. Clear your browser history
13. Do not use free Wi-Fi
14. Use HTTPS - ("hyper-text transfer protocol secure." HTTPS adds encryption.
15. Watch what you click (phishing)
16. Try not to use public computers
17. Use anti-virus protection
18. Be careful while using thumb drive

How To Tune-Up Your PC and Keep It Virus Free



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10. Tips to prevent being hacked

Secret Questions

Secret Question 1:

Your Answer:

Secret Question 2:

Your Answer:



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10. Tips to prevent being hacked

Two Factor Authentication



How To Tune-Up Your PC and Keep It Virus Free



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11. Strong Passwords

How Secure is Your Password - ghacks.net

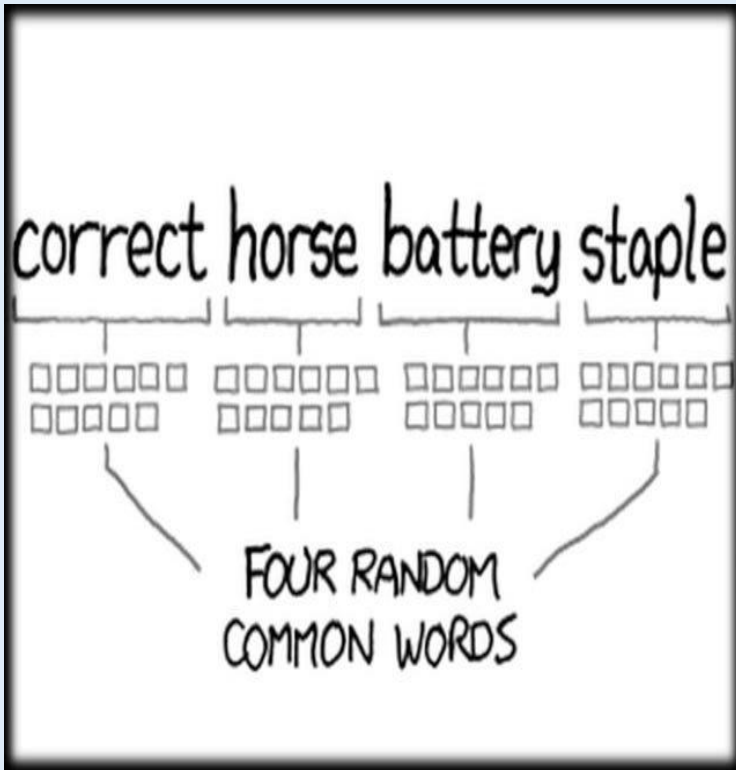
number of Characters	Numbers only	Upper or lower case letters	upper or lower case letters mixed	numbers, upper and lower case letters	numbers, upper and lower case letters, symbols
3	Instantly	Instantly	Instantly	Instantly	Instantly
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	3 secs	10 secs
6	Instantly	Instantly	8 secs	3 mins	13 mins
7	Instantly	Instantly	5 mins	3 hours	17 hours
8	Instantly	13 mins	3 hours	10 days	57 days
9	4 secs	6 hours	4 days	1 year	12 years
10	40 secs	6 days	169 days	106 years	928 years
11	6 mins	169 days	16 years	6k years	71k years
12	1 hour	12 years	600 years	108k years	5m years
13	11 hours	314 years	21k years	25m years	423m years
14	4 days	8k years	778k years	1bn years	5bn years
15	46 days	212k years	28m years	97bn years	2tn years
16	1 year	512m years	1bn years	6tn years	193tn years
17	12 years	143m years	36bn years	374tn years	14qd years
18	126 years	3bn years	1tn years	23qd years	1qt years

Amount of time to crack your password

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11. Strong Password - Ideas



PASSWORD TIPS

- 1**
Don't rely on passwords alone to protect anything you value. **Turn on multi-factor authentication wherever possible.**
- 2**
Use a phrase with multiple words that you can picture in your head, so it's difficult to guess but easy to remember.
- 3**
Protect your most important accounts, like banking and primary email, by giving each a **unique passphrase.** A password manager can help.

Icons: A smartphone and a fingerprint icon, a sun, a person walking, a cloud with rain, and a car, a password field with asterisks and an envelope icon, and a password field with asterisks and a bank icon.

Example Password: **sunwalkraindrive**

NIST National Institute of Standards and Technology
U.S. Department of Commerce

www.nist.gov

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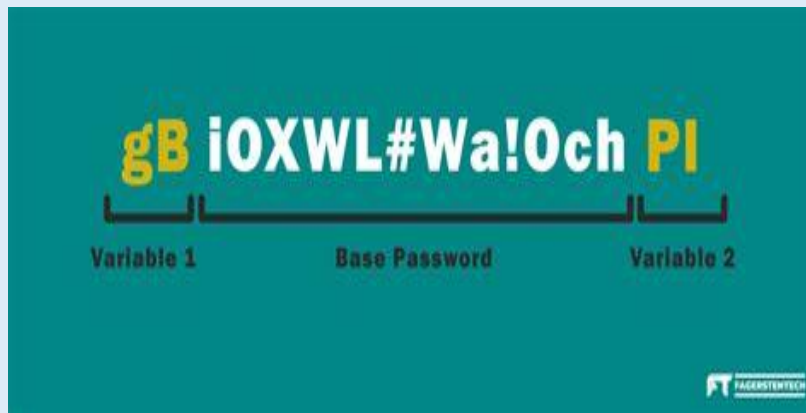


11. Strong Password - PassWord vs PassPhrase

“The first house I ever lived in was 613 Fake Street. Rent was \$400 per month.”

You can turn that sentence into a password by using the first digits of each word, so your password would become

Tfhleliw613FS.Rw\$4pm.



An easy way to make each password unique

- Add a letter or two to the password based on the name of the site you're logging into. For example
- Amazon: **a**lmSMaLHSi#91**z** (added an A to beginning and a z to end)
- Google: **g**lmSMaLHSi#91
- Twitter: **t**lmSMaLHSi#91**r**



ConnectSafely
Smart Socializing Starts Here™

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11. Strong Password - PassWord vs PassPhrase

strong password idea generator

2 word ideas {
• animal • color • team • car model • celebrity name
• food • game • hobby • title (movie, book, show, etc.)

+

1 number idea {
• year • statistic (e.g., RBI, GDP) • lucky number
• scientific constant • random number • age



+

1 capital letter {
• or more • in a rAndom spot





How To Tune-Up Your PC and Keep It Virus Free



11. Strong Password - PassWord vs PassPhrase

Your password should contain

 uppercase letters	 lowercase letters	 numbers	 special characters
---	--	--	--

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12. Browser security & privacy settings



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Chrome	Safari	Edge	Firefox	IE	Opera
59.32%	18.34%	11.77%	6.13%	2.04%	1.21%

Desktop Browser Market Share in United States Of America - June 2021

Private Web Browsing

Consider using your browser's private-browsing or do-not-track features when you do not want information saved to your device about the sites and pages you have visited.

- **Google Chrome.** Go to "**incognito mode**"
- **Mozilla Firefox.** Go to "**private browsing**"
- **Microsoft Edge.** Go to "**InPrivate Window**"
- **Apple Safari.** Go to "**private browsing**"

Private Searching

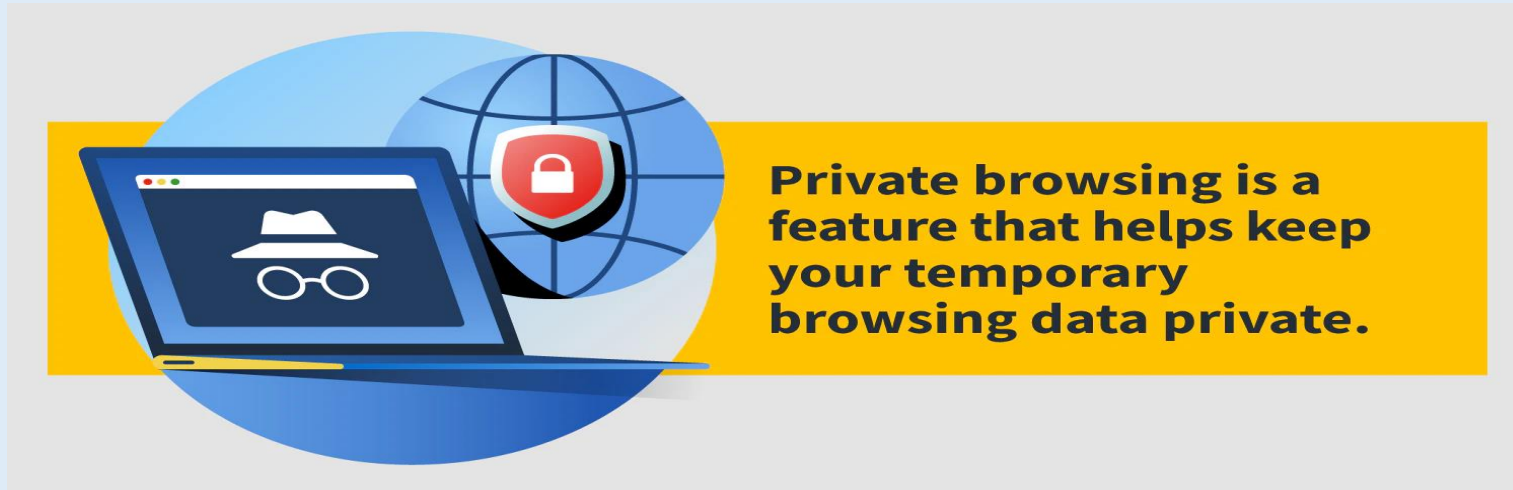
Consider using a search engine that does not track your searches, such as one of these:

- **DuckDuckGo**

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12. Browser security & privacy settings



Private browsing modes won't retain your temporary browsing data — browsing history, search records, and cookies — which could otherwise be saved by the web browser.

Cookies: The purpose of the computer cookie is to help the website keep track of your visits and activity.



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12. Browser security & privacy settings

Private Searching

Difference Between Google and Duckduckgo

	
Google tracks you.	Duckduckgo don't track you.
Collect private user information.	Donot collect User information.
Google trackers lurking every where.	Block all trackers outside.
Get biased results.	Unbiased outputs.
trap in ecosystem	Minimal advertisements.
Donot control over personal data.	Respect privacy.



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12. Browser security & privacy settings

Browser settings you may want to change

- All browsers can use settings tweaks. Make these adjustments ASAP in Chrome, Safari, Edge, Firefox.
- For instance, try **DuckDuckGo**. DuckDuckGo is a longtime favorite for its refusal to track user searches.
- Other options that boost privacy include **disabling your browser's location tracking** and search engine **autocomplete features**, **turning off password autofills**, and regularly **deleting your browsing history**.
- If you want to take your privacy to the next level, consider trying one of the virtual private networks (**VPN**) that work with all browsers.

12. Browser security & privacy settings



In the three-dot menu in Chrome, you can block third-party cookies by selecting **Settings** scrolling down to the **Privacy and security** section clicking **Cookies and other site data**. select **Block third-party cookies**.

click **Preferences**, then **Privacy**. The box beside **Prevent cross-site tracking** should be checked.

You can also manually delete your cookies. Click **Manage Website Data** to see which sites have left their trackers and cookies hanging out in your browser.

Remove All at the bottom of your screen.

Check the box beside **Block all cookies**.

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12. Browser security & privacy settings



Within Edge, select the three dot menu icon in the top right corner and select **Settings**.

From the menu that then appears on the left, select **Privacy and services**.

The **Basic setting** will block trackers used for cryptomining and fingerprinting.

By default, Edge uses the **Balanced setting**, which blocks trackers from sites you haven't visited

Edge's **Strict setting** may interfere with how some sites behave, but will block the greatest number of trackers.



Firefox's default privacy settings are more protective than those of Chrome and Edge,

From inside the three lined menu on the right side of the toolbar -- select **Preferences**.

Click **Privacy & Security**.

Standard Option, the default Firefox setting, blocks trackers in private windows, third party tracking cookies and cryptominers.

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Article no. 6
July, 2021

What is 5G? The layman's guide

by Dilip Desai

5G

What is 5G? In the last four decades, mobile phones, more than any other technology, have quietly changed our lives forever. 5G is the fifth-generation mobile communications network. The 5G specification was developed by the "The 3rd Generation Partnership Project (3GPP)", an industry standards body uniting seven telecommunications standard development organizations. Every ten years or so, mobile networks get a technology upgrade standard. 5G cellular mobile network uses different radiofrequency (RF) waves than 4G. The big benefits of 5G over 4G are increased capacity, higher bandwidth, and higher speeds.



go down to 1 millisecond (1ms) with 5G. Just think about it. A millisecond is 1/1000 of a second. The average reaction time for humans to a visual stimulus is 250 ms or 1/4 of a second. Imagine now that your car could react 250 times faster than you. Imagine it could also respond to hundreds of incoming information and can also communicate its reactions back to other vehicles and road signals all within milliseconds. At 60 mph (100km/h), the reaction distance is about 33 yards (30 meters) before you pull on the brakes. With a 1ms reaction time, the car would only have rolled a bit more than one inch (less than 3 centimeters). 5G is being designed with flexibility in mind, to support future services and applications that may not even exist today.

5G Applications: 5G is very much in a fluid state, and no one is quite sure exactly what it's going to be yet. The best way to describe what 5G is, is to describe the problems it hopes to solve. 5G is a broad term. Generally speaking, it has applications in three fields: 1) Mobile data and voice, 2) Enterprise solutions, 3) Internet of Things (IoT) connectivity. 5G for smartphone users deals with the Mobile data and voice. The enterprise sector will, no doubt, benefit from it as well, with applications in industries such as driverless cars, smart cities, uses in the medical sector such as robotics telesurgery surgery, smart machinery, smart manufacturing, coordinated drones carrying out search and rescue mission, simultaneous translating etc. With respect to the IoT connectivity, the telecommunications and mobile industries hopes that 5G will connect IoT devices in massive numbers. Everything around us will be connected. Will it happen? Possibly.

How does 5G will affect our daily life? Industry players claim 5G can be 100 times faster than 4G and that a huge number of devices will be able to connect to the network simultaneously.

What is the FCC's role in 5G? The FCC is pursuing a comprehensive strategy to facilitate U.S. 5G deployment. This strategy includes three key components: pushing more spectrum into the marketplace; updating infrastructure policy; and modernizing outdated regulations.

So how fast could 5G be? According to communication principles, the shorter the frequency, the larger the bandwidth. The use of shorter frequencies is why 5G can be faster. A feature-length movie download with 4G can take almost six minutes. With 5G, the same movie can be downloaded in as little as 15 seconds. This high-band 5G range provides the expected boost not only in speed but also in capacity, low latency (the delay between the sending and receiving information), and quality. However, 5G download speed may differ widely by area. 5G technology offers an extremely low latency rate. From 200 milliseconds for 4G, we



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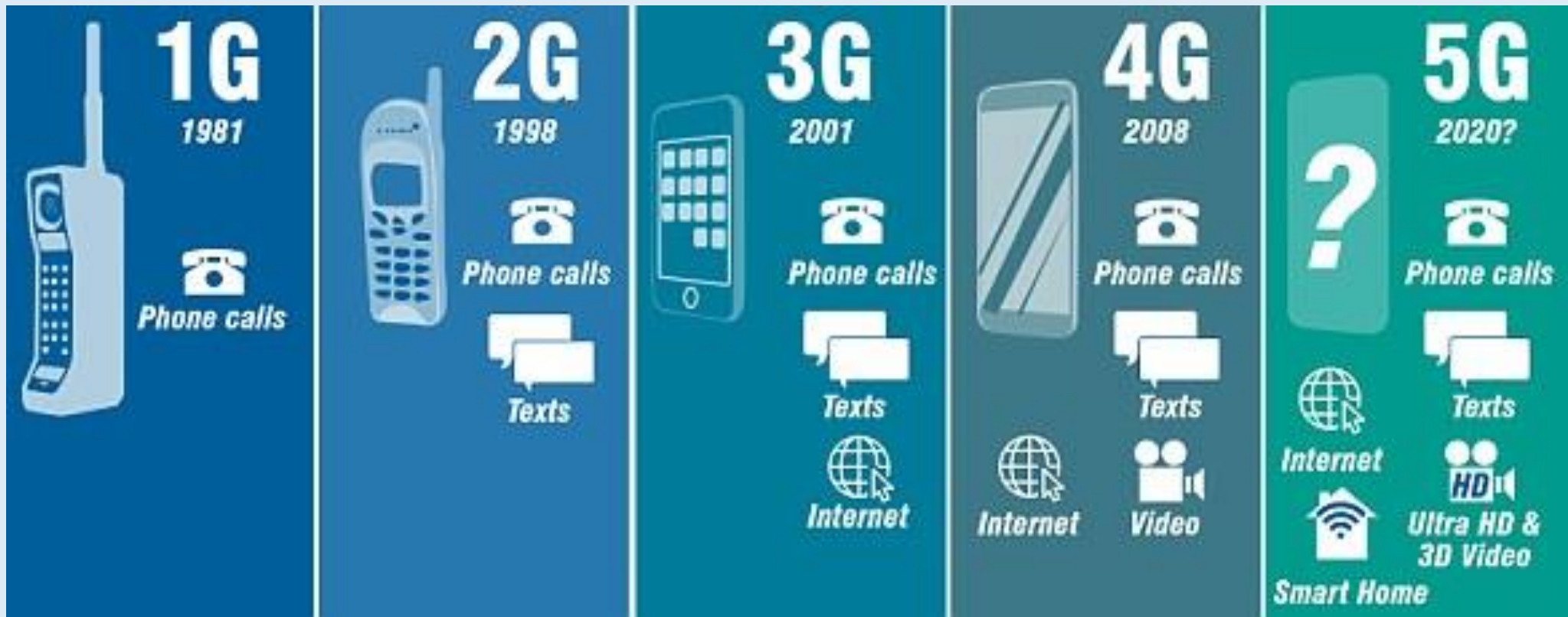
What is 5G?

In the last four decades, mobile phones, more than any other technology, have quietly changed our lives forever.

- 5G is the **fifth-generation mobile communications network**. The 5G specification was developed by the “The 3rd Generation Partnership Project (3GPP)”, an industry standards body uniting seven telecommunications standard development organizations.
- Every ten years or so, mobile networks get a technology upgrade standard.
- 5G cellular mobile network **uses different radiofrequency (RF) waves than 4G**.
- The **big benefits of 5G over 4G are increased capacity, higher bandwidth, and higher speeds**.

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5G Evolution



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So how fast could 5G be?

- The **shorter the frequency, the larger the bandwidth** → why 5G can be faster.
- A feature-length movie download - **4G almost six minutes - 5G as little as 15 seconds.**
- 5G High Band's expected boost in **speed, capacity, low latency** (the delay between the sending and receiving information), **and quality.** **5G download speed may differ by area.**
- 5G technology offers an extremely **low latency rate.** From 200 milliseconds for 4G, to 1 millisecond (1ms i.e. 1/1000 of a second) with 5G. The average reaction time for humans to a visual stimulus is 250 ms or 1/4 of a second.

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So how fast could 5G be? (continue)

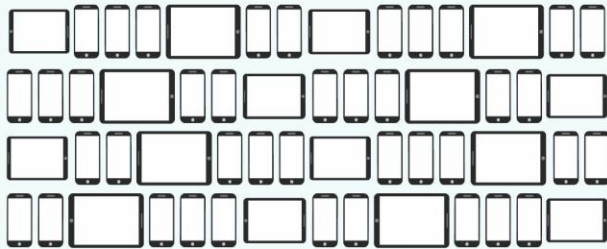
- Imagine now that your **car could react 250 times faster than you**. Imagine it could also respond to hundreds of incoming information and can also communicate its reactions back to other vehicles and road signals all within milliseconds.
- At 60 mph (100km/h), the reaction distance is about 33 yards (30 meters) before you pull on the brakes. With a 1ms reaction time, the car would only have rolled a bit more than one inch (less than 3 centimeters).
- **5G** is being designed with flexibility in mind, **to support future services and applications that may not even exist today**.

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5G Applications

More data



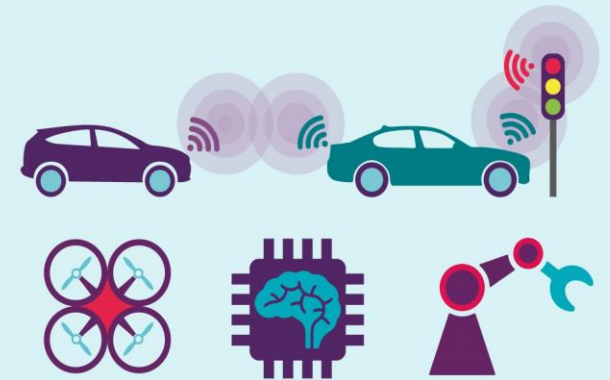
Improved consumer experience
More connected devices
Faster connection speeds
Virtual and Augmented Reality

More devices



e-health
Transport & logistics
Environmental monitoring
Smart energy networks
Smart agriculture, smart retail

Instant response



Vehicle-to-everything communication
Drone delivery
Remote control
Smart manufacturing

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5G Applications

5G is very much in a fluid state, and no one is quite sure *exactly* what it's going to be yet. **The best way to describe what 5G is, is to describe the problems it hopes to solve.**

Generally speaking, it has applications in three fields:

- A. Mobile data and voice for smartphone users
- B. Enterprise solutions
- C. Internet of Things (IoT) - connect devices in massive numbers - Everything around us will be connected

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5G Applications

5G for the enterprise sector will benefit with applications in industries such as:

- 1. driverless cars** - make a car "intelligent" enough to safely drive without human participation
- 2. smart cities** - improve energy distribution, streamline trash collection, decrease traffic congestion, and improve air quality with help from the IoT
- 3. smart machinery** – smart farming, smart port
- 4. smart manufacturing** - connections with many wireless sensors - connect just about anything
- 5. simultaneous translating** - companies message faster—irrespective of language client speak
- 6. uses in the medical sector such as robotics telesurgery** - Ultra-remote laparoscopic surgery can be performed safely and smoothly with 5G wireless network connection
- 7. coordinated drones, thermal camera** - search and rescue mission, delivery, traffic control, fire fighting

Is 5G Harmful to People?

- 5G works by using higher frequencies on the electromagnetic spectrum.
- Before 5G was launched, these higher frequencies weren't used in mobile networks. They are typically used in devices like security scanners.
- According to the WHO, there is limited research on the frequencies used in 5G.
- Jury is still out on the effects of 5G on People health.
- There are many conspiracy theories on 5G such as it spreads Covid, kills birds etc.!
- Snopes.com has many theories debunked and classified as "False"

How To Tune-Up Your PC and Keep It Virus Free



TOPICS

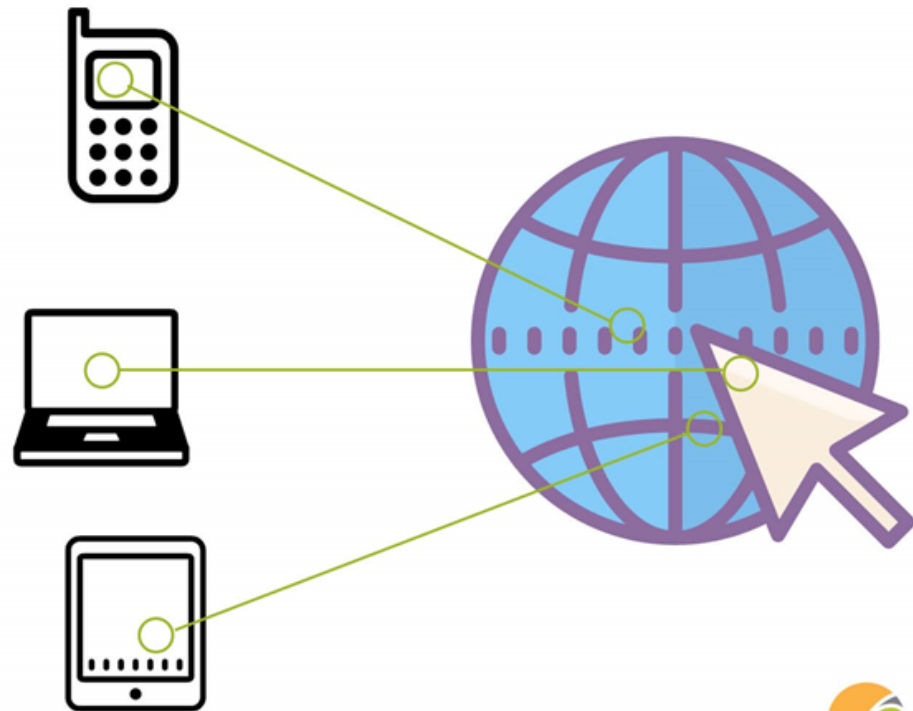


1. Computer Basics
2. What is my computer configuration?
3. Basic Steps to take to speed up a slow computer – What & How
4. Symptoms of an infected computer
5. Types of viruses
6. Anti-virus software and comparison
7. Top 10 scams and frauds of 2021
8. What is Phishing - How to Recognize with examples, How to Protect, What to Do if Suspect a Phishing Attack, What to Do if Responded to a Phishing Email, Where to Report
9. How to avoid internet scams
10. Tips to prevent being hacked
11. Strong Password ideas & tips
12. Browser security & privacy settings
13. What is 5G?
- 14. What is VPN (Virtual Private Networks)?**

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**VIRTUAL
PRIVATE
NETWORK**



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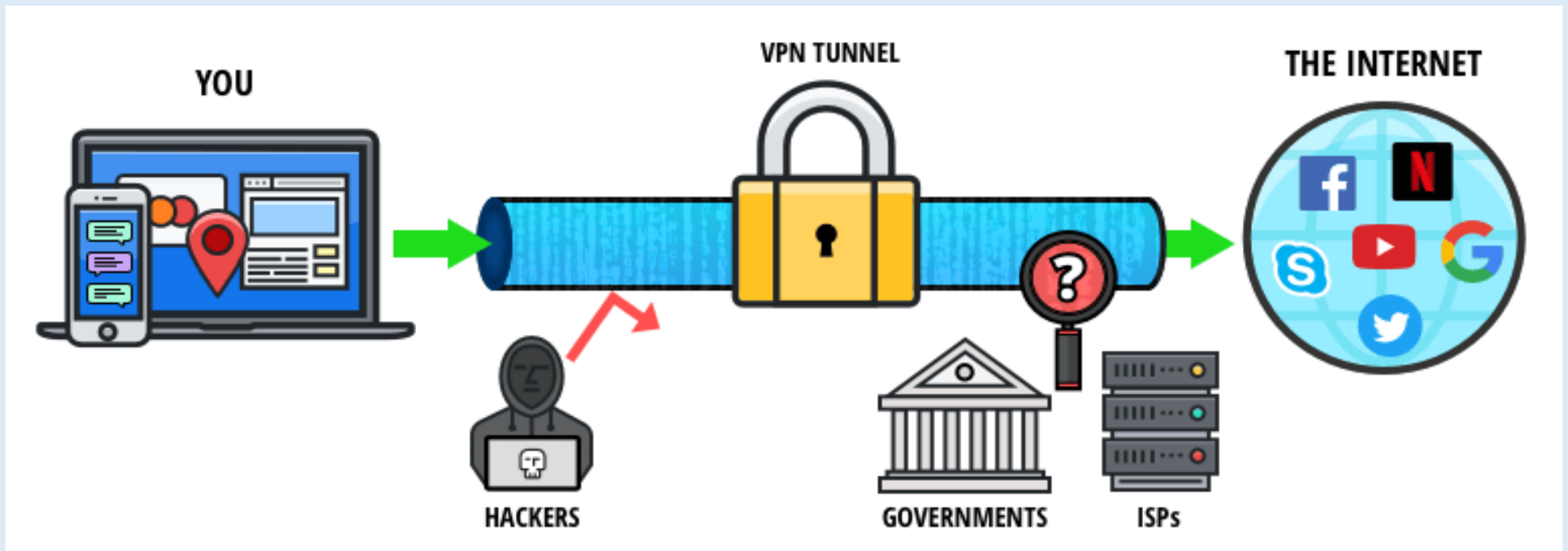
What is VPN?

- A virtual private network (VPN) gives you **online privacy** and **anonymity** by creating a private network from a public internet connection.
- VPNs **mask** your internet protocol (IP) address so your **online actions are virtually untraceable**.
- Most important, VPN services **establish secure and encrypted connections** to provide greater privacy

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Brief Overview of How it Works



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Brief Overview of How it Works

Pretty Good Privacy (**PGP**) is an encryption system used for both sending encrypted emails and encrypting sensitive files. Since its invention back in 1991, PGP has become the de facto standard for email security.

HOW PGP ENCRYPTION WORKS



1. User A wants to send User B a private email
2. User B generates a public and private key
3. User B keeps the private key and sends back the public key
4. User A encrypts their message using the public key
5. User A sends the private encrypted message
6. User B decrypts the message with the private key

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Four Critical Functions

- **Authentication** – validates that the data was sent from the sender.
- **Access control** – limiting unauthorized users from accessing the network.
- **Confidentiality** – preventing the data to be read or copied as the data is being transported.
- **Data Integrity** – ensuring that the data has not been altered



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**Anyone who stops
learning is old,
whether at twenty or
eighty.**

**Anyone who keeps
learning stays young.**



Henry Ford

