

# Uptycs Quarterly Threat Bulletin

Prepared by the Uptycs Threat Research Team



The quarterly threat intel bulletin provides insights into the current threat landscape. This intel is derived from our threat intelligence systems, sources, and a world-class threat research team, which builds and proactively monitors the latest TTPs (Tactics, Techniques, and Procedures).

Organizations can use this bulletin to evaluate and form a more robust detection and protection posture against the latest Windows, Linux, and macOS threats.

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# Q4 threat bulletin highlights

In Q4 2023, our focus is on significant cybersecurity incidents and trends. During the quarter, we witnessed cybercriminals' aggressive exploitation of the Apache ActiveMQ vulnerability, predominantly to deploy HelloKitty ransomware.

#### Malware Prevalence Trends:

- · Windows: The dominant malware strains were Amadey, AgentTesla, and RedLine.
- · Linux: Mirai and Gfagyt marked their significant presence.
- macOS: Bundlore maintained its ongoing activity.

## Utility Abuse Insights:

- Windows: Rundll32.exe, a LOLBin, was notably the most exploited utility.
- · Linux: Crontab utility saw the highest misuse.
- macOS: OpenSSL and curl were primarily manipulated by Bundlore malware.

The quarter also highlighted the LockBit ransomware group as the foremost active entity, with Clop, Play, and BlackCat also making significant moves. Additionally, notable activities were observed from threat actors such as Lazarus Group, SideWinder, Kimsuky, Arid Viper, and APT29, marking a quarter dense with cybersecurity challenges.

# Comparative analysis: Key vulnerabilities, malware, and threat actors in Q3 and Q4 2023

## Wildly exploited vulnerabilities

Q3 2023 saw multiple threat actors exploiting a zero-day vulnerability in WinRAR software [CVE-2023-38831] to deploy malicious payloads.

In Q4 2023, a critical vulnerability in Apache ActiveMQ [CVE-2023–46604] was exploited extensively, notably by HelloKitty ransomware targeting outdated systems to execute arbitrary code via insecure describilization.

## **Cross-platform exploited vulnerabilities**

The Q3 report highlighted six cross-platform vulnerabilities, primarily in Google Chrome and Oracle VirtualBox.

In Q4, vulnerabilities in Google Chrome continued to be exploited across all three platforms, along with major ones in Splunk Enterprise, JetBrains, and Firefox.

## **Top malware**

For Windows, stealer-based campaigns remained consistent, with RedLine, Agent Tesla, and Amadey persisting as the most prevalent malware in both quarters.

Linux-platform threats remained constant with Mirai and Gafgyt, exploiting vulnerabilities in IoT devices.

On macOS, Bundlore malware continued targeting users through fake installers in both quarters.

## **Top utilities**

The most abused Windows utilities in both quarters were Rundll32.exe, Wscript.exe, and Powershell.exe. While CMD.exe and EQNEDT32.exe were prominent in Q3, Reg.exe, and Mshta.exe were more prevalent in Q4.

Crontab, Chattr, and Wget remained the most abused Linux utilities. Dash and curl were predominant in Q3, but in Q4, find, and Systemctl were more commonly misused.

On macOS, the utilities Openssl, curl, killall, sqlite, and system\_profiler continued to be exploited by threat actors.

See figures 1–6 for top abused utilities in Q3 and Q4, below.

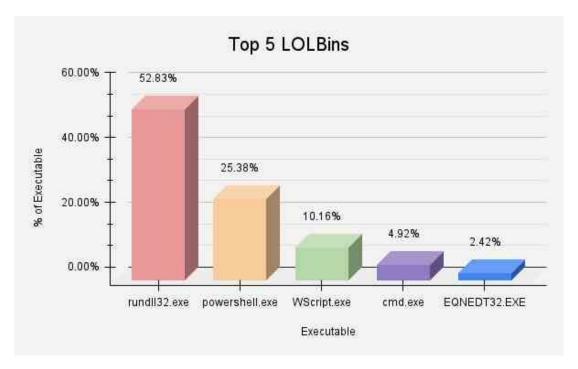


Figure 1-Q3 report (TOP 5 LOLBINS)

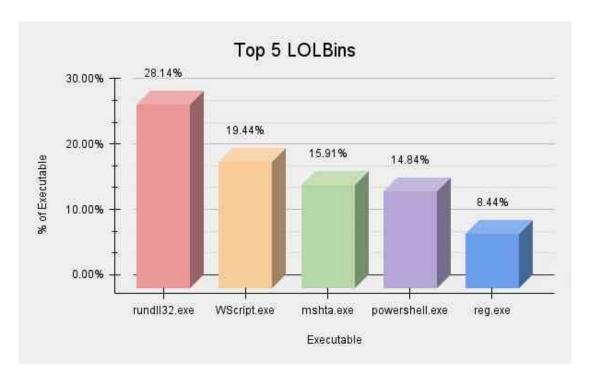


Figure 2-Q4 report (TOP 5 LOLBINS)

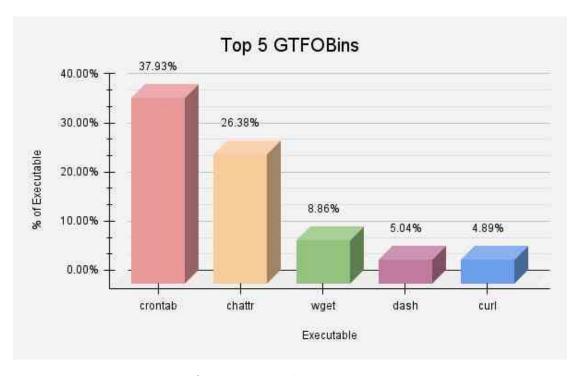


Figure 3-Q3 report (TOP 5 GTFOBINS)

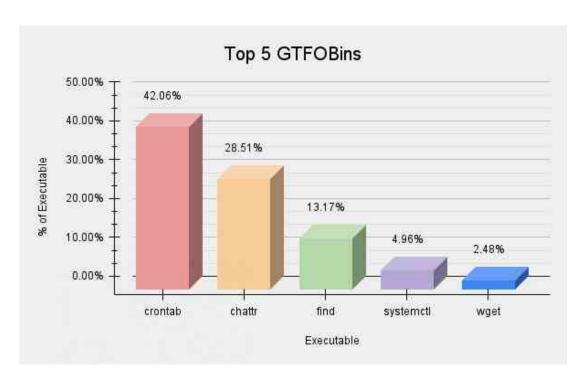


Figure 4-Q3 report (TOP 5 GTFOBINS)

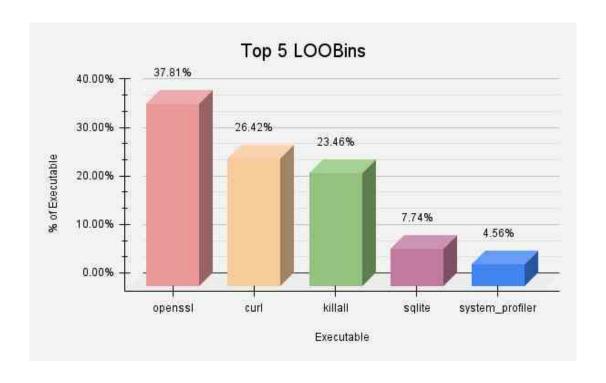


Figure 5-Q3 report (TOP 5 LOOBINS)

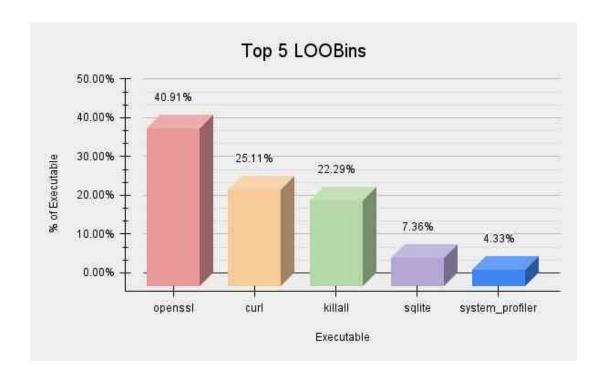


Figure 6-Q4 report (TOP 5 LOOBINS)

## **Threat actors**

Lazarus Group remained a top APT actor. In Q3, other active APTs were APT35, OilRig, Turla, and APT27. In Q4, SideWinder, Kimsuky, Arid Viper, and APT29 were notably active.

## Mitre techniques

Both quarters saw System Binary Proxy Execution (T1218), Command and Scripting Interpreter (T1059), and Scheduled Task/Job (T1053) as top tactics. Q3 included Hide Artifacts (T1564) and Impair Defenses (T1562), while Q4 saw Event Triggered Execution (T1546) and Subvert Trust Controls (T1553) being used.

See figures 7-8 for MITRE Techniques in Q3 and Q4, below.

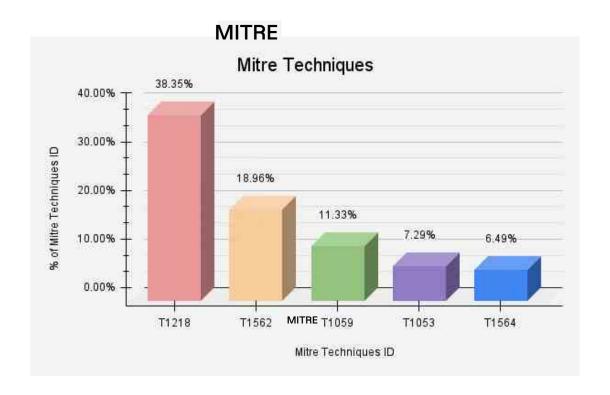


Figure 7-Q3 report (MITRE Techniques)

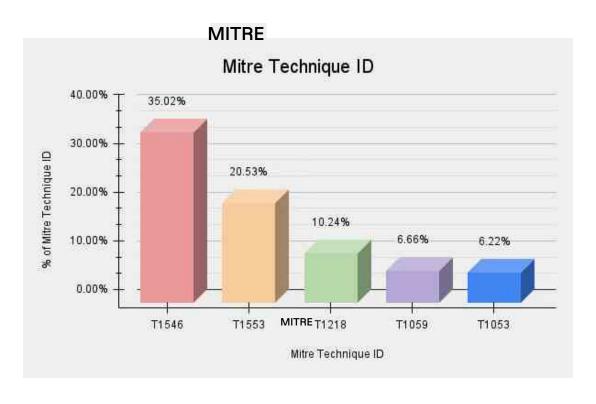


Figure 8-Q4 report (Mitre Techniques)

## **Highlighted ransomware groups**

In Q3, Clop ransomware was the most active, followed by Mallox, Cyclops, LockBit, and BlackCat. In Q4, LockBit took the lead, with Clop, Play, and BlackCat also active.

## Q3 and Q4 threat research articles

Q3 featured five blogs, including a white paper on Stealer activity, two blogs on vulnerabilities, one on QwixxRAT malware, and advanced research on Lateral Movement Detection.

Q4 saw ten blogs covering vulnerabilities in Confluence Server, Apache ActiveMQ, Splunk, and Linux-based exploits, a report on WinRAR vulnerability exploitation, blogs on Remcos RAT and GhostSec's GhostLocker Ransomware, and a Phishing advisory on USPS Smishing campaigns.

# Q4 2023 cybersecurity insights: In-depth threat analysis and trends

## **Critical alerts**

## CVE-2023-46604 - Remote Code Execution Vulnerability in Apache ActiveMQ

A critical vulnerability in Apache ActiveMQ, identified as CVE-2023–46604 and rated with a CVSS score of 9.8, put the cybersecurity community on high alert. Apache ActiveMQ, a widely used open-source message broker, is integral to the infrastructure of prominent platforms like Apache Camel, Red Hat AMQ, Amazon MQ, Apache TomEE, Eclipse, and Mule.

This vulnerability has been exploited in recent HelloKitty ransomware attacks, targeting systems with outdated security measures to execute arbitrary code through insecure descrialization. Attackers have deployed ransomware through deceptive .png files, using MSIExec for installation. Despite initial failures in encrypting data, the .NET DLL payload successfully encrypted files, prompting victims to contact specific email addresses for ransom instructions.

## Techniques used by the malware samples

The Our Uptycs XDR, configured in our threat intelligence replication system, effectively detects and labels attacker behavior across Windows, Linux, and macOS platforms. This system houses the latest known suspicious and malicious files.

The top techniques/tactics triggered by malware samples, aligned with the MITRE ATT&CK framework, are <u>Event Triggered Execution (T1546)</u>, <u>Subvert Trust Controls (T1553)</u>, <u>System Binary Proxy Execution (T1218)</u>, <u>Command and Scripting Interpreter (T1059)</u>, and <u>Scheduled Task/Job (T1053)</u>.

The prevalence of these observed ATT&CK technique IDs is depicted in Figure 9, below.

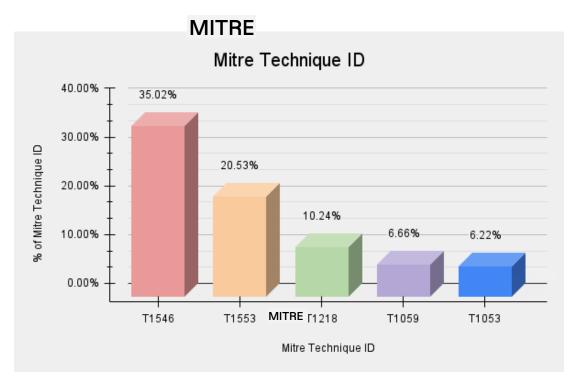


Fig.9-Observed ATT&CK technique IDs

# **Commonly abused commands and utilities**

Malicious samples often utilize built-in utilities of target operating systems in their attack sequences to evade detection, a technique known as "Living off the Land." These utilities correspond to our replication systems' tactics across Windows, Linux, and macOS platforms.

## Windows utilities abused by malware

This quarter, Rundll32.exe was the most exploited utility on Windows systems by attackers. Other frequently abused utilities included WScript.exe, mshta.exe, powershell.exe, and reg.exe.

Figure 10 illustrates the top 5 Windows utilities misused by malware and their prevalence.

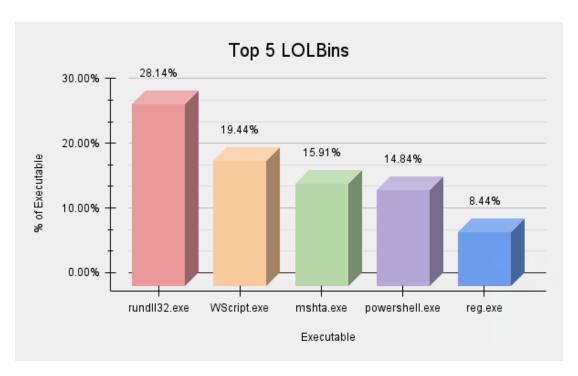


Figure 10-Top 5 Windows utilities abused by malware

- **1. Rundli32.exe (Tactics: Execution and Defense Evasion):** Commonly used for executing DLL payloads, this utility has been notably utilized in the Quasar RAT campaign.
- 2. WScript.exe (Tactics: Execution and Defense Evasion): This scripting host utility has been actively exploited to execute Konni and SmokeLoader malware.
- 3. Mshta.exe (Tactic: Defense Evasion): Known for executing HTA files, it's been used by LockBit 3.0 affiliates for malicious HTA file execution.
- 4. Powershell.exe (Tactics: Execution, Persistence, Defense Evasion, Discovery): Used for various malicious activities, including backdoor installation, data exfiltration, and ransomware deployment. DarkTail malware notably used encoded PowerShell scripts for C2 server communication.
- **5. Reg.exe (Tactic: Defense Evasion):** Agent Tesla, Lokibot, njRAT, and other malware families have exploited this utility for registry modifications.

## Linux utilities abused by malware

This quarter, Crontab was the most abused Linux utility, frequently observed in Mirai malware attacks.

Figure 11 shows the top five Linux utilities misused by malware, including their prevalence.

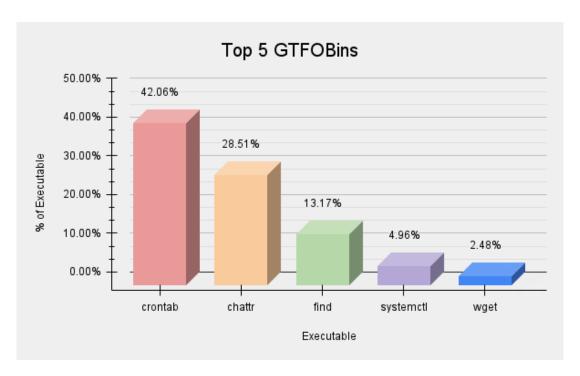


Figure 11-Top five Linux utilities abused by malware

- 1. Crontab (Tactics: Execution, Persistence): Used for scheduling tasks, APT36 threat actors have exploited it for persistence.
- 2. Chattr (Tactics: Defense Evasion, Persistence): This file attribute tool has been used by TeamTNT for campaign activities.
- 3. Find (Tactic: Credential Access): Employed by Watchbog malware for searching SSH keys.
- **4. Systemctl (Tactic: Defense Evasion):** Abused to stop EDR services, with TeamTNT creating mining services using it.
- 5. Wget (Tactics: Privilege Escalation, Command-and-Control): Often used to download and execute Mirai malware.

## LOOBins (macOS Binaries) utilities abused by malware

LOOBins, or Living Off the Orchard binaries, are macOS utilities that can be leveraged for malicious purposes, including command execution, privilege escalation, persistence, and data exfiltration.

Figure 12 details the top five macOS utilities exploited by malware and their prevalence.

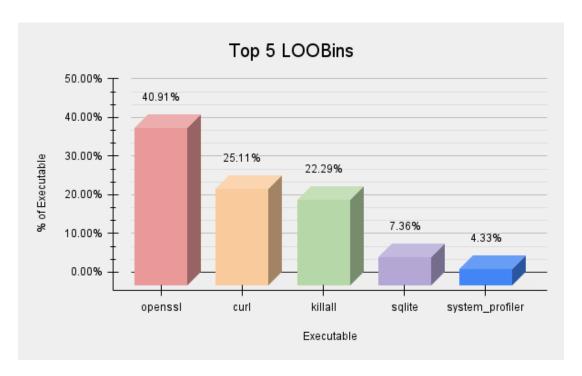


Figure 12-Top five macOS utilities abused by malware

- 1. OpenssI (Tactic: Defense Evasion): Used by Snake malware, it can encrypt data with base64, AES, and CBC.
- 2. curl (Tactic: Command and Control): Utilized by Bundlore malware to download payloads.
- 3. killall (Tactic: Defense Evasion): Employed by Shlayer malware to close script windows post-execution.
- 4. sqlite (Tactic: Exfiltration): Used by Shlayer malware to access internet download history.
- 5. system\_profiler (Tactic: Discovery): Bundlore uses this to gather system hardware information.

# Top prevalent malware families in the wild

Utilizing our in-house Uptycs EDR, equipped with YARA process scanning, we have identified the most prevalent malware families across Linux, Windows, and macOS platforms. Our research team has enhanced our platform with comprehensive TTPs and YARA coverage for these malware processes. Uptycs customers can now access detailed toolkit profiles of this malware when detections are triggered.

Here are the top malware identified across Windows, Linux, and macOS platforms:

### Windows malware:

#### **Amadey**

Amadey is a versatile botnet malware functioning as a loader or infostealer. It can conduct reconnaissance, data exfiltration, and load additional payloads. Targeting all Microsoft Windows versions, Amadey loaders are widely used by threat actors for malware distribution and botnet expansion. The "Socks5Systemz" proxy botnet has recently been implicated in global infections attributed to PrivateLoader and Amadey loaders.

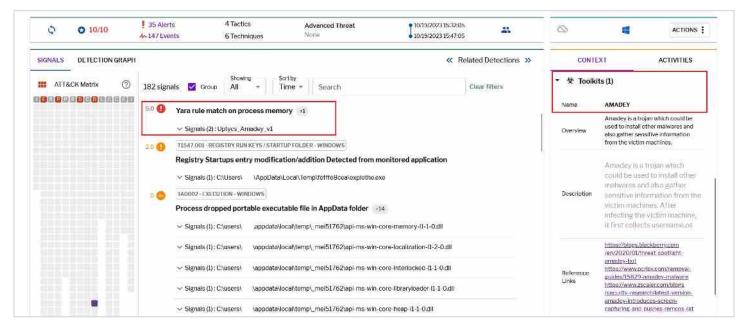


Figure 13-Uptycs XDR detection of Amadey

## **AgentTesla**

Agent Tesla, a .NET-based RAT and data stealer, specializes in gaining initial access and exfiltrating sensitive data such as keystrokes and login credentials. A recent phishing campaign spread a new Agent Tesla variant using a Microsoft Excel document, exploiting CVE-2017-11882 and CVE-2018-0802 vulnerabilities in Microsoft Office.

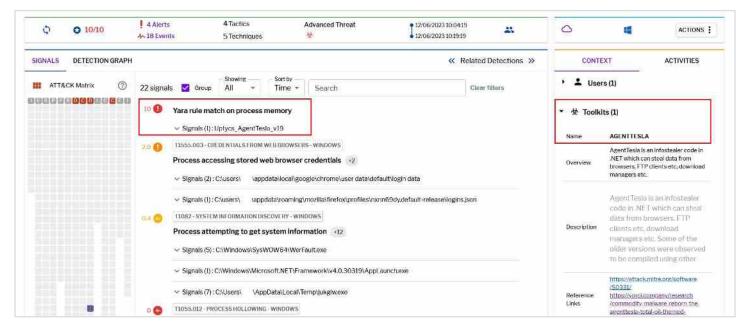


Figure 14-Uptycs XDR detection of AgentTesla

#### **RedLine Stealer**

RedLine Stealer, a potent data collection tool, extracts login credentials from numerous sources and gathers comprehensive system information. Delivery methods include phishing emails and disguising the malware as popular or cracked software. It has recently incorporated the "ScrubCrypt" obfuscation tool in its attacks.

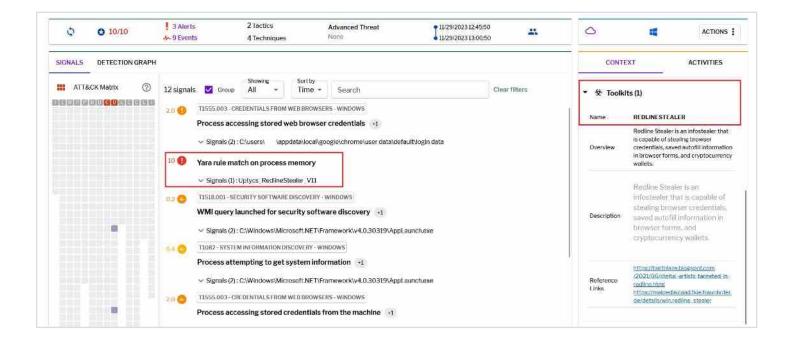


Figure 15-Uptycs XDR detection of Redline

## **Linux malware:**

#### Mirai

The Mirai botnet infects IoT devices, exploiting vulnerabilities for malicious code injection. Recent Mirai versions have added payloads targeting Linux-based routers, exploiting zero-day vulnerabilities for DDoS attacks.

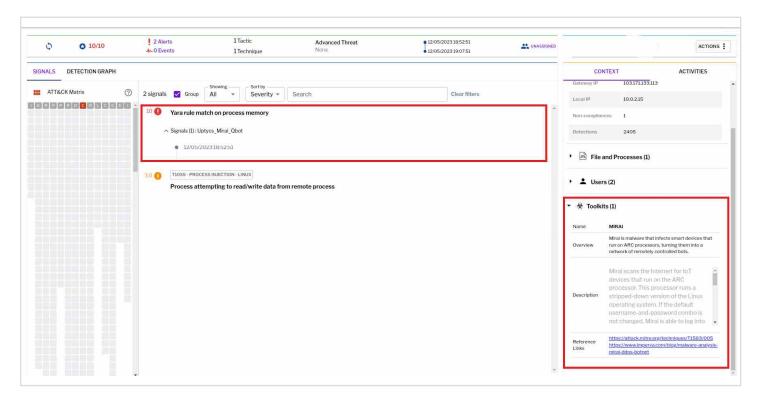


Figure 16-Uptycs XDR detection of Mirai malware

## **Gafgyt**

Gafgyt, targeting vulnerable IoT devices, particularly routers, spreads through phishing emails or exploits unpatched vulnerabilities. A recent focus has been on CVE-2017-18368, an unauthenticated command injection vulnerability.

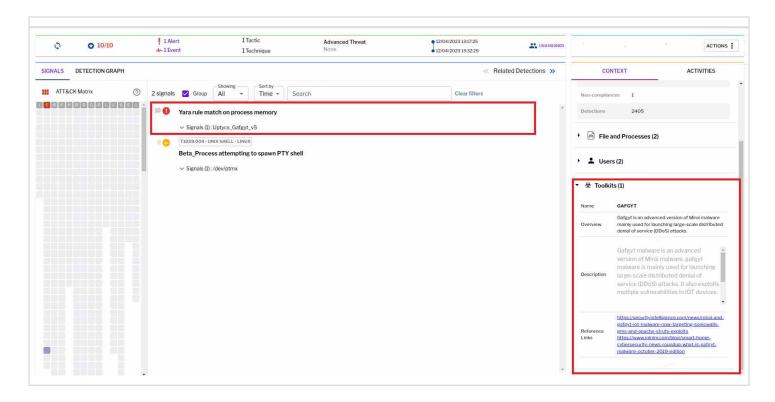


Figure 17-Uptycs XDR detection of Gafgyt malware

## **MacOS malware:**

## **Bundlore**

Bundlore, an adware-turned-backdoor since 2015, deceives users with fake software installers, notably using a bogus Adobe Flash Player installer. Once installed, it executes a chain of actions to download and run Bundlore from a malicious domain.

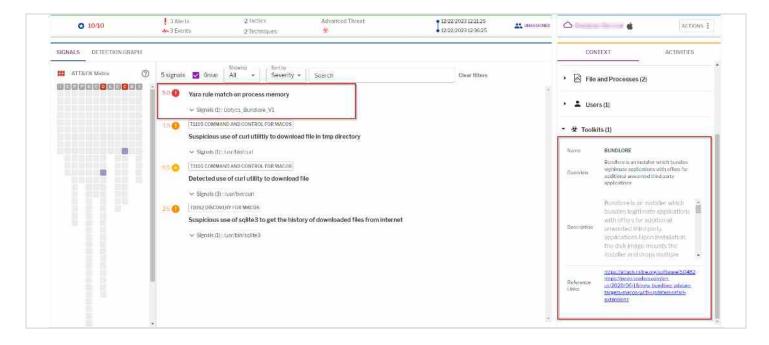


Figure 18-Uptycs XDR detection of Bundlore adware

## Q4 threat research articles

#### Double Trouble: Quasar RAT's Dual DLL Sideloading in Focus

The Uptycs Threat Research Team has uncovered a complex sideloading tactic used by Quasar RAT, utilizing two commonly trusted Microsoft files - "ctfmon.exe" and "calc.exe." This analysis offers insights into the sophisticated design of these sideloading techniques and their stealthy deployment of malicious payloads.

Read more about Quasar RAT's tactics

### Heads Up: New Security Patch for Curl Vulnerability 2023

A significant flaw in curl, a widely-used data transfer tool, prompted an in-depth investigation by the Uptycs Research Team. Initially discussed on Curl's GitHub repository, the team's findings highlight the urgency for an update to address this vulnerability.

Explore our findings on the curl vulnerability

#### Confluence Server's Zero-Day Vulnerability CVE-2023-22515

Atlassian recently reported a zero-day vulnerability in its Confluence Server, which is now actively targeted by advanced threat actors. The vulnerability allows unauthorized attackers to create new administrator accounts with just three HTTP requests.

Learn more about this Confluence Server vulnerability

## A New Critical Confluence Server Vulnerability Surfaces CVE-2023-22518

Following the zero-day vulnerability CVE-2023-22515, the Uptycs Threat Research Team identified another critical vulnerability, CVE-2023-22518, in Atlassian Confluence. This latest threat enables attackers to reset a Confluence instance and create new administrator accounts.

Read the latest report on CVE-2023-22518

## Looney Tunables (CVE-2023-4911): Unexpected Input Compromises System

The "Looney Tunables" exploit, CVE-2023-4911, discovered by Uptycs in various Linux systems, affects the GLIBC\_TUNABLES feature of the GNU C Library.

<u>Discover more about Looney Tunables</u>

### **GhostSec: From Fighting ISIS to Possibly Targeting Israel with RaaS**

"GhostSec," initially known for its actions against ISIS, has been observed potentially targeting Israel with a new Ransomware-as-a-Service, GhostLocker, promoted via Telegram.

<u>Understand GhostSec's latest campaign</u>

#### Mitigate CVE-2023-46604: Apache ActiveMQ's Critical Vulnerability

A critical vulnerability in Apache ActiveMQ, CVE-2023–46604, raises concerns over potential HelloKitty ransomware attacks on vulnerable systems. The Uptycs team concisely explains the exploitation mechanisms behind this vulnerability. Learn how to mitigate CVE-2023-46604

#### WinRAR CVE-2023-38831 Vulnerability Draws Attention from APTs

CVE-2023-38831, a vulnerability in WinRAR, has become a focal point for various APT groups. The Uptycs Threat Intel Team delves into how these groups exploit this security flaw using diverse tactics.

Explore the APTs' exploitation of WinRAR

## Unraveling CVE-2023-46214: A Deep Dive into Splunk RCE Vulnerability

CVE-2023-46214, an RCE vulnerability in Splunk, poses a significant threat to data analytics infrastructures. Our blog comprehensively analyzes this vulnerability and its potential for exploitation.

Read our in-depth analysis of CVE-2023-46214

## Threat Advisory: USPS Smishing Scam with Potential Links to China

A surge in USPS-targeted phishing campaigns, potentially linked to Chinese actors, has been identified by the Uptycs Threat Intelligence Team. Over 1,400 active phishing sites have been discovered globally.

Get the full threat advisory on the USPS scam

## Top threat actors in focus

#### Lazarus Group

The Lazarus Group, linked to North Korea, has been implicated in a global campaign, notably exploiting the Log4j vulnerabilities to deploy RATs on compromised hosts. Active since 2009, this sophisticated APT group has targeted entities in the blockchain and cryptocurrency sectors through spear-phishing and malware. Their "Operation Blacksmith" campaign uses DLang-based malware families, including NineRAT, DLRAT, and BottomLoader, to exploit CVE-2021-44228 against VMWare Horizon servers.

#### SideWinder

SideWinder APT, known by aliases including Razor Tiger and T-APT-04, is a suspected Indian group targeting Pakistani government organizations since 2012. They use email spear-phishing, document exploitation, and DLL side-loading techniques. A recent campaign involved a malicious Word document targeting Nepalese officials, deploying a complex array of scripts and the Nim backdoor.

#### **Kimsuky**

North Korea's Kimsuky APT group, operational since 2013, continues to sophisticate its methods, now leveraging legitimate remote desktop tools and custom malware. They target national defense, diplomatic, and academic sectors, often deploying backdoors and infostealers. Notably, they use Remote Desktop Protocol [RDP] and custom versions of TinyNuke or TightVNC for remote control.

### **Arid Viper**

AridViper, associated with the Middle East and suspected ties to Hamas, targets Arabic-speaking countries with custom malware and sophisticated social engineering. Known for deploying backdoors, spyware, and advanced mobile malware, AridViper's tactics include spear-phishing emails and malicious websites designed to mimic legitimate sources.

#### APT29

AridViper, associated with the Middle East and suspected ties to Hamas, targets Arabic-speaking countries with custom malware and sophisticated social engineering. Known for deploying backdoors, spyware, and advanced mobile malware, AridViper's tactics include spear-phishing emails and malicious websites designed to mimic legitimate sources.

APT27 also uses a known SysUpdate malware, which targets Windows and Linux platforms.

## **Key vulnerabilities / exploits**

The key vulnerabilities/exploits seen across Windows, Linux, and macOS platforms are as follows.

## **Windows**

CVE-2023-36563 - Microsoft WordPad Information Disclosure Vulnerability CVE-2023-41763 - Skype for Business Elevation of Privilege Vulnerability CVE-2023-36584 - Windows Mark of the Web Security Feature Bypass Vulnerability CVE-2023-36036 - Windows Cloud Files Mini Filter Driver Elevation of Privilege Vulnerability CVE-2023-36033 - Microsoft Windows DWM Core Library Elevation of Privilege Vulnerability CVE-2023-36025 - Microsoft Windows SmartScreen Security Feature Bypass Vulnerability CVE-2023-36038 - ASP.NET Core Denial of Service Vulnerability CVE-2023-40044 - Progress WS\_FTP Server Critical Deserialization Vulnerability CVE-2023-45685 - Titan MFT and Titan SFTP server Remote Code Execution Vulnerability

CVE-2023-43208 - NextGen Healthcare Mirth Connect RCE Vulnerability

### Linux

CVE-2023-4911 - Local Privilege Escalation Vulnerability in the GNU C Library 'ld.so' in Linux CVE-2023-39191 - Linux Kernel eBPF Improper Input Validation Privilege Escalation Vulnerability CVE-2023-43115 - Artifex Ghostscript Remote Code Execution Vulnerability CVE-2023-43641 - Libcue Library Out-of-bounds Array Access Vulnerability CVE-2023-45685 - Titan MFT and Titan SFTP server Remote Code Execution Vulnerability CVE-2023-5631 - Critical XSS Vulnerability in Roundcube Email Client Exploited by Winter Vivern Threat Group CVE-2023-43208 - NextGen Healthcare Mirth Connect RCE Vulnerability CVE-2023-46604 - Apache ActiveMQ Remote Code Execution Vulnerability CVE-2023-34212 - Apache NiFi Deserialization Vulnerability CVE-2023-49083 - NULL-Pointer Dereference and Segfault Vulnerability In Cryptography Python Package CVE-2023-22515: Privilege Escalation Vulnerability in Confluence Data Center and Server CVE-2023-22518: Improper Authorization Vulnerability in Confluence Data Center and Server

#### macOS

CVE-2023-42916 - Out-of-bounds Read Vulnerability in macOS and Apple Safari

CVE-2023-42917 - Memory Corruption Vulnerability in macOS and Apple Safari

CVE-2023-22524 - Remote Code Execution Vulnerability in Atlassian Companion App for MacOS

CVE-2023-41976 - Use-after-free Error in macOS and Apple Safari

CVE-2023-42852 - WebKit Arbitrary Code Execution in macOS and Apple Safari

CVE-2023-42890 - Webkitgtk Arbitrary Code Execution in macOS and Apple Safari

Vulnerabilities affecting **Windows, Linux** and **macOS** environments:

CVE-2023-7024: Google Chrome Heap Corruption Vulnerability

CVE-2023-42793: JetBrains TeamCity Authentication Bypass Vulnerability

CVE-2023-44487: HTTP/2 Rapid Reset Attack Denial-of-Service Vulnerability

CVE-2023-46214: Remote Code Execution (RCE) in Splunk Enterprise

CVE-2023-6345: Integer Overflow in Google Chrome Leading To Sandbox Escape

CVE-2023-5730: Memory Safety Vulnerability in Firefox, Thunderbird and ESR 115.4

CVE-2023-5731: Memory Safety Vulnerability in Firefox

CVE-2023-3765 - Critical Path Traversal Vulnerability in Mlflow

# **General recommendations**

Incident response teams should rigorously investigate the parent processes responsible for triggering the execution of key utilities across different operating systems:

- Windows: Pay close attention to rundll32.exe, wscript.exe, mshta.exe, powershell.exe, and reg.exe utilities.
- Linux: Monitor the use of crontab, chattr, find, systemctl, and wget utilities.
- macOS: Scrutinize activities involving Openssl, killall, curl, sqlite, and system\_profiler utilities.

To enhance security against malware attacks, organizations are recommended to follow these cyber hygiene best practices:

- 1. Software Updates: Regularly update all software to patch vulnerabilities.
- 2. Strong Password Policies: Implement and enforce robust password policies.
- Multi-Factor Authentication: Activate multi-factor authentication to add an extra layer of security.
- 4. Caution with Suspicious Links: Avoid opening links and attachments from unknown or untrustworthy sources.
- 5. Data Backup: Regularly back up important data to prevent loss during a cyber attack.

Implementing these practices can significantly strengthen an organization's defense against various cyber threats.

## Conclusion

As we wrap up this edition of the Uptycs Quarterly Threat Bulletin for Q4 2023, it's clear that the sophistication of cyber threats continues to rise, highlighting the critical need for advanced cybersecurity tools and strategies. This quarter has demonstrated the ingenuity of malware evolution and the emergence of new vulnerabilities and brought to light the relentless and innovative tactics employed by threat actors.

Our in-depth analysis throughout this bulletin underscores the indispensable role of sophisticated cybersecurity solutions in today's digital landscape. To counter these threats effectively, organizations must understand the latest adversarial trends and equip themselves with the most advanced defenses.

At Uptycs, our commitment to empowering organizations with cutting-edge security insights and solutions is unwavering. We strive to ensure that our clients are well-prepared and resilient against the multifaceted cyber threats they face.

We will continue to be at the forefront of threat intelligence, offering actionable insights and robust tools to help secure the digital frontier. We encourage our readers to stay informed and proactive, making cybersecurity an integral part of their operational ethos.

Thank you for placing your trust in Uptycs. Together, we are building a more secure and resilient digital future.

## **About Uptycs**

Uptycs, the first unified CNAPP and XDR platform, reduces risk by prioritizing your responses to threats, vulnerabilities, misconfigurations, sensitive data exposure, and compliance mandates across your modern attack surface—all from a single UI. This includes the ability to tie together threat activity as it traverses on-prem and cloud boundaries, delivering a more cohesive enterprise—wide security posture. Choose Uptycs MDR for fully managed detection and response.

