

HiveForce Labs

THREAT ADVISORY

**ATTACK REPORT**

New Helldown Ransomware: A Growing Threat Across Cross-Platform Systems

Date of Publication

November 21, 2024

Admiralty Code

A1

TA Number

TA2024438

Summary

First Appearance: August 2024

Malware: Helldown ransomware

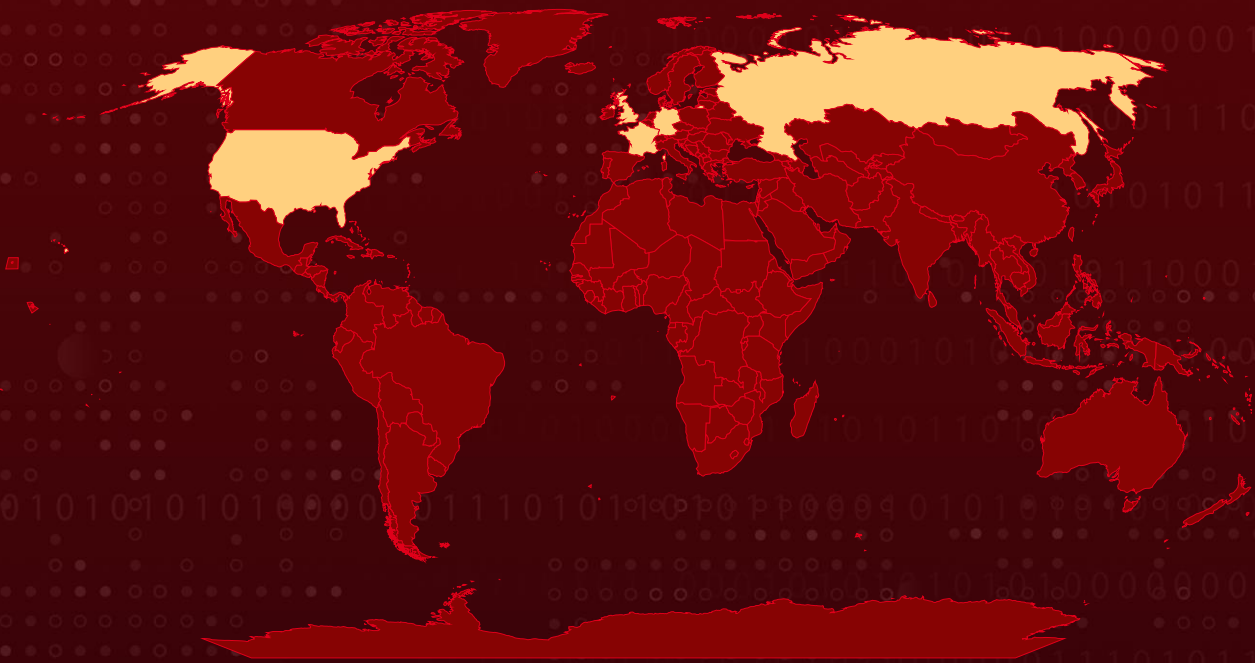
Targeted Countries: United States and Europe

Affected Platforms: Windows and Linux

Targeted Sectors: Manufacturing, Healthcare, IT services, Telecommunications

Attack: Helldown ransomware is a rising cyber threat targeting Windows and Linux systems, particularly VMware infrastructures, with a double extortion strategy of encrypting data and threatening to leak it. Exploiting vulnerabilities like CVE-2024-42057 in Zyxel firewalls, it has impacted over 30 organizations in sectors such as IT, healthcare, telecommunications and manufacturing. Helldown shares code similarities with LockBit 3.0 but remains distinct and under active development. Its evolution highlights the growing sophistication and platform diversification of ransomware threats.

🗡️ Attack Regions



⚙️ CVE

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CVE	NAME	AFFECTED PRODUCT	ZERO-DAY	CISA KEV	PATCH
CVE-2024-42057	Zyxel ATP series Command Injection Vulnerability	Zyxel ATP series	❌	❌	✅

Attack Details

#1

Helldown ransomware has emerged as a significant cybersecurity threat, recently expanding its focus from Windows systems to Linux environments, with a particular emphasis on VMware infrastructures. First identified in August 2024, Helldown has rapidly gained notoriety for its aggressive tactics and has been linked to attacks across various sectors, including IT services, telecommunications, manufacturing, and healthcare.

#2

This ransomware employs a double extortion strategy, encrypting data while simultaneously threatening to leak sensitive information if the ransom is not paid. This approach has reportedly impacted over 30 companies within a short period, underscoring the urgent need for organizations to bolster their defenses.

#3

Helldown's attack sequence typically begins with the exploitation of vulnerabilities in Zyxel firewalls, such as CVE-2024-42057, which allows attackers to execute commands without authentication. Once access is gained, the attackers engage in credential harvesting and lateral movement within the network, compromising additional systems in the process.

#4

After establishing a foothold, the ransomware is deployed to scan for files to encrypt. A notable feature of the Linux variant is its ability to terminate active virtual machines before encryption, although this capability appears underutilized in its current implementation. This calculated approach enables attackers to maximize damage while minimizing the chances of early detection.

#5

Helldown shares code lineage with LockBit 3.0 and exhibits behavioral similarities with other ransomware strains like DarkRace and DoNex, although definitive links remain unconfirmed. The rise of Helldown highlights the increasing diversification of ransomware threats across platforms. Its ongoing development and adaptive strategies make it a growing global concern for organizations of all sizes.

Recommendations



Patch and Update Software: Keep all operating systems, applications, and firmware up to date with the latest security patches and updates. By promptly applying patches, organizations can mitigate the risk of these vulnerabilities being exploited and prevent unauthorized access to their networks.



Implement Robust Endpoint Protection: Deploy advanced endpoint protection solutions that include behavior-based detection, machine learning algorithms, and threat intelligence. These solutions can detect and block malicious activities associated with Helldown ransomware, such as file encryption and unauthorized processes. Regularly update endpoint security software to ensure protection against the latest threats.



Conduct Regular Data Backups and Test Restoration: Regularly backup critical data and systems, store them securely offline. Test restoration processes to ensure backup integrity and availability. In case of a Helldown ransomware attack, up-to-date backups enable recovery without paying the ransom.



Access Control and Least Privilege: Enforce the principle of least privilege, ensuring that users and applications have only the minimum access required to perform their functions. This limits the potential impact of a ransomware attack.



Network Segmentation: Divide the network into segments to limit the spread of ransomware. This can help contain the damage and protect sensitive data.



Potential MITRE ATT&CK TTPs

<u>TA0005</u> Defense Evasion	<u>TA0042</u> Resource Development	<u>TA0001</u> Initial Access	<u>TA0002</u> Execution
<u>TA0007</u> Discovery	<u>TA0008</u> Lateral Movement	<u>TA0010</u> Exfiltration	<u>TA0011</u> Command and Control
<u>TA0003</u> Persistence	<u>TA0004</u> Privilege Escalation	<u>TA0040</u> Impact	<u>T1556</u> Modify Authentication Process
<u>T1021.001</u> Remote Desktop Protocol	<u>T1021</u> Remote Services	<u>T1490</u> Inhibit System Recovery	<u>T1070</u> Indicator Removal

<u>T1529</u> System Shutdown/Reboot	<u>T1486</u> Data Encrypted for Impact	<u>T1569.002</u> Service Execution	<u>T1569</u> System Services
<u>T1190</u> Exploit Public-Facing Application	<u>T1136.001</u> Local Account	<u>T1136</u> Create Account	<u>T1059</u> Command and Scripting Interpreter
<u>T1556.001</u> Domain Controller Authentication	<u>T1027</u> Obfuscated Files or Information	<u>T1588.006</u> Vulnerabilities	<u>T1588</u> Obtain Capabilities

✂ Indicators of Compromise (IOCs)

TYPE	VALUE
SHA256	0bfe25de8c46834e9a7c216f99057d855e272eafafdfef98a6012cecbdbdcfab, 7cd7c04c62d2a8b4697ceebbe7dd95c910d687e4a6989c1d839117e55c1cafd7, 7731d73e048a351205615821b90ed4f2507abc65acf4d6fe30ecdb211f0b0872, 3e3fad9888856ce195c9c239ad014074f687ba288c78ef26660be93ddd97289e, 2621c5c7e1c12560c6062fdf2eeeb815de4ce3856376022a1a9f8421b4bae8e1, 47635e2cf9d41cab4b73f2a37e6a59a7de29428b75a7b4481205aee4330d4d19, cb48e4298b216ae532cfd3c89c8f2cbd1e32bb402866d2c81682c6671aa4f8ea, 67aea3de7ab23b72e02347cbf6514f28fb726d313e62934b5de6d154215ee733, 2b15e09b98bc2835a4430c4560d3f5b25011141c9efa4331f66e9a707e2a23c0, 6ef9a0b6301d737763f6c59ae6d5b3be4cf38941a69517be0f069d0a35f394dd, 9ab19741ac36e198fb2fd912620bf320aa7fdeeeb8d4a9e956f3eb3d2092c92c, ccd78d3eba6c53959835c6407d81262d3094e8d06bf2712fefa4b04baadd4bfe

Recent Breaches

<http://www.smarts-engineering.de>
<http://www.qualiform.cz>
<http://www.nightnurse.ch>
<http://www.knoxlawcenter.com>
<http://www.csikitchenandbath.com>
<http://www.compassfs.net>
<http://www.co.san-jacinto.tx.us>
<http://valleyfirm.com>
<http://tivoli-33.org>
<http://lacliniqueducoureur.com>
<http://klinik-am-kurpark.de>
<http://hausdesstiftens.org>
<http://generaldentistryforchildren.com>
<http://fuelco-us.com>
<http://americanventures.com>
<http://www.jewishharrisburg.org>
<http://www.barryavenueplating.com>
<http://www.rsk-immobilien.de>
<http://www.cincinnatiapainphysicians.com>
<http://kbosecurity.co.uk>
<http://khonaysser.com>
<http://Zyxel.eu>
<http://atpsassari.it>
<http://XPERT Business Solutions GmbH>
<http://MyFreightWorld>
<http://cbmm.org>
<http://AZIENDA TRASPORTI PUBBLICI S.P.A.>
<http://briju.pl>
<http://vindix.pl>
<http://Albatros S.r.l.>
<http://SCHLATTNER.de>
<http://deganis.fr>
<http://hugwi.ch>

Patch Details

Upgrade Zyxel ATP series to V5.39

Link: <https://www.zyxel.com/global/en/support/security-advisories/zyxel-security-advisory-for-multiple-vulnerabilities-in-firewalls-09-03-2024>

References

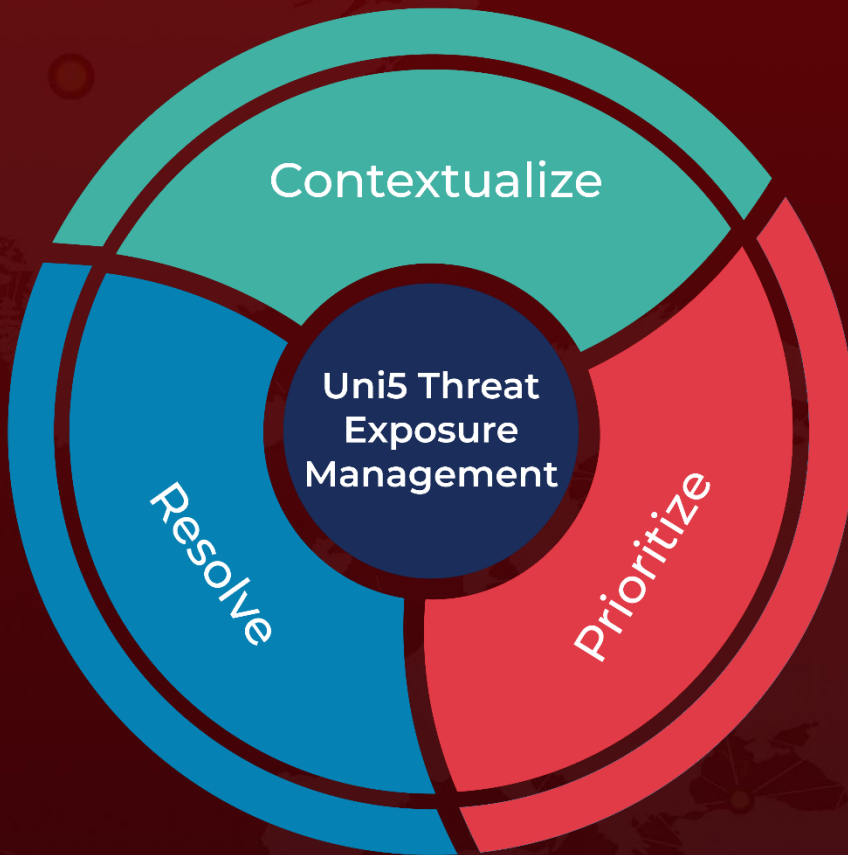
<https://blog.sekoia.io/helldown-ransomware-an-overview-of-this-emerging-threat/#h-encryption>

<https://www.halcyon.ai/attacks/helldown-ransomware-hits-vindix-23-gb-data-breach-analysis>

What Next?

At Hive Pro, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

Book a free demo with HivePro Uni5: Threat Exposure Management Platform.



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