

virus

BULLETIN

Covering the global threat landscape

VB100 CERTIFICATION REPORT APRIL 2021

VB Test Team

Malware has been causing problems for computer users for more than three decades, and anti-malware products have played an important part in mitigating those problems, initially taking on the leading role in protection and now taking more of a supporting role in amongst a cast of other forms of defence.

For more than two decades, Virus Bulletin has been testing anti-malware products, reporting on their performance as both the threat landscape and the products themselves have evolved, and has provided the VB100 test and certification scheme as a mark of distinction for those products that live up to expectation.

This report details the VB100 certification results of 38 products from 33 different vendors tested during March and April 2021.

THE VB100 SET-UP

In the VB100 test, a copy of the product to be tested is installed on *Windows 10*. At three different times in the test, the product is asked to scan both the latest version of the WildList¹ and a selection of clean files taken from *Virus Bulletin's* own set of files belonging to widely used legitimate software.

A legitimate file that is blocked at least once is considered a false positive, while a WildList file that isn't blocked is considered a miss.

A product achieves a VB100 certification if:

¹ The WildList is an extremely well-vetted set of malware recently observed in the wild by researchers: <http://www.wildlist.org/>.

- No more than 0.5% of WildList samples are missed and

- No more than 0.01% of legitimate files are blocked

For full details, we refer to the VB100 methodology on the *Virus Bulletin* website: <https://www.virusbulletin.com/testing/vb100/vb100-methodology/vb100-methodology-ver1-2/>. This test used version 1.2 of the VB100 methodology.

DIVERSITY TEST

The malware part of the VB100 certification uses the WildList, a regularly updated list of extremely well-vetted malware samples, guaranteed to have been spotted in the wild multiple times. This makes them very suitable for a certification test like VB100.

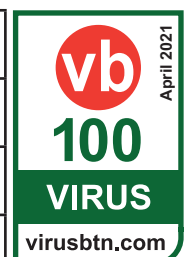
The 'Diversity Test' looks at products' detection of another set of recent malware samples, to acknowledge the fact that products detect malware samples beyond a standard set of samples, and provides a measure of that detection.

PRODUCTS & RESULTS

Products were allowed to download updates during the course of the test. The version numbers listed in the results that follows refer to those at the start of the test.

Acronis Cyber Protect

Windows 10 version	15.0.26570
WildList detection	99.6%
False positive rate	0.000%
Diversity Test rate	100.00%



Acronis True Image 2021

Windows 10 version	2021 build 39184
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



AhnLab V3 Endpoint Security

Windows 10 version	9.0.64.11
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	100.00%



Adaware Antivirus Free

Windows 10 version	12.10.60.0
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	100.00%



Arcabit AntiVirus

Windows 10 version	2021.03.10
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Adaware Antivirus Pro

Windows 10 version	12.10.60.0
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	100.00%



Avast Free Antivirus

Windows 10 version	21.2.2455
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Ad-Spider

Windows 10 version	2021.03.08
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	100.00%




AVG Internet Security


Windows 10 version	21.1.3164
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%




CORE Antivirus

Windows 10 version	1.0.78.0	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Emsisoft Anti-Malware

Windows 10 version	2021.3.0.10726	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Cynet 360

Windows 10 version	8.3.62.162	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	99.90%	


eScan Internet Security Suite for Windows

Windows 10 version	14.0.1400.2228	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


CyRadar Endpoint Detection and Response

Windows 10 version	1.0.0.56	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	98.70%	


ESTsecurity ALYac

Windows 10 version	4.0.2.23116	
WildList detection	99.7%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Defenx Security Suite

Windows 10 version	1.7.6.0	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	99.90%	


Exosphere Endpoint Protection

Windows 10 version	1.5.22.3	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Faronics Anti-Virus

Windows 10 version	4.21.3102.484	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Intego AV

Windows 10 version	1.0.1.7	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


Fortinet FortiClient

Windows 10 version	6.2.7.0984	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


K7 Total Security

Windows 10 version	16.0.0669	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	


G DATA Antivirus

Windows 10 version	25.5.10.23	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	99.70%	


PCProtect

Windows 10 version	5.5.83	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	99.90%	

IKARUS anti.virus

Windows 10 version	3.2.4	
WildList detection	100.0%	
False positive rate	0.001%	
Diversity Test rate	100.00%	

Private Internet Antivirus

Windows 10 version	1.0.1.6	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	100.00%	

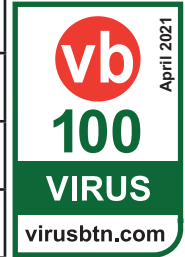
Qi-ANXIN Tianqing Endpoint Security Management

Windows 10 version	6.6.0.4088
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Shield Antivirus

Windows 10 version	4.7.2
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.80%



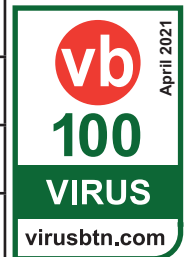
Rising Enterprise Security Management System

Windows 10 version	3.0.1.3
WildList detection	100.0%
False positive rate	0.003%
Diversity Test rate	84.98%



Systweak Anti-virus

Windows 10 version	1.0.1000.11042
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Scanguard

Windows 10 version	5.5.83
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.80%



TACHYON Endpoint Security

Windows 10 version	5.0.1.33
WildList detection	99.5%
False positive rate	0.000%
Diversity Test rate	99.90%



SecureAge SecureAPIus Pro

Windows 10 version	6.5.1
WildList detection	99.8%
False positive rate	0.005%
Diversity Test rate	99.90%



Tencent PC Manager

Windows 10 version	12.3.26609.901
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



TotalAV

Windows 10 version	5.5.83
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



VirIT eXplorer PRO

Windows 10 version	9.4.5
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	61.86%



Total Defense Premium

Windows 10 version	12.0.0.306
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



APPENDIX 1: PRODUCTS NOT CERTIFIED

All products gained the VB100 certification in this test cycle.

APPENDIX 2: SAMPLE SET SIZES

The Certification Set contained 1,046 malicious samples. The set of clean samples used for the false positive test contained 99,999 files, of which 29,134 were portable executable (PE) files. The set used for the Diversity Test contained 999 malicious samples.

United Endpoint Protector

Windows 10 version	1.3
WildList detection	100.0%
False positive rate	0.002%
Diversity Test rate	99.80%



VIPRE Endpoint Cloud Business

Windows 10 version	12.0.7874
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



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