B SE Labs INTELLIGENCE-LED TESTING

SMALL BUSINESS ENDPOINT PROTECTION

JUL - SEP 2018









blog.selabs.uk



SE Labs tested a variety of anti-malware (aka 'anti-virus'; aka 'endpoint security') products from a range of well-known vendors in an effort to judge which were the most effective.

Each product was exposed to the same threats, which were a mixture of targeted attacks using well-established techniques and public email and web-based threats that were found to be live on the internet at the time of the test.

The results indicate how effectively the products were at detecting and/or protecting against those threats in real time.

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SE Labs is BS EN ISO 9001 : 2015 certified for The Provision of IT Security Product Testing.

SE Labs is a member of the Microsoft Virus Information Alliance (VIA); the Anti-Malware Testing Standards Organization (AMTSO); and the Messaging, Malware and Mobile Anti-Abuse Working Group (M3AAWG).

AMTSO Standard public pilot reference: https://www.amtso.org/compliance-summary-ls1tp002-sel-q3-2018/

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Document version 1.1 Updated 25th April 2019 to reflect correct names for Microsoft and McAfee products.



INTRODUCTION

Scoring targeted attacks

When is a security breach serious, less serious or not a breach at all?

Our endpoint protection tests have always included targeted attacks. These allow us to gauge how effectively anti-malware products, in use by millions of customers, can stop hackers from breaching your systems.

We penalise products heavily for allowing partial or full breaches and, until now, that penalisation has been the same regardless of how deeply we've been able to penetrate into the system. Starting with this report we have updated our scoring to take varying levels of 'success' by us, the attackers, into account.

The new scores only apply to targeted attacks and the scoring system is listed in detail on page eight.

If the attackers are able to gain basic access to a target, which means they are able to run basic commands that, for example, allow them to explore the file system, then the score is -1. The next stage is to attempt to steal a file. If successful there is a further -1 penalty.

At this stage the attackers want to take much greater control of the system. This involves increasing their account privileges - so-

called privilege escalation. Success here turns a bad situation worse for the target and, if achieved, there is an additional -2 penalty. Finally, if escalation is achieved, certain post-escalation steps are attempted, such as running a key logger or stealing passwords. A final -1 penalty is imposed if these stages are completed, making possible scores for a breach range between -1 and -5 depending on how many attack stages are possible to complete.

We have decided not to publish exact details of where in the attack chain each product stands or falls, but have provided that detailed information to the companies who produce the software tested in this report and who have asked for it.

If you spot a detail in this report that you don't understand, or would like to discuss, please contact us via our Twitter or Facebook accounts.

SE Labs uses current threat intelligence to make our tests as realistic as possible. To learn more about how we test, how we define 'threat intelligence' and how we use it to improve our tests please visit our website and follow us on Twitter.

Executive Summary

Product Names

It is good practice to stay up to date with the latest version of your chosen endpoint security product. We made best efforts to ensure that each product tested was the very latest version running with the most recent updates to give the best possible outcome.

For specific build numbers, see *Appendix C: Product Versions* on page 17.

EXECUTIVE SUMMARY			
Products Tested	Protection Accuracy Rating (%)	Legitimate Accuracy Rating (%)	Total Accuracy Rating (%)
Kaspersky Small Office Security	100%	100%	100%
ESET Endpoint Security	98%	100%	99%
Microsoft Windows Defender ATP's Antivirus	97%	100%	99%
Sophos Intercept X Advanced	97%	100%	99%
Symantec Endpoint Protection Cloud	97%	100%	99%
Trend Micro Worry Free Security Services	91%	99%	96%
Bitdefender Gravity Zone Endpoint Security	88%	100%	96%
McAfee Endpoint Security	86%	100%	95%
Webroot SecureAnywhere Endpoint Protection	27%	100%	76%
MalwareBytes Endpoint Security	4%	100%	69%

Products highlighted in green were the most accurate, scoring 85 per cent or more for Total Accuracy. Those in yellow scored less than 85 but 75 or more. Products shown in red scored less than 75 per cent.

For exact percentages, see 1. Total Accuracy Ratings on page 6.

The endpoints were generally effective at handling general threats from cyber criminals...

Most products were largely capable of handling public web-based threats such as those used by criminals to attack Windows PCs, tricking users into running malicious files or running scripts that download and run malicious files. Malwarebytes was notably weaker than the competition.

I and targeted attacks were prevented in many cases. Many products were also competent at blocking more targeted, exploit-based attacks. However, while some did very well in this part of the test, others were very much weaker. Webroot's was largely incapable of stopping the targeted attacks, while Malwarebytes stopped just two.

■ False positives were not an issue for most products Most of the endpoint solutions were good at correctly classifying legitimate applications and websites. The vast majority allowed all of the legitimate websites and applications. Trend Micro's blocked just one.

Which products were the most effective?

Products from Kaspersky Lab, ESET, Symantec, Sophos, Microsoft, Trend Micro, BitDefender and McAfee achieved extremely good results due to a combination of their ability to block malicious URLs, handle exploits and correctly classify legitimate applications and websites.

1. Total Accuracy Ratings

Judging the effectiveness of an endpoint security product is a subtle art, and many factors are at play when assessing how well it performs. To make things easier we've combined all the different results from this report into one easy-to-understand graph.

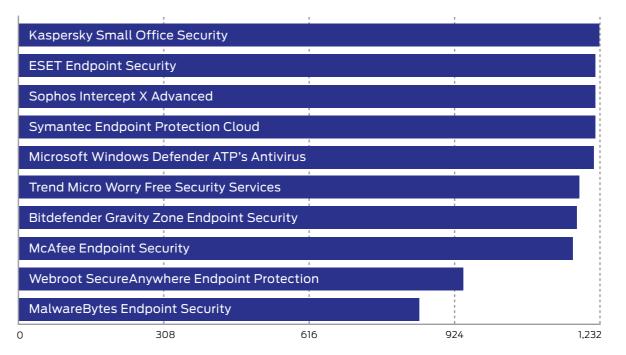
The graph below takes into account not only each product's ability to detect and protect against threats, but also its handling of non-malicious objects such as web addresses (URLs) and applications.

Not all protections, or detections for that matter, are equal. A product might completely block a URL, which stops the threat before it can even start its intended series of malicious events. Alternatively, the product might allow a web-based exploit to execute but prevent it from downloading any further code to the target. In another case malware might run on the target for a short while before its behaviour is detected and its code is deleted or moved to a safe 'quarantine' area for future analysis. We take these outcomes into account when attributing points that form final ratings.

For example, a product that completely blocks a threat is rated more highly than one that allows a threat to run for a while before eventually evicting it. Products that allow all malware infections, or that block popular legitimate applications, are penalised heavily.

Categorising how a product handles legitimate objects is complex, and you can find out how we do it in **5. Legitimate Software Ratings** on page 12.

TOTAL ACCURACY RATINGS				
Product	Total Accuracy Rating	Total Accuracy (%)	Award	
Kaspersky Small Office Security	1,230	100%	ΑΑΑ	
ESET Endpoint Security	1,222	99%	ΑΑΑ	
Sophos Intercept X Advanced	1,221	99%	AAA	
Symantec Endpoint Protection Cloud	1,221	99%	ΑΑΑ	
Microsoft Windows Defender ATP's Antivirus	1,218	99%	ΑΑΑ	
Trend Micro Worry Free Security Services	1,188	96%	ΑΑΑ	
Bitdefender Gravity Zone Endpoint Security	1,183	96%	ΑΑΑ	
McAfee Endpoint Security	1,174	95%	ΑΑΑ	
Webroot SecureAnywhere Endpoint Protection	940	76%	С	
MalwareBytes Endpoint Security	848	69%		



Total Accuracy Ratings combine protection and false positives.

Small Business Endpoint Protection Awards

The following products win SE Labs awards:

- **Kaspersky** Small Office Security
- **ESET** Endpoint Security
- **Sophos** Intercept X Advanced
- Symantec Endpoint Protection Cloud
- **Microsoft** Windows Defender ATP's Antivirus
- **Trend Micro** Worry Free Security Services
- **Bitdefender** Gravity Zone Endpoint Security
- **McAfee** Endpoint Security



Webroot SecureAnywhere Endpoint Protection



2. Protection Ratings

The results below indicate how effectively the products dealt with threats. Points are earned for detecting the threat and for either blocking or neutralising it.

Detected (+1)

If the product detects the threat with any degree of useful information, we award it one point.

Blocked (+2)

Threats that are disallowed from even starting their malicious activities are blocked. Blocking products score two points.

Neutralised (+1)

Products that kill all running malicious processes 'neutralise' the threat and win one point.

Complete Remediation (+1)

If, in addition to neutralising a threat, the product removes all significant traces of the attack, it gains an additional one point.

Persistent Neutralisation (-2)

This result occurs when a product continually blocks a persistent threat from achieving its aim, while not removing it from the system.

Compromised (-5)

If the threat compromises the system, the product loses five points. This loss may be reduced to four points if it manages to detect the threat (see Detected, above), as this at least alerts the user, who may now take steps to secure the system.

Rating Calculations

We calculate the protection ratings using the following formula:

Protection Rating = (1x number of Detected) + (2x number of Blocked) + (1x number of Neutralised) + (1x number of Complete remediation) + (-5x number of Compromised)

The 'Complete remediation' number relates to cases of neutralisation in which all significant traces of the attack were removed from the target. Such traces should not exist if the threat was 'Blocked' and so Blocked results imply Complete remediation.

These ratings are based on our opinion of how important these different outcomes are. You may have a different view on how seriously you treat a 'Compromise' or 'Neutralisation without complete remediation'. If you want to create your own rating system, you can use the raw data from *4. Protection Details* on page 11 to roll your own set of personalised ratings.

Targeted Attack Scoring

The following scores apply only to targeted attacks and are cumulative, ranging from -1 to -5.

Access (-1)

If any command that yields information about the target system is successful this score is applied. Examples of successful commands include listing current running processes, exploring the file system and so on. If the first command is attempted and the session is terminated by the product without the command being successful the score of Neutralised (see above) will be applied.

Action (-1)

If the attacker is able to exfiltrate a document from the target's Desktop of the currently logged in user then an 'action' has been successfully taken.

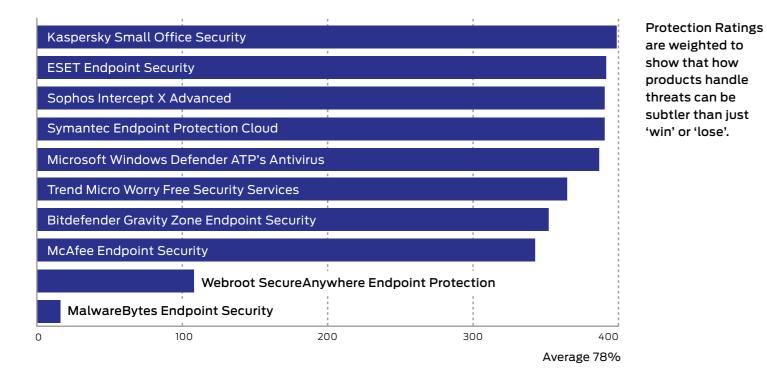
Escalation (-2)

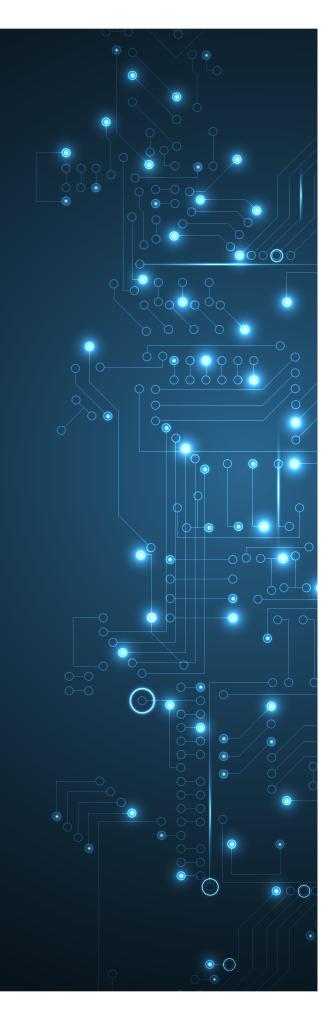
The attacker attempts to escalate privileges to NT Authority/System. If successful, an additional two points are deducted.

Post-Escalation Action (-1)

After escalation the attacker attempts actions that rely on escalated privileges. These include attempting to steal credentials, modifying the file system and recording keystrokes. If any of these actions are successful then a further penalty of one point deduction is applied.

PROTECTION RATINGS		
Product	Protection Rating	Protection Rating (%)
Kaspersky Small Office Security	398	100%
ESET Endpoint Security	390	98%
Sophos Intercept X Advanced	389	97%
Symantec Endpoint Protection Cloud	389	97%
Microsoft Windows Defender ATP's Antivirus	386	97%
Trend Micro Worry Free Security Services	364	91%
Bitdefender Gravity Zone Endpoint Security	351	88%
McAfee Endpoint Security	342	86%
Webroot SecureAnywhere Endpoint Protection	108	27%
MalwareBytes Endpoint Security	16	4%



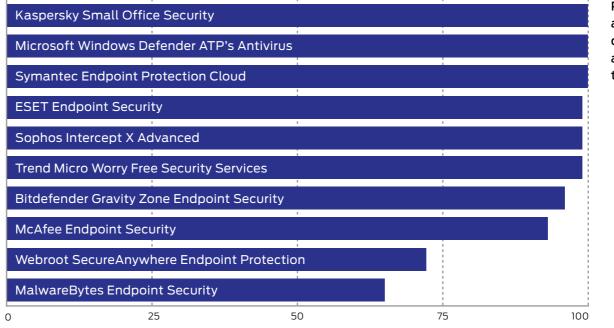


3. Protection Scores

This graph shows the overall level of protection, making no distinction between neutralised and blocked incidents.

For each product we add Blocked and Neutralised cases together to make one simple tally.

PROTECTION SCORES		
Product	Protection Score	
Kaspersky Small Office Security	100	
Microsoft Windows Defender ATP's Antivirus	100	
Symantec Endpoint Protection Cloud	100	
ESET Endpoint Security	99	
Sophos Intercept X Advanced	99	
Trend Micro Worry Free Security Services	99	
Bitdefender Gravity Zone Endpoint Security	96	
McAfee Endpoint Security	93	
Webroot SecureAnywhere Endpoint Protection	72	
MalwareBytes Endpoint Security	65	



Protection Scores are a simple count of how many times a product protected the system.

4. Protection Details

These results break down how each product handled threats into some detail. You can see how many detected a threat and the levels of protection provided.

Products sometimes detect more threats than they protect against. This can happen when they recognise an element of the threat but aren't equipped to stop it. Products can also provide protection even if they don't detect certain threats. Some threats abort on detecting specific endpoint protection software.

PROTECTION DETAILS Product Detected Blocked Compromised Protected 99 100 Kaspersky Small Office Security 100 0 Microsoft Windows Defender 100 0 100 ATP's Antivirus Symantec Endpoint Protection Cloud 100 0 100 ESET Endpoint Security 99 99 99 Sophos Intercept X Advanced 99 99 99 99 98 Trend Micro Worry Free Security Services 99 Bitdefender Gravity Zone 100 96 Endpoint Security McAfee Endpoint Security 100 93 Webroot SecureAnywhere 93 28 72 Endpoint Protection 68 MalwareBytes Endpoint Security 35 65

	1			
Kaspersky Sm	all Office Security			
Microsoft Win	dows Defender ATP's A	ntivirus	i	
		:	:	
Symantec End	Ipoint Protection Cloud			
	1	1		
ESET Endpoin	t Security			
Sophos Interce	ept X Advanced			
Trend Micro W	: orry Free Security Servi	ces	:	
Bitdefender G	ravity Zone Endpoint Se	ecurity	:	
	!	:		
McAfee Endpo	int Security			
		1		
Webroot Secu	reAnywhere Endpoint F	rotection		
MalwareBytes	Endpoint Security		i	
)	25	50	75	10

This data shows in detail how each product handled the threats used.

5. Legitimate Software Ratings

These ratings indicate how accurately the products classify legitimate applications and URLs, while also taking into account the interactions that each product has with the user. Ideally a product will either not classify a legitimate object or will classify it as safe. In neither case should it bother the user.

We also take into account the prevalence (popularity) of the applications and websites used in this part of the test, applying stricter penalties for when products misclassify very popular software and sites.

To understand how we calculate these ratings, see **5.3** Accuracy Ratings on page 14.

LEGITIMATE SOFTWARE RATINGS		
Product	Legitimate Accuracy Rating	Legitimate Accuracy (%)
Bitdefender Gravity Zone Endpoint Security	832	100%
ESET Endpoint Security	832	100%
Kaspersky Small Office Security	832	100%
MalwareBytes Endpoint Security	832	100%
McAfee Endpoint Security	832	100%
Microsoft Windows Defender ATP's Antivirus	832	100%
Sophos Intercept X Advanced	832	100%
Symantec Endpoint Protection Cloud	832	100%
Webroot SecureAnywhere Endpoint Protection	832	100%
Trend Micro Worry Free Security Services	824	99%

Legitimate Software Bitdefender Gravity Zone Endpoint Security Ratings can indicate how well a vendor ESET Endpoint Security has tuned its detection engine. Kaspersky Small Office Security MalwareBytes Endpoint Security McAfee Endpoint Security Microsoft Windows Defender ATP's Antivirus Sophos Intercept X Advanced Symantec Endpoint Protection Cloud Webroot SecureAnywhere Endpoint Protection Trend Micro Worry Free Security Services 416 100 0

5.1 Interaction Ratings

It's crucial that anti-malware endpoint products not only stop – or at least detect – threats, but that they allow legitimate applications to install and run without misclassifying them as malware. Such an error is known as a 'false positive' (FP).

In reality, genuine FPs are quite rare in testing. In our experience it is unusual for a legitimate application to be classified as 'malware'. More often it will be classified as 'unknown', 'suspicious' or 'unwanted' (or terms that mean much the same thing).

We use a subtle system of rating an endpoint's approach to legitimate objects, which takes into account how it classifies the application and how it presents that information to the user. Sometimes the endpoint software will pass the buck and demand that the user decide if the application is safe or not. In such cases the product may make a recommendation to allow or block. In other cases, the product will make no recommendation, which is possibly even less helpful.

If a product allows an application to install and run with no user interaction, or with simply a brief notification that the application is likely to be safe, it has achieved an optimum result. Anything else is a Non-Optimal Classification/Action (NOCA). We think that measuring NOCAs is more useful than counting the rarer FPs.

	None (allowed)	Click to allow (default allow)	Click to allow/block (no recommendation)	Click to block (default block)	None (blocked)	
Object is safe	2	1.5	1			Α
Object is unknown	2	1	0.5	0	-0.5	В
Object is not classified	2	0.5	0	-0.5	-1	С
Object is suspicious	0.5	0	-0.5	-1	-1.5	D
Object is unwanted	0	-0.5	-1	-1.5	-2	Е
Object is malicious				-2	-2	F
	1	2	3	4	5	

INTERACTION RATINGS		
Product	None (Allowed)	Click to block (Default Block)
Bitdefender Gravity Zone Endpoint Security	100	0
ESET Endpoint Security	100	0
Kaspersky Small Office Security	100	0
MalwareBytes Endpoint Security	100	0
McAfee Endpoint Security	100	0
Microsoft Windows Defender ATP's Antivirus	100	0
Sophos Intercept X Advanced	100	0
Symantec Endpoint Protection Cloud	100	0
Webroot SecureAnywhere Endpoint Protection	100	0
Trend Micro Worry Free Security Services	99	1

Products that do not bother users and classify most applications correctly earn more points than those that ask questions and condemn legitimate applications.

5.2 Prevalence Ratings

There is a significant difference between an endpoint product blocking a popular application such as the latest version of Microsoft Word and condemning a rare Iranian dating toolbar for Internet Explorer 6. One is very popular all over the world and its detection as malware (or something less serious but still suspicious) is a big deal. Conversely, the outdated toolbar won't have had a comparably large user base even when it was new. Detecting this application as malware may be wrong, but it is less impactful in the overall scheme of things.

With this in mind, we collected applications of varying popularity and sorted them into five separate categories, as follows:

- 1. Very high impact
- 2. High impact
- 3. Medium impact
- 4. Low impact
- 5. Very low impact

Incorrectly handling any legitimate application will invoke penalties, but classifying Microsoft Word as malware and blocking it without any way for the user to override this will bring far greater penalties than doing the same for an ancient niche toolbar. In order to calculate these relative penalties, we assigned each impact category with a rating modifier, as shown in the table above.

LEGITIMATE SOFTWARE PREVALENCE RATING MODIFIERS

Impact Category	Rating Modifier
Very high impact	5
High impact	4
Medium impact	3
Low impact	2
Very low impact	1

Applications were downloaded and installed during the test, but third-party download sites were avoided and original developers' URLs were used where possible. Download sites will sometimes bundle additional components into applications' install files, which may correctly cause anti-malware products to flag adware. We remove adware from the test set because it is often unclear how desirable this type of code is.

The prevalence for each application and URL is estimated using metrics such as third-party download sites and the data from Alexa.com's global traffic ranking system.

5.3 Accuracy Ratings

We calculate legitimate software accuracy ratings by multiplying together the interaction and prevalence ratings for each download and installation:

Accuracy rating = Interaction rating x Prevalence rating

If a product allowed one legitimate, Medium impact application to install with zero interaction with the user, then its Accuracy rating would be calculated like this:

Accuracy rating = $2 \times 3 = 6$

This same calculation is made for each legitimate application/site in the test and the results are summed and used to populate the graph and table shown under *5. Legitimate Software Ratings* on page 11.

5.4 Distribution of Impact Categories

Endpoint products that were most accurate in handling legitimate objects achieved the highest ratings. If all objects were of the highest prevalence, the maximum possible rating would be 1,000 (100 incidents x (2 interaction rating x 5 prevalence rating)).

In this test there was a range of applications with different levels of prevalence. The table below shows the frequency:

LEGITIMATE SOFTWARE CATEGORY FREQUENCY		
Prevalence Rating	Frequency	
Very high impact	55	
High impact	22	
Medium impact	11	
Low impact	8	
Very low impact	4	
GRAND TOTAL	100	

6. Conclusions

Attacks in this test included threats that affect the wider public and more closely-targeted individuals and organisations. You could say that we tested the products with 'public' malware and full-on hacking attacks. We introduced the threats in a realistic way such that threats seen in the wild on websites were downloaded from those same websites, while threats caught spreading through email were delivered to our target systems as emails.

All of the products tested are well-known and should do well in this test. While we do 'create' threats by using publicly available free hacking tools, we don't write unique malware so there is no technical reason why every vendor being tested should do poorly.

Consequently, it's not a shock to see all products handle the public threats very effectively. Webroot and Malwarebytes were notable in their struggle at handling these. Targeted attacks were also handled well by most but caused some significant problems for the products from Malwarebytes and Webroot. Webroot notes that testing occurred before it released its script and anti-exploit protection. It failed to stop all but one of the targeted attacks, which is an unusually poor performance in our tests. Malwarebytes was little better, only stopping two. The Kaspersky Lab, Symantec and Microsoft products blocked all of the public and targeted attacks. They also handled the legitimate applications correctly. ESET's stopped all of the public threats but allowed one targeted attack to achieve full access and escalation. McAfee stopped all public threats but was beaten by seven targeted attacks.

The **Sophos** and **Trend Micro** products performed strongly, both stopping the vast majority of public threats and all of the targeted attacks.

Webroot SecureAnywhere Endpoint Protection blocked a good number of public threats but only managed to stop one targeted attack.

The only product not to achieve a rating was Malwarebytes Endpoint Security. It was completely accurate with legitimate applications but, when handling threats, it neutralised more often as it blocked malware outright. More seriously, it also missed all but two of the targeted attacks and was compromised by 12 of the public threats.

The leading products from Kaspersky Lab, ESET, Symantec, Sophos, Microsoft, Trend Micro, BitDefender and McAfee all win AAA awards.

Appendices

APPENDIX A: Terms Used

TERM	MEANING	
Compromised	The attack succeeded, resulting in malware running unhindered on the target. In the case of a targeted attack, the attacker was able to take remote control of the system and carry out a variety of tasks without hindrance.	
Blocked	The attack was prevented from making any changes to the target.	
False positive	When a security product misclassifies a legitimate application or website as being malicious, it generates a 'false positive'.	
Neutralised	The exploit or malware payload ran on the target but was subsequently removed.	
Complete Remediation	If a security product removes all significant traces of an attack, it has achieved complete remediation.	
Target	The test system that is protected by a security product.	
Threat	A program or sequence of interactions with the target that is designed to take some level of unauthorised control of that target.	
Update	Security vendors provide information to their products in an effort to keep abreast of the latest threats. These updates may be downloaded in bulk as one or more files, or requested individually and live over the internet.	

APPENDIX B: FAQs

- A full methodology for this test is available from our website.
- The products chosen for this test were selected by SE Labs.
- The test was unsponsored.
- The test was conducted between 25th June and 29th August 2018.
- All products were configured according to each vendor's recommendations, when such recommendations were provided.
- Malicious URLs and legitimate applications and URLs were independently located and verified by SE Labs.
- Targeted attacks were selected and verified by SE Labs.
- Malicious and legitimate data was provided to partner organisations once the test was complete.
- SE Labs conducted this endpoint security testing on physical PCs, not virtual machines.

■ The web browser used in this test was Google Chrome. When testing Microsoft products Chrome was equipped with the Windows Defender Browser Protection browser extension (https://browserprotection.microsoft.com).

What is a partner organisation? Can I become one to gain access to the threat data used in your tests?

A Partner organisations benefit from our consultancy services after a test has been run. Partners may gain access to low-level data that can be useful in product improvement initiatives and have permission to use award logos, where appropriate, for marketing purposes. We do not share data on one partner with other partners. We do not partner with organisations that do not engage in our testing.

I am a security vendor and you tested my product without permission. May I access the threat data to verify that your results are accurate?

A We are willing to share a certain level of test data with non-partner participants for free. The intention is to provide sufficient data to demonstrate that the results are accurate. For more in-depth data suitable for product improvement purposes we recommend becoming a partner.

APPENDIX C: Product Versions

The table below shows the service's name as it was being marketed at the time of the test.

PRODUCT VERSIONS						
Provider	Product Name	Build Version (start)	Build Version (end)			
Bitdefender	Gravity Zone Endpoint Security	Version: 6.6.1.37, Engine version: 7.76257	Product version: 6.6.3.61, Engine version: 7.77142 (11955443)			
ESET	Endpoint Security	6.4.2014.0	Version: 6.6.2078.5, Windows 10 pro (64-bit) version: 10.0.16299			
Kaspersky Lab	Small Office Security	17.0.0.611 (j)	19.0.0.1088 (b)			
MalwareBytes	Endpoint Security	1.80.2.1012	1.80.2.1012			
McAfee	Endpoint Security	Agent Version Number: 5.0.6.220	Agent: 5.5.0.447, Endpoint Security: 10.6			
Microsoft	Windows Defender ATP's Antivirus	4.12.17007.18022 (Antimalware Client Version) 1.263.824.0 (Antivirus Version)	Antimalware Client Version (4.18.1807.18075) Antivirus Version (1.275.307.0) Antispyware Version (1.275.307.0)			
Sophos Intercept X Advanced		Core Agent (2.0.2), Endpoint Advanced (10.8.1.1), Sophos Intercept X (2.0.2), Device Encryption (1.3.90)	Core Agent (2.0.5) Endpoint Advanced (10.8.1.2) Sophos Intercept X (2.0.6) Device Encryption (1.4.103)			
Symantec	Endpoint Protection Cloud	22.12.1.15	22.15.0.88			
Trend Micro	Worry Free Security Services	6.3.1207	6.3.1297 / 13.1.2079			
Webroot	SecureAnywhere Endpoint Protection	9.0.19.43	9.0.21.18			

APPENDIX D: Attack Types

The table below shows how each product protected against the different types of attacks used in the test.

ATTACK TYPES					
Product	Web-Download	Targeted Attack	Protected		
Kaspersky Small Office Security	75	25	100		
Microsoft Windows Defender ATP's Antivirus	75	25	100		
Symantec Endpoint Protection Cloud	75	25	100		
ESET Endpoint Security	75	24	99		
Sophos Intercept X Advanced	74	25	99		
Trend Micro Worry Free Security Services	74	25	99		
Bitdefender Gravity Zone Endpoint Security	74	22	96		
McAfee Endpoint Security	75	18	93		
Webroot SecureAnywhere Endpoint Protection	71	1	72		
MalwareBytes Endpoint Security	63	2	65		

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