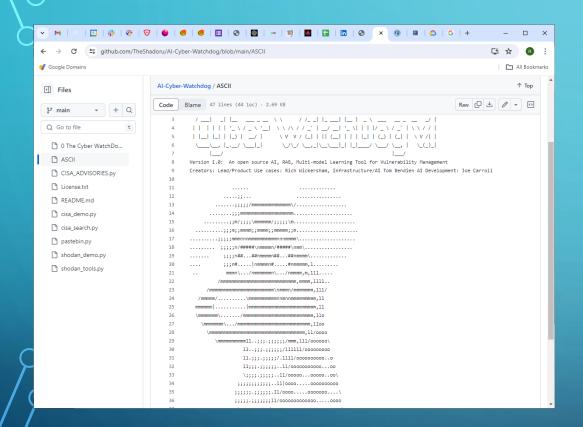


#### **PROBLEM**



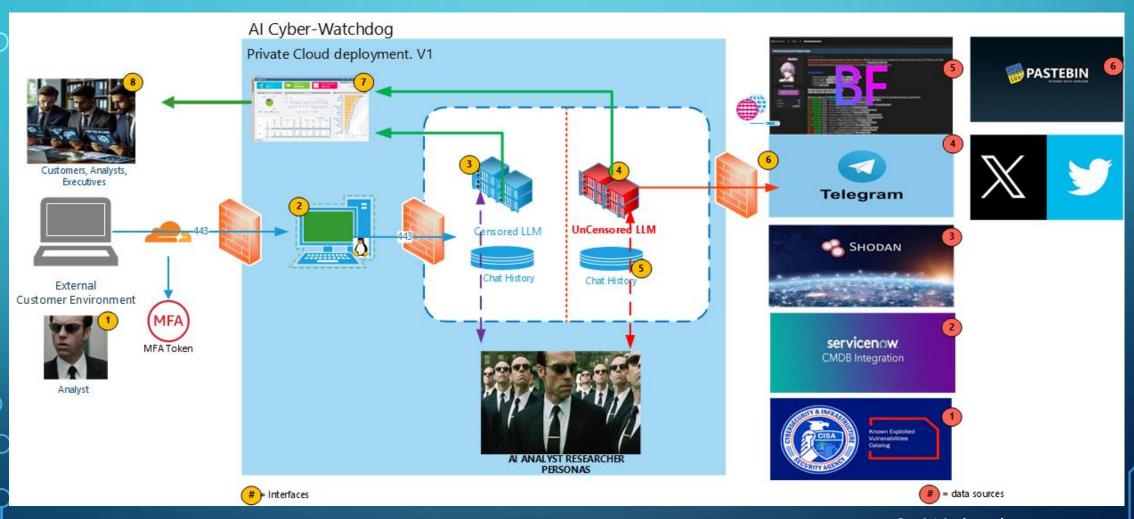
Across the private and public sector we still fail to react quickly to Zero Days or Known Exploitable Vulnerabilities, while TTE/TTKE decreases.

## SOLUTION



Al Cyber-Watchdog: https://github.com/TheShadoru/Al-Cyber-Watchdog

## DESIGN = AI-WATCHDOG ANALYST



## SOLUTION AND REQUIREMENTS

- The Al 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!

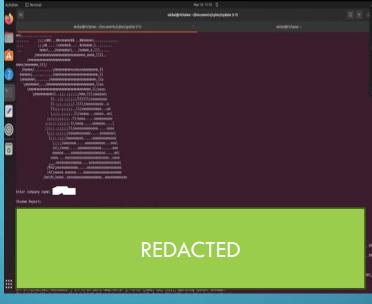
#### ENTERPRISE VULNERABILITY WATCH DOG

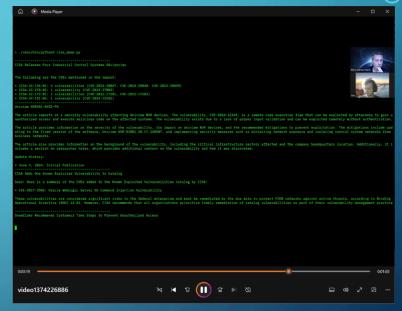
- KEV: A Known Exploitable Vulnerability is published (CISA RSS) to initiate the use case
- CMDB: Determine whether have the vulnerable infrastructure in our environment(e.g. Cisco, Citrix, Ivanti) via CMDB
- **OSINT:** The Analyst wants to search across OSINT sources, tools, Social (Shodan, Pastebin, Telegram X, etc)
- Dark Web: The Analyst wants to search on cybercrime forums(company mentions, code, vuln)
- Analysis: The Analyst wants a detailed report on inventory, patch level and likelihood of breach
- Analysis: The analyst will ask the Al 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/infra or software in our clients enterprise environment and validate externally via OSINT data and Dark Web data.

Reduce Analysis and Remediation timeline from weeks to hours

## DEMO PLACEHOLDER- SHODAN-CISA-PASTEBIN







WatchDOG! SHODAN CISA

Increased productivity and efficiency are achieved with Al

## EVALUATE A USE CASE PRE AND POST AI

Pre Al 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 Al 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 Al

# AI CYBER WATCHDOG PROCESS

