

# Dateline: 2023-10-31



STORMWATCH

# https://show.greynoise-storm.watch/



# Storm \( \nothing \) Watch by GreyNoise Intelligence GreyNoise Intelligence

**TECHNOLOGY · UPDATED WEEKLY** 

https://pod.greynoise-storm.watch/





# The Messenger Tech.

It's time to break the news.

News Politics Opinion Business Entertainment Sports Tech



TRENDING NOW | Firefighters Share New Details of Matthew Perry's Tragic Death

# The U.S. And Its Allies Are Pledging Never To Pay Hacker Ransoms

Officials from nearly 50 countries will meet in Washington this week to plan the next phase of their war against digital extortion attacks.

Published 10/31/23 05:00 AM ET Eric Geller





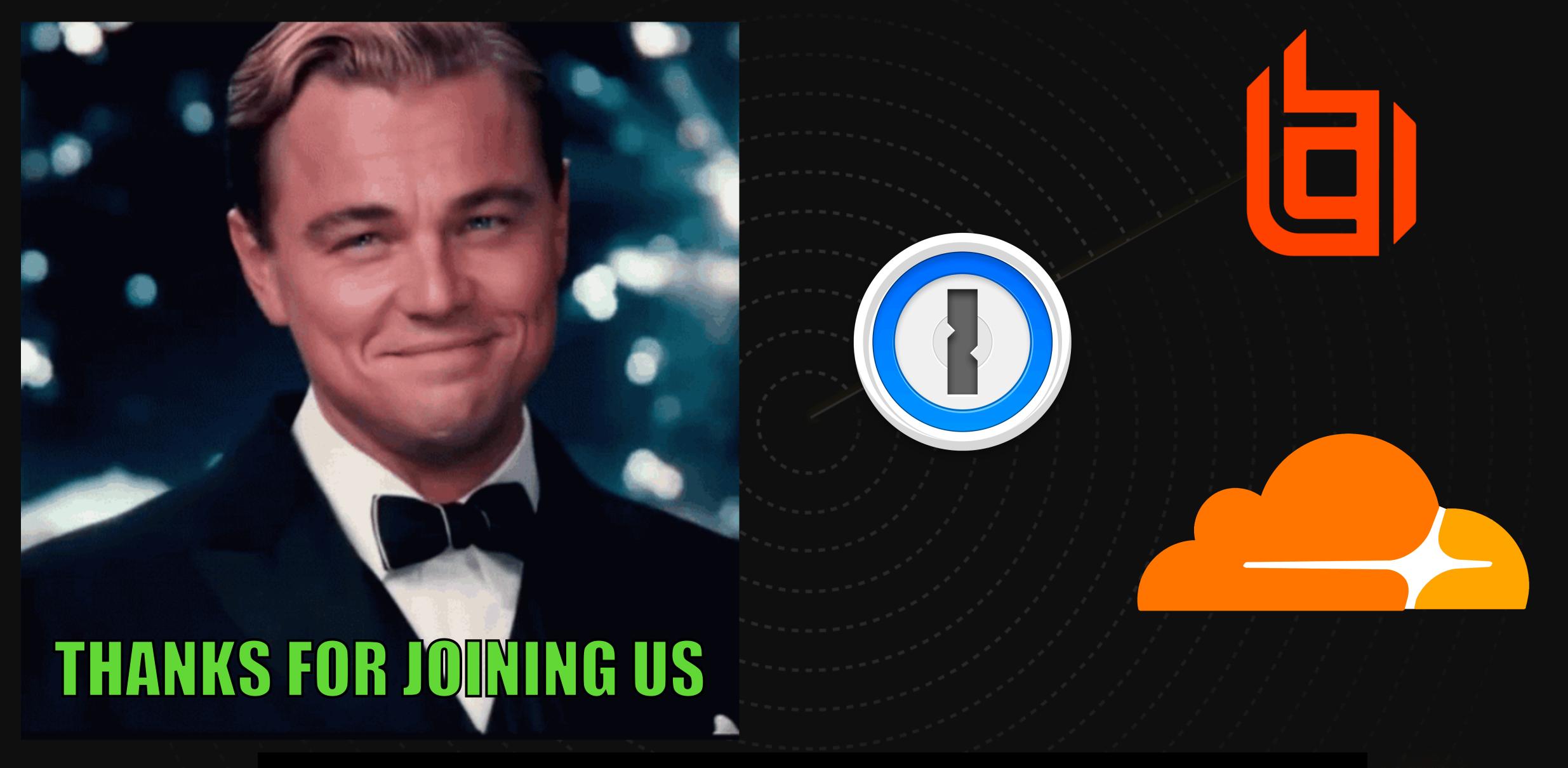














https://www.bleepingcomputer.com/news/security/1password-discloses-security-incident-linked-to-okta-breach/

# Okta Inc

\$65.76 \(\psi 4.20\%\) -2.88 6M

After Hours: \$65.23 (↓0.81%) -0.53

Closed: Oct 30, 7:55:45 PM UTC-4 · USD · NASDAQ · Disclaimer



MarketWatch • Jun 1, 2023

Okta stock plunges, CEO sees tough times ahead even as earnings forecast...

 $\downarrow$  17.83% on that day

Investopedia · Aug 31, 2023

Okta Shares Soar as Business Demand for Protection From Hackers...

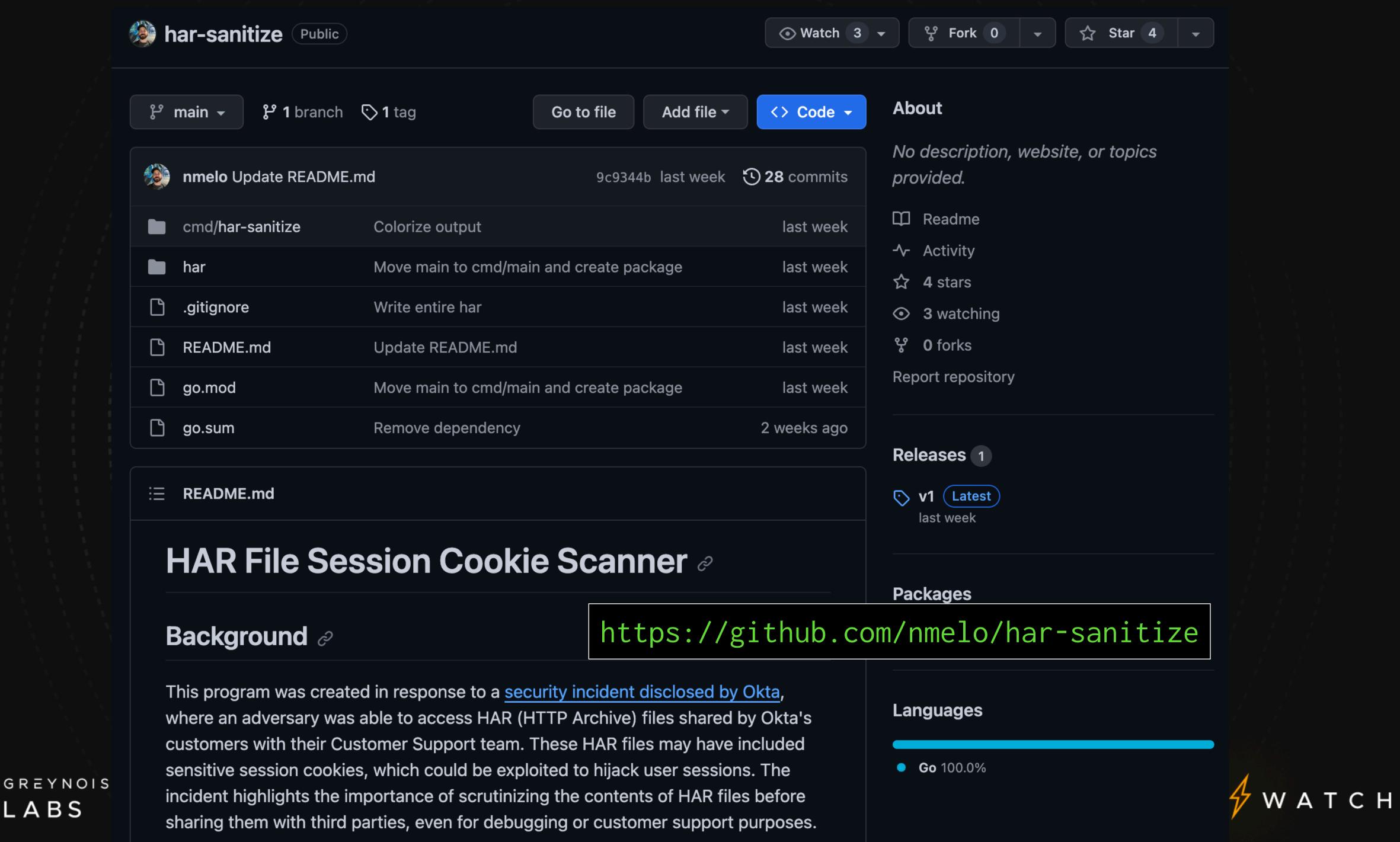
个 13.51% on that day

**USNews.com** • Oct 20, 2023

Software Firm Okta's Shares Slump on Cyber Breach

 $\sqrt{11.57\%}$  on that day







# Cisco IOS XE CVE-2023-20198: Deep Dive and POC

by James Horseman | Oct 30, 2023 | Blog, Red Team

## Introduction

This post is a follow up to https://www.horizon3.ai/cisco-ios-xe-cve-2023-20198-theory-crafting/.

Previously, we explored the patch for CVE-2023-20273 and CVE-2023-20198 affecting Cisco IOS XE and identified some likely vectors an attacker might have used to exploit these vulnerabilities. Now, thanks to SECUINFRA FALCON TEAM's honeypot, we have further insight into these vulnerabilities.

## POC

**HORIZON3**.ai

https://www.horizon3.ai/cisco-ios-xe-cve-2023-20198-deep-dive-and-poc/

See below for an example request that bypasses authentication on vulnerable instances of IOS-XE. This POC creates a user named baduser with privilege level 15. Let's dig into the details.

```
1 POST /%2577ebui_wsma_http HTTP/1.1
2 Host:
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/118.0.5993.90
Safari/537.36
4 Accept: */*
5 Accept-Encoding: gzip, deflate, br
6 Accept-Language: en-US,en;q=0.9
7 Connection: close
8 Content-Length: 878
9
10 <?xml version="1.0" encoding="UTF-8"?>
<SOAP:Envelope xmlns:SOAP="
```



# AND NOW BACK TO OUR REGULARLY SCHEDULED PROGRAMMING

# An Important Message from Bala Sathiamurthy, Chief Information Security Officer (CISO)

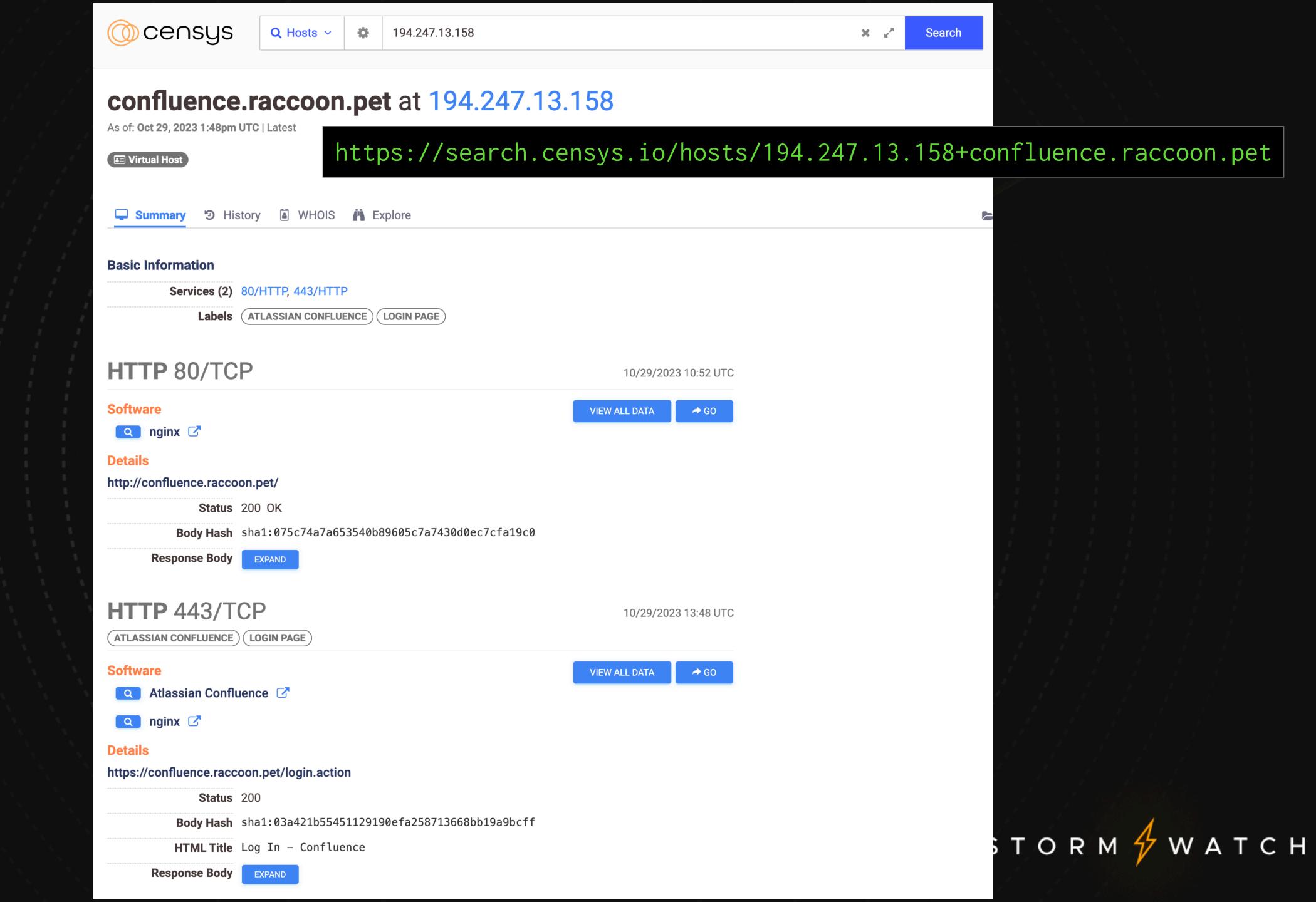
As part of our continuous security assessment processes, we have discovered that Confluence Data Center and Server customers are vulnerable to significant data loss if exploited by an unauthenticated attacker. There are no reports of active exploitation at this time; however, customers must take immediate action to protect their instances. Please read the Critical Security Advisory below for instructions and vulnerability details.a

# CVE-2023-22518 - Improper Authorization Vulnerability In Confluence Data Center and Confluence Server

CVE-2023-22518 - Improper Authorization Vulnerability in Confluence Data Center and Server

Summary	CVE-2023-22518 - Improper Authorization Vulnerability in Confluence Data Center and Server
Advisory Release Date	Mon, Oct 30 2023 21:00 PDT
Products	Confluence Data Center     Confluence Server
CVE ID	CVE-2023-22518
Related Jira Ticket(s)	• CONFSERVER-93142









**Micros** 



## The Shadowserver Foundation

@shadowserver@infosec.exchange

As a PoC exploit was recently published for Microsoft Exchange CVE-2023-36745, we are now pre-emptively reporting servers seen with that vulnerability (version check only).

Please note this is a post-auth RCE.

At least 23.5K instances (by unique IP) vulnerable.

Data shared in Vulnerable Exchange report: shadowserver.org/what-we-do/ne...

Example dashboard stats: dashboard.shadowserver.org/sta...

NVD entry: nvd.nist.gov/vuln/detail/CVE-2...

MS update guide and patch (released September 12th 2023): msrc.microsoft.com/update-guid...



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ray Egypt Croatia Indone..

Azerbai... Ireland Japan Kuwi

banon Nigeria Cyprus Lisch... Pakis... Fu

Colo., Para., Bahv., Nort., Arres o

https://www.bleepingcomputer.com/news/security/critical-rce-flaws-found-in-solarwinds-access-audit-solution/

Remote unauthenticated attackers can execute arbitrary code in the context of SYSTEM Due To...



- •CVE-2023-35182 (9.8): the deserialization of untrusted data in the 'createGlobalServerChannelInternal' method
- •CVE-2023-35185 (9.8): a lack of validation of user-supplied paths in the 'OpenFile' method
- •CVE-2023-35187 (9.8): without authentication due to lack of validation of user-supplied paths in the 'OpenClientUpdateFile' method



https://www.sec.gov/news/press-release/2023-227

## **Press Release**

SEC Charges Solar Winds and Chief Information Security Officer with Fraud, Internal Control Failures

Complaint alleges software company misled investors about its cybersecurity practices and known risks

# FOR IMMEDIATE RELEASE 2023-227

Washington D.C., Oct. 30, 2023 — The Securities and Exchange Commission today announced charges against Austin, Texas-based software company SolarWinds Corporation and its chief information security officer, Timothy G. Brown, for fraud and internal control failures relating to allegedly known cybersecurity risks and vulnerabilities. The complaint alleges that, from at least its October 2018 initial public offering through at least its December 2020 announcement that it was the target of a massive, nearly two-year long cyberattack, dubbed "SUNBURST," SolarWinds and Brown defrauded investors by overstating SolarWinds' cybersecurity practices and understating or failing to disclose known risks. In its filings with the SEC during this period, SolarWinds allegedly misled investors by disclosing only generic and hypothetical risks at a time when the company and Brown knew of specific deficiencies in SolarWinds' cybersecurity practices as well as the increasingly elevated risks the company faced at the same time.





Octo Tempest is a financially motivated threat actor group that poses a significant danger to organizations across various industries such as natural resources, gaming, hospitality, and financial services. They employ a wide range of tactics, including adversary-in-the-middle techniques, social engineering, and SIM swapping.

Initially, they sold SIM swaps and performed account takeovers to steal cryptocurrency. Later, they began extorting victim organizations for stolen data and even resorted to physical threats. In 2023, they became an affiliate of ALPHV/BlackCat, a ransomware operation, and started deploying ransomware payloads.

They establish persistence within organizations using publicly available tools and exfiltrate data using anonymous file-hosting services. The document also provides guidelines for organizations to defend against Octo Tempest's activities, including aligning privileges, implementing conditional access policies, and educating users.



Microsoft has announced the availability of its Security Copilot Early Access Program. The program aims to address the increasing cyberthreats and shortage of security experts by leveraging generative AI.

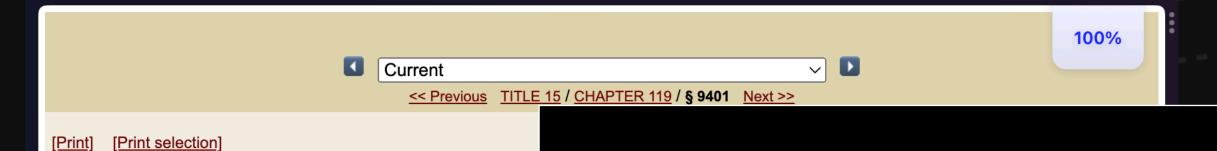
It offers capabilities such as writing complex queries based on natural language questions and summarizing security incidents.

The program now includes a new embedded experience within Microsoft 365 Defender, providing actionable recommendations and a unified experience for analysts. Microsoft Defender Threat Intelligence is also included at no cost, offering access to Microsoft's vast knowledge of cyberthreats.

Organizations can extend access to their Security Copilot environment to Managed Security Service Providers (MSSPs). The program is open to qualified customers, and interested parties can sign up for early access.







#### §9401. Definitions

In this chapter:

#### (1) Advisory Committee

The term "Advisory Committee" means the National *J* 9414(a) of this title.

#### (2) Agency head

The term "agency head" means the head of any Exe

#### (3) Artificial intelligence

The term "artificial intelligence" means a machine-ba make predictions, recommendations or decisions influe machine and human-based inputs to-

- (A) perceive real and virtual environments;
- (B) abstract such perceptions into models through
- (C) use model inference to formulate options for in

#### (4) Community college

The term "community college" means a public institution predominantly awarded to students is an associate's de 1059c of title 20 and public 2-year State institutions of I

#### (5) Initiative

The term "Initiative" means the National Artificial Inte

#### (6) Initiative Office

The term "Initiative Office" means the National Artific title.

#### (7) Institute

The term "Institute" means an Artificial Intelligence R

#### (8) Institution of higher education

The term "institution of higher education" has the me

#### (9) Interagency Committee

The term "Interagency Committee" means the interagency

#### (10) K-12 education

The term "K-12 education" means elementary school agencies, as such agencies are defined in section 7801 of title 20.

#### (11) Machine learning

The term "machine learning" means an application of artificial intelligence that is characterized by providing systems the ability to automatically learn and improve on the basis of data or experience, without being explicitly programmed.

( Pub. L. 116–283, div. E, §5002, Jan. 1, 2021, 134 Stat. 4523 .)

## Artificial intelligence

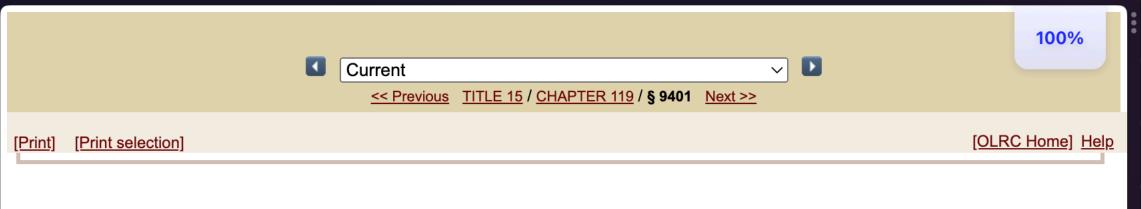
The term "artificial intelligence" means a machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations or decisions influencing real or virtual environments.

Artificial intelligence systems use machine and human-based inputs to-

- (A) perceive real and virtual environments;
- (B) abstract such perceptions into models through analysis in an automated manner; and
- (C) use model inference to formulate options for information or action.



http://uscode.house.gov/view.xhtml?req=(title:15 section:9401 edition:prelim)



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#### (7) Institute

The term "Institute" means an Artificial Intelligence Research Institute described in section 9431(b)(2) of this title.

#### (8) Institution of higher education

The term "institution of higher education" has the meaning given the term in section 1001 and section 1002(c) of title 20.

#### (9) Interagency Committee

The term "Interagency Committee" means the interagency committee established under section 9413(a) of this title.

#### (10) K-12 education

The term "K-12 education" means elementary school and secondary school education provided by local educational agencies, as such agencies are defined in section 7801 of title 20.

#### (11) Machine learning

The term "machine learning" means an application of artificial intelligence that is characterized by providing systems the ability to automatically learn and improve on the basis of data or experience, without being explicitly programmed.

( Pub. L. 116–283, div. E, §5002, Jan. 1, 2021, 134 Stat. 4523 .)

The term Ilmed

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# CVE-2023-22518 Pending Pending Pending **Published** Modified CVSS Pending 3 Posts

#### **CVE Info**

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\*\* RESERVED \*\* This candidate has been reserved by an organization or individual that will use it when announcing a new security problem. When the candidate has been publicized, the details for this candidate will be provided.

MITRE ☑

NVD ₫

#### Mastodon

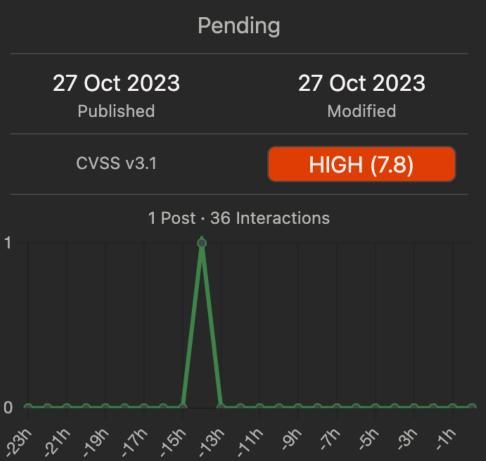


Once again #atlassian :

Your statement :

Atlassian Cloud sites are not affected by this vulnerability. If your Confluence site is accessed via an atlassian.net domain, it is hosted by Atlassian and is not vulnerable to this issue. This is just nonsense.

## CVE-2023-34057



#### **CVE Info**

VMware Tools contains a local privilege escalation vulnerability. A malicious actor with local user access to a guest virtual machine may elevate privileges within the virtual machine.

MITRE 🗹

NVD ₫

#### Mastodon



El Dis :verified:

@vomanc

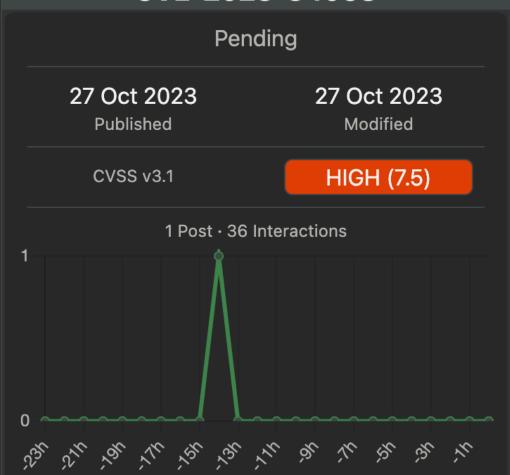
**#VMware has addressed multiple vulnerabilities** 

#CVE-2023-34057

#CVE-2023-34058

& 20 ☆ 16 · 14 hours ago · 🗹

#### CVE-2023-34058



#### **CVE Info**

VMware Tools contains a SAML token signature bypass vulnerability. A malicious actor that has been granted Guest Operation Privileges https://docs.vmware.com/en/VMwarevSphere/8.0/vsphere-security/GUID-6A952214-0E5E-4CCF-9D2A-90948FF643EC.html in a target virtual machine may be able to elevate their privileges if that target virtual machine has been assigned a more privileged Guest Alias https://vdc-download.vmware.com/vmwbrepository/dcr-public/d1902b0e-d479-46bf-8ac9-cee0e31e8ec0/07ce8dbd-db48-4261-9b8f-

c6d3ad8ba472/vim.vm.guest.AliasManager.html

MITRE □

NVD ₫

#### Mastodon



El Dis :verified:

#### CVE-2023-20198



#### **CVE Info**

Cisco is aware of active exploitation of a previously unknown vulnerability in the web UI feature of Cisco IOS XE Software when exposed to the internet or to untrusted networks. This vulnerability allows a remote, unauthenticated attacker to create an account on an affected system with privilege level 15 access. The attacker can then use that account to gain control of the affected system. For steps to close the attack vector for this vulnerability, see the Recommendations section of this advisory Cisco will provide updates on the status of this investigation and when a software patch is available.

MITRE ☑

NVD ₫

#### Mastodon



@simontsui

GRE

LABS



https://censys.com/cisco-ios-xe-ten-days-later/

# Cisco IOS XE: Ten days later



OCTOBER 26, 2023

Tags: <u>Rapid response</u>, <u>Research</u> **Executive Summary** 

- Our analysis has concluded that there are now around 28,910 hosts that show signs of compromise as of October 25, 2023.
- The attackers have adapted, and our previous methods of identification are no longer effective
- Researchers have determined a new (albeit not as precise) way of determining whether the backdoors on these devices are still active







# Threat Hunting Workshop & Happy Hour at CyberWeek

ShipGarten Brewing | 7581 Colshire Dr. McLean, VA Wednesday, Nov 15 | 4-8 p.m.

## 4-6 pm: Threat Hunting Workshop -

Sit down with Censys threat hunters to learn tips and tricks on how to leverage the free Censys Search tool to identify and study threats across the Internet and within your own attack surface.

## 6-8 p.m: Happy Hour -

Enjoy happy hour drinks & appetizers on Censys! Network with security folks from around D.C. and mingle with a Special Guest who will be announced closer to the event!

SPECIAL GUEST

CENSYS PARTNER



GREYNOISE

carahsoft



## What to Expect

Spend a couple of hours enjoying craft beers & hot appetizers while you learn threat hunting tips and tricks from the pros at Censys:

- Find and investigate **C2 infrastructure** using fingerprints that Censys has created for Cobalt Strike, Dark Gate, and others
- Live example of Malware
- Search labels
  - With over 4,000 software and device labels, it's easier to find devices and services of interest
- Exploring certificate data
  - Useful for pivoting and identifying related infrastructure
  - Hunting for spoofed sites
- Censys SDK/CLI for automation
  - Subdomain enumeration command
- Censys GPT
  - CensysGPT harnesses the power of AI to enable users to express
    their search queries using natural language, significantly reducing
    the learning curve typically associated with mastering Censys
    Search Language.



## RSVP Today and Join Us Nov 15 for...

Prizes for Threat Hunting Challenges, Free Swag, Craft Beer, Wine, & Full Bar, Heavy Appetizers, and MORE!

https://censys.com/cyberweek2023

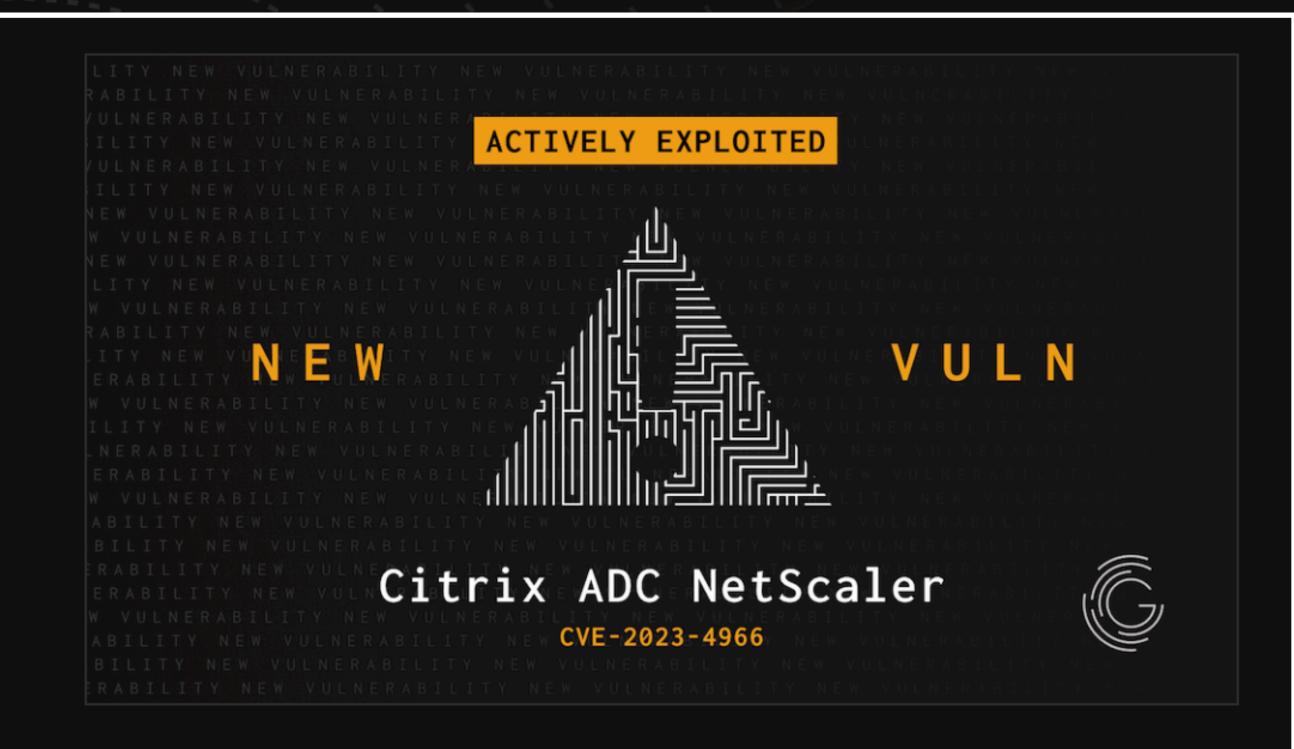




#### **VULNERABILITIES**

# CVE-2023-4966 Helps Usher In A Baker's Dozen Of Citrix Tags To Further Help Organizations Mitigate Harm

Citrix's NetScaler ADC and NetScaler Gateway have, once more, been found to have multiple vulnerabilities, tracked as CVE-2023-4966 and CVE-2023-4967. Read this blog to get all the details.



boB Rudis

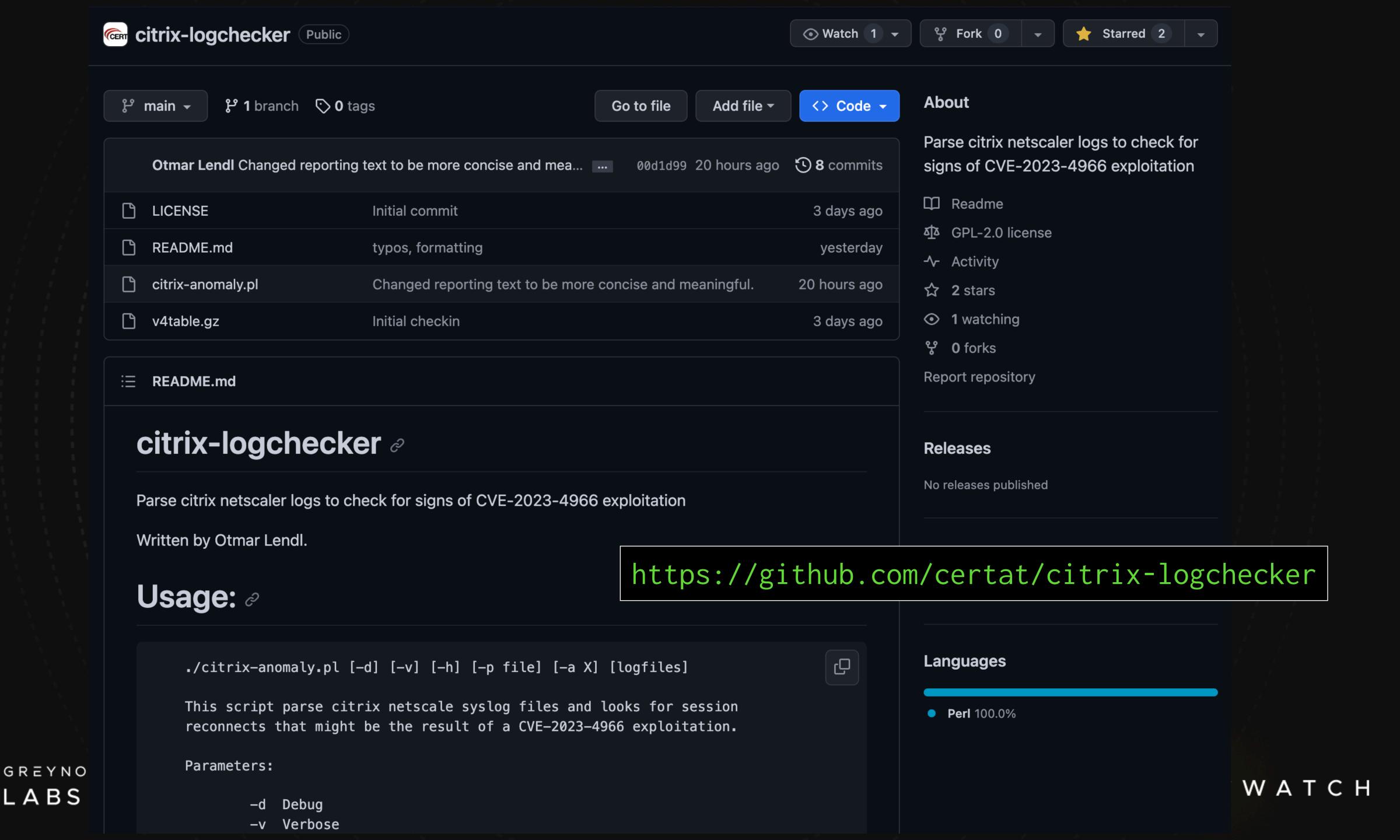
Oct 26, 2023

https://www.greynoise.io/blog/cve-2023-4966-helps-usher-in-a-bakers-dozen-of-citrix-tags-to-further-help-organizations-mitigate-harm



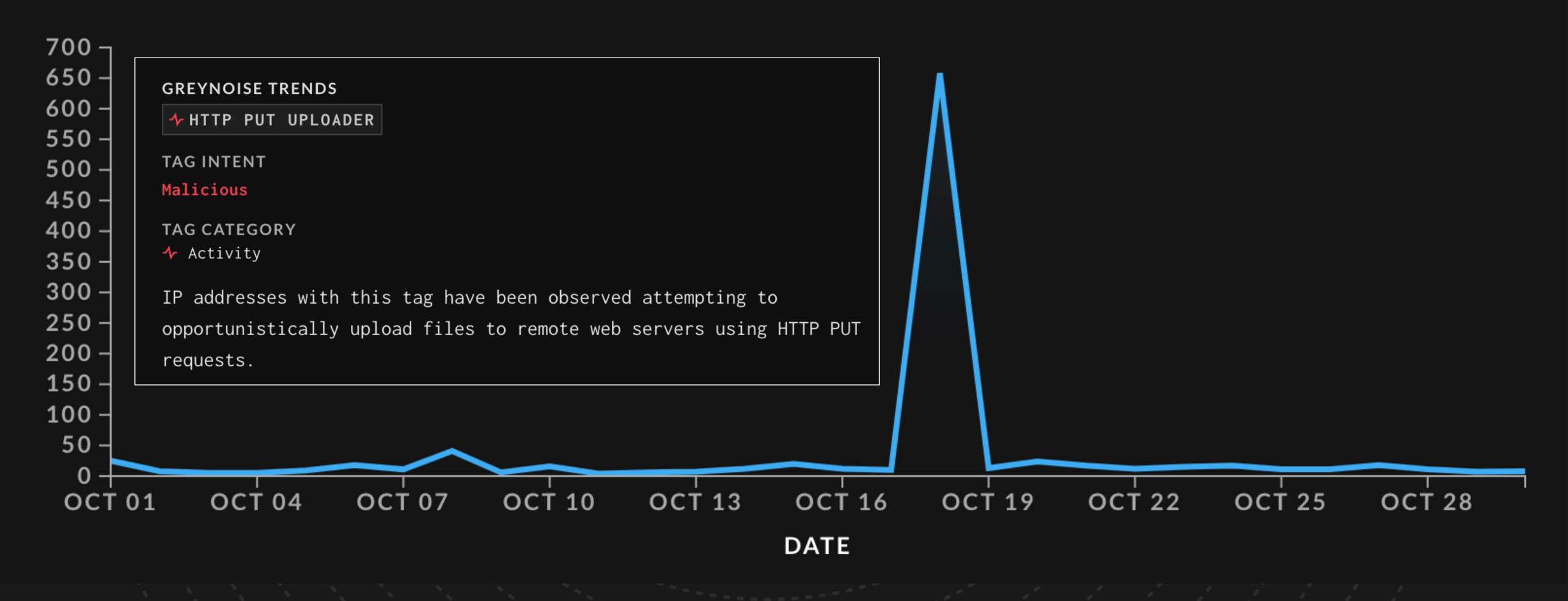
https://viz.greynoise.io/tag/citrix-adc-netscaler-cve-2023-4966-information-disclosure-attempt?days=30





# 906

## UNIQUE IPS OBSERVED BY GREYNOISE



https://viz.greynoise.io/tag/http-put-uploader-scanner?days=10

STORM

# ElasticSearch 目录穿越漏洞(CVE-2015-5531)

E

GREYNOISE

jre版本: openjdk:8-jre

elasticsearch版本: v1.6.0

影响版本: 1.6.1以下

## 原理 ∂

### 参考文章

- https://www.exploit-db.com/exploits/38383/
- http://www.freebuf.com/vuls/99942.html

### 说明:

elasticsearch 1.5.1及以前,无需任何配置即可触发该漏洞。之后的新版,配置文件elasticsearch.yml中必须存在 path.repo ,该配置值为一个目录,且该目录必须可写,等于限制了备份仓库的根位置。不配置该值,默认不启动这个功能。

# 漏洞复现 ♂

## 1. 新建一个仓库 ≥

PUT /\_snapshot/test HTTP/1.1

Host: your-ip:9200

Accept: \*/\*

Accept-Language: en

User-Agent: Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; Win64; x64; Trident/5.0

Connection: close

https://github.com/vulhub/vulhub/blob/master/elasticsearch/CVE-2015-5531/README.md



https://viz.greynoise.io/tag/cisco-imc-supervisor-and-ucs-director-backdoor-attempt?days=30

SSH ALTERNATIVE PORT CRAWLER

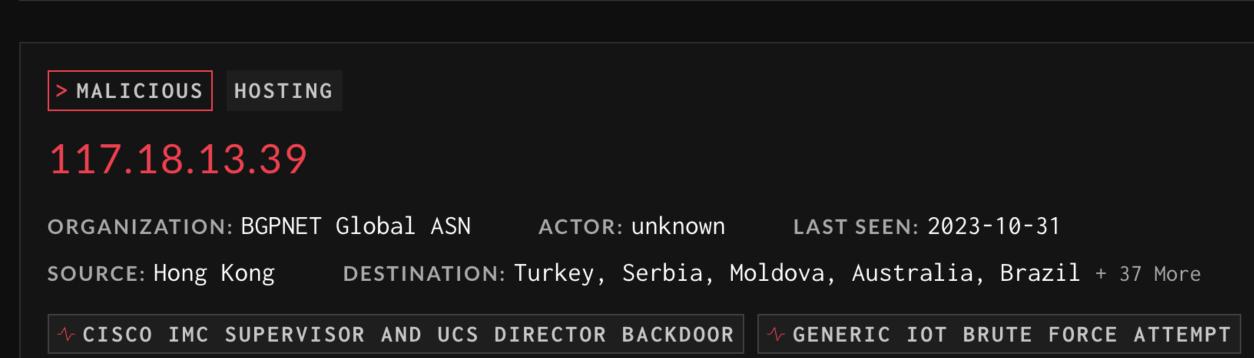
**TAGS** 

# https://viz.greynoise.io/query?gnql=tags:"Cisco IMC Supervisor and UCS Director Backdoor"



```
> MALICIOUS HOSTING
1.15.247.236
ORGANIZATION: Shenzhen Tencent Computer Systems Company
                                                                                             2023-10-
                                                                                    LAST
                                                                 ACTOR: unknown
                                                                                   SEEN:
             Limited
                                                                                             31
                 DESTINATION: United States, South Korea, Poland, Finland, Serbia + 35 More
SOURCE: China
  CISCO IMC SUPERVISOR AND UCS DIRECTOR BACKDOOR
                                                                        SSH WORM
                                                     SSH BRUTEFORCER
> MALICIOUS
             HOSTING
23.95.197.209
ORGANIZATION: ColoCrossing
                                                LAST SEEN: 2023-10-31
                              ACTOR: unknown
SOURCE: United States
                         DESTINATION: Singapore, Germany, Serbia, Switzerland, Canada + 39 More
  CISCO IMC SUPERVISOR AND UCS DIRECTOR BACKDOOR
                                                     GENERIC IOT BRUTE FORCE ATTEMPT
```

SSH WORM



SSH BRUTEFORCER



https://viz.greynoise.io/trends?view=recent

- Dell EMC CGi Injection Check
- Laravel Telescope Scanner





It Has Been

5

Days Since The Last KEV Release





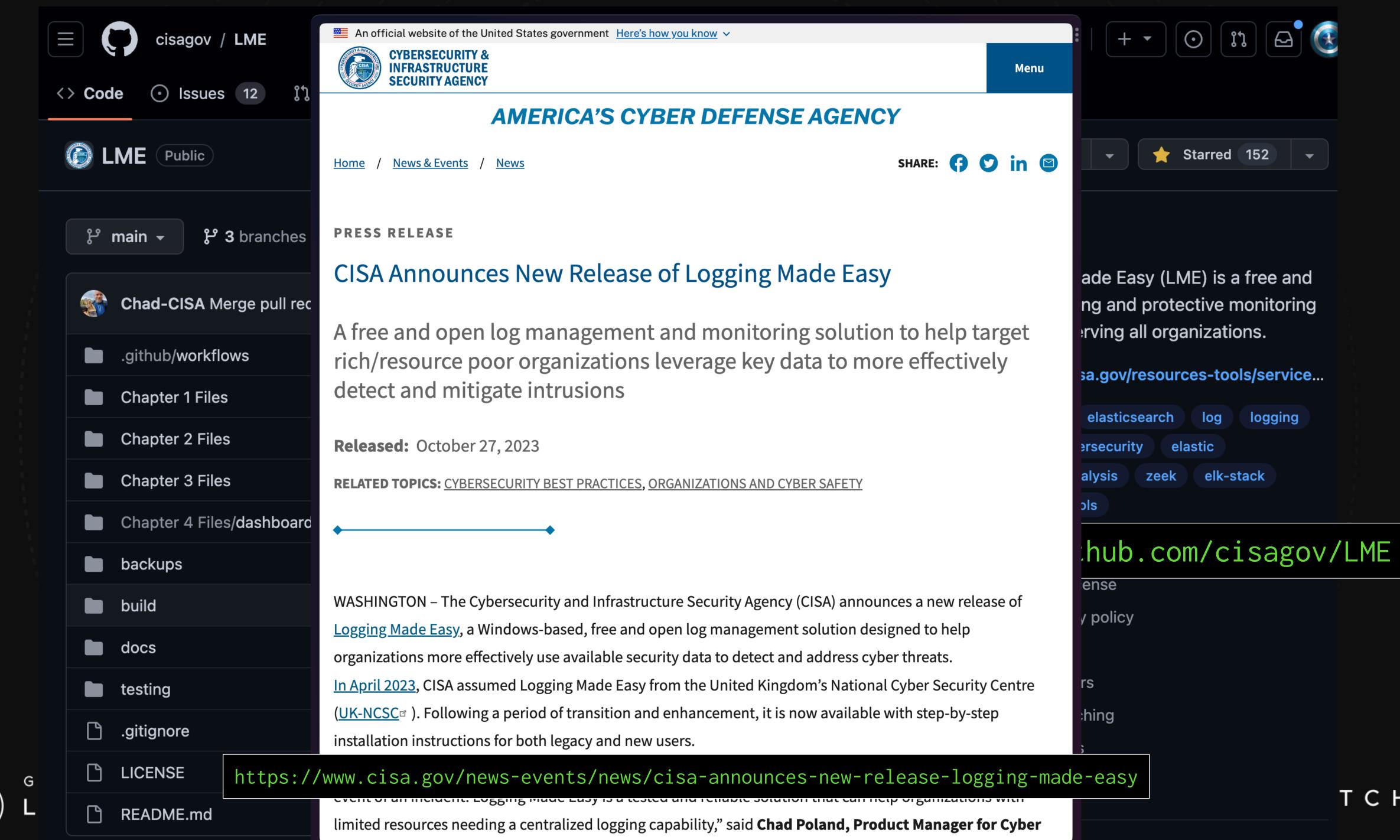
https://www.cisa.gov/known-exploited-vulnerabilities-catalog

CVE-2023-5631

Roundcube Webmail Persistent Cross-Site Scripting (XSS) Vulnerability









TCH

The US Cybersecurity and Infrastructure Security Agency (CISA) is facing potential budget cuts due to its efforts to combat election disinformation, which some lawmakers view as a threat to free speech.

They are being proposed due to CISA's efforts to combat disinformation about US elections, which some lawmakers view as a threat to free speech. Last month, half of House Republicans voted for an amendment to cut funding to CISA by 25%, and Senator Rand Paul (R-KY) has blocked cybersecurity legislation at least 11 times over concerns that CISA and its parent, the US Department of Homeland Security (DHS), are censoring free speech

The cuts could significantly impact CISA's primary responsibilities of defending federal networks and aiding critical infrastructure operators against cyberattacks. Despite its active outreach to private industry, software makers, and cybersecurity firms, and its commitment to helping vulnerable organizations, the proposed cuts could reverse a history of bipartisan budget increases for CISA. The agency is also facing challenges in hiring and retaining cybersecurity professionals, with a 38% understaffing in its Cybersecurity Division as of August 2022





STORM WATCH