

Leveraging AI-based XDR in the new threat landscape

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Trend Micro At a Glance

\$2 Billion

2022 Net Sales

Consecutive Profitable **Quarters**

Every quarter since going public

424,000+

SaaS Commercial Customers

62M+

SaaS-Protected Assets

500.000+ commercial customers. 175+ countries

Leader in XDR

Leader in **EPP**

Next-Gen IPS

Based on global market share*

Based on global market share*

Based on offering strength and strategy*

Based on offering strength and strategy'

in Public Vulnerability Disclosure*
+ Over 140 Billion threats blocked in 2022

7500+ Employees in 73 Countries































Initial Access



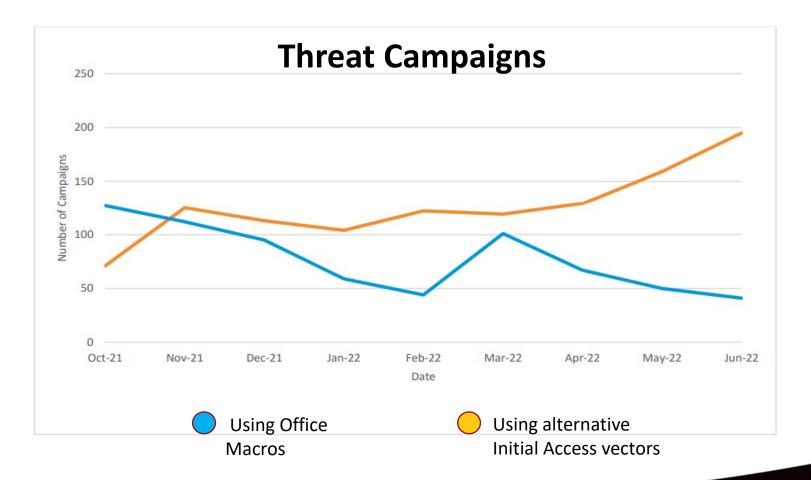


(Financial) Gain



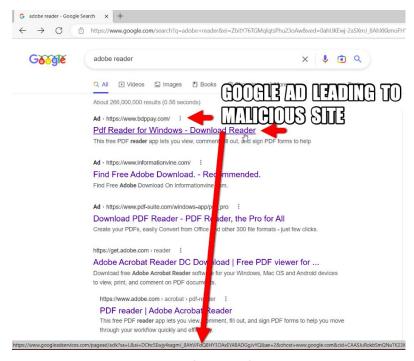
The most popular Initial Access vector.







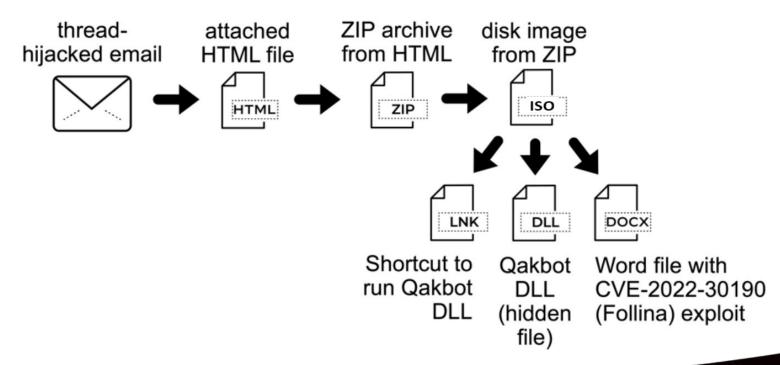
Alternative Initial Access vector ... (1)



Malware!

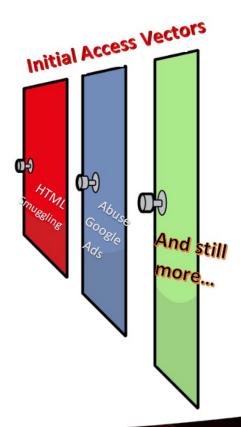


Alternative Initial Access vector ... (2)



How to take advantage of this change?







Quick Takeaways:

- 1. Macro malware, as an easy Initial Access vector, is almost over.
- 2. Now, threat actors are seeking (new) alternatives to gain initial access.
- 3. The known attack surface will change.



Use of commercial pentest tools in most attacks







Use of OS built-in tools / programs in attacks



Living Off The Land Binaries, Scripts and Libraries

Powershell.exe At.exe Certutil.exe Cmstp.exe Bitsadmin.exe Mshtml.dll Cmd.Exe leframe dll Explorer.exe Setupapi.dll Shell32.dll Mshta.exe Msiexec.exe Url.dll Zipfldr.dll Reg.exe Comsvcs dll Regedit.exe

Regsvr32.exe Cl_LoadAssembly.ps1
Rundll32.exe CL_Invocation.ps1

Schtasks.exe Pubprn.vbs

Wmic.exe UtilityFunctions.ps1

Wscript.exe Nltest.exe

Net.exe

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Quick Takeaways:

- 1. Commercial pentest tools lend threat actors efficiency and speed during an attack.
- 2. The use of OS built-in & normal tools complicates detection and response.
- 3. We are moving to less-malware-but-more-commercial/normal tools attack scenario.









LOCKBIT AND BLACK BASTA ARE THE MOST ACTIVE RAAS GROUPS AS VICTIM COUNT RISES

RANSOMWARE IN Q2 AND Q3 2022



Lockbit aka Water Selkie

LockBit 3.0 introduced the first ransomware bug bounty program



Bug Bounty Categories

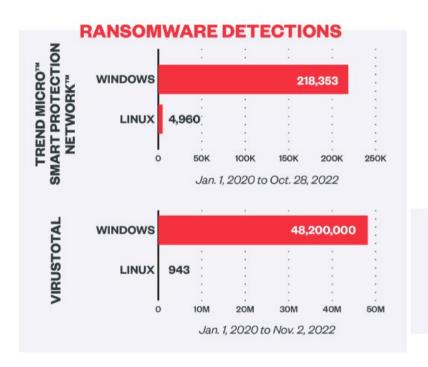
- Web Site Bugs
- Locker Bugs
- TOX messenger
- Tor network
- Brilliant ideas
- Doxing

We invite all security researchers, ethical and unethical hackers on the planet to participate in our bug bounty program.

The amount of remuneration varies from \$1000 to \$1 million.



Ransomware Linux-based Versions



Perform more wide-spread attacks on targets using Linux-based servers

Welcome to Leaks site recated by babyk ransomware Welcome to Isake site Welcome to Isake





Ransomware Linux-based Versions

Groups shifting to Rust and Go eventually develop Linux variants

Ransomware	GoLang	Rust	Linux Variant
Hive	✓	✓	✓
BlackCat		✓	✓
Babuk	✓		✓
BlackByte	✓		✓
PartyTicket	✓		✓
Snatch	✓		✓
Decaf	✓		✓

Why adversaries switch to Rust and Go

Go		RUST		
err	cure, without memory rors that would result in curity vulnerabilities duced compilation times	→	Code safety High performance while processing large amounts of data	
	Internet-oriented and concurrent programming		Support for concurrent programming	
> Μι	ulti-platform	÷	Multi-platform	



Near and Far Future of Ransomware Business Models

Evolution

1.Change of targeted endpoints - internet of things (IoT)/Linux

2.Scale up through increased professionalism and automation

Revolution

1.Hack into **cryptocurrency** exchanges/Steal cryptocurrencies

2.Replace ransomware payload with **business email compromise** (BEC)







Managed Services



Core Services

Ecosystem Integration





Bringing Simplicity to SOC Operations









IOCs shared by:

Government Agencies
Security information sharing organizations
Independent Security Researchers
Third-Party Detections sourced from your SIEM
Corporate Security Teams
Other Security Vendors
Third-party TAXII/MISP

XDR Sensor Data (endpoint, email, network, etc.)



Centralized Risk Assessment
Centralized Investigation
Centralized Response
Centralized Cross-Vendor Block Lists

Automated or Manual Response



Quarantine or Delete Emails



User Password Reset or Disable Account



Endpoint Isolation



URL Blocking



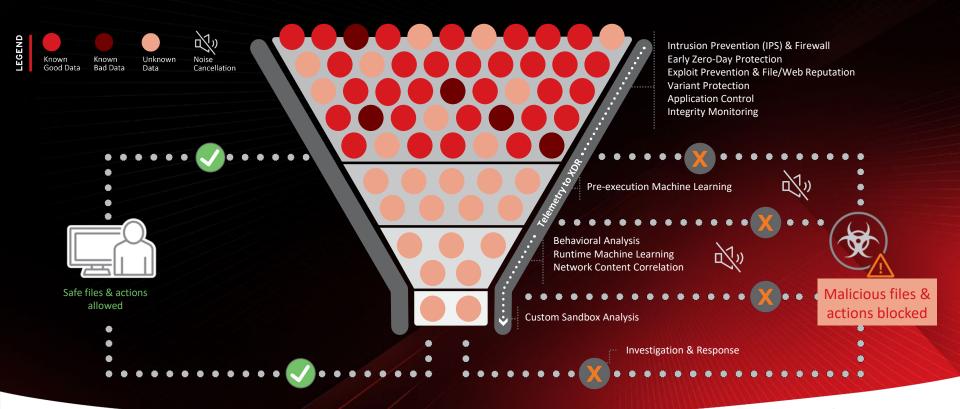
Network Firewall Rules



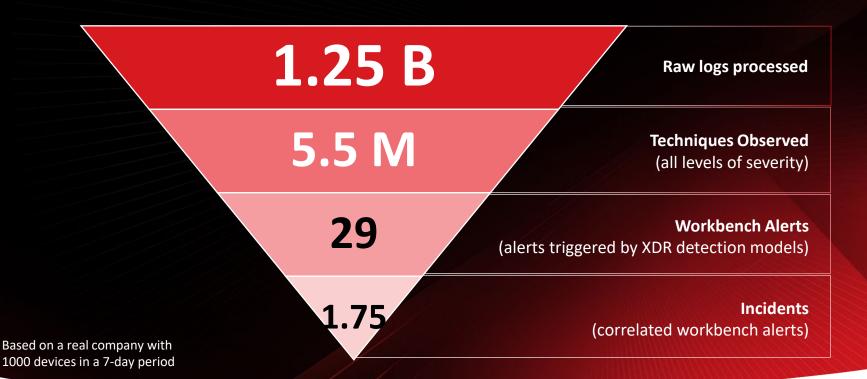
Cloud Sandboxing



Smart, layered security maximizes protection



High Confidence Detections without Alert Overload





Managed XDR: MDR Service by Trend Experts

Expert Threat Hunting

Cutting-edge techniques with verification and enrichment by threat experts



24x7 Monitoring & Detection

Continuous monitoring and routine sweeping of endpoint, server, network, and email

Rapid Investigation and Mitigation

Detailed response plan and remote actions through Trend Micro products





"Big enough to deliver, small enough to care"

Thank you!