F#RTINET. **OUTBREAK ALERTS**

PaperCut MF/NG Improper Access Control Vulnerability Critical vulnerability in PaperCut Print Management Server exploited in the wild

https://www.papercut.com/kb/Main/PO-1216-and-PO-1219

CVEs: CVE-2023-27350

Announced

Latest Developments

the specific flaw exists within the SetupCompleted class and could be achieved remotely without authentication. PaperCut MF/NG Improper Access Control Vulnerability (CVE-2023-27350) has been seen exploited in the wild. Background Papercut is a company which offers a print management system called PaperCut MF and PaperCut NG, which

are approximately 1700 internet exposed PaperCut application servers.

An unauthenticated attacker can perform a Remote Code Execution (RCE) on a vulnerable PaperCut Application Server. According to the vendor,

https://www.zerodayinitiative.com/advisories/ZDI-23-232/

one of the fixed versions provided.

January 10, 2023: Zero Day Initiative disclosed the vulnerabilities to PaperCut. https://www.zerodayinitiative.com/advisories/ZDI-23-233/

March 8, 2023: PaperCut released a patch and advises to immediately upgrade PaperCut Application Servers to

provides print monitoring and control capabilities supporting a wide range of different printers, scanners, and other devices for that purpose. Successful exploitation of this security defect allows a remote, unauthenticated attacker to bypass authentication and execute arbitrary code with system privileges. According to a Shodan search, there

April 19, 2023: Vendor reported that unpatched servers are being exploited in the wild, particularly the flaw CVE-

https://www.papercut.com/kb/Main/PO-1216-and-PO-1219

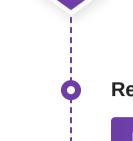
2023-27350. April 24, 2023: CISA added CVE-2023-27350 to its known exploited vulnerabilities catalog (KEV).

https://www.cisa.gov/news-events/cybersecurity-advisories/aa23-131a

Both CVE-2023-27350, CVE-2023-27351 have been fixed in PaperCut MF and PaperCut NG versions 20.1.7, 21.2.11 and 22.0.9 and later. FortiGuard Labs has released an IPS signature to detect and block attacks evidence that CVE-2023-27351 is being used in the wild. However, it is strongly advised to apply patches for both

May 11, 2023: CISA and FBI Release Joint Advisory in Response to Active Exploitation of PaperCut Vulnerability

immediately if not already done. **PROTECT** Countermeasures across the security fabric for protecting assets, data and network from cybersecurity



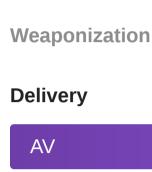
Reconnaissance

Lure Mitigates PaperCut vulnerability by detecting and preventing lateral movement on the network segment

FortiDeceptor v3.3+ Decoy VM Mitigates PaperCut vulnerability by detecting and preventing lateral movement on the network segment

FortiDeceptor

v3.3+



FortiGate

FortiADC

DB 1.445

FortiEDR

DB 91.02676

IPS

FortiGate

FortiWeb

DB 0.00348

Action

27350)

AV (Pre-filter)

27350)

DB 91.02676 DB 91.02676 DB 91.02676 DB 91.02676 DB 91.02676 DB 91.02676 DB 91.02676

FortiSASE

FortiMail

FortiCASB

FortiCWP

Detects and blocks known malware related to PaperCut MF/NG Improper Access Control Vulnerability (CVE-2023-



FortiWeb

FortiProxy

FortiClient

FortiNDR

DB 91.02676

FortiSASE

Exploitation

FortiADC

FortiProxy

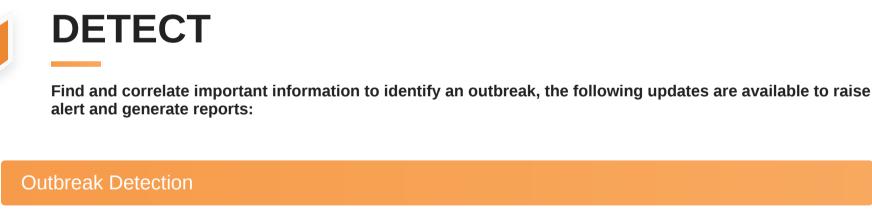
Detects and blocks attack attempts leveraging Papercut MF/NF vulnerability (CVE-2023-27350)

Detects and blocks known malware related to PaperCut MF/NG Improper Access Control Vulnerability (CVE-2023-



FortiNDR

Installation C2



FortiClient

DB 1.10

IOC

FortiAnalyzer

DB 2.0000

FortiSIEM

FortiSOCaaS

Develop containment techniques to mitigate impacts of security events:

FortiSIEM

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

FortiRecon:

Assisted Response Services

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

Security readiness and awareness training for SOC teams, InfoSec and general employees.

Response Readiness

IDENTIFY

InfoSec Services

Attack Surface Monitoring (Inside & Outside) Security reconnaissance and penetration testing services, covering both internal & external attack vectors, including those introduced internally via software supply chain.

Identify processes and assets that need protection:

Security FortiRecon: Rating **EASM**

The Hacker News https://thehackernews.com/2023/04/microsoft-confirms-papercut-servers.html

https://thehackernews.com/2023/04/russian-hackers-suspected-in-ongoing.html

SecurityWeek

The Hacker News

Bleeping Computer https://www.bleepingcomputer.com/news/security/exploit-released-for-papercut-flaw-abused-to-hijack-servers-patch-now/ https://www.securityweek.com/huntress-most-papercut-installations-not-patched-against-already-exploited-security-flaw/

Additional Resources FortiGuard Threat Signal https://www.fortiguard.com/threat-signal-report/5147

Learn more about FortiGuard Outbreak Alerts

FERTINET





Automated Response

E

FortiXDR

Incident Response

Services that can automatically respond to this outbreak.











