Threat Level Red

THREAT ADVISORY



Vulnerabilities in VMware when chained together grant full system control

Summary

The Cybersecurity and Infrastructure Security Agency (CISA) has issued a warning to organizations about malicious actors using CVE-2022-22954 and CVE-2022-22960. This alert was published following the disclosure of two related vulnerabilities (CVE-2022-22972 and CVE-2022-22973), rendering it vulnerable to future exploitation. All these flaws might be exploited separately or in combination to obtain total control.

☆ CVEs

CVE	NAME	PATCH
CVE-2022-22954	Server-side Template Injection Remote Code Execution Vulnerability	⊘
CVE-2022-22960	Local Privilege Escalation Vulnerability	⊗
CVE-2022-22972	Authentication Bypass Vulnerability	⊘
CVE-2022-22973	Local Privilege Escalation Vulnerability	⊘

Potential MITRE ATT&CK TTPs

TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	TA0004 Privilege Escalation
TA0005 Defense Evasion	TA0011 Command and Control	T1588 Obtain Capabilities	T1588.006 Obtain Capabilities: Vulnerabilities
T1588.005 Obtain Capabilities: Exploits	T1190 Exploit Public-Facing Application	T1203 Exploitation for Client Execution	T1573 Encrypted Channel
T1068 Exploitation for Privilege Escalation	T1548 Abuse Elevation Control Mechanism	T1221 Template Injection	

Technical Details

- On 6th April 2022, VMware made organizations aware of & CVE-2022-22960. Just 48 hours after the patch was released malicious threat actors were able to develop a new exploit by reverse engineering the patch and began exploiting vulnerable products. Rocket Kitten was one of the threat actors that were observed exploiting CVE-
- On 18th May 2022, VMware released two vulnerabilities(CVE-2022-22972 & CVE-2022-22973). Due to the vulnerabilities impacting the same products, CISA expects threat actor to develop capabilities to exploit these vulnerabilities.
- All the above vulnerabilities can be exploited by an attacker to trigger server-side template injection causing code execution (CVE-2022-22954); 'root' (CVE-2022-22960 & CVE-2022-22973); and g authentication bypass (CVE-2022-22972).
- CISA has advised organizations to update the affected to the non-vulnerable versions by May 2022 to avoid exploitation.

Vulnerability Details

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2022-22	54 VMware Workspace ONE	cpe:2.3:a:vmware :vmware_workspa ce_one_access:*: *:*:*:*:*; cpe:2.3:a:vmware :vrealize_suite_lif ecycle_manager:* :*:*:*:*:*; cpe:2.3:a:vmware :cloud_foundatio n:*:*:*:*:*; cpe:2.3:a:vmware :identity_manager :*:*:*:*:*:*	CWE-94
CVE-2022-22	Lifecycle Manager versions		CWE-269
CVE-2022-22	8.0 - 8.4.1 Patch 2; VMware Cloud Foundation versions 4.0 - 4.3.1.1; VMware Identity Manager		CWE-287
CVE-2022-22	versions 3.3.3 - 3.3.6 73		CWE-264

№ Indicators of Compromise (IOCs)

2.7.7.2	
ТҮРЕ	VALUE
IPV4	136.243.75[.]136
Files	horizon.jsp jquery.jsp

S Patch Links

https://www.vmware.com/security/advisories/VMSA-2022-0011.html https://www.vmware.com/security/advisories/VMSA-2022-0014.html

References

https://www.cisa.gov/uscert/ncas/alerts/aa22-138b

https://www.cisa.gov/emergency-directive-22-03

What Next?

Book a free demo with <u>HivePro Uni5</u> to check your exposure to this advisory. HivePro Uni5 is a Threat Exposure Management Solution that proactively reduces an organization's attack surface before it gets exploited.



At Hive Pro we take a long hard look at your vulnerabilities so you can bolster your defenses and fine-tune your offensive cybersecurity tactics.

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