

6 Firewalls Tested by Comodo LeakTests (Updated and Default Settings)

Malware Security

1. Comodo Free Firewall:

○ 190/340

COMODO LEAKTESTS V.1.1.0.3	
Date	11:44:05 AM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Vulnerable
6. Invasion: RawDisk	Vulnerable
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Vulnerable
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Vulnerable
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Vulnerable
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Vulnerable
25. Impersonation: Coat	Vulnerable
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Vulnerable
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Vulnerable
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	190/340

2. Eset Firewall (From Smart Security 6)

○ 200/340

COMODO LEAKTESTS V.1.1.0.3	
Date	11:46:12 AM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Vulnerable
6. Invasion: RawDisk	Vulnerable
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Vulnerable
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Vulnerable
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Vulnerable
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Protected
25. Impersonation: Coat	Vulnerable
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Vulnerable
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Vulnerable
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	200/340

3. Online Armor Free Firewall (When clicking “allow” on few pop ups)

- 280/340

COMODO LEAKTESTS V.1.1.0.3	
Date	12:00:36 PM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Protected
6. Invasion: RawDisk	Protected
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Protected
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Protected
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Protected
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Protected
25. Impersonation: Coat	Protected
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Protected
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Protected
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	180/340

Online Armor Free Firewall (When clicking “Block” on few pop ups)

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COMODO LEAKTESTS V.1.1.0.3		
Date	11:59:31 AM - 7/22/2013	
OS	Windows Vista SP1 build 7601	
1. RootkitInstallation: MissingDriverLoad		Protected
2. RootkitInstallation: LoadAndCallImage		Protected
3. RootkitInstallation: DriverSupersede		Protected
4. RootkitInstallation: ChangeDrvPath		Protected
5. Invasion: Runner		Protected
6. Invasion: RawDisk		Protected
7. Invasion: PhysicalMemory		Protected
8. Invasion: FileDrop		Protected
9. Invasion: DebugControl		Protected
10. Injection: SetWinEventHook		Vulnerable
11. Injection: SetWindowsHookEx		Vulnerable
12. Injection: SetThreadContext		Protected
13. Injection: Services		Protected
14. Injection: ProcessInject		Protected
15. Injection: KnownDlls		Protected
16. Injection: DupHandles		Protected
17. Injection: CreateRemoteThread		Protected
18. Injection: APC dll injection		Protected
19. Injection: AdvancedProcessTermination		Protected
20. InfoSend: ICMP Test		Protected
21. InfoSend: DNS Test		Protected
22. Impersonation: OLE automation		Protected
23. Impersonation: ExplorerAsParent		Protected
24. Impersonation: DDE		Protected
25. Impersonation: Coat		Protected
26. Impersonation: BITS		Protected
27. Hijacking: WinlogonNotify		Protected
28. Hijacking: Userinit		Protected
29. Hijacking: UIHost		Protected
30. Hijacking: SupersedeServiceDll		Protected
31. Hijacking: StartupPrograms		Protected
32. Hijacking: ChangeDebuggerPath		Protected
33. Hijacking: AppinitDlls		Protected
34. Hijacking: ActiveDesktop		Protected
Score	320/340	

4. Zone Alarm Free Firewall (When clicking “allow” on few pop ups)
- 200/340

COMODO LEAKTESTS V.1.1.0.3	
Date	12:10:18 PM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Protected
6. Invasion: RawDisk	Vulnerable
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Vulnerable
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Vulnerable
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Vulnerable
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Vulnerable
25. Impersonation: Coat	Vulnerable
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Vulnerable
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Vulnerable
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	200/340

Zone Alarm Free Firewall (When clicking “Deny” on few pop ups)

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COMODO LEAKTESTS V.1.1.0.3	
Date	12:11:28 PM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Protected
6. Invasion: RawDisk	Vulnerable
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Vulnerable
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Vulnerable
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Vulnerable
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Protected
25. Impersonation: Coat	Vulnerable
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Vulnerable
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Vulnerable
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	210/340

5. Private Firewall Free:

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COMODO LEAKTESTS V.1.1.0.3	
Date	12:22:01 PM - 7/22/2013
OS	Windows Vista SP1 build 7601
1. RootkitInstallation: MissingDriverLoad	Protected
2. RootkitInstallation: LoadAndCallImage	Protected
3. RootkitInstallation: DriverSupersede	Protected
4. RootkitInstallation: ChangeDrvPath	Vulnerable
5. Invasion: Runner	Vulnerable
6. Invasion: RawDisk	Vulnerable
7. Invasion: PhysicalMemory	Protected
8. Invasion: FileDrop	Vulnerable
9. Invasion: DebugControl	Protected
10. Injection: SetWinEventHook	Vulnerable
11. Injection: SetWindowsHookEx	Vulnerable
12. Injection: SetThreadContext	Protected
13. Injection: Services	Vulnerable
14. Injection: ProcessInject	Protected
15. Injection: KnownDlls	Vulnerable
16. Injection: DupHandles	Protected
17. Injection: CreateRemoteThread	Protected
18. Injection: APC dll Injection	Protected
19. Injection: AdvancedProcessTermination	Protected
20. InfoSend: ICMP Test	Protected
21. InfoSend: DNS Test	Vulnerable
22. Impersonation: OLE automation	Protected
23. Impersonation: ExplorerAsParent	Protected
24. Impersonation: DDE	Protected
25. Impersonation: Coat	Vulnerable
26. Impersonation: BITS	Protected
27. Hijacking: WinlogonNotify	Protected
28. Hijacking: Userinit	Vulnerable
29. Hijacking: UIHost	Protected
30. Hijacking: SupersedeServiceDll	Vulnerable
31. Hijacking: StartupPrograms	Vulnerable
32. Hijacking: ChangeDebuggerPath	Protected
33. Hijacking: AppinitDlls	Vulnerable
34. Hijacking: ActiveDesktop	Protected
Score	200/340

6. Outpost Firewall Pro:

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COMODO LEAKTESTS V.1.1.0.3

Date	12:40:06 PM - 7/22/2013	
OS	Windows Vista SP1 build 7601	
1. RootkitInstallation: MissingDriverLoad	Protected	
2. RootkitInstallation: LoadAndCallImage	Protected	
3. RootkitInstallation: DriverSupersede	Protected	
4. RootkitInstallation: ChangeDrvPath	Vulnerable	
5. Invasion: Runner	Protected	
6. Invasion: RawDisk	Vulnerable	
7. Invasion: PhysicalMemory	Protected	
8. Invasion: FileDrop	Vulnerable	
9. Invasion: DebugControl	Protected	
10. Injection: SetWinEventHook	Vulnerable	
11. Injection: SetWindowsHookEx	Vulnerable	
12. Injection: SetThreadContext	Protected	
13. Injection: Services	Vulnerable	
14. Injection: ProcessInject	Protected	
15. Injection: KnownDlls	Vulnerable	
16. Injection: DupHandles	Protected	
17. Injection: CreateRemoteThread	Protected	
18. Injection: APC dll injection	Protected	
19. Injection: AdvancedProcessTermination	Protected	
20. InfoSend: ICMP Test	Protected	
21. InfoSend: DNS Test	Vulnerable	
22. Impersonation: OLE automation	Protected	
23. Impersonation: ExplorerAsParent	Protected	
24. Impersonation: DDE	Vulnerable	
25. Impersonation: Coat	Vulnerable	
26. Impersonation: BITS	Protected	
27. Hijacking: WinlogonNotify	Protected	
28. Hijacking: Userinit	Protected	
29. Hijacking: UIHost	Protected	
30. Hijacking: SupersedeServiceDll	Vulnerable	
31. Hijacking: StartupPrograms	Vulnerable	
32. Hijacking: ChangeDebuggerPath	Protected	
33. Hijacking: AppinitDlls	Vulnerable	
34. Hijacking: ActiveDesktop	Protected	
Score	210 / 340	