SE LABS ®

EMAIL
PROTECTION

Advanced Security Test Report

Coro

Email and Cloud Security

ONLINE REPORT

MAY 2025

SE LABS tested **Coro Email and Cloud Security**, against a mixture of targeted attacks using well-established techniques and public attacks that were found to be live on the internet at the time of the test.

The results indicate how effectively the service was at detecting and/or protecting against those threats in real time and shortly after the attacks took place.

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SE Labs is ISO/IEC 27001 : 2022 certified and BS EN ISO 9001 : 2015 certified for The Provision of IT Security Product Testing.

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If you spot a detail in this report that you don't understand, or would like to discuss, please contact us. 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 LinkedIn.

Test email security against business-focussed attackers

Ignore Business Email Compromise test cases at your peril

Good security testing is realistic, using the kinds of threats customers see in real life. This is why we put a lot of focus on Business Email Compromise (BEC) scenarios, rather than just more conventional threat types (like generic phishing and malware).

Many organisations focus on blocking spam and detecting malware, but BEC attacks present a different kind of threat. BEC targets the human element of email communication. Attackers craft convincing, fraudulent emails that appear to come from legitimate sources, tricking recipients into transferring money, sharing sensitive information or performing other actions that compromise the organisation.

BEC cases are not about malware detection or basic spam filtering. Instead, they exploit trust and authority. These attacks may bypass traditional security mechanisms because they often don't contain malicious links or attachments. Instead, they rely on social engineering, making them incredibly dangerous and quite hard to spot by either people or technology.

Testing email security without BEC scenarios is to ignore a highly effective and popular method that attackers use every day to infiltrate businesses. It's essential to ensure that email security solutions are able to recognise these nuanced threats and react accordingly.

Furthermore, adding security to a standard email platform shouldn't be an afterthought. Many businesses assume that the platforms they use, such as Microsoft 365 or Google Workspace, have robust, built-in defences. While these platforms offer a solid baseline, they are not infallible. Attackers continuously evolve their tactics, exploiting gaps in standard security settings.

Comprehensive email security requires layered defences that integrate seamlessly with these platforms, providing advanced detection capabilities, including AI-driven anomaly detection, BEC filtering, and more.

By enhancing the built-in security of these platforms, organisations can mitigate risks more effectively. Security should be adaptive and proactive, not reactive, ensuring that your organisation stays protected even as threats evolve. Including BEC scenarios in testing is an essential part of validating these systems' robustness.

Executive Summary

This test examined the effectiveness of **Coro Email and Cloud Security** against a wide range of threats that target enterprise and small business through email.

SE Labs used advanced targeted attack techniques, as seen in devastating real-world attacks, to assess how well this service handles email cyber threats. Legitimate messages were also sent through the service to ensure that security settings were balanced with reasonable usability.

Coro Email and Cloud Security is a commercial service designed to provide additional security to email platforms such as those from Google and Microsoft. It was very effective at detecting malicious email and prevented almost all of them from reaching the end-user's Inbox. The product was especially effective against phishing emails and malware attacks, achieving 100% protection against these types of threats.

It achieved a high overall Protection Accuracy Rating of 94%, missing only a few emails that employed social engineering and business compromise techniques. It achieved a higher Legitimate Accuracy rating of 97% for allowing legitimate email through to the Inbox.

These excellent scores contributed to **Coro Email and Cloud Security's** 94% Total Accuracy Rating and its AAA award.

Executive Summary

Coro Email and Cloud Security		
	Accuracy Score	Rating (%)
Protection Accuracy	4,545/4,860	94%
Threat Detection Rates	479/486	99%
Legitimate Accuracy	1,070/1,100	97%
Total Accuracy	5,615/5,960	94%

● For exact percentages, see 2. Total Accuracy Ratings on page 10.

Advanced Security Test Award

The following product wins the SE Labs award:

Coro
Email and Cloud Security

How We Tested

Targeted attacks comprise four categories: Social Engineering; Phishing; Malware; and Business Email Compromise. For each of these categories we created a number of main Test Case Structure variations.

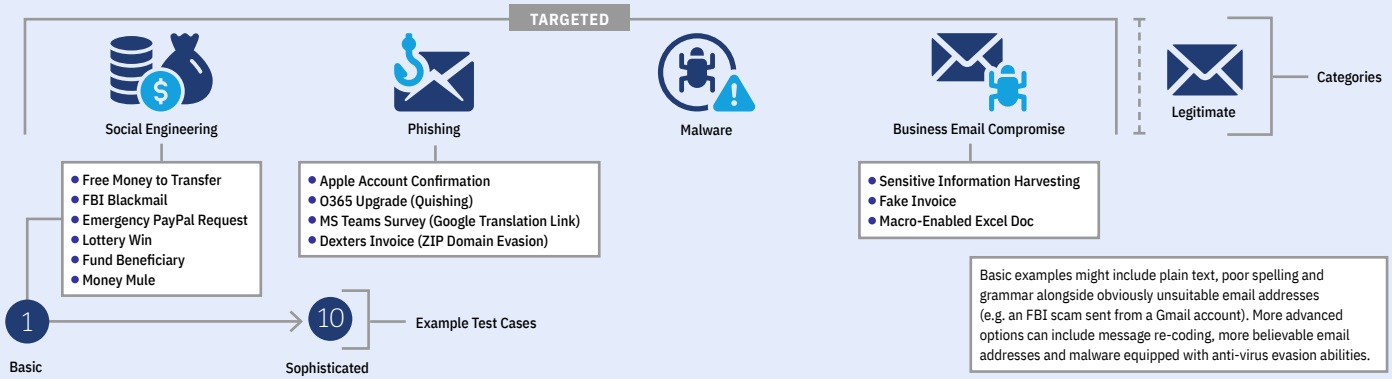
In the example below you can see that the social engineering messages are formed into six groups (scenarios), including free money transfer, lottery win and law enforcement blackmail scams. For each scenario we create variants that range in sophistication from extremely basic to very advanced. The goal is to test the effectiveness of each email security service and configuration when facing a range of different types of attacker, or at least a range of different attack approaches.

Legitimate messages were constructed in-house. Email messages travel over the internet to their recipients. Before they reach the Inbox, they negotiate their way through various security services before reaching the target's own infrastructure. There are opportunities for detection and protection at different stages in this journey.

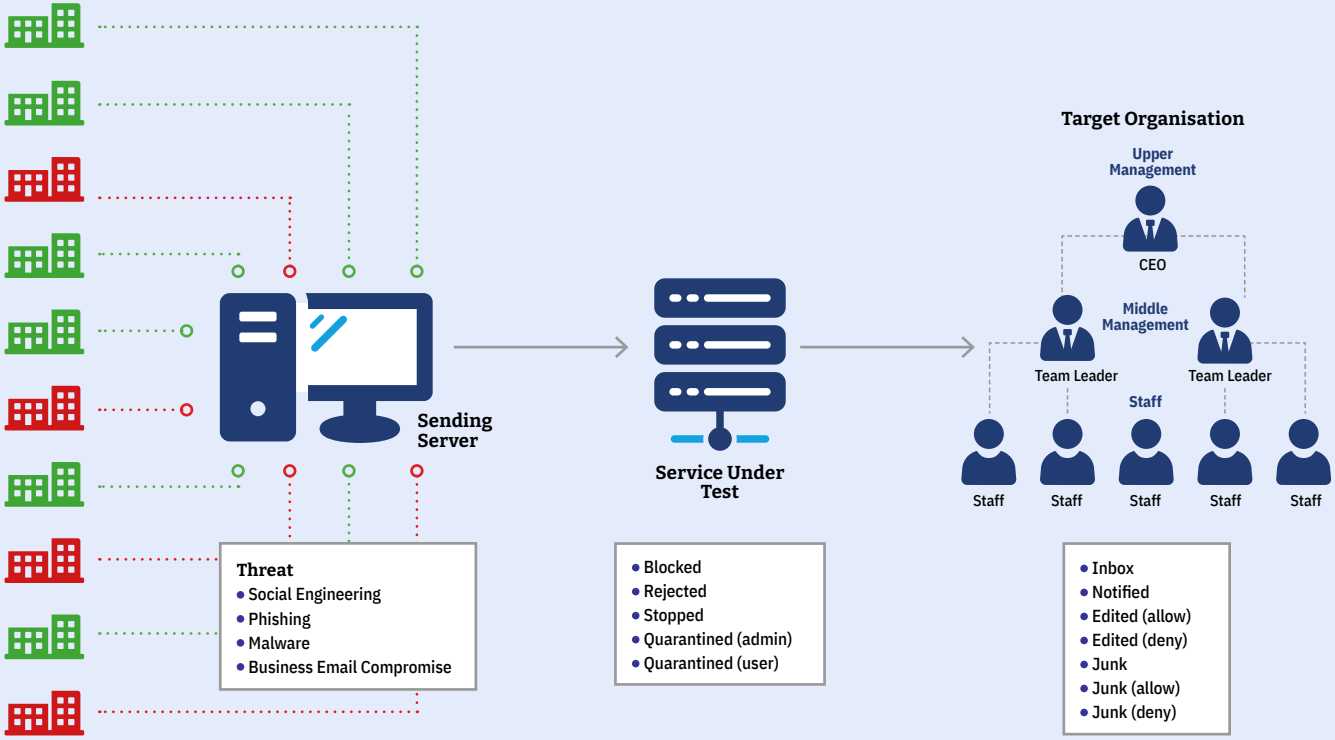
Bad messages might be prevented from entering the 'service under test', being blocked or otherwise rejected. Once within the service, the message might be detected and prevented from progressing further, or it might be placed into a 'Quarantine' from which either a user or administrator may release it.

Messages may end up in the Inbox or Quarantine, with or without changes such as removed or rewritten URLs, attachments and other elements.

Test Case Structure



Results and Scoring



Attack Details

When testing services against targeted attacks, it is important to ensure that the attacks used are relevant. Anyone can run an attack randomly against someone else. It is the security vendor's challenge to identify common attack types and to protect against them. As testers, we need to generate threats that in some way relate to the real world.

All of the attacks used in this test are valid ways to compromise an organisation. Without any security in place, all would succeed in attacking the target. Outcomes would include systems infected with ransomware, remote access to networks and data theft.

But we didn't just sit down and brainstorm how we would attack different companies. Instead, we used current threat intelligence to look at what the bad guys have been doing over the last few years and copied them quite closely. This way, we can test the services' abilities to handle similar threats to those faced by global governments, financial institutions and national infrastructure.

The graphic on this page shows a summary of the attack groups that inspired the targeted attacks used in this test. If a service was able to detect and protect against these, then there's a good chance they are on track to blocking similar attacks in the real world. If they fail, then you might take their bold marketing claims about defeating hackers with a pinch of salt.

For more details about each APT group see **Appendix A: Attack Details** on page 14.

Attack Details

Attacker/ APT Group	Method	Target	Details
OilRig	Webpage to .exe		Drive-by download to an .exe file containing ransomware
Saint Bear	Hidden link to .exe		Malicious PowerPoint containing ransomware
MuddyWater	Hidden link to .exe		Malicious PDF document containing ransomware
APT38	Zipped exe		Malicious .exe file that creates a backdoor to a C2 server
APT29	shellcode/exe		Zipped malicious .exe file that creates a backdoor to a C2 server
Windshift	Link to .exe		Malicious .exe that creates a backdoor to a C2 server

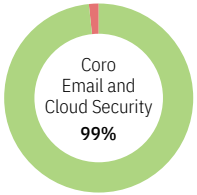
KEY					
	Critical Infrastructure		Defense		Energy
	Financial Industries		Government Espionage		Research Institutes

1. Threat Detection Results

While testing and scoring email security services is complex, it is possible to report straight-forward detection rates. The figures below summarise how each service and configuration handles threats in the most general, least detailed way.

Threat Detection Result

Products Tested	Detection Rate	Misses	Detection Rate (%)
Coro Email and Cloud Security	479	7	99%



- **Detection rates are a useful but unsubtle way to compare services.**

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2. Total Accuracy Ratings

Judging the effectiveness of an email hosted protection service is a subtle art and many factors need to be considered when assessing how well it performs. To make things easier we've combined all of the different results into one easy-to-understand table.

The graphic below takes into account not only each service's ability to detect and protect against threats, but also its handling of non-malicious messages and components of those messages, such as attachments and links to websites.

Not all protection measures, or detections for that matter, are equal. A service might completely delete an incoming malicious email and never allow the intended recipient to see (and subsequently interact with) it. Services may condemn suspicious messages to a 'quarantine' area if it lacks the utter conviction that the message is unwanted. This keeps threats away from recipients unless the recipient judges that the message is really safe. At the weaker end of the scale, the service might simply add a warning to the email's Subject line.

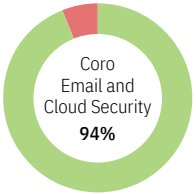
We take these different possible outcomes into account when attributing points that form final ratings.

For example, a service that completely blocks a malicious message from falling into the hands of its intended recipient is rated more highly than one that prefixes the Subject line with "Malware:" or "Phishing attempt:" or sends the message to a 'Junk' folder.

Categorising how a service handles legitimate messages is similar, but in reverse. Making a small change to the Subject line is much less serious a failing than deleting the message and failing to notify the recipient.

Total Accuracy Rating

Products Tested	Total Accuracy Rating	Total Accuracy Rating (%)
Coro Email and Cloud Security	5,615/5,960	94%



● **Total Accuracy Ratings combine protection and false positives.**

3. Protection and Legitimate Handling Accuracy

The results below indicate how effectively the services dealt with threats and legitimate email. Points are earned for detecting threats and for blocking or otherwise neutralising them. Points are also earned for allowing legitimate email entry into the recipient's Inbox without significant damage.

Stopped; Rejected; Notified; Edited effectively (+10 for threats; -10 for legitimate)
If the service detects the threat and prevents any significant element of that threat from reaching the intended recipient, we award it 10 points.

If it miscategorises and blocks or otherwise significantly damages legitimate email then we impose a minus 10-point penalty.

Quarantined (Between +10 for threats; -10 for legitimate)
Services that intervene and move malicious messages into a Quarantine system are awarded either six or ten points depending on whether or not the user or administrator can recover the message. However, there is a six- to ten-point deduction for each legitimate message that is incorrectly sent to Quarantine.

Junk (+5 for threats; -5 for legitimate)
The message was delivered to the user's Junk folder.

Inbox (-10 for threats; +10 for legitimate)
Malicious messages that arrive in the user's Inbox have evaded the security service. Each such case loses the service 10 points. All legitimate messages should appear in the Inbox. For each one correctly routed there is an award of 10 points.

Rating Calculations

For threat results we calculate the protection ratings using the following formula:
Protection rating =
(10x number of Stopped etc.) +
(6-10x number of Quarantined) +
(5x number of Junk) +
(-10x number of Inbox)
etc.

For legitimate results the formula is:
(10x number of Inbox) +
(-5x number of Junk) +
(-6 -10x number of Quarantined) +
(-10x number of Stopped etc.)
etc.

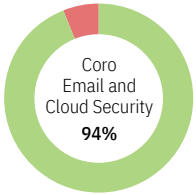
These ratings are based on our opinion of how important these different outcomes are. You may have a different view on how serious it is for a legitimate email to end up in Quarantine, or for a malware threat to end up in the Inbox. You can use the raw data from this report (See **Appendix B: Detailed Results** on page 15) to roll your own set of personalised ratings.

Scoring Different Outcomes

Action	Threat	Legitimate
Inbox	-10	10
Junk Folder	5	-5
Quarantined (admin)	10	-10
Quarantined (user)	6	-6
Notified	10	-10
Stopped	10	-10
Rejected	10	-10
Blocked	10	-10
Edited (Allow)	-10	10
Edited (Deny)	10	-10
Junk (Deny)	10	-10
Junk (Allow)	-7	7

Protection Accuracy Rating

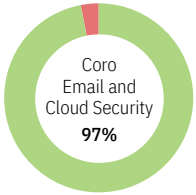
Products Tested	Protection Accuracy Rating	Protection Accuracy Rating (%)
Coro Email and Cloud Security	4,545/4,860	94%



Legitimate Accuracy Rating

The table below shows how accurately the services handled legitimate email. The rating system is described in detail in **3. Protection and Legitimate Handling Accuracy** on page 11.

Products Tested	Legitimate Accuracy Rating	Legitimate Accuracy Rating (%)
Coro Email and Cloud Security	1,070/1,100	97%



- **Legitimate Accuracy Ratings give a weighted value to services based on how accurately they handle legitimate messages.**

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4. Conclusion

This test exposed **Coro Email and Cloud Security** to a wide range of threats. We used documented targeted attack methods as used by real-life attackers. These included focussed phishing, custom malware, business compromise techniques and other types of social engineering.

We've listed the attacker groups that inspired **our attacks** on page 14. To make things even more realistic, we created a simulated target organisation with regular suppliers and other partners. This enabled us to create look-alike adversaries. We used techniques such as using similar domain names to send malicious emails.

At SE Labs, we believe that security products should keep threats as far away from end users as possible. Our scoring reflects that. With most security testing, and email in particular, there are so many variables and possible outcomes that the results can look a little overwhelming. We've tried to provide a neat 'Total Protection' score for the product being tested to help simplify things, while providing enough data to allow you to create your own scoring system should you wish.

You can divide the email services that we test regularly into two main groups: platforms and third-party services. Platforms include Google, Microsoft and Yahoo. Third-party services handle email before or as it is delivered. Some act as gateways, receiving and processing messages before either deleting them or forwarding them to the platform. Others integrate more directly into the platform, which is an increasingly common approach. **Coro Email and Cloud Security** belongs to the latter category, working with Google's Gmail platform or Microsoft's 365 cloud service through an application programming interface (API) connection.

Test results show that **Coro Email and Cloud Security** was effective at providing an additional layer of protection against the types of sophisticated email attacks typically deployed by state-sponsored groups. It detected 99% of the attacks and was able to protect against 94% of them.

The small difference between the detection and protection ratings may be attributed to how the product handles different types of email threats. It was most effective against phishing emails, stopping a few at the onset of the attack, and putting the rest in Quarantine where it could only be accessed by an administrator.

Coro Email and Cloud Security was equally effective at preventing the execution of malware contained in targeted attacks. It likewise placed the bulk of them in strict Quarantine where they cannot be accessed by the end-user. In some instances, it removed the malicious content before it delivered the email.

The product had the most varied handling of social engineering and BEC email. It provided complete protection by stopping one email and placing most of them in strict quarantine. However, points were docked for the very few messages that ended up in the junk folder and the inbox, where they could be opened by a hapless end-user.

The product was very effective at recognising legitimate email and achieved an excellent Legitimate Accuracy Rating of 97%. This, combined with the 99% Detection Accuracy Rating and the 94% Protection Accuracy Rating, contributed to the 94% Total Accuracy Rating, an outstanding result which made **Coro Email and Cloud Security** deserving of its AAA award.

Appendices

Appendix A: Attack Details

Targeted Attack Types

Attack Group: OilRig
Method of Attack: Webpage to .exe file
Targets: Energy

OilRig is a suspected Iranian state-backed threat group active since 2014, targeting sectors such as finance, government, and energy through supply chain attacks, using Iranian infrastructure in alignment with Iran's national interests.

References https://attack.mitre.org/groups/G0049/

Attack Group: Saint Bear
Method of Attack: Hidden link to .exe file
Targets: Government

Saint Bear is a Russian-linked threat actor active since 2021, targeting Ukraine and Georgia. It uses tools like Saint Bot and OutSteel, relying on phishing and spoofed documents, and is distinct from Ember Bear in tactics and tools.

References https://attack.mitre.org/groups/G1031/

Attack Group MuddyWater
Method of Attack: Hidden link to .exe file
Targets: Defense

MuddyWater is a cyber espionage group linked to Iran's MOIS, active since 2017. It targets government and private sectors including defense, telecoms, and energy across the Middle East, Asia, Africa, Europe, and North America.

References https://attack.mitre.org/groups/G0069/

Attack Group APT38
Method of Attack: Zipped .exe
Targets: Financial Organisations

APT38, a North Korea-based threat group, targets banks, financial institutions, and cryptocurrency exchanges in over 30 countries. Notable attacks include the Bank of Bangladesh, Bancomext, and Banco de Chile, stealing billions in cryptocurrency.

References https://attack.mitre.org/groups/G0082/

Attack Group APT29
Method of Attack: shellcode/exe
Targets: Research Institutes

APT29, based in Russia and linked to the foreign intelligence service, includes groups like IRON RITUAL and NobleBaron. It targets government networks and research institutes using malicious PDFs with decoy documents to silently infect victims.

References https://attack.mitre.org/groups/G0016/

Attack Group Windshift
Method of Attack: Link to .exe
Targets: Critical Infrastructure

Windshift is a threat group that has been active since at least 2017, targeting specific individuals for surveillance in government departments and critical infrastructure across the Middle East.

References https://attack.mitre.org/groups/G0112/

Appendix B: Detailed Results

The following tables show how each service handled different types of targeted attack. The table at the end of the series also summarises how they handled different categories of commodity threats.

There are four main categories of targeted attack used in this test:

- **Business Email Compromise**
- **Phishing**
- **Social Engineering**
- **Malware**

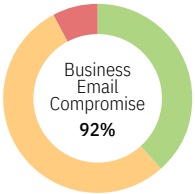
Each service has a number of options when handling such threats. The tables show how each service handled each category.

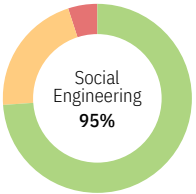
For example, you can see how many social engineering samples made it through to the Inbox; how many were sent to the Junk folder; and how many were prevented from coming anywhere near the user – the Junk folder and Quarantine (admin) are common options.

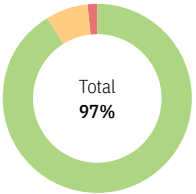
Not every possible option needs to be taken by a service under test, so the tables show only those outcomes that occurred.

Targeted Attack Details

Targeted Attack	Stopped	Blocked	Quarantine (admin)	Rejected	Edited (deny)	Quarantine (user)	Junk (deny)	Junk Folder	Junk (allow)	Edited (allow)	Inbox
Business Email Compromise	0	0	7	0	1	0	2	14	0	0	2
Phishing	34	0	265	0	0	0	1	0	0	0	0
Social Engineering	1	0	73	0	0	0	0	21	0	0	5
Malware	0	0	40	0	20	0	0	0	0	0	0
Total	**35**	**0**	**385**	**0**	**21**	**0**	**3**	**35**	**0**	**0**	**7**







Legitimate Message Details

These results show how effectively the service managed messages that posed no threat. In an ideal world, all legitimate messages would arrive in the Inbox. When they are categorised as being a threat then a 'false positive' result is recorded.

It is important to test for false positives because too many indicate a product that is too aggressive and will block useful email as well as threats. It would be easy to create a product that blocked all threats if it was also allowed to block all legitimate email.

Finding the balance between allowing good and blocking bad is the key to almost every type of security system.

Product	Inbox	Edited (allow)	Junk Folder	Junk (allow)	Quarantine (admin)	Blocked
Coro Email and Cloud Security	108	0	2	0	0	0

Appendix C: Product Version

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)
Coro	Email and Cloud Security	2.5.65.1 (3.2)	2.5.75.1 (3.4.2)

Appendix D: Terms Used

The results use the following terms:

- **Notified** The service prevented the threat from being delivered and notified the user. There was no option for the user to recover the threat.
- **Stopped** The service silently prevented the threat from being delivered.
- **Rejected** The service prevented the threat from being delivered and sent a notification to the sender.
- **Edited (deny)** The service delivered the message but altered it to remove malicious content.
- **Junk (deny)** The service modified the message, which was sent to the target Junk folder. The malicious content was removed.
- **Blocked** The service prevented the threat from being delivered and logged the event.
- **Quarantined (admin)** The service prevented the threat from being delivered and kept a copy of it, which could be recovered by the administrator only.
- **Quarantine (user)** The service prevented the threat from being delivered and kept a copy of it, which could be recovered by the user.
- **Junk Folder** The message was delivered to the user's Junk folder by the email platform.
- **Junk (allow)** The service modified the message, which was sent to the target Junk folder, but didn't remove the malicious content.
- **Inbox** The service failed to detect or protect against the threat.
- **Edited (allow)** The service modified the message, which was sent to the target Inbox, but didn't remove the malicious content.

Appendix E: 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 3rd March and 11th April 2025.
- All products were configured according to each vendor's recommendations, when such recommendations were provided.
- Malicious emails, URLs, attachments and legitimate messages 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

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