

ReversingLabs At-A-Glance

40B+



8X



60+



Searchable Threat Repository

Larger Than Nearest Competitor

Cybersecurity Companies Trust RL

20M



FASTEST



3M



Files Analyzed Daily

Software/File Deconstruction

Malware Identified Daily

300



CRN



5 Star Rated Partner Program F

Gartner



Recognized for SSCS Solution

Verizon Business

DBIR



Report Contributor

Employees Globally

Today's Presenters



Stuart Phillips

Cyber Security Practitioner ReversingLabs



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Field CISO ReversingLabs

This presentation is based on original research by ReversingLabs Threat Researcher, Karlo Zanki

Discussion Overview

- Who is Hidden Cobra (Lazarus)
- How to Read a Cyber Threat Report
- What are the current malware campaigns
- Spectra Analyze Overview
- Using Spectra Analyze to uncover malware
- Other methods to uncover malware
- Questions



Who is Hidden Cobra (Lazarus)?

- Hidden Cobra, also known as Lazarus Group
- North Korean state-sponsored cyber threat group
- Notable Attacks: Sony Pictures
 Entertainment (2014), Bangladesh
 Bank heist (2016), WannaCry
 ransomware attack (2017)



How to Read a Cyber Threat Report

- Understanding Reports: Key components of a cyber threat report
- Interpreting Data: How to analyze and interpret threat data
- Actionable Insights: Turning report findings into actionable security measures



America's Cyber Defense Agency

NATIONAL COORDINATOR FOR CRITICAL INFRASTRUCTURE SECURITY AND RESILIENCE

https://www.cisa.gov/topics/cyber-threats-and-advisories/advanced-persistent-threats/north-korea

Current Malware Campaigns

Recent and ongoing malware campaigns

o COPPERHEDGE, TAINTEDSCRIBE and PEBBLEDASH

Common tactics used by attackers

- Acquire Infrastructure
- Obfuscate Identity
- Purchase VPNs and VPSs
- Gain Access

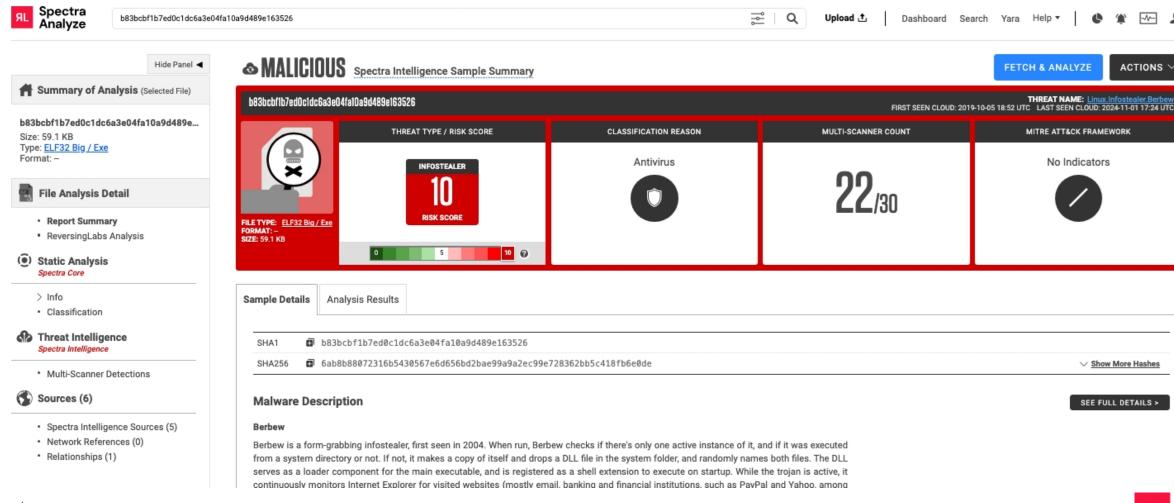
Examples of recent malware campaigns

- Spear-phishing emails in targeted attacks against bank employees
- Windows-based malware to explore a bank's network to identify the payment switch application server
- Compromise payment server and coordinate with external ATM withdrawals

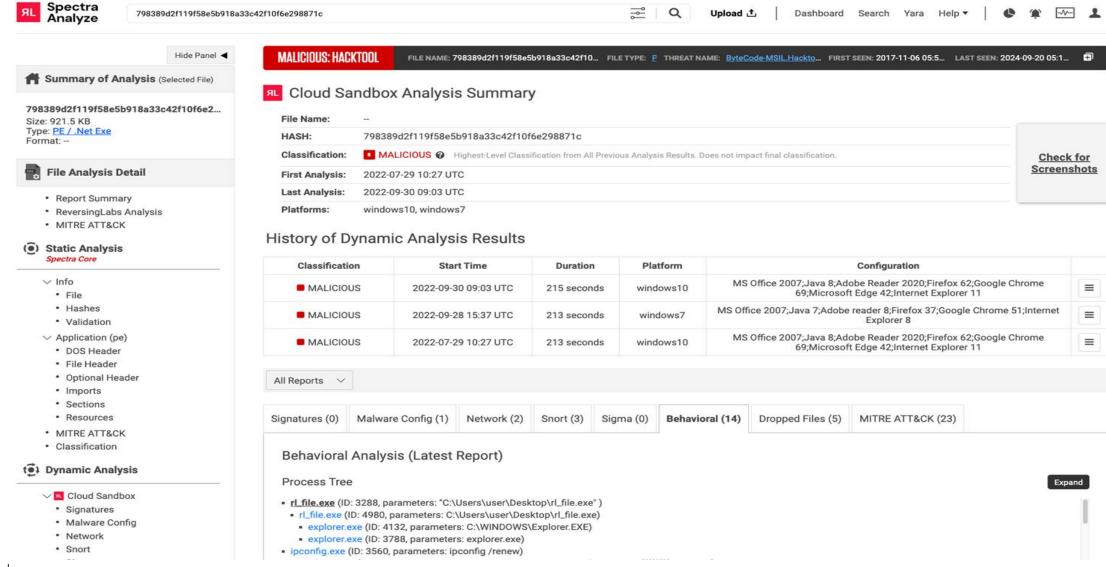


Spectra Analyze

- Spectra Analyze is instance-based appliance Physical and Cloud
- Integration with many SOAR platforms



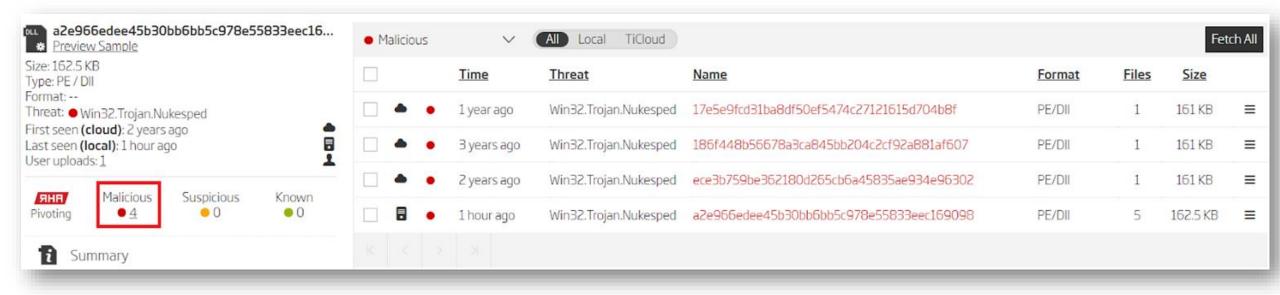
Spectra Analyze Cloud Sandbox



Using Spectra Analyze to Uncover Malware

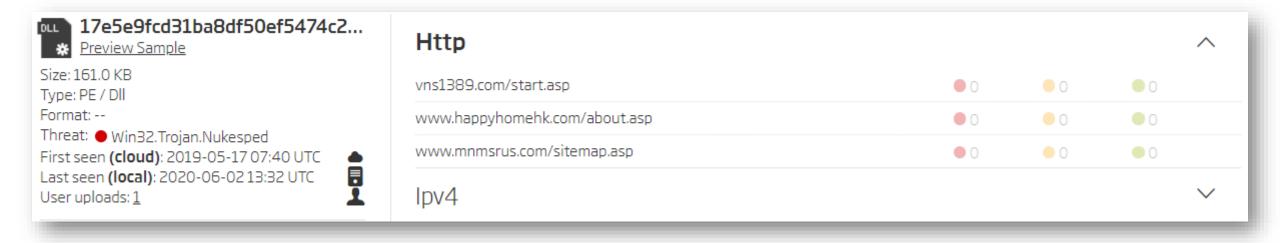
How do you uncover new malware without provided samples?

Use File Similarity ReversingLabs Hashing Algorithm (RHA)



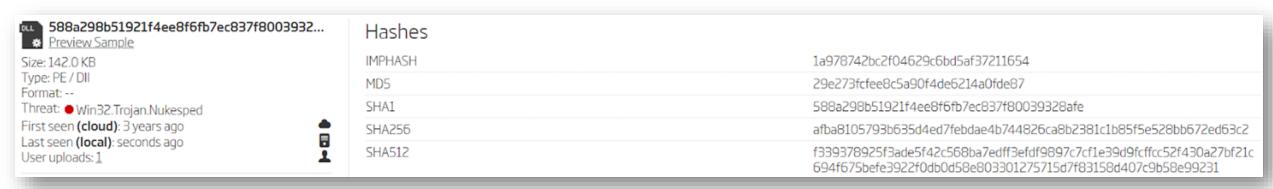
Using Spectra Analyze to Analyze Malware

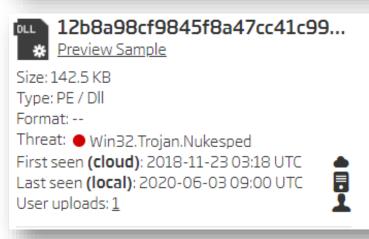
Analyze Metadata within new samples to uncover new C2 domains



Using Spectra Analyze for Section Hashing

YARA Retro Hunt uncovers previously used codebase to uncover more malware

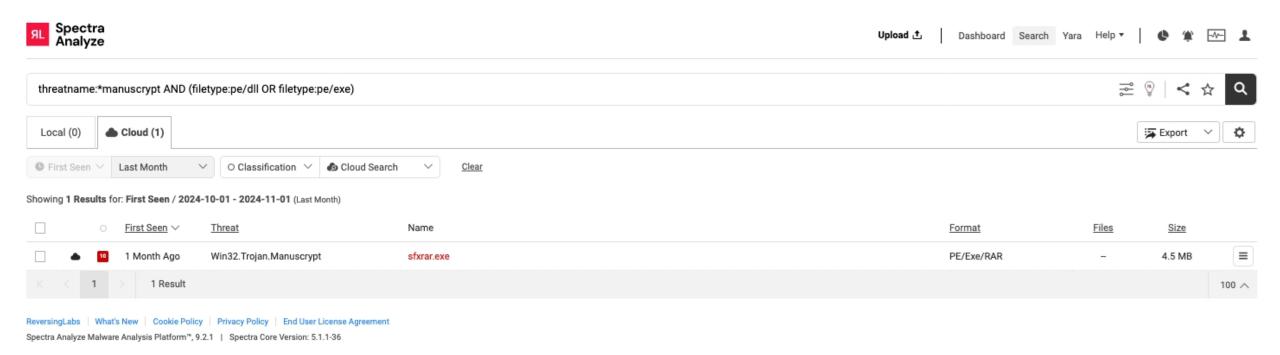




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| wpm.coastal.com.cn/admin/PBrand/Edit.asp | • 0 | • 0 | • 0 | |
| www.abex.co.kr/customer/Top.asp | • 0 | • 0 | • 0 | |
| www.sztqwy.com/xysbags/left.asp | • 0 | 0 | • 0 | |

Using Spectra Analyze to Deconstruct Malware

Search by Threat Name (text within the files)



Other Methods Using Spectra Analyze

- Search based on original file name
- Similar files grouped by RHA1 algorithm
- C2 domains used for TLS communication
- Files having similar file creation date





Additional Insights & Events







