

Endpoint Security Home



ONLINE REPORT

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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Management

Chief Executive Officer Simon Edwards

Chief Operations Officer Marc Briggs

Chief Human Resources Officer Magdalena Jurenko

Chief Technical Officer Stefan Dumitrascu

Testing Team

Nikki Albesa

Thomas Bean

Solandra Brewster

Jarred Earlington

Gia Gorbold

Anila Johnny

Erica Marotta

Jeremiah Morgan

Julian Owusu-Abrokwa

Joseph Pike

Georgios Sakatzidi

Enejda Torba

Dimitrios Tsarouchas

Stephen Withey

Marketing

Sara Claridge

Janice Sheridan

Publication

Rahat Hussain

Colin Mackleworth

IT Support

Danny King-Smith

Chris Short

Website selabs.uk

Email info@SELabs.uk

LinkedIn www.linkedin.com/company/se-labs/

Blog blog.selabs.uk

Post SE Labs Ltd, 55A High Street, Wimbledon, SW19 5BA, UK

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CEO
Simon Edwards

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Holding Cyber security to Account

You are not the weakest link

It's a phrase I hate: People are the weakest link in cyber security. Technology is supposed to serve humans, not the other way around. When we use computers in our personal and business lives, we have certain goals. Entertainment. Making money. Administering our energy bills, car insurance and any number of other important tasks. But our goals are probably not 'security'.

Should we be aware of computer security and how to behave sensibly? Of course we should. But most people's goals in the life are not to be security experts. It's up to the technology businesses to protect us all, while we spend our lives doing what we need to, and ideally what we want to.

Computer security companies claim to provide protection. They sell us all the idea of security, but their products and services fail all the time. Is that all our fault? Do we use it wrong?

The most secure systems are the least convenient to use. A laptop buried under the sea in a concrete block would be

pretty hard to hack. And to use. There is always a trade-off between security and convenience. But we need to be able to use the systems or it's all a complete waste of time.

Saying that people are the weakest link in cyber security implies that the rest of the metaphorical chain is very strong (which is quite an assumption) and it's insulting too. Why are we the weakest link? Because the technology would work better without us? That the experts who made the technology are cleverer than us, and if we could only understand that our need to share photos is subservient to following strict security protocols then things would be 'better'?

We should be able to rely confidently on the security products that everyone tells us we need. The endpoint protection products in this report have undergone the most strenuous testing available, and they've come out well. They'll provide you with strong protection while you use your computer to do something useful, fun or both.

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 E: Product Versions** on page 16.

Executive Summary

Products Tested	Protection Accuracy Rating (%)	Legitimate Accuracy Rating (%)	Total Accuracy Rating (%)
Avast Free Antivirus	100%	100%	100%
Kaspersky Premium	100%	100%	100%
McAfee Total Protection	100%	100%	100%
NortonLifeLock Norton360	100%	100%	100%
Sophos Home Premium	99%	100%	100%
Panda Dome	97%	100%	99%
Microsoft Defender Antivirus (consumer)	95%	100%	98%
Webroot Antivirus	92%	100%	97%

● 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 **1.3 Total Accuracy Ratings** on page 9.

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

All products were very capable of handling public email-and 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.

●... but targeted attacks caused problems for some of the products.

Most of the products provided complete protection against the targeted attacks used in this test but one product was compromised by one attack, another by two. This is a concerning result since it only takes a single targeted attack to breach an organisation.

● False positives were not an issue for the products.

All of the products were perfectly good at correctly classifying legitimate applications and websites. None of them blocked or restricted access to these legitimate objects.

● Which products were the most effective?

Products from **Avast, Kaspersky, McAfee, Norton and Sophos** produced extremely good results due to a combination of their ability to block malicious URLs, handle exploits and correctly classify legitimate applications and websites. All products performed well enough to achieve AAA awards.

Home Endpoint Security Awards

The following products win SE Labs awards:

Avast Free Antivirus

Kaspersky Premium

McAfee Total Protection

NortonLifeLock Norton360

Sophos Home Premium

Panda Dome

Microsoft Defender Antivirus (consumer)

Webroot Antivirus



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Threat Responses

Full Attack Chain: Testing Every Layer of Detection and Protection

Attackers start from a certain point and don't stop until they have either achieved their goal or have reached the end of their resources (which could be a deadline or the limit of their abilities). This means that, in a test, the tester needs to begin the attack from a realistic first position, such as sending a phishing email or setting up an infected website, and moving through many of the likely steps leading to actually stealing data or causing some other form of damage to the network.

If the test starts too far into the attack chain, such as executing malware on an endpoint, then many products will be denied opportunities to use the full extent of their protection and detection abilities. If the test concludes before any 'useful'

damage or theft has been achieved, then similarly the product may be denied a chance to demonstrate its abilities in behavioural detection and so on.

Attack Stages

The illustration (below) shows typical stages of an attack. In a test, each of these should be attempted to determine the security solution's effectiveness. This test's results record detection and protection for each of these stages.

We measure how a product responds to the first stages of the attack with a detection and/ or protection rating. Sometimes products allow threats to run yet still detect them. Other times they might allow the threat to run briefly before neutralising

it. Ideally, they detect and block the threat before it has a chance to run. Products may delete threats or automatically contain them in a 'quarantine' or other safe holding mechanism for later analysis.

Should the initial attack phase succeed, we then measure post-exploitation stages, which are represented by steps two through to seven below. We broadly categorise these stages as: Access (step 2); Action (step 3); Escalation (step 4); and Post-Escalation (steps 5-6).

In figure 1. you can see a typical attack running from start to end, through various 'hacking' activities. This can be classified as a fully successful breach.

In figure 2. a product or service has interfered with the attack, allowing it to succeed only as far as stage 3, after which it was detected and neutralised. The attacker was unable to progress through stages 4 onwards.

It is possible for an attack to run in a different order with, for example, the attacker attempting to connect to other systems without needing to escalate privileges. However, it is common for password theft (see step 5) to occur before using stolen credentials to move further through the network.

How Hackers Progress

Figure 1. A typical attack starts with an initial contact and progresses through various stages, including reconnaissance, stealing data and causing damage.



Figure 2. This attack was initially successful but only able to progress as far as the reconnaissance phase.



1. Protection and Legitimate Handling Accuracy

1.1 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.

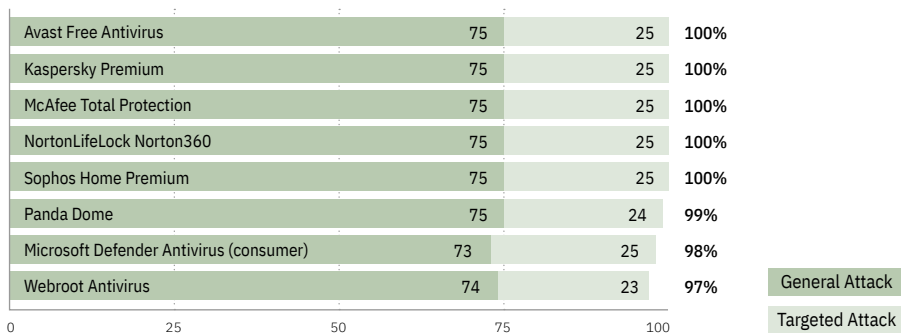
Products sometimes detect more threats than they protect against. This can happen when they recognise an element of the threat but aren't equipped to stop it. Products can also provide protection even if they don't detect certain threats. Some threats abort on detecting specific endpoint protection software.

Product	Detected	Blocked	Neutralised	Compromised	Protected
Avast Free Antivirus	100	100	0	0	100
Kaspersky Premium	100	100	0	0	100
McAfee Total Protection	100	100	0	0	100
NortonLifeLock Norton360	100	100	0	0	100
Sophos Home Premium	100	98	2	0	100
Panda Dome	99	98	1	1	99
Microsoft Defender Antivirus (consumer)	98	98	0	2	98
Webroot Antivirus	97	95	2	3	97

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

1.2 Attack Types

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



1.3 Total Accuracy Ratings

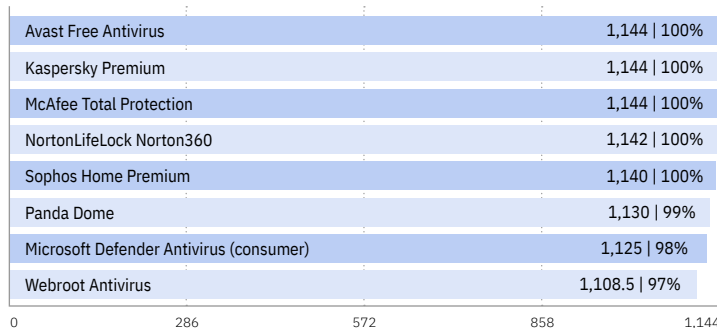
Judging the effectiveness of an endpoint security product is a subtle art, and many factors are at play when assessing how well it performs. To make things easier we've combined all the different results from this report into one easy-to-understand graph.

The graph 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.

1.4 Protection Accuracy

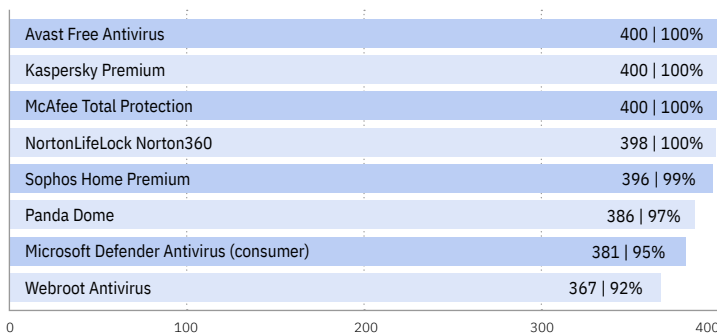
To understand how we calculate these ratings, see **Appendix A: Protection Ratings** on page 12.



- Total Accuracy Ratings combine protection and false positives
- Categorising how a product handles legitimate objects is complex, and you can find out how we do it in **Legitimate Accuracy Ratings** on page 10.

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.



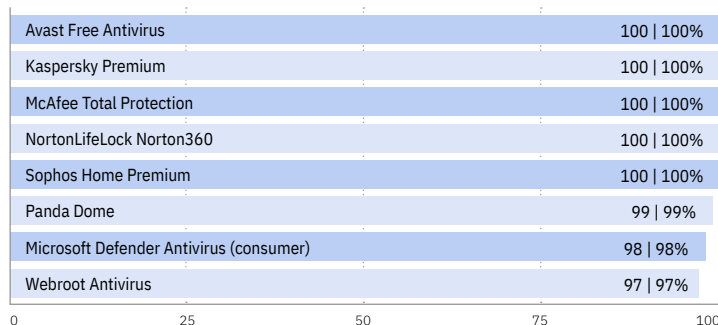
- Protection Ratings are weighted to show that how products handle threats can be subtler than just 'win' or 'lose'.

Average 98%

1.5 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.



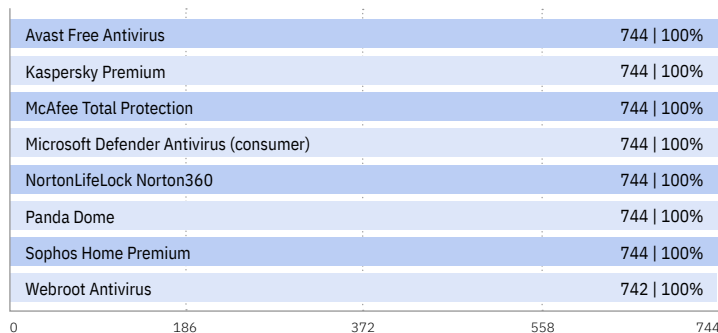
● Protection Scores are a simple count of how many times a product protected the system.

1.6 Legitimate Accuracy 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 **Accuracy Ratings** on page 14.



● Legitimate Accuracy Ratings can indicate how well a vendor has tuned its detection engine.

2. Conclusion

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 do not write unique malware so there is no technical reason why any vendor being tested should do poorly.

The results were generally strong, particularly in the way that the products handled public threats. These are threats that are live on the internet on the day that the products are tested. Excellent results from all of the products indicate both familiarity with common threats and frequent updates to keep databases current.

Five of the eight products stopped all of the attacks this quarter. The strongest, from **Avast** and **Kaspersky** provided excellent protection against public email- and web-based threats by blocking these upon detection.

By and large, products from **McAfee**, **Norton** and **Sophos** did the same. In one or two instances, however, these products eventually blocked web-based threats but not before these left a malicious file in the system.

Microsoft Defender Antivirus (consumer) ably blocked all targeted attacks but missed two general threats.

Panda Dome let one web-based threat run but provided complete remediation by blocking the malicious executable from running after reboot. It also deleted the executable file from the system. It was less successful in removing the artifacts from five targeted attacks that it eventually blocked. The product was compromised by one targeted attack that almost ran through to the post-escalation stage when its ransomware payload was blocked.

Webroot Antivirus missed one web-based threat and two targeted attacks. The two targeted attacks ran until the escalation stage before they were stopped.

All of the products allowed the legitimate applications and websites to run. **Webroot Antivirus** did issue a warning against one legitimate application even if it did not block it.

All products in this test win AAA awards by virtue of scoring total accuracy rating of either 100% or in the high 90s. The strongest, from **Avast**, **Kaspersky**, **McAfee**, **Norton** and **Sophos** stopped all the threats and allowed all legitimate applications. Products from **Microsoft**, **Panda** and **Webroot** also obtained excellent results that were only a few points shy of the perfect score.

Appendices

Appendix A: 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.

■ 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.

■ Neutralised (+1) Products that kill all running malicious processes 'neutralise' the threat and win 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.

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 **1.1 Protection Details** on page 8 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.

Appendix B: Legitimate 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.

Prevalence Ratings

There is a significant difference between an

	None (allowed)	Click to Allow (default allow)	Click to Allow/ Block (no recommendation)	Click to Block (default block)	None (blocked)	
Safe	2	1.5	1			A
Unknown	2	1	0.5	0	-0.5	B
Not Classified	2	0.5	0	-0.5	-1	C
Suspicious	0.5	0	-0.5	-1	-1.5	D
Unwanted	0	-0.5	1	-1.5	-2	E
Malicious				2	-2	F
	1	2	3	4	5	

Legitimate Software Prevalence Rating Modifiers

Very High Impact	5
High Impact	4
Medium Impact	3
Low Impact	2
Very Low Impact	1

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.

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.

Legitimate Interaction Ratings

Product	None (allowed)	None (blocked)
Avast Free Antivirus	100	0
Kaspersky Premium	100	0
McAfee Total Protection	100	0
Microsoft Defender Antivirus (consumer)	100	0
NortonLifeLock Norton360	100	0
Panda Dome	100	0
Sophos Home Premium	100	0
Webroot Antivirus	100	0

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

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 x 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 **Legitimate Accuracy Ratings** on page 9.

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	32
High Impact	32
Medium Impact	18
Low Impact	12
Very Low Impact	6

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

Appendix C: Terms Used

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 D: FAQs

Q 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.

Q 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.

A **full methodology** for this test is available from our website.

- The test was conducted between 18th September and 20th November 2024.
- All products were configured according to each vendor's recommendations, when such recommendations were provided.
- Targeted attacks were selected and verified by SE Labs.
- Malicious emails, URLs, attachments and legitimate messages were independently located and verified by SE Labs.
- Malicious and legitimate data was provided to partner organisations once the test was complete.

Appendix E: Product Versions

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

Vendor	Product	Build Version (start)	Build Version (end)
Avast	Free Antivirus	Program Version: 24.6.6121 (Build 24.6.9241.851) Virus Definitions Version: 240701-0 UI Version: 1.0.810	Program Version: 24.11.6137 (Build 24.11.9615.883) Virus Definitions Version: 241114-0 UI Version: 1.0.823
Kaspersky	Premium	21.18.5.438(a)	21.18.5.438(a)
McAfee	Total Protection	1.21.162	1.21.162
Microsoft	Defender Antivirus (consumer)	Antimalware Client Version: 4.18.24080.9 Engine Version: 1.1.24080.9 Antivirus Version: 1.417.641.0 Anti-spyware Version: 1.417.641.0	Antimalware Client Version: 4.18.24090.11 Engine Version: 1.1.24090.11 Antivirus Version: 1.421.289.0 Anti-spyware Version: 1.421.289.0
NortonLifeLock	Norton360	22.22.9.11	Program Version: 24.11.9615 (build 24.11.9615.883) Virus Definitions Version: 241114-0
Panda	Dome	22.03.00	22.03.00
Sophos	Home Premium	2023.2.2.2	2023.2.2.2
Webroot	Antivirus	9.0.35.12	9.0.35.12

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