

# COPS Guide - Virus/Malware Removal (Windows)

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## PRE

- **[IMPORTANT]** [Air Gap Device](#)  
*Ensure device is disconnected from all networks before RKill is run successfully and RATs ( Remote Access Tools ) removed, to ensure malicious actors do not re-connect to the device while it's still compromised*
- Enable System Restore (set to 7% allocation if enough free disk space)
- **[OPTIONAL]** Create a new [System Restore](#) point "**COPS - Pre Virus/Malware Removal**"  
*This System Restore point will be wiped out in a later step (post-virus/malware removal), as malware can persist in old System Restore points*
- Restart Windows  
*Force Restart Windows ( shutdown -r -f -t 00 ) now to provide a clean slate for proceeding*
- Create [COPS Folder](#)
- Add [COPS Folder](#) to installed [antivirus exclusions list\(s\)](#)
- Copy Rkill folder from USB Tool to "%SYSTEMDRIVE%\COPS" (RKill can't run from a write-blocked drive)
- Run an Rkill executable as Administrator
- Move Rkill.txt from "%USERPROFILE%\Desktop" to "%SYSTEMDRIVE%\COPS"
- Revo Uninstaller
  - xxx
- Disk Cleanup
  - Run Win+R : cleanmgr /sageset:10  
*This will open the Disk Cleanup utility to create settings for Profile 10*
  - Click Clean up system files
  - Select all checkboxes except for the two **System error** options  
*System error memory dump files + System error minidump files >*  
*(you can click on an option, and then use the UP + DOWN Arrows + Space Bar to quickly check or uncheck options)*
  - Click OK
  - Run Win+R : cleanmgr /sagerun:10  
*This will run the Disk Cleanup utility to using Profile 10's settings`*

## MAIN

- Connect to Internet
- **[OPTIONAL]** [AdwCleaner](#)  
*AdwCleaner crashes out of UVK's automation, so run it now instead if you want to use it*
- **[OPTIONAL]** [Spybot - Search & Destroy](#)  
*Spybot is a thorough malware removal tool, but it can take a very long time to complete it's scans*
- **[OPTIONAL]** [Windows Defender Offline Scan](#)
- **[OPTIONAL]** Create a new System Restore point "**COPS - Pre Virus/Malware Removal**"
- [Ultra Virus Killer \(UVK\)](#)
  - Install UVK
  - Open UVK
    - Do not disable Hybrid Shutdown if asked when opening UVK
    - Do Update UVK if asked when opening UVK
  - Click System Repair

- o Select the following repair actions: *(left menu)*

*(you can click on an option, and then use the UP + DOWN Arrows + Space Bar to quickly check or uncheck options)*

- Pre-Repair Actions

1. Set technician power settings
2. Kill all non system processes
3. Delete all restore points
4. Create a system restore point
5. Free physical memory
6. Backup the registry
7. Un-immunize all areas
8. Disable the User Account Control
9. Enable the legacy (F8) boot menu
10. Enable Windows Recovery Environment
11. Prevent rebooting until all is done - Third-Party Built-in Apps
12. Ultra Adware Killer scan
13. MalwareBytes AntiMalware scan
14. Super AntiSpyware scan
15. RogueKiller scan
16. Kaspersky TDSSKiller scan
17. Avast! Browser Cleanup - Reset Actions
18. Reset the DNS cache
19. Reset the Windows Store
20. Reset all print jobs

- Fixes for Common Windows Problems

*n/a*

- File System Related Actions

21. Rebuild icon cache

- Essential Installes/Updates

*[If Google Chrome is installed:]*

22. Insall/Update Chrome
23. Install uBlock Origin for Chrome

*[If Mozilla Firefox is installed:]*

24. Install/Update Firefox
25. Install uBlock Origin for Firefox
26. Install uBlock Origin for Edge
27. PatchMyPC - Update all apps - Privacy Cleanup
28. Clear all browsers history (all users)
29. Delete browsers cookies (all users)

- Maintenance Actions

30. Empty all users temp folders
31. Empty browsers cache (all users)
32. Unattended disk cleanup

- System Repair and Optimization

*n/a*

- Windows Troubleshooters

*n/a*

- Post-Repair Actions

33. Restore the previous UAC state
34. Restore previous immunization
35. Delete all restore points (post repair)
36. Create restore point (post repair)
37. Reset power settings
38. Uninstall Malwarebytes Antimalware
39. Uninstall Super AntiSpyware
40. Uninstall RogueKiller
41. Uninstall this application
42. Restore normal boot

- Select the following loadout settings: *(right menu)*
  1. Third party full scans
  2. Use unattended mode
- Click Run selected fixes/apps

## POST

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- [OPTIONAL] Create a new System Restore point "COPS - Pre Windows Update"
- Update Windows (no preview updates)
- Update Apps via Microsoft Store
- Update Apps via Windows Package Manager (winget)
  - You can queue up multiple commands using PowerShell by pressing Shift+Enter to add a new line before pressing Enter to execute the commands*
  - winget source update
  - winget upgrade --all --silent
- [OPTIONAL] Create a new System Restore point "COPS - Pre Driver Update"
- Update Drivers (SDIO)
- Verify Drivers (verifier)
  - Turn On Windows Verifier:
    - Run Win+R : verifier
    - Select Create standard settings
    - Click Next
    - Select Automatically select all drivers on this computer
    - Click Finish
    - Restart Windows ( shutdown -r -f -t 00 )
      - Windows Verifier works by stressing out drivers as they're loaded (it is expected that the computer's performance will be impacted while verifier is enabled)*
      - If Windows loads into the desktop OK and does not crash with verifier enabled, then all is good and you can proceed to turn it off*
  - Turn Off Windows Verifier:
    - Run Win+R : verifier
    - Select Delete existing settings
    - Click Finish
    - Restart Windows ( shutdown -r -f -t 00 )
- System Maintenance/Repair
  - You can queue up multiple commands using PowerShell by pressing Shift+Enter to add a new line before pressing Enter to execute the commands*
  - sfc /scannow
  - dism /online /cleanup-image /startcomponentcleanup /resetbase
  - dism /online /cleanup-image /restorehealth
  - sfc /scannow
  - chkdsk /r /scan /perf
- Create a new System Restore point "COPS - Post Virus/Malware Removal"