

CustomerName

Incident Report

Prepared by: Rapid7 Managed Detection and Response

Rapid7 Contact Information

Please direct any additional questions or concerns to your Customer Advisor via the Insight Platform: 'https://insight.rapid7.com/login'.

If you require immediate assistance, please call the emergency hotline to speak with an MDR representative.

| Region | 24/7 Hotline Number |
|---------------------|---------------------|
| United States (US) | +1 844-777-7637 |
| European Union (EU) | +44 800-088-5859 |
| Singapore (SG) | +65 800-852-3321 |
| Australia (AU) | +61-2-4734-7032 |

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Executive Summary

On June 26th, Rapid7's Managed Detection and Response (MDR) notified CustomerName regarding the execution of a suspicious PowerShell command via the Windows Run dialog box. Rapid7 initiated incident response services to identify the extent of the compromise within the CustomerName environment. Rapid7 determined that a total of one asset and one account were in scope for the investigation.

Rapid7 classified this incident with Medium severity.

Incident Synopsis

Rapid7 determined that the CustomerName environment was initially compromised on 2025-06-26 at 16:30:36 UTC when the user account 'useraccount' executed a suspicious PowerShell command via the Windows Run dialog box on asset 'ASSETNAME'.

Rapid7 determined that the PowerShell command was designed to download and execute a payload from the URL hXXps[://lmyinetverif[.]cloud/Z7M[.]dof. Rapid7 navigated to the suspicious URL and observed that it hosted an obfuscated PowerShell script **Z7M.dof** at the time of the investigation.

Rapid7 successfully acquired the PowerShell script **Z7M.dof** from external infrastructure, executed it in a controlled environment and observed that it would create a folder named eliqykz under the user's \AppData\Roaming\ directory. Additionally, it would extract multiple embedded files including client32.exe, a NetSupport Remote Access Trojan (RAT) and its dependencies from **Z7M.dof** and add them to the folder **eliqykz**. Rapid7 additionally observed that a Windows shortcut file (LNK) zDMpryHqOkZ for client32.exe would be added to the user's \AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup directory. This is intended to establish persistence as the LNK file **zDMpryHgOkZ** will execute **client32.exe** whenever the user logs in to the system.

Rapid7 observed that **Z7M.dof** was additionally designed to use the Windows Command Prompt (cmd.exe) to first launch the Windows Program Compatibility Assistant (pcalua.exe), and use it to execute client32.exe from the path C:\Users\username\AppData\Roaming\eligykz\. Attackers often abuse pcalua.exe as a Living Off the Land Binary (LOLBin) to execute malicious payloads.

Rapid7 observed that client32.exe was designed to establish connections with the Command and Control (C2) domains deepholeintheworld[.]com and THANKYOUMYKIO[.]COM. Rapid7 reviewed the DNS, Web Proxy, and Sysmon network connection logs and observed connection attempts to the C2 domains and to the IP address 83.222.190[.]174, which was observed to be hosting the C2 domains at the time of the investigation.

Rapid7 observed that *client32.exe* later spawned the process *remcmdstub.exe* from the path C:\Users\username\AppData\Roaming\eliqykz\ and used it to spawn cmd.exe. Then a



PowerShell process (powershell.exe) was used to execute a command to download the malicious MSI file *WTXBSLLD.msi* from the URL *hXXps[://]cloudverifsecure[.]com/IALMKAFJ.msi*, save it in the user's Temp folder, use the legitimate Windows installer 'msiexec.exe' to install the payload on the asset, and then delete the downloaded MSI file *WTXBSLLD.msi*.

Rapid7 acquired **WTXBSLLD.msi** from external infrastructure and observed that upon execution the file would leverage 'msiexec.exe' to install it in the following locations on the asset:

- C:\Users\<useraccount>\AppData\Local\Temp\{674CF26D-4CA8-387B-A7D0-8DF0943A 5205}\
- C:\ProgramData\localwriter_Mujv2\

Rapid7 observed that the folders would contain the binary *CacheData.exe* alongside multiple suspicious files and that upon execution, *CacheData.exe* would spawn the process *FluxBr128.exe* from the *C:\Users\username* folder and leverage the following malicious files to inject it with malicious code:

- mfc110u.dll, a malicious DLL used to sideload the CacheData.exe process with malicious code.
- Maidreart.nvu, file which exhibits characteristics consistent with the IDAT Loader family
 of malware and used to inject SecTop RAT into FluxBr128.exe.

Rapid7 additionally observed that a LNK file **Readerexplore_idn** for **CacheData.exe** would be added to the user's \AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup folder. This is intended to establish persistence as the LNK file **Readerexplore_idn** will execute **CacheData.exe** whenever the user logs in to the system.

Rapid7 determined that the process *FluxBr128.exe* would attempt to make connections to the IP addresses *185.125.50[.]72* and *91.92.46[.]47*, and the domains *ninicoin[.]io* and *defibit[.]io*.

Rapid7 reviewed the available Sysmon registry event logs and observed that the malicious PowerShell command was present within the user's *RunMRU* registry key, confirming that the user executed the PowerShell command via the Windows Run dialog box.

Upon review of the process start event logs, Rapid7 observed that the user was using the Google Chrome browser prior to running the PowerShell command. Rapid7 acquired the user's Google Chrome browser history to determine the URL of the webpage hosting the Fake CAPTCHA lure but observed that there was no data present around the time of the suspicious activity.

Rapid7 reviewed the available Virus and Third Party alert logs and did not observe any remedial actions taken on this activity at the time of the investigation.

The Tactics, Techniques, and Procedures (TTPs) that Rapid7 identified in the investigation were consistent with the Bunny Loader¹ family of malware. Rapid7 determined that the incident was



¹ https://www.rapid7.com/globalassets/docs/managedservices/malware-research-bunny_loader.html

the result of an opportunistic Bunny Loader infection and not the result of a targeted attack against the CustomerName environment.

Recommended Actions

Remediation Actions

Rebuild Affected Systems from a Known-Good Baseline Image

- Rebuild systems from a known-good baseline image to counter undetected threats.
- Manually removing malware or scanning with an updated antivirus solution may not fully restore the integrity of the system.

Change Passwords for Affected Accounts

- Change the affected account passwords as soon as possible to prevent a threat actor from leveraging the credentials to access services.
- Instruct users to not just change one character of a password, such as changing **Example 1!** to **Example 2!** and to follow the NIST guidelines for the 'memorized secret' password policy2. A threat actor who has captured past credentials could be more successful in guessing credentials changed by only one character.
- InsightConnect could be used to perform these actions, which can be accessed through the 'Take Action' button in the Investigations section.

Block Malicious Domains

 Block the identified malicious domains at all appropriate network filtering devices, such as firewalls, web proxies, and DNS servers.

Block Malicious IP Addresses

 Block the identified malicious IP addresses at all appropriate network filtering devices, such as firewalls, web proxies, routers, and switches.

Rebuild the Affected User's Roaming Profile

- o When enabled, User Roaming Profiles are stored remotely, as opposed to directly on their computer. This allows for settings and information associated with the user to sync with any device across the network that they log into. Threat actors use the Roaming Profile of a user account to store malicious files for staging and persistence.
- If an infected asset is re-imaged from a known good baseline, but the user's Roaming Profile was not rebuilt as well, the malicious files stored in the Roaming Profile will persist, leaving the infection un-remediated.

Corrective Actions

User Awareness Training

Implement phishing-based training for users identified as opening unknown attachments or clicking unknown links. Train users on how to forward suspicious links or emails to information security for analysis.

² https://pages.nist.gov/800-63-3/sp800-63-3.html



• Rapid7 recommends providing user awareness training at regular intervals to all users in the environment.

Block Archive Files at the Web Proxy

- Block archive files (e.g. .zip, .rar) at the web proxy and only allow archive files to be downloaded from whitelisted sites serving business purposes.
- Many commodity malware families package malicious executable files or scripts within archive files as a method of initial access. Packaging malware within archive files can prevent browser and asset-based antivirus solutions from identifying and taking action on suspicious files.

• Block or Warn on Uncategorized Sites at the Web Proxy

 Block or warn on uncategorized sites at the web proxy. Aside from blocking uncategorized sites, certain web proxies will display a warning page, but allow the user to continue by clicking a link in the warning page. This will stop drive-by exploits and malware from being able to download further payloads from the Internet, as most malware will not be able to interact with the web proxy warning page.

• Disable the Windows Run Dialog Box

 Rapid7 recommends disabling the Windows Run dialog box (Win + R) on devices in the environment. This can be accomplished through Group Policy or the Windows Registry.



Appendix A: Alert Summary

Time to Respond

| Event Time | 2025-06-26 16:31:17 UTC |
|------------------|-------------------------|
| Alert Time | 2025-06-26 16:31:17 UTC |
| Acknowledge Time | 2025-06-26 16:33:00 UTC |

Alert time and time to begin investigation

Associated Alerts

| Alert Name | IDR Investigation URL |
|--|--|
| Attacker Tool - PowerShell -noni -ep -nop Flags | |
| Attacker Technique - Remote Payload Execution via Run Utility (shell32.dll) | https://us2.idr.insight.rapid7.com/op/16FF306704 |
| Suspicious Process - Download & Execution Of Payload Via Powershell | 78B#/investigations/4d4918-ad74-bccdd |
| Suspicious Process - Malicious Hash On Asset | |

Investigation IDs from IDR

Appendix B: Incident Severity, Category, Type

Rapid7 classified this incident with Medium severity.

Rapid7 determines the severity of an incident based on a number of factors, including:

- **Intent**: Whether the threat appears to be targeted or opportunistic/automated, and the likely objectives of the attack
- Scope: The number and criticality of systems and users impacted
- **Ongoing Activity**: Whether the incident appears to have been fully contained/no longer active, or whether the attacker remains active within the environment
- Impact: The criticality of in-scope assets or users, evidence of data exfiltration, etc.

| Incident Severity | Incident Definition | Example Incident(s) |
|----------------------|--|---|
| Low | A non-targeted, low-impact threat involving a small number of systems or users which is already contained by existing security controls. | A non-targeted phishing attack with evidence that the recipient(s) provided credentials. |
| Medium | A non-targeted, low-impact threat impacting a small number of systems or users, but requiring additional actions from you to fully contain and eradicate the threat. | Malware delivered via a non-targeted phishing attack that is only partially blocked on an endpoint. |
| High | A high risk or high impact threat, often impacting a large number of systems or users and ongoing attacker activity. | Unauthorized interactive network access with evidence of reconnaissance, privilege escalation, lateral movement, data exfiltration, or other signs of a late-stage compromise being observed. |

Severity levels and Incident Types

| Compromise Category | Compromise Type |
|---------------------|-----------------|
| Malicious Code | Virus |

Incident Category and Type

Appendix C: Affected Assets and Accounts

| Hostname | Disposition |
|----------|-------------|
| HOSTNAME | Compromised |

Affected Hosts

| Account | Notes |
|----------|--|
| USERNAME | User account that executed the suspicious PowerShell command via the Windows Run Dialog Box. |

Affected Accounts

Appendix D: Indicators of Compromise

File

| File Name | File Path | SHA256 | Notes |
|---------------------------------------|--|--|---|
| Z7M.dof | - | 952E3B9DB51BE60E 58C5ED32D123C21 123EBAE34B2F9FB5 49E814A0EBAC5123 4 | PowerShell script hosted at the domain <i>myinetverif[.]cloud</i> , designed to install and execute <i>client32.exe</i> and its dependencies. |
| client32.exe | C:\Users\username\App Data\Roaming\eliqykz\ | 97123456b1231590 1324dd5d4b764e87 12345b1bd8717955 2f249062ee26128 | NetSupport RAT configured to reach out to deepholeintheworld[.] com and THANKYOUMYKIO[.]C OM. |
| WTXBSLLD.msi | C:\Users\ACME~1\App Data\Local\Temp\ | e48a123456bafb123 471ca77c72e15be9 9d1d62b941ddd1ff5 0f33b1234bcb8c2 | MSI file hosted at the domain cloudverifsecure[.]co m, used to install malware. |
| CacheData.exe | C:\Users\ACME~1\App Data\Local\Temp\{123C F26D-3CA8-123B-A5D0- 8DF1234A1234}\ | c2a1236f3775e6412 18ce24189e795acb ac3562d7b2f0f27a4 e08f12345678c1 | Binary that would spawn FluxBr128.exe. |
| C:\ProgramData\localwr iter_Mujv2\ | | 63611204307001 | |
| mfc110u.dll | C:\Users\ACME~1\App Data\Local\Temp\{674C F26D-3CA8-123B-A5D0- 8DF0123A1234}\ | a1e5df12345b0d8f9 ab381a42a1231237 9a49e12345454f2a0 | DLL used to sideload malicious code into CacheData.exe . |
| | C:\ProgramData\localwr iter_Mujv2\ | e6b4d2ae12346d | Guerre Gala. Exe. |

| Maidreart.nvu | C:\Users\ACME~1\App Data\Local\Temp\{674C F123-3CA8-487B-A5D0- 8DF0593A1234}\ | 65f49f3ab123a6ebe ba9daf0d165acad1f 6d9e16a123c25e4a caa77fe0d12345 | File consistent with IDAT loader, used to inject SecTop RAT into FluxBr128.exe. |
|---------------|--|--|--|
| | C:\ProgramData\localwr iter_Mujv2\ | | |
| FluxBr128.exe | C:\Users\username\ | f3fa12345b0512e70 65f9b3b1233f8d784 0213edb47a92bdfc3 2ba12342251d1 | Binary injected with malicious code. |
| - | - | 9612341f71c2bcd93 ddbf26fd30b92c06d 0fc810404ef6cb62b bc67709a7902f | .NET executable extracted from the <i>FluxBr128.exe</i> process, consistent with <i>SecTop RAT</i> . |

File Based Indicators of Compromise

Network

| Network Based Indicator | Notes | |
|--|--|--|
| hXXps[://]myinetverif[.]cloud /Z7M[.]dof | URL present in the initial PowerShell command. | |
| deepholeintheworld[.]com | C2 domains leveraged by <i>client32.exe</i> , present in the | |
| THANKYOUMYKIO[.]COM | client32.ini file. | |
| 83.222.190[.]174 | IP address at which the domains deepholeintheworld[.]com and THANKYOUMYKIO[.]COM were hosted on. | |
| hXXps[://]cloudverifsecure.c om/IALMKAFJ[.]msi | URL at which the malicious MSI file WTXBSLLD.msi was hosted on. | |
| bsc-dataseed1.ninicoin[.]io bsc-dataseed2.ninicoin[.]io bsc-dataseed2.ninicoin[.]io bsc-dataseed4.ninicoin[.]io | Domains that the <i>FluxBr128.exe</i> process would attempt to | |
| bsc-dataseed1.defibit[.]io bsc-dataseed2.defibit[.]io bsc-dataseed3.defibit[.]io bsc-dataseed4.defibit[.]io | make a connection with. | |

| 185.125.50[.]72 | IP address previously associated with SecTopRAT, and that the FluxBr128.exe process would attempt to make a connection with. |
|-----------------|---|
| 91.92.46[.]47 | IP that the <i>FluxBr128.exe</i> process would attempt to make a connection with. |

Network Based Indicators of Compromise