Free Computer Help

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Internet Security for the home

Internet Security for the home

Michael Daley

Master Degree Computer Information Systems

Worked for 38 years as a Computer Engineer for IBM & Hugh/Raytheon Missile Systems.

I became "the guy" all my

family – neighbors – ward – friend of a friend

used to fix and repair their computers

Internet Security for the home

My Number One Qualification

I am a

Computer Nerd

Audience Computer History / Information

- ## What Operating Systems are you using?
  - Windows
  - MAC OS
  - Linux (Version)
  - Chrome OS
  - Other ?

- ## What is your "Experience Level"?
  - Master
    - You know it all
  - Intermediate
    - You know enough to stay out trouble
    - You know enough to be dangerous
  - Beginner
    - You do not know what you know

Why are Hackers out to infect your computer?

Why are Hackers out to infect your computer

- Bragging right

- Training / Practice

- Money!!!

Will my computer need protection?

- If a computer is not used for banking is it still at risk?

- If the computer is not left on, when not in use, is it still at risk?

- I have an Apple or Linux or Chrome computer, is it at risk?
  - Hackers are only attacking Windows computers. Right?

- I have never had a virus before, why do I need to protect my computer?

Why do we need to protect our computer?

- Your computer contains information that could be used for **Identity Theft**. This include you and all the user and well as all of you contacts

- An unprotected computer could be infected with a virus in less then ten(10) minutes. And that is assuming you are not surfing the web or reading email.

- While an Apple, Linux and Chrome computer can not be infected by a virus, but they have no protection from Trojan-Horse, Scripts and Malware.

- Computer Hacks against Apple Computer have been very successful because of the *lack of anti-virus and malware protection*.

- Many computers have virus and malware without the user knowing.

What are we protect our computer against?

- **Virus** — Designed to spread from computer to computer
- **Trojan Horse** — A malicious program that look like something useful
- **Worms** — A stand alone malicious program that can replicate
- **Key loggers** — Record each key stroke type on a computer
- **Back doors** — Method to bypass password and logins
- **Ransomware** — Program keep you from your data until a ransom
- **Bots** — Program take command from outside the computer.
- **Malware** — Any program that does not act in the interest of the users.

How do computer get infected?

- Computer Download

- Being connected to a computer that is infected.

- Going to a web site that has be infected

- Using infected devices (usb drives, floppy disk)

- Email Attachments

How to protect your computer

- Keep your computer operation system up-to-date

- Anti-Virus programs

- Anti-Malware programs

- Passwords

- Firewalls

- Backup
  - Data
  - Full System

- Watch for unusual behavior

Keep computer operating system up-to-date

- Use a Supported Operating System
  - Windows XP is unsupported
  - Windows 7 is unsupported
  - All Windows OS below 10 are or will soon be unsupported.
  - Mac OS 10.14 and lower are unsupported.
  - Chrome OS device older than 5 years old
- Set computer setting to automatically load updates
  - If this is not practical, do manual update on a regular schedule
    - Company put out update every two(2) weeks or when necessary
- Restart computer after updates and patches.

Anti – Virus Programs

- There are many paid and free versions to choose from
  - Paid versions require a yearly cost
  - Free versions can be used for home use at no cost
  - Free versions will have limited functions and commercials and popup
- To help choose which program is best for you
  - Do google search (Antivirus Review 2022)
  - Use review from pcmag.com, TechRadar.com and tomguide.com
  - Several review web site are advertisement disguised as a review.
  - Many program that say they are anti-virus are really malware
- Free versions are to only be used for home use only, no business use

PC   REVIEWS   BEST PICKS   HOW-TO   NEWS   SMART HOME   BUSINESS   SHOP

What are you looking for?

Reviews | Software | Security | Antivirus Software

The Best Antivirus Protection for 2019

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   July 16, 2019 10:52AM EST

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Product	McAfee AntiVirus Plus	Symantec Norton AntiVirus Plus	Webroot SecureAnywhere AntiVirus	Bitdefender Antivirus Plus	Kaspersky Anti-Virus	ESET NOD32 Antivirus	Trend Micro Antivirus+ Security	VoodooSoft VoodooShield	The Kure	F-Secure Anti-Virus
	McAfee	Norton	WEBROOT	Bitdefender	kaspersky	eset	TREND MICRO	VoodooShield		F-Secure
Lowest Price	$19.99 McAfee	$39.99 Symantec	$18.99 Webroot	$25.99 Bitdefender	$29.99 Kaspersky Lab	$27.99 ESET North	$29.95 Trend Micro	$19.99 VoodooSoft	$19.99 MSRP	$39.99 F-Secure
	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT		SEE IT
Editors' Rating	●●●●○ EDITORS' CHOICE	●●●●○	●●●●● EDITORS' CHOICE	●●●●● EDITORS' CHOICE	●●●●● EDITORS' CHOICE	●●●●○	●●●●○	●●●●○	●●●●○	●●●○○
On-Demand Malware Scan	✓	✓	✓	✓	✓	✓	✓	—	—	✓
On-Access Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	—	✓
Website Rating	✓	✓	✓	—	✓	—	✓	—	—	—
Malicious URL Blocking	✓	✓	✓	✓	✓	✓	✓	—	—	✓
Phishing Protection	✓	✓	✓	✓	✓	✓	✓	—	—	—

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The Best Free Antivirus Protection for 2019

Even if you're running Windows 10, you shouldn't rely on Microsoft's security tools. Many free third-party security apps are more effective at keeping you safe. We've tested 17 no-cost services to help you find the best free antivirus for protecting your PC.

By Neil J. Rubenking   July 16, 2019 10:43AM EST

f t in p reddit F email link   52 SHARES

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Product	Avast Free Antivirus	Kaspersky Free	AVG AntiVirus Free	Bitdefender Antivirus Free Edition	Check Point ZoneAlarm Free Antivirus+	Avira Antivirus	Sophos Home Free	adaware antivirus free 12	Microsoft Windows Defender Security Center	Qihoo 360 Total Security 8.6
	avast	kaspersky	AVG	Bitdefender	ZoneAlarm by Check Point	Avira	SOPHOS HOME	adaware keep on connecting	Microsoft	
Lowest Price	Free	Free	$63.99	Free	Free	$0.00	Free	Free	Built into Windows 10	$0.00
	AVAST Software	Kaspersky Lab	AVG (20% Off)	Bitdefender	ZoneAlarm	MSRP	Sophos	Lavasoft	Microsoft	MSRP
	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT		SEE IT	SEE IT	SEE IT	
Editors' Rating	●●●●◗	●●●●◗	●●●●○	●●●●○	●●●○○	●●●◗○	●●●◗○	●●●○○	●●●○○	●●●○○
	EDITORS' CHOICE	EDITORS' CHOICE								
On-Demand Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Access Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

List of rogue security software

From Wikipedia, the free encyclopedia

> 🧹 This article contains **embedded lists** that **may be poorly defined, unverified** or **indiscriminate**. Please help to clean it up to meet Wikipedia's quality standards. Where appropriate, incorporate items into the main body of the article. *(March 2015)*

The following is a partial list of rogue security software, most of which can be grouped into *families*. These are functionally identical versions of the same program repackaged as successive new products by the same vendor.[1][2]

- ANG Antivirus (knock-off of AVG Anti-virus)[3]
- AntiVermins[4]
- Antivirus 360[5]
- Antivirus 2008[6]
- Antivirus 2009
- Antivirus 2010 (also known as Anti-virus-1)[7],[8]
- AntiVirus Gold or AntivirusGT[9]
- Antivirus Master[10]
- Antivirus Pro 2009[11]
- Antivirus Pro 2010[12]
- Antivirus Pro 2017[12]
- Antivirus System PRO[13]
- Antivirus XP 2008[14]
- Antivirus XP 2010[15]
- AV Antivirus Suite[16]
- AVG Antivirus 2011 (fake version)[17]
- AV Security Essentials[18]
- AV Security Suite[19]
- Awola[20]
- BestsellerAntivirus, Browser Defender[21]
- Blue Frog
- ByteDefender also known as ByteDefender Security 2010 (Knock-off of the legitimate BitDefender Antivirus software)[22]
- Cleanator
- CleanThis[23]
- Cloud Protection[24]
- ContraVirus[25]
- Control Center[26]
- Cyber Security, Core Security[27]
- Data Protection[28]

- HDD Rescue[46][47]
- Home Security Solutions[48]
- IEDefender[49]
- InfeStop[50]
- Internet Antivirus, InstallShield (aka Internet Antivirus Pro, distributed by plus4scan.com)[51]
- Internet Antivirus 2011[52]
- Internet Defender 2011[53]
- Internet Security 2010[54],[55]
- Internet Security 2011[56]
- Internet Security 2012[57]
- Internet Security Essentials[58]
- Internet Security Guard[59]
- Live PC Care[60]
- Live Security Platinum[61]
- Live Security Suite[62]
- Mac Defender[63]
- Mac Protector[64]
- MacSweeper[65]
- MalwareAlarm[66]
- MalwareCore[67]
- MalwareCrush[68]
- Malware Defense[69]
- Malware Protection Center[70]
- Memory Fixer[71]
- MS AntiSpyware 2009 (not to be confused with Microsoft AntiSpyware, now Windows Defender)[72]
- MS Antivirus Microsoft Anti Malware (not to be confused with Microsoft Antivirus or Microsoft Security Essentials)[73]

- Personal Antivirus[91]
- Personal Internet Security 2011[92]
- Personal Security[93]
- Personal Shield Pro[94]
- PC Antispyware[95]
- PC Defender Antivirus[96]
- PC Optimizer Pro
- PCKeeper[97]
- Privacy Center[98]
- Protegent
- Security Shield[99]
- Security Solution 2011[100]
- Security Suite Platinum[101]
- Security Tool[102]
- Security Tool[103]
- Security Toolbar 7.1[104]
- Security Essentials 2010 (not to be confused with Microsoft Security Essentials)[105]
- SpyBouncer
- SpyCrush[106]
- Spydawn[107]
- SpyEraser[108] (Video demonstration)
- SpyGuarder[109]
- SpyHeal (a.k.a. SpyHeals & VirusHeal)[110]
- SpyHunter (software)
- Spylocked[111]
- SpyMarshal[112]
- SpyRid[113]
- SpySheriff (a.k.a. PestTrap, BraveSentry, SpyTrooper)[114]
- SpySpotter[115]

- Sysinternals Antivirus[126]
- System Antivirus 2008[127]
- TheSpyBot (Spybot - Search & Destroy knockoff)[128]
- ThinkPoint[129]
- Total Secure 2009[130]
- Total Win 7 Security[131]
- Total Win Vista Security[132]
- Total Win XP Security[133]
- UltimateCleaner[134]
- Ultra Defragger[135]
- VirusHeat[136]
- VirusIsolator[137]
- Virus Locker[138][139]
- VirusMelt[140]
- VirusProtectPro (a.k.a. AntiVirGear)[141]
- Vista Antivirus 2008[142]
- Vista Home Security 2011[143]
- Vista Internet Security 2012[144]
- Vista Security 2011[145]
- Vista Security 2012[146]
- Vista Smart Security 2010[147]
- Volcano Security Suite[148]
- Win7 Antispyware 2011[149]
- Win Antispyware Center[150]
- Win 7 Home Security 2011[151]
- WinAntiVirus Pro 2006[152]
- WinFixer[153]
- Win HDD[154]
- WinHound[155]
- Winwebsec

Anti-Malware program

- Anti-malware program look for malware not detected by the anti-virus program
- Anti-malware also look for PIS (Privacy Invasive Software)
- Anti-malware also look for PUP (Potentially Unwanted Program)
- Anti-malware programs have paid versions and free versions
- Many commercial or paid versions of anti-virus detect malware also
- Web sites reviews help to find the best program for us
- Free versions are to only be used for home use only, no business use

MSN | Outlook, Office, Skype, Bin...   Mail - MICHAEL DALEY - Outlook   The Best Malware Removal and P...   How to Take Screenshots in Wind...

https://www.pcmag.com/roundup/354226/the-best-malware-removal-and-protection-tools

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What are you looking for?

The Best Malware Removal and Protection Software for 2019

Malware comes in many forms, but one thing's for sure—you don't want it attacking your computer. We've tested nearly 100 anti-malware apps to help you find the the best malware protection and removal software for all your devices.
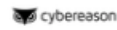
By Neil J. Rubenking   June 27, 2019 1:24PM EST

24 SHARES

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Product	Bitdefender Total Security	McAfee Total Protection	Webroot SecureAnywhere AntiVirus	Symantec Norton 360 With LifeLock Select	Kaspersky Anti-Virus	Bitdefender Antivirus Plus	Kaspersky Internet Security	Check Point ZoneAlarm Anti-Ransomware	Cybereason RansomFree	Malwarebytes Free
	Bitdefender	McAfee	WEBROOT	Norton	kaspersky	Bitdefender	kaspersky	ZONEALARM	cybereason	Malwarebytes
Lowest Price	$44.99	$34.99	$18.99	$99.99	$29.99	$25.99	$39.99	$19.95	$0.00	Free
	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	MSRP	SEE IT
Editors' Rating	●●●●◉ EDITORS' CHOICE	●●●●○	●●●●◉ EDITORS' CHOICE	●●●●●	●●●●● EDITORS' CHOICE	●●●●● EDITORS' CHOICE	●●●●● EDITORS' CHOICE	●●●●● EDITORS' CHOICE	●●●●○	●●●●○
Protection Type	Security Suite	Cross-Platform Suite	Antivirus	Security Suite	Antivirus	Antivirus	Security Suite	Ransomware Protection	Ransomware Protection	Clean-Only Antivirus
On-Demand Malware Scan	✓	✓	✓	✓	✓	✓	✓	—	—	✓

Passwords

- What is a good Password?

- What should I Password Protect?

- Should I use one Password for all of my logins?

- How often should you change your Password?

- How long should a password be (Number of Characters)?

- Should your Password be written down?

- Should I share my Password?

Hackers Top 25 Password 2022

- 123456
- 12345
- qwerty
- welcome
- 123123
- charlie
- qwerty123

password

111111

iloveyou

666666

monkey

aa123456

123456789

1234567

princess

abc123

654321

donald

12345678

sunshine

admin

football

!@#$%^&*

password1

Rules for a Strong Password

- At least eight (8) characters long (fifteen (15) preferred)

- Use no dictionary words

- Mixture of upper and lower letters, numbers, and special characters.
  - Example   E7r9t8@Q#h%Hy+M

- Password must be easy to remember

- Follows the rule of the sign on site
  - Twelve (12) characters long, three (3) upper case, two (2) special characters.

- Use a phase phrase
  - Thequickbrownfox   Th3Qu!c4Br0wnFo#

Rules for a Strong Password cont.

- Do not use any words the would be easily accolated with you
  - Family names, pet names, birthdays, street address, phone numbers
- Do not use the same Password for multiple logins
- Password should not be shared
- If Password are written down, they should be stored in a secure location
- Password should be changed on regular schedule
  - Three (3) to six (6) months
  - When ever you fill a password has been compromised

Same Password for Multiple Logins

- Websites you use could be hacked
  - Your login ID leaked
  - Your Password leaked.

- Use online tool to test if your ID has been leaked.
    - https://haveibeenpwned.com/

- If you ID has been compromised?
  - Change Passwords NOW.

Password Manages

- A password manager stores all your password for you.

- The password manager can generate password following your rules

- The password manager will provide your login name and password when you go to web sight.

- Bro Orman gives a class here at the Genealogical Library
  - Recommend LassPass Free version

Firewall

- A firewall stops unwanted request from outside of your computer or home network.

- A firewall can be ether hardware or software
  - Many routers and switches include a hardware firewall
    - Hardware firewall protect all the computers in a network
  - A software firewall protects only the computer that it run on

- The stopping of unwanted requests prevent spread of cyber attacks

- The firewall can not stop cyber attacks when your computer invites an outside computer to connect for download, browse the web and email.

Firewall

- Windows include a firewall by enabling Window Defender

- Apple computers also include a firewall in the Operating System

- Many Linux version also include a firewall

- Chrome OS include a firewall

- Many payed and free Firewall Programs are available for your OS
    - Need to research which works best for your system

Computer Backups

- Data Backup
  - Photo
  - Important Files
- Full System Backup
  - Clone Drive
  - Restore Drive
  - Differential Backup
  - Incremental Backup

Computer Backups

- Backup Media
    - CD / DVD
    - USB Thumb Drive
    - USB Portable Hard Disk
    - USB External Hard Disk
    - Second Hard Disk (Internal)
    - Online Storage
- Backup Programs
    - Free Backup Software
    - Paid Backup Software
    - Online Backup Subscription

My Software Choices

- Windows Update   Set to Auto Download, Ask for Install

- Anti - Virus   Avast Free Anti-virus

                                             Microsoft Defender

- Anti – Malware   Malwarebytes Free

                                             Adwcleaner

- Firewall   Microsoft Window Defender

- Backup   Acronis True Image   (Paid version)

                                                 Second Hard Disk

                                                 USB External Hard Disk

                                         Clonezilla

                                                 USB External Hard Disk

How Else To Protect Your Computer

- Be careful of which web sites you go to
  - Many misspelled web name are scam and cyber attack sites
    - Ex: Yotub (Youtub), reedit (reddit) twiter(twitter)
  - File Sharing sites
    - Music, Movie, Pictures, Torrent and porn sites
  - Error Popups
    - Error Message Popups download virus and malware when the user hits the "OK" button
    - Error Message Popups ask if you want to repair
    - Error Message Popups redirect you to an anti-virus or repair web sites
      - Install a fake anti-virus or malware program
  - Do not hit a button until you know what the result will be
    - Just because the web or popup tell you to press a button / do not do it.

Become Familiar With Your Computer

- Watch for unexpected Popups

- Long delays for pages to load

- Unable to go to a web site

- Look at the address bar
    - Are you going to the right web site?
    - Hacker can copy a web page, so it look like your usual web page, but it is not.

- You are unable to download upgrades
    - Operating System upgrades
    - Virus and malware upgrades

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