# EMERGENCY COMMUNICATIONS COORDINATOR REPORT MAY 2024



# Joint Cybersecurity Advisory (CSA): Akira

- Released by FBI, CISA, Europol's European Cybercrime Centre (EC3), and the Netherlands' National Cyber Security Centre (NCSC-NL).
- Akira Ransomware has affected a wide range of businesses, critical infrastructure and government agencies.
- New CSA has information on tactics and mitigation steps:
  - Defense evasion.
  - Prioritize remediating known exploited vulnerabilities.
  - Enable multifactor authentication (MFA) for all services to the extent possible (webmail, VPN, and access critical systems).
  - Regularly patch and update software and applications to their latest version and conduct regular vulnerability assessments.



#### #StopRansomware: Akira Ransomware

#### SHMMAR

Note: This joint Cybersecurity Advisory (CSA) is part of an ongoing #StopRansomware effort to publish advisories for network defenders that detail various ransomware variants and ransomware threat actors. These #StopRansomware advisories include recently and historically observed tactics, techniques, and procedures (TTPs) and indicators of compromise (IOCs) to help organizations protect against ransomware. Visit stopransomware gov to see all #StopRansomware advisories and to learn more about other ransomware threats and no-cost resources.

The United States' Federal Bureau of Investigation (FBI), Cybersecurity and Infrastructure Security Agency

(CISA), Europol's European Cybercrime Centre (EC3), and the Netherlands' National Cyber Security Centre (NCSC-NL) are releasing this joint CSA to disseminate known Akira ransomware IOCs and TTPs identified through FBI investigations as recently as February 2024 and trusted third party reporting.

Since March 2023, Akira ransomware has impacted a wide range of businesses and critical infrastructure entities in North America, Europe, and Australia. In April 2023, following an initial focus on Windows systems, Akira threat actors deployed a Linux variant targeting VMware ESXi virtual machines. As of January 1, 2024, the ransomware group has impacted over 250 organizations and claimed approximately \$42 million USD in ransomware proceeds.

Early versions of the Akira ransomware variant were written in C++ and encrypted files with a \_akira extension; however, beginning in August 2023, some Akira attacks began deploying Megazord, using Rust-based code which encrypts files with a \_powernanges extension. Akira threat actors have continued to use both Megazord and Akira, including Akira\_v2 (identified by trusted third party investigations) interchangeably.

To report suppicious or criminal activity related to information found in this joint Cyberrsecurity Advisory, contact your local FBI field office or CIAS 2447 Operations Center at FBE-portificias gover, or (888) 282-0870. When available, please include the following information regarding the incident date, time, and location of the incident, type of authivity, number of people affected; type of equipment used for the activity, the name of the submitting company or organization; and a designated point of contact. This document is marked TLP-CLEAR. Recipients may share this information without restriction. Information is subject to standard normative trades or information on the Taffic Lidal Protocol, see cisa governs.

TLP:CLEA



Actions to take today to mitigate cyber

Prioritize remediating known exploited

Enable multifactor authentication (MFA)

Regularly patch and update software and applications to their latest version and

for all services to the extent possible,

particularly for webmail, VPN, and accounts that access critical systems

conduct regular vulnerability

threats from Akira ransomware:

# Joint CSA: North Korean Spearphising

- Released by FBI, State Dept., & National Security Agency (NSA).
- Exploiting improperly configured DNS Domain-based Message Authentication, Reporting and Conformance (DMARC) record policies to conceal social engineering attempts.
- Creating fake usernames and using legitimate domain names to impersonate individuals from trusted organizations.
- Red Flag Indicators include but are not limited to awkward English in emails, documents with macros, follow-up emails 2-3 days after initial contact, emails claiming to be from official sources but from unofficial email services.







### North Korean Actors Exploit Weak DMARC Security Policies to Mask Spearphishing Efforts

#### SUMMARY

The Federal Bureau of Investigation (FBI), the U.S. Department of State, and the National Security Agency (NSA) are jointly issuing this advisory to highlight attempts by Democratic People's Republic of Korea (DPRK, a.k.a. North Korea) Kimsuky cyber actors to exploit improperly configured DNS Domain-based Message Authentication Reporting and Conformance (DMARC) record policies to conceal social engineering attempts. Without properly

Actions to take today to mitigate malicious activity:

Update your or your organization's DMARC security policy to one of the two configurations found below

configured DMARC policies, malicious cyber actors are able to send spoofed emails as if they came from a legitimate domain's email exchange. The North Korean cyber actors have conducted campaigns to collect intelligence on geopolitical events, adversary foreign policy strategies, and any information affecting North Korean interests by gaining illicit access to targets' private documents. research, and communications. This Joint Cybersecurity Advisory (CSA) includes indicators of North Korean social engineering (page 4) for potential victims receiving spearphishing emails as well as mitigation measures (page 9) for organizations who could be victims of North Korean impersonation. For additional information on state-sponsored North Korean malicious cyber activity, see the June

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## **Directory Traversal Vulnerability Alert**

- Released by CISA and the FBI.
- Directory traversal—or path traversal—vulnerabilities remain a persistent class of defect in software products.
- Directory traversal vulnerabilities involve a user manipulating inputs (i.e., input parameters or file paths) to illicitly access application files and directories that the developer did not intend for users to access.
- Secure by Design initiative to bring awareness to this vulnerability & remediation by manufacturers.
- https://www.cisa.gov/resources-tools/resources/secure-designalert-eliminating-directory-traversal-vulnerabilities-software



#### Malicious Cyber Actors Use Directory Traversal To Compromise Systems

industry has documented directory traversal vulnerabilities, along with effective approaches to eliminate these vulnerabilities at directory traversal exploitation. CISA and the FBI are releasing this

The software industry has known how to yet directory traversals remain a top exploited vulnerability with 55 currently listed in the Known Exploited Vulnerabilities (KEV)

Secure by Design Alert in response to recent well-publicized threat actor campaigns that exploited directory vulnerabilities in software (e.g., CVE-2024-1708, CVE-2024-20345) to compromise users of the software-impacting critical infrastructure sectors, including the Healthcare and Public Health Sector

Additionally, this Alert highlights the prevalence, and continued threat actor exploitation of, directory traversal defects Currently, CISA has listed 55 directory traversal vulnerabilities in our Known Exploited Vulnerabilities (KEV) catalog which have impacted the operation of critical services, including hospital and school operations. CISA and the FBI urge software manufacturer executives to require their organizations to conduct formal testing (see OWASP testing guidance) to determine their products' susceptibility to directory traversal vulnerabilities.

CISA and the FBI also recommend that software customers ask manufacturers whether they have conducted formal directory traversal testing. Should manufacturers discover their systems lack the appropriate mitigations, they should ensure their software developers immediately implement mitigations to eliminate this entire class of defect from all

#### Secure by Design Lessons to Learn

A core tenet of secure by design software development is that manufacturers create safe and secure behavior in the products they provide to customers. "Secure by Design" means that manufacturers design and build their products in a way that reasonably protects against malicious cyber actors successfully exploiting product defects. Incorporating this risk mitigation at the outset—beginning in the design phase and continuing through product release and updates—reduces both the burden of cybersecurity on customers and risk to the public. Vulnerabilities like directory traversal have been called 'unforgivable' since at least 2007. Despite this finding, directory traversal vulnerabilities (such as CWE-22 and CWE-23) are still prevalent classes of vulnerability. For example, CWE-22 is listed in the top 25 lists for both the "most dangerous" and "stubborn" software weaknesses in 2023.9 Note: CWE-22 is a parent of several child weaknesses tha

ps://owe.mitre.org/documents/unforgivable\_vulns/unforgivable.pdf. In 2007, MITRE deemed directory traversal as one of the nforgivable\* vulnerabilities (i.e., \*unforgivable\* that the developer allowed it to exist in their product) yet exploitation continues todi "Testing Directory Traversal File Include." OWASP Web Security Testing Guide (WSTG) GitHub. Last modified July 2023.

2023 CWE Top 25 Most Dangerous Software Weaknesses, Stubborn Weaknesses in the CWE Top 25." MITRE's CWE Top 25, 202



As of May 2024



## Regional News of Note

- CR911 Symposium May 14-15 in Kansas City, MO.
- FIFA World Cup Cities Meeting May 14-15 in Dallas,
   TX
- Communications Exercises:
  - Kansas COMMEX Wichita on June 11, 2024
  - Central States COMMEX Joplin (MO)/Quapaw (OK) from September 10-13, 2024
- Other SIGBs/SIECs & Councils
  - SIAC Meeting on May 9, 2024, in Salina, KS
- Interoperability Markers update meeting requests will go out for the July timeframe.







## For more information:

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