

The image features a dark blue background with a complex, glowing circuit pattern. The circuit lines are light blue and white, forming a dense network of paths and nodes. A central black rectangular box with rounded corners contains the text. The background also features several out-of-focus, glowing blue circles of varying sizes, creating a bokeh effect.

# AI CYBER WATCHDOG

AN OPEN SOURCE PRIVATE AI SECURITY PROJECT

# PROBLEM



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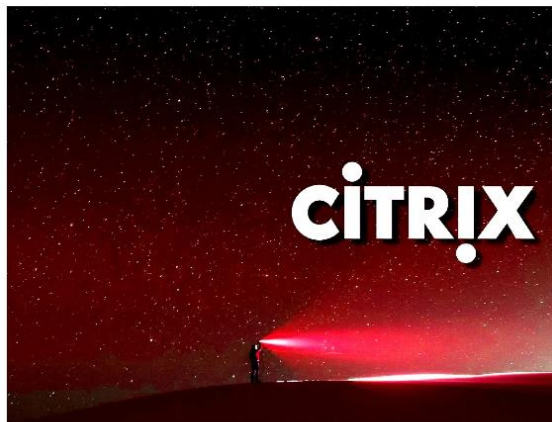
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## Citrix warns of new Netscaler zero-days exploited

By Sergiu Gatlan



Citrix urged customers on Tuesday to immediately patch Netscaler ADCs online against two actively exploited zero-day vulnerabilities.

The two zero-days (tracked as CVE-2023-6548 and CVE-2023-6549) i

### EMERGENCY DIRECTIVES

## ED 24-01: Mitigate Ivanti Connect Secure and Ivanti Policy Secure Vulnerabilities

January 19, 2024

RELATED TOPICS: [CYBERSECURITY BEST PRACTICES](#)



## Snowflake Warns: Targeted Credential Theft Campaign Hits Cloud Customers

Jun 04, 2024 Newsroom

Cloud Security / Data Protection



Cloud computing and analytics company Snowflake said a "limited number" of its customers have been singled out as part of a targeted campaign.

"We have not identified evidence suggesting this activity was caused by a vulnerability, misconfiguration, or breach of Snowflake's platform," the company said in a joint statement along with CrowdStrike and Google-owned Mandiant.

HEY, YOU! FRUSTRATED BY DISTRACTIONS THAT KNOCK TRACK AND MAKE YOU LOSE THE GREATEST RISKS WITH POTENTIAL FOR HIGH IMPACT BUSINESS? IT'S TIME TO ADDRESS CRITICAL RISKS AND GET READY TO REPORT TO THE BOARD. YOU CAN REPORT TO THE BOARD. FIX WHAT MATTERS.

XM Cyber



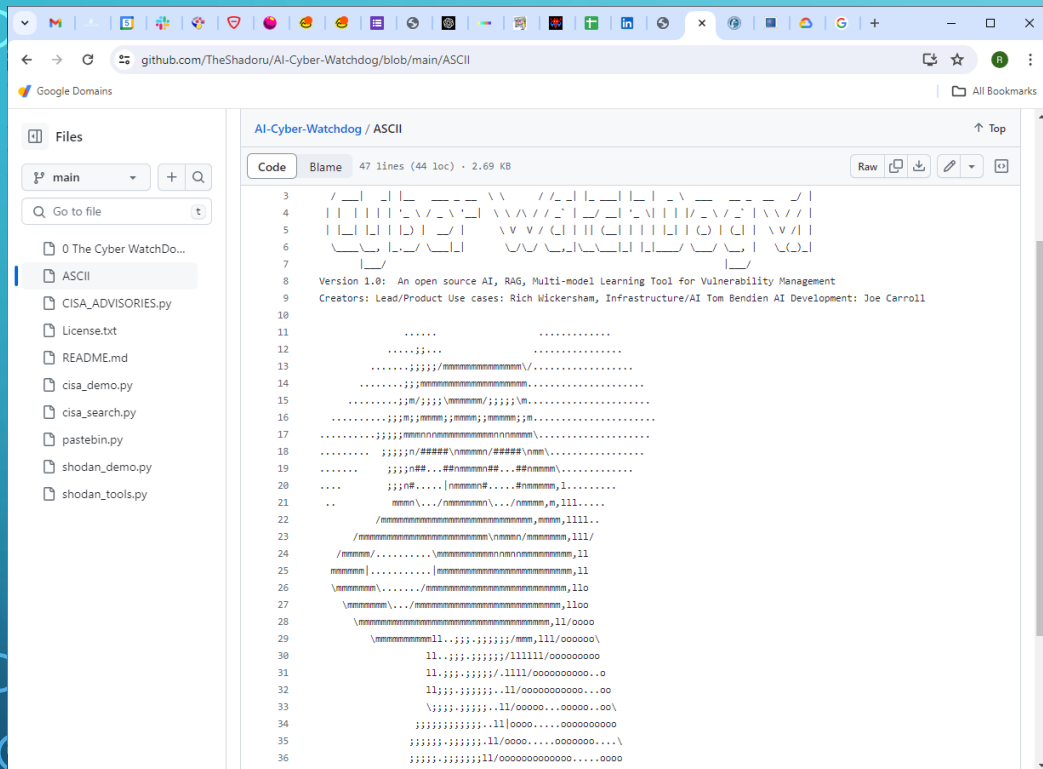
Continuous Attack Surface Penetration Testing

Continuously discover, prioritize, exposures with evidence-backed

Trending News

Across the private and public sector we still **fail to react quickly** to Zero Days or Known Exploitable Vulnerabilities, while TTE/TTKE decreases.

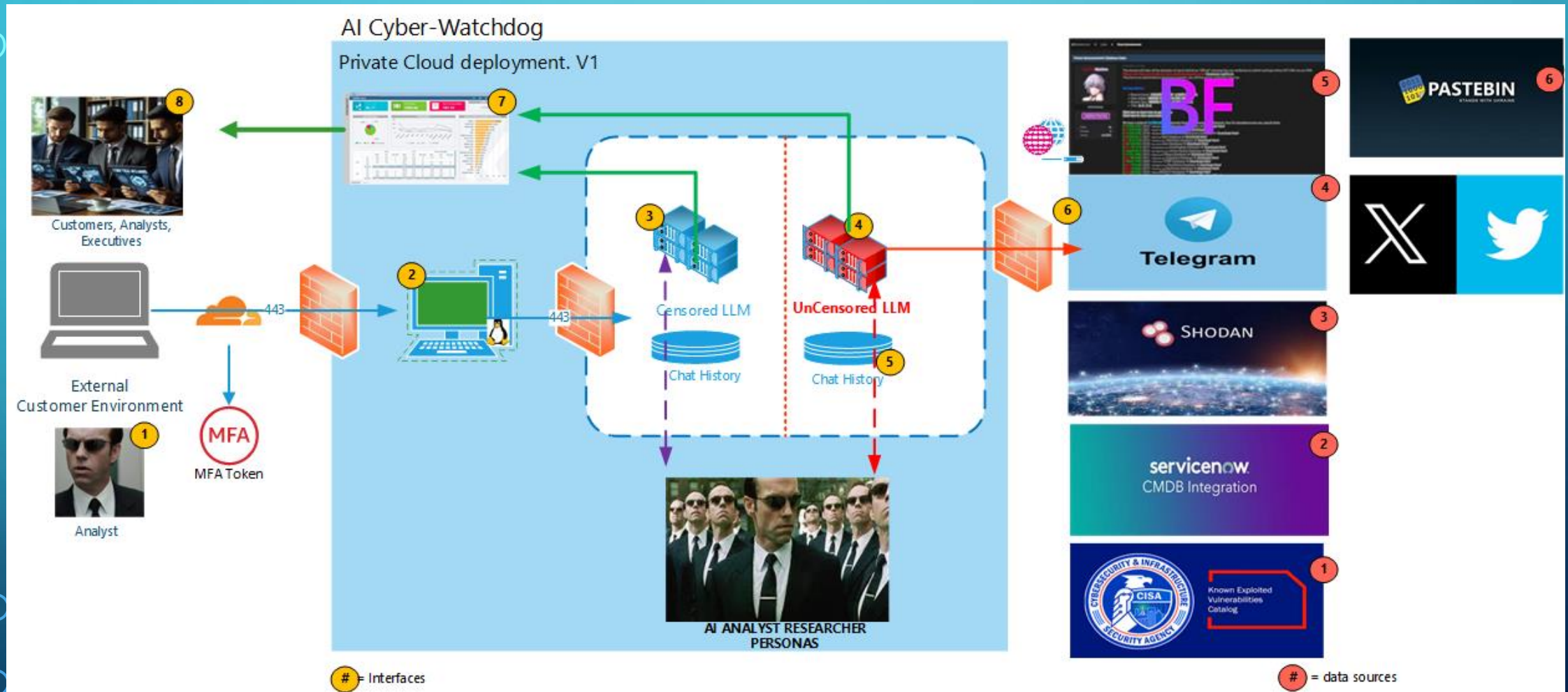
## SOLUTION



AI Cyber-Watchdog: <https://github.com/TheShadoru/AI-Cyber-Watchdog>



# SOLUTION = AI-WATCHDOG ANALYST



# SOLUTION AND REQUIREMENTS

- The AI Cyber Watchdog Project will provide actionable intelligence quickly for Known Exploitable Vulnerabilities
- Watchdog will Determine our exposure by looking both internally and externally
- Watchdog will Utilize RAG to pull in data from multiple sources(CMDB, Shodan, X, Telegram, etc) CREATE SUMMARY DATA and WRITE FILES TO VECTOR DB for further document chat/analyst interrogation.
- In a world where the adversary space is speeding up we need to be faster!

# ENTERPRISE VULNERABILITY WATCH DOG

- **KEV:** A Known Exploitable Vulnerability is published by(CISA) to initiate the project
- **CMDB:** Determine whether have the vulnerable infrastructure in our environment(e.g. Cisco, Citrix, Ivanti) via CMDB
- **OSINT:** The Analyst wants to search across OSINT sources, tools, Social (Shodan, Pastebin, Telegram X, etc)
- **Dark Web:** The Analyst wants to search on cybercrime forums(company mentions, code)
- The Analyst wants a detailed report on inventory, patch level and likelihood of breach
- The analyst will ask the AI to recommend remediation priority steps, priority and deliver summary reports
- Retrieval Augmented Generation
  - Connect to Multiple sources deliver immediate answers and save pulled data for further document chat
  - Prompt engineering will: Retrieve all potentially vulnerable hosts/ devices or software in our clients enterprise environment and validate via OSINT data and dark web data whether we have an issue.

*Reduce Analysis and Remediation timeline from weeks to hours*

The image features a blue background with white circuit-like lines and a central white text area. The text area contains the title "DEMO PLACEHOLDER- SHODAN-CISA-PASTEBIN" and a list of items: "WatchDOG!", "SHODAN", "CISA", and "PASTEBIN". Each item is accompanied by a small screenshot of its respective interface. The "WatchDOG!" screenshot shows a terminal window with a red and white logo and text. The "SHODAN" screenshot shows a terminal window with a green bar at the bottom. The "CISA" screenshot shows a video player interface with a video titled "CISA Releases Four Industrial Control System Advisories". The "PASTEBIN" screenshot shows a terminal window with a green bar at the bottom.

# DEMO PLACEHOLDER- SHODAN-CISA-PASTEBIN

A screenshot of a terminal window displaying the WatchDOG! interface. The terminal has a dark background with red and white text. At the top, it says "Cyber WatchDog v1.0". Below that, it lists the version and creators: "Version 1.0 An open source Windows MITM Sniffing Tool for vulnerability Management" and "Creators: Rick Wickham, Tom Rindt and Joe Carroll". The terminal shows a list of IP addresses and their associated vulnerabilities, with a green bar at the bottom.

WatchDOG!

A screenshot of a terminal window displaying the SHODAN interface. The terminal has a dark background with green and white text. It shows a list of IP addresses and their associated vulnerabilities, with a green bar at the bottom.

SHODAN

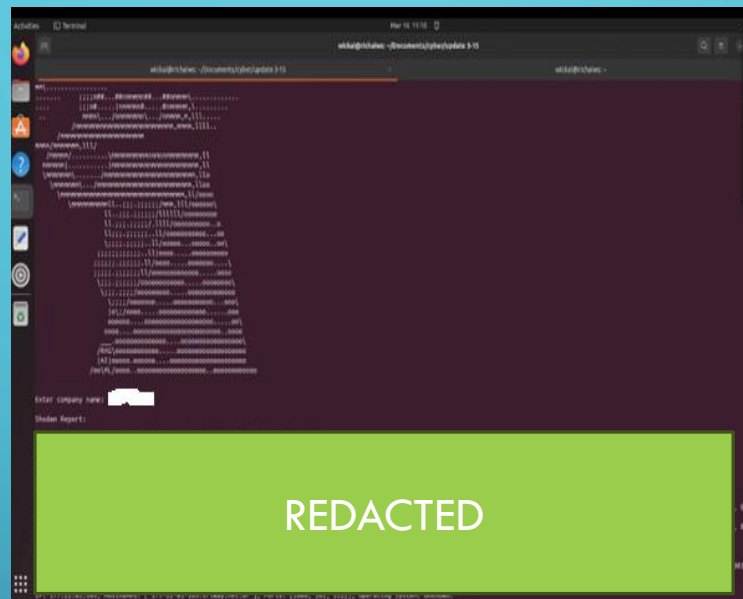
A screenshot of a video player interface displaying a video titled "CISA Releases Four Industrial Control System Advisories". The video shows a list of vulnerabilities and their associated CVEs. The video player has a progress bar and a play button.

CISA

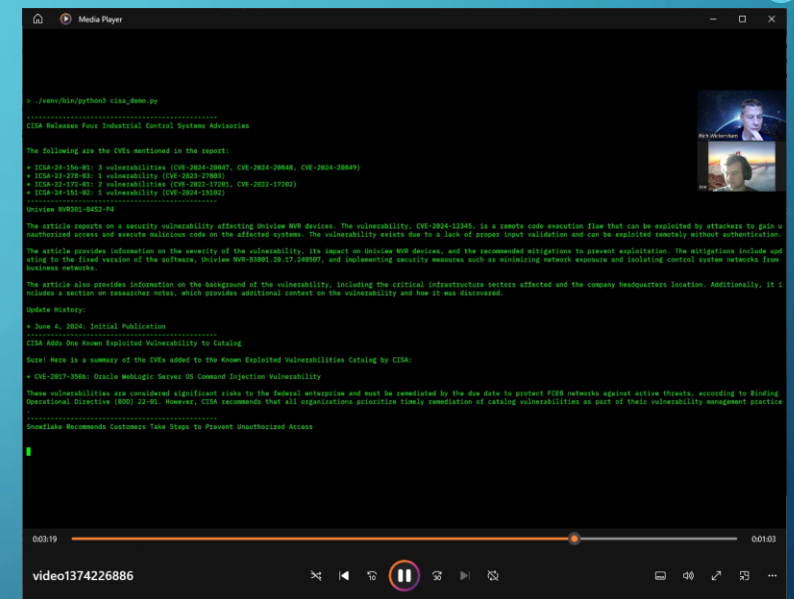
Increased productivity and efficiency are achieved with AI



# WatchDOG!



SHODAN



CISA

## Increased productivity and efficiency are achieved with AI

# EVALUATE A USE CASE PRE AND POST AI

## Pre AI Workflow(Current State)

- 3 hours to assess the impact of a CVE(KEV)
- 1 hour to prepare the deliverable
- 1 hour to orchestrate response
- Process REPEATS for all KEV CVE or critical misconfigurations

## Post AI Workflow(Target State)

- 15 minutes to generate an virtual analyst assessment
- 15 minutes for analysis
- Zero day response is accelerated!

Increased productivity and efficiency are achieved with AI



# AI CYBER WATCHDOG PROCESS

