

DECODING THE CYBER SECURITY REPORT



HORNETSECURITY

OUR AGENDA

- ▶ Introductions
- ▶ The Security Lab
- ▶ About the Cyber Security Report
- ▶ Our Discussion
- ▶ Wrap-Up and Q & A



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YOUR HOST TODAY

Andy Syrewicze has been in the IT Industry for more than 20+ years, is a Microsoft CDM MVP and is currently a Security Evangelist for Hornetsecurity.

Andy Syrewicze
Security Evangelist
Microsoft MVP
Mastadon - @andysandwich@infosec.exchange



YOUR SPEAKER

- B.Sc., M.Sc., Dr.-Ing. Leibniz University Hanover (Computer Science)
- > 5 years in research
- DFG Research Group OC-Trust
- 20 scientific publications
 - System Architecture, Security, Cloud, Artificial Intelligence & Machine Learning
- > 9 years at Hornetsecurity
- Initially Personal Assistant to the CEO
- > 5 Years Head of Product Management
- CTO since 2021



Dr. Yvonne Bernard
Chief Technology Officer
Hornetsecurity



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YOUR SPEAKER

- 14 years in IT, with 10 years in IT security
- > 10 years at Hornetsecurity
- Head of Security Lab since 2019
- Located in Hannover, Germany
- Proficient in various aspects of IT security, covering cloud, email, infrastructure and network, but also incident response
- Strong background in data science, particularly in threat research
- Passionate software developer
- IT security leader, shaping strategic approaches to protect organizations



Umut Alemdar
Head of Security Lab
Hornetsecurity



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ABOUT HORNETSECURITY

NEXT-GEN SECURITY FOR MICROSOFT 365

SECURITY - BACKUP - COMPLIANCE - SECURITY AWARENESS SERVICE



HORNETSECURITY

GLOBAL EXPERT IN EMAIL CLOUD SECURITY, COMPLIANCE AND BACKUP



HORNETSECURITY



OUR MISSION

"We empower companies and organizations of all sizes to focus on their core business by protecting email communications, securing data, and ensuring business continuity and compliance with next-generation cloud-based solutions."



OUR VISION

"Hornetsecurity will be the guardian of companies worldwide that use Microsoft 365. We protect their data and ensure business continuity. For a safer 365 world!"



OUR VALUE PROPOSITION

"We offer the most comprehensive cloud security solution for Microsoft 365 on the market, including email security, compliance and backup."

HOW IT ALL STARTED – OUR STORY



Ready for
Take Off

2007



Beginning of
internationalization

2008



Presence in more than **10 countries** with over **200 sales partners**

2010



Over **25,000 companies** as customers

2013



Market leader in Germany; Awarded with Deloitte Technology **Fast 50 Award**

2014



antispameurope becomes **Hornetsecurity**

2015



Over **550 resellers worldwide**

2016



10 years of Hornetsecurity; **Foundation of US subsidiary**

2017



Acquisition of AVIRA Spamfilter division; **Market leader in German-speaking region**

2018



Partnership with Swisscom; **Acquisition of Spamina**

2019



Acquisition of EveryCloud

2020



Acquisition of **ALTARO;** Acquisition of **ZEROSPAM**

2021



Acquisition of IT-Seal

2022

HORNETSECURITY WORLDWIDE – SWARM MEETS WORLD



THE SECURITY LAB



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HORNETSECURITY SECURITY LAB

- International team of software engineers, data scientists, and IT security specialists
- 24/7 monitoring of the threat landscape
- Exclusive facts & figures (average):
 - 👁 33,120 new email-based threats observed on an average day
 - 👁 12,996 ransomware attacks per hour
 - 👁 361 "sophisticated" phishing attacks per minute
 - 👁 8 multi-vector (phone, email) fraud attacks per minute



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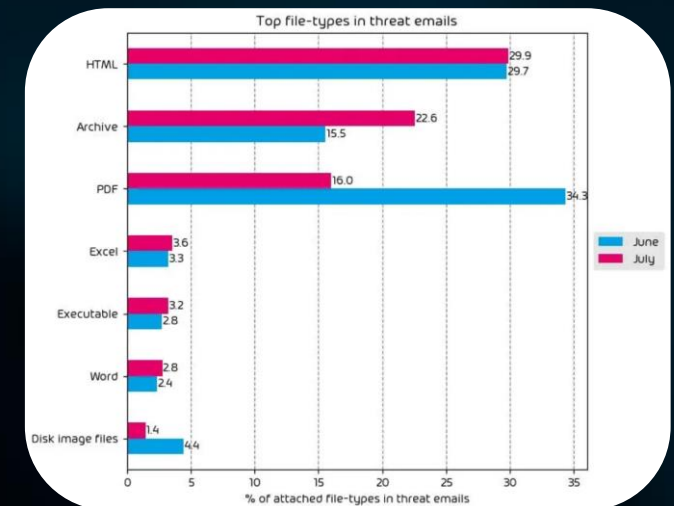
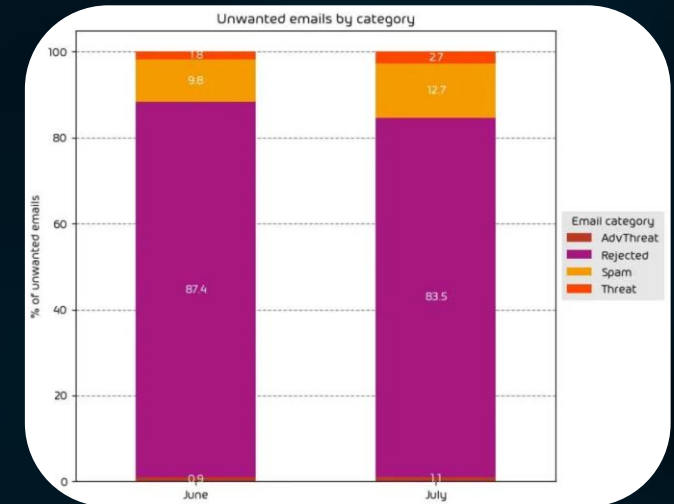


Fig. 1 & 2: Graphs of various email threats reported by the Hornetsecurity Security Lab



THE SECURITY SWARM

A HORNETSECURITY PODCAST



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Listen on
Google Podcasts



Listen on
Apple Podcasts



Listen on
Youtube



THE CYBER SECURITY REPORT



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OUR METHODOLOGY

ANALYSIS OF MORE THAN 45 BILLION EMAILS

36.4 %
UNWANTED



63.6 %
"CLEAN"

Fig. 1: Classification of emails scanned by Hornetsecurity



HORNETSECURITY

DESIGNED FOR
Microsoft 365
ENVIRONMENTS

2024

CYBER SECURITY REPORT

AN IN-DEPTH ANALYSIS OF
THE MICROSOFT 365
THREAT LANDSCAPE



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KEY DATA IN REPORT

- Malicious vs. Clean Emails
- Threat Types
- File Types for Delivery of Malicious Payloads
- Most Impersonated Brands
- Industry Threat Index
- Analysis and Commentary Regarding 2023 Security Incidents
- Predictions for 2024
- Suggested Security Guidance



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DECODING THE REPORT

OUR DISCUSSION



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What is our General Feeling on the State of Email Security in our Industry Today?

ANALYSIS OF MORE THAN 45 BILLION EMAILS



Fig. 1: Classification of emails scanned by Hornetsecurity



96.4%
SPAM or REJECTED



3.6%
MALICIOUS

Fig. 2: Classification of unwanted emails

Phishing accounts for 43.3% of email-based attacks – a nearly 4 percentage point increase from last year.

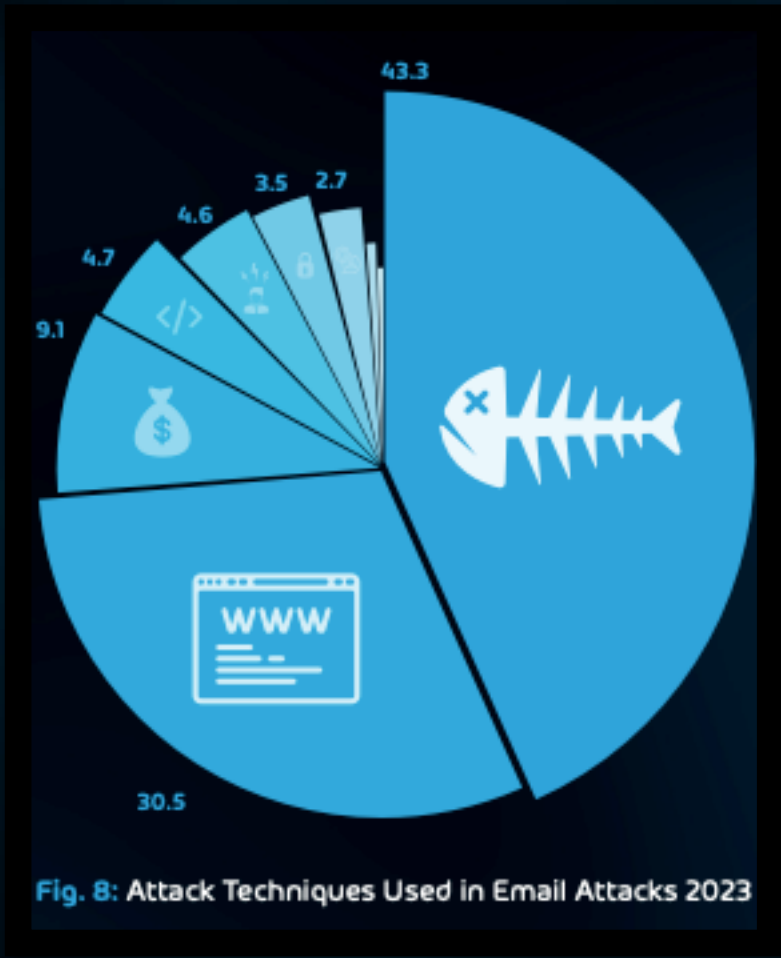


Fig. 8: Attack Techniques Used in Email Attacks 2023

2022 %	2023 %	ATTACK TECHNIQUES
39.6	43.3	Phishing
12.5	30.5	URL
8.2	9.1	Advanced-Fee Scam
1.8	4.7	HTML
3.7	4.6	Extortion
3.5	3.5	Exe. in Archive/Disk-Image
1.1	2.7	Impersonation
2.8	1.0	Maldoc
0.4	0.6	PDF

Fig. 9: Attack Techniques Used in Email Attacks 2022

Why the Increase in HTML and PDF Usage in Malicious Emails?



Fig. 11: File-Types for Malicious Payloads 2022

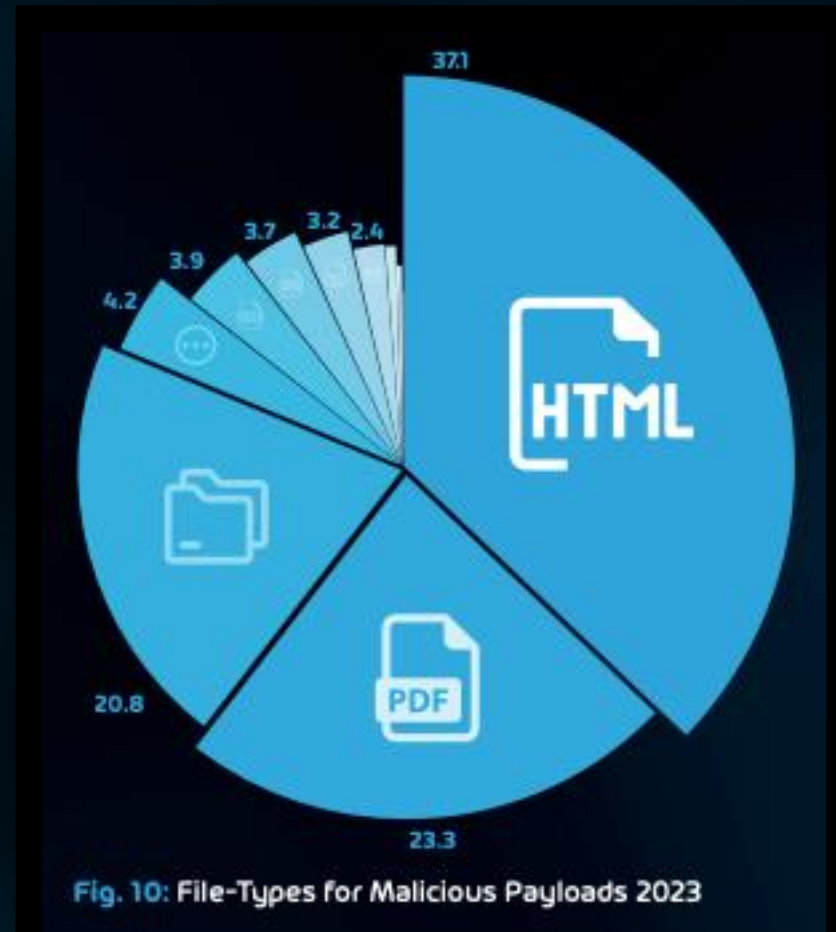


Fig. 10: File-Types for Malicious Payloads 2023

Brand Impersonation Remains a Popular Attack Vector? Thoughts on why and why THESE companies?



Fig. 13: Top 10 Annual Impersonated Brands

In Terms of Top Targeted Industries. Is Everyone Really a Target? Are there any Standout Verticals?



Fig. 12: Annual Industry Threat Index

Let's talk about Vendor Overdependence and Microsoft 365



A Discussion Regarding Major Security Incidents from 2023

Storm 0558

n0Auth

MGM/Caesars

Continued
Exchange
Vulnerabilities

Disruption of
Qakbot

MOVEit

Speaker's Security Predictions for 2024 and How Organizations can Prepare

WRAP-UP



HORNETSECURITY

365 TOTAL PROTECTION SUITE PLANS

NEXT-GEN SECURITY, BACKUP, COMPLIANCE & SECURITY AWARENESS FOR MICROSOFT 365



BUSINESS

ENTERPRISE

BACKUP

COMPLIANCE & AWARENESS

SPAM & MALWARE PROTECTION

ADVANCED THREAT PROTECTION

BACKUP & RECOVERY OF MAILBOXES & TEAMS

PERMISSION MANAGEMENT

PHISHING & ATTACK SIMULATION

COMMUNICATION PATTERN ANALYSIS

EMAIL ENCRYPTION

EMAIL ARCHIVING

BACKUP & RECOVERY OF ONEDRIVE & SHAREPOINT

PERMISSION ALERTS

SECURITY AWARENESS

AI RECIPIENT VALIDATION

EMAIL SIGNATURES & DISCLAIMERS

EMAIL CONTINUITY

BACKUP & RECOVERY OF ENDPOINTS

PERMISSION AUDIT

ESI® REPORTING

SENSITIVE DATA CHECK



ASK A QUESTION!
JOIN THE DISCUSSION!



THANK YOU!



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