



Ivanti Connect Secure and Policy Secure Attack

Zero-day vulnerabilities actively exploited

<https://forums.ivanti.com/s/article/KB-CVE-2023-46805-Authentication-Bypass-CVE-2024-21887-Command-Injection-for-Ivanti-Connect-Secure-and-Ivanti-Policy-Secure-Gateways>

CVEs: CVE-2023-46805, CVE-2024-21887, CVE-2024-21888, CVE-2024-21893, CVE-2024-22024

Widespread exploitation of zero-day vulnerabilities affecting Ivanti Connect Secure and Policy Secure gateways underway.

Background

CVE-2023-46805 is an Authentication Bypass Vulnerability found in the web component of Ivanti Connect Secure (ICS) and Ivanti Policy Secure to allow a remote attacker to access restricted resources by bypassing control checks. CVE-2024-21887 is a command injection vulnerability in web components of ICS and Ivanti Policy Secure. If CVE-2024-21887 is used in conjunction with CVE-2023-46805, exploitation does not require authentication and enables a threat actor to craft malicious requests and execute arbitrary commands on the system.

Latest Developments

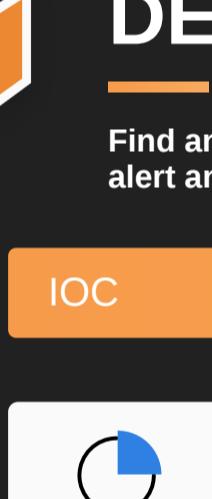
- September 02, 2025: People's Republic of China (PRC) state-sponsored cyber threat actors are targeting networks globally.
<https://www.cisa.gov/news-events/cybersecurity-advisories/aa25-239a2>
<https://www.fortinet.com/blog/threat-research/growing-threat-of-malware-concealed-behind-cloud-services>
- June 25, 2024: Skibidi Botnet Malware targets Ivanti Connect Secure Vulnerability (CVE-2024-21887)
<https://www.fortinet.com/blog/threat-research/growing-threat-of-malware-concealed-behind-cloud-services>
- June 29, 2024: CISA released a Cybersecurity Advisory on Threat Actors Exploiting Vulnerabilities in Ivanti Connect Secure and Policy Secure Gateways
<https://www.cisa.gov/news-events/cybersecurity-advisories/aa24-060b/nz>
- February 13, 2024: A new report by Orange Cyberdefense shows attackers using CVE-2024-21893 to install a new backdoor named DSLog.
Please note, this is an ongoing investigation and as the situation is evolving, FortiGuard Labs will update and add new protections accordingly.
https://www.orange-cyberdefense.com/fileadmin/general/pdf/Ivanti_Connect_Secure_-Journey_to_the_core_of_the_DSLog_backdoor.pdf
- February 09, 2024: Ivanti disclosed a fifth vulnerability- CVE-2024-22024 (XXE) for ICS and Ivanti Policy Secure.
https://forums.ivanti.com/s/article/CVE-2024-22024-XXE-for-Ivanti-Connect-Secure-and-Ivanti-Policy-Secure?language=en_US
- February 01, 2024: Ivanti disclosed additional vulnerabilities in ICS and Ivanti Policy Secure, and Ivanti Neurons for ZTA. CVE-2024-21888 allows for privilege escalation and CVE-2024-21893 is a server-side request forgery in the SAML component which allows a threat actor to access certain restricted resources without authentication. Vendor mentions in the advisory that CVE-2024-21893 appears to be seen in some targeted attacks and expects an increase in the attacks. CVE-2024-21893 has also been added to CISA's known exploited vulnerability catalog (KEV).
- January 22, 2024: FortiGuard Labs has released IPS signatures to detect and block Authentication Bypass (CVE-2023-46805) and Server-Side Request Forgery Vulnerability (CVE-2024-21893) is observing high IPS activity since the release of the signatures.
- January 22, 2024: Ivanti plans to begin releasing patches addressing these vulnerabilities on a schedule. Until patches are available, Ivanti has provided a workaround for the users to mitigate exploitation risks.
<https://forums.ivanti.com/s/article/KB-CVE-2023-46805-Authentication-Bypass-CVE-2024-21887-Command-Injection-for-Ivanti-Connect-Secure-and-Ivanti-Policy-Secure-vulnerabilities>
- January 19, 2024: CISA released a Cybersecurity Advisory on Threat Actors Exploiting Vulnerabilities in Ivanti Connect Secure and Policy Secure Gateways
<https://www.cisa.gov/news-events/directives/ed-24-01-mitigate-ivanti-connect-secure-and-ivanti-policy-secure-vulnerabilities>



PROTECT

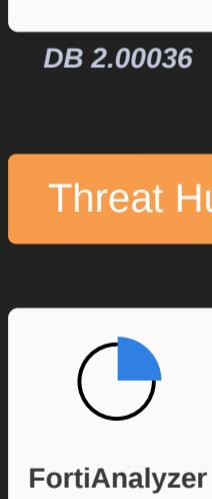
Countermeasures across the security fabric for protecting assets, data and network from cybersecurity events:

Lure



FortiDeceptor
DB 20240227

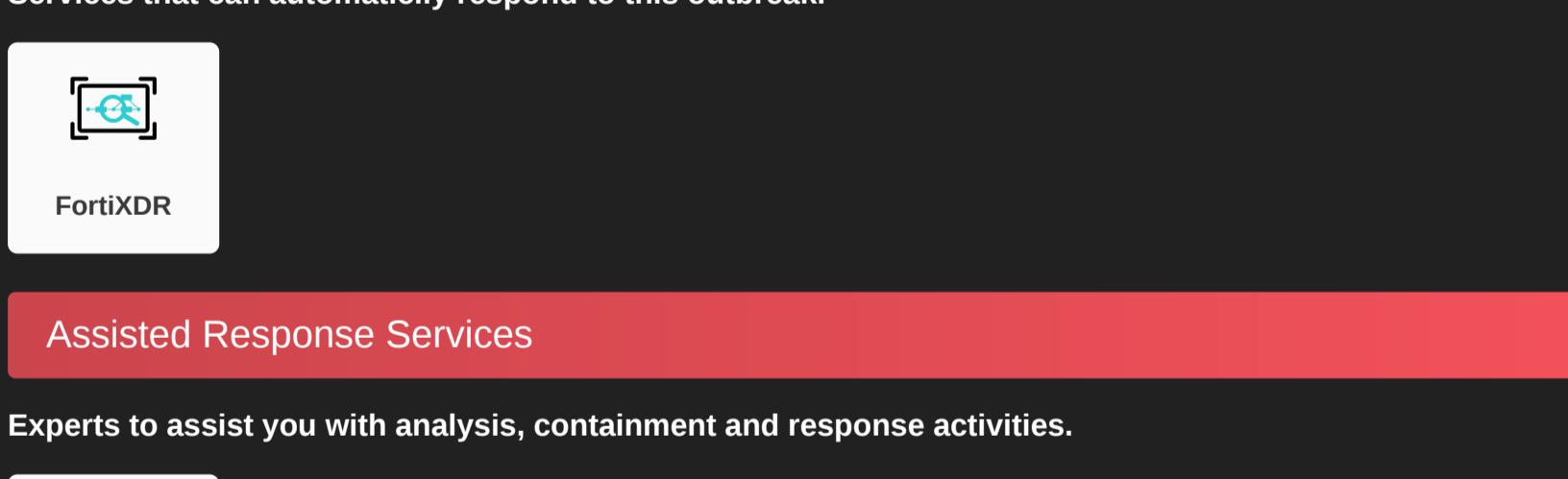
Decoy VM



FortiDeceptor
DB 20240119

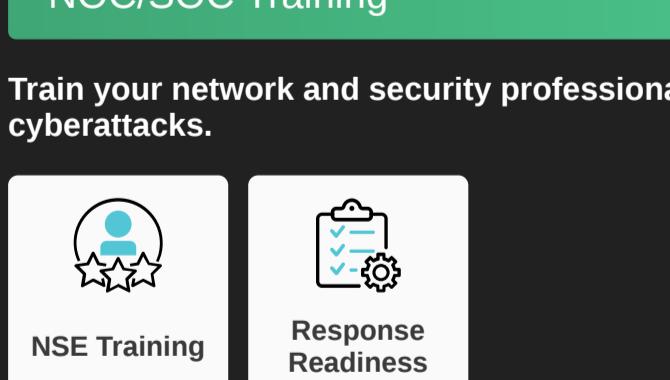
AV

Detects known malware related to the Outbreak



AV (Pre-filter)

Detects known malware related to the Outbreak



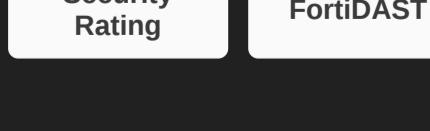
IPS

Detects and blocks attack attempts leveraging the vulnerability



Web App Security

Detects and blocks attack attempts leveraging the vulnerability

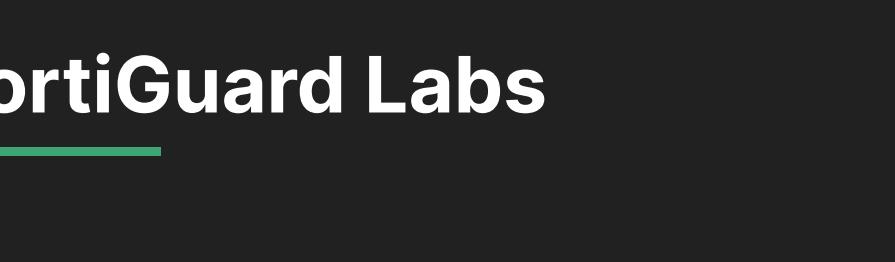


DB 1.00048 DB 0.00368

DETECT

Find and correlate important information to identify an outbreak, the following updates are available to raise alert and generate reports:

IOC



Outbreak Detection

Threat Hunting

RESPOND

Develop containment techniques to mitigate impacts of security events:

Automated Response

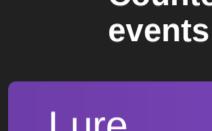
Services that can automatically respond to this outbreak.



FortiXDR

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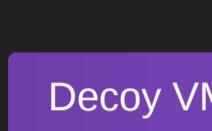
Assisted Response Services



FortiXDR

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Experts to assist you with analysis, containment and response activities.



Incident Response

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RECOVER

Improve security posture and processes by implementing security awareness and training, in preparation for (and recovery from) security incidents:

NOC/SOC Training

Train your network and security professionals and optimize your incident response to stay on top of the cyberattacks.

NSE Training

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Response Readiness

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End-User Training

Raise security awareness to your employees that are continuously being targeted by phishing, drive-by download and other forms of cyberattacks.

Security Awareness & Training

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IDENTIFY

Identify processes and assets that need protection:

Attack Surface Hardening

Check Security Fabric devices to build actionable configuration recommendations and key indicators.

Security Rating

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FortiDAST

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Additional Resources

Ivanti

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HelpNet Security

<https://www.helpnetsecurity.com/2024/01/11/cve-2023-46805-cve-2024-21887/>

The Hacker News

<https://thehackernews.com/2024/01/cisa-issues-emergency-directive-to.html>

Ivanti's integrity checker

https://forums.ivanti.com/s/article/B44755?language=en_US

Bleeping Computer

<https://www.bleepingcomputer.com/news/security/hackers-exploit-ivanti-surf-flaw-to-deploy-dslog-backdoor/>

Learn more about FortiGuard Outbreak Alerts

FortiGuard Labs