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How to Secure Your Weakest Link: Your Email

Most of us know that business email compromise (BEC) is a common vector for

network attacks – but few realize just how vulnerable they are to threats. The rapid transition to remote work during the pandemic has created massive

email provider to protect their scattered workforce. But InQuest's comprehensive experiment measuring email security efficacy

new opportunities for security breaches. Employers often place their faith in their

demonstrates a significant gap in available protection. Neither Microsoft nor Google can do enough to stem the tide of threats.

Here's the bottom line: to protect the enterprise, you must augment your email

security to close the gap.

94% of threats breach your environment via email

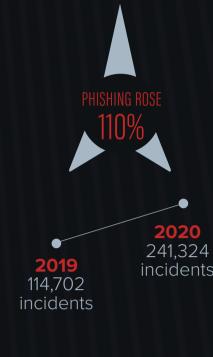


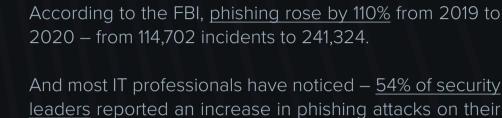


But BEC covers many classes of threats: phishing, VIP impersonation, invoice fraud, crypto scams, account takeover attacks (ATO), and more.



Attacks have soared during the pandemic



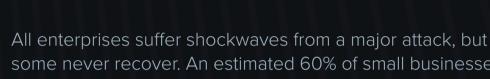


Ransomware attacks doubled between 2020 and 2021. It's estimated that a ransomware attempt is now made on

enterprise during the pandemic.

a U.S. business every 11 seconds.

The average data breach now costs businesses more than \$4 million



some never recover. An estimated 60% of small businesses are forced to shut down within six months of a breach.

breach costs Remote work adds \$1.07 million in breach costs on average --

\$1.07 million



60%

\$1.8 billion



compared to attacks where remote work was not involved.

productivity costs

How well does your email provider protect you from

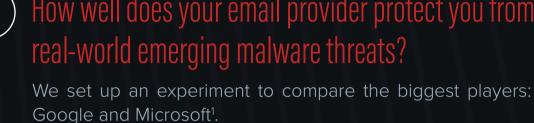
Google Suite Threats Missed by Month

Microsoft Office 365 Threats Missed by Month

Globally, it's estimated that

ransomware costs \$18 billion -

factoring in lost productivity.



In 2021², we collected 221,160

- Google Suite missed 19% of

incoming threats (42,590)

Step 1:

real-world malicious attachments from the wild and sent them by email. Our findings:

Step 2:

- Google missed 21,771 unique threats

- Microsoft missed 6,702 unique threats

- Microsoft Office 365 missed 11% of incoming threats (24,300)

Further inspecting INCOMING malware that evaded at least one of the providers, **InQuest Email Security only**

missed 816 unique threats

(an 8X-27X improvement)

we found a substantial number of UNIQUE threats:

Totals

¹Data collected by InQuest's Trystero Project -- an experiment designed to measure the security efficacy of the two

² Number of malware artifacts bypassed detection efforts for each provider between January and October 2021.

largest mail providers, Google and Microsoft, as well as InQuest, against real-world emerging malware.

Almost every file type sent or received can contain a threat

Nearly half (48%) of malware

In March 2022, InQuest harvested **585 evasive** real-world threats. Of these, Microsoft missed 46% and Google missed 83%. The most frequently abused file formats for embedding malware are Microsoft Word and Microsoft Excel.

used in phishing attacks comes through Office files.



GSuite Sent

O365+ Sent

27,839

27,839

48%

vary over time, but neither email provider provides sufficient protection. Google

No single provider is foolproof

GSuite Blocked

27,304

27,318 27,839 17,012 O365++ Sent

O365 Sent

27,839

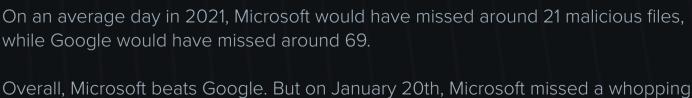
So, who's the winner (blocked threats in an average week)? Neither. Results

Microsoft

What should/can you do to improve

O365 Blocked

27,338



Request an Email Attack only takes minutes and is totally transparent Simulation (create one user with one forwarding rule).

security gaps.

Get a fast and free Email Attack Simulation. Setup

your email security?

1,149 attacks while Google only missed 30. On at least 40 occasions throughout the year, Google beat Microsoft.

(ICES) service to see how you can close critical

References

https://www.ibm.com/security/data-breach

Schedule a Briefing

• https://www.verizon.com/business/resources/executivebriefs/2019-dbir-executive-brief.pdf • https://www.verizon.com/business/resources/executivebriefs/2019-dbir-executive-brief.pdf • https://www.ic3.gov/Media/PDF/AnnualReport/2020_IC3Report.pdf

- https://www.microsoft.com/security/blog/2020/08/19/ microsoft-shows-pandemic-a ccelerating-transformation-cyber-security/
- https://www.cisa.gov/ • https://www.ibm.com/security/data-breach • https://www.verizon.com/business/resources/executivebriefs/2019-dbir-executive-brief.pdf
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