



NORTH KOREAN IT WORKER SCAM EXPOSES GLOBAL TECH FIRMS TO CYBER THREATS

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EXECUTIVE SUMMARY

Cybersecurity researchers at Insikt Group have uncovered a large-scale North Korean IT worker scam aimed at infiltrating global technology firms, stealing sensitive data, and funding Pyongyang's military programs. The PurpleBravo threat cluster (formerly TAG-120) has been actively securing remote jobs under false identities, violating international sanctions while introducing insider threats and malware into corporate environments.

This campaign has targeted multiple industries, including cryptocurrency, software development, and finance, using hiring platforms like GitHub, Telegram, and job listing sites to gain access to sensitive infrastructure. Fake IT companies operating as North Korean front organizations have also been identified, further enabling financial fraud and cyber espionage.

DETAILS OF THE INCIDENT

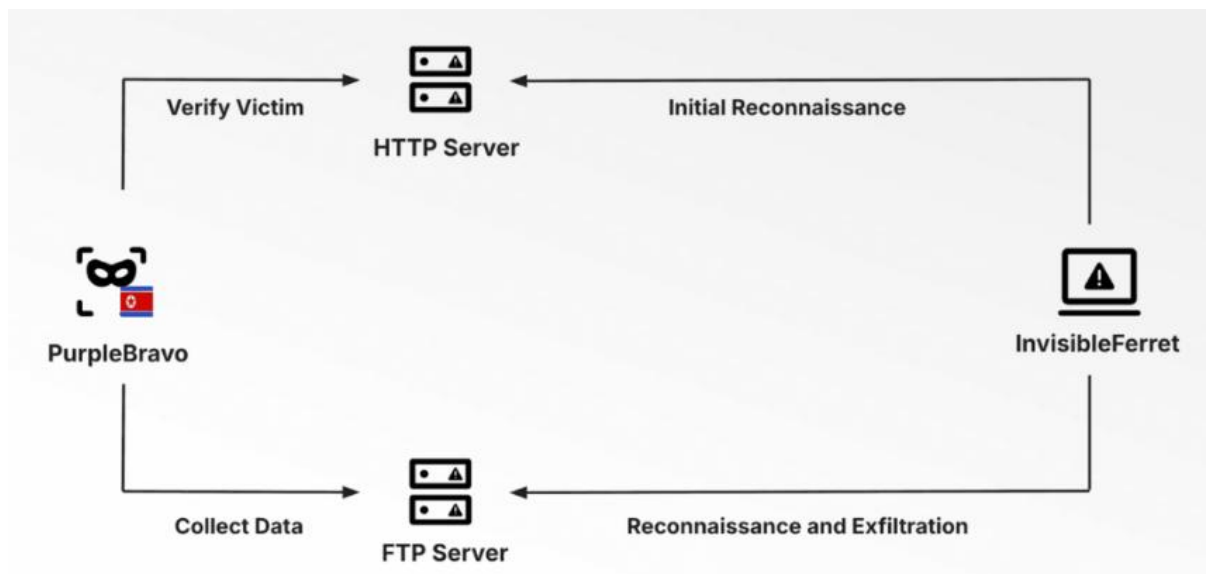


Figure 1: Infection chain (InvisibleFerret)

The PurpleBravo threat cluster (formerly TAG-120) operates as a North Korean-linked cyber entity, leveraging fraudulent hiring campaigns, VPN obfuscation, and fake IT firms to infiltrate global technology firms. The group exploits platforms like GitHub, Telegram, and job listing sites to secure remote positions under false identities, using forged resumes and front companies in China, India, Pakistan, and Ukraine to appear legitimate. Once inside, operatives act as insider threats, exfiltrating sensitive data and introducing malware into corporate environments.

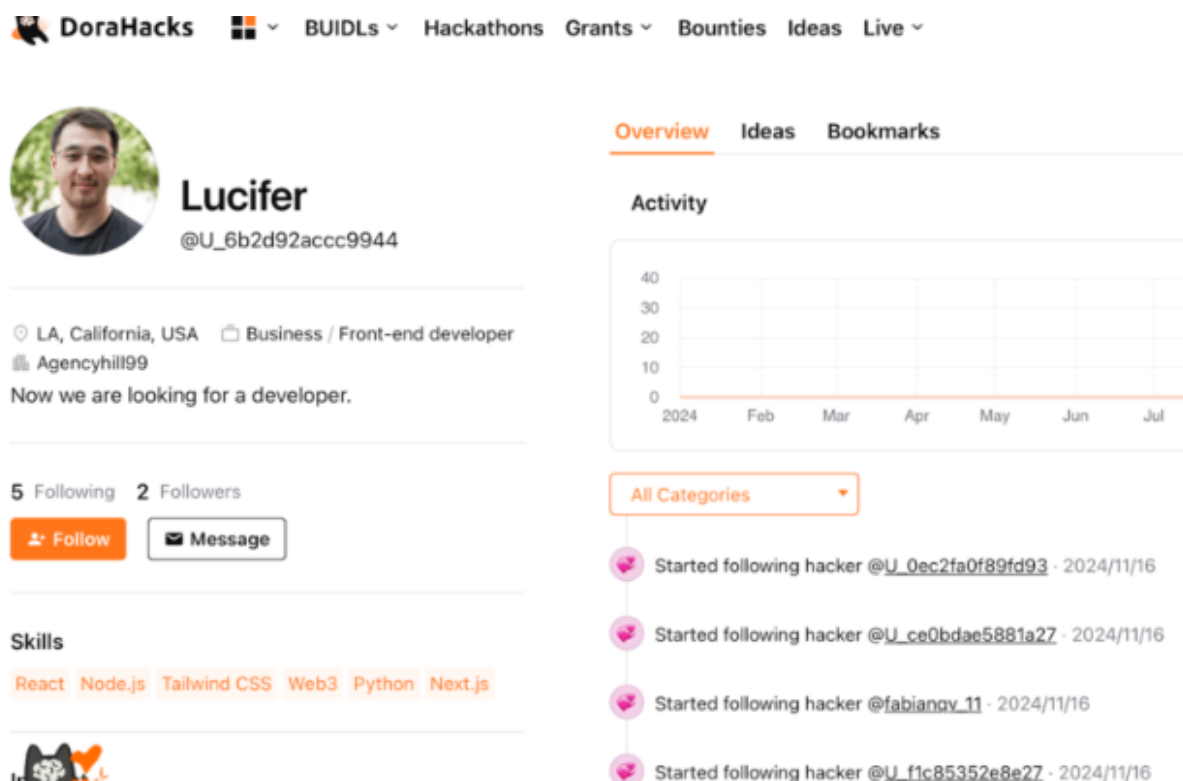


Figure 2: PurpleBravo operator's account on DoraHacks

The campaign has been linked to the deployment of custom malware, including BeaverTail, a JavaScript infostealer designed to steal credentials, InvisibleFerret, a Python-based backdoor for remote access, and OtterCookie, a stealthy malware that ensures long-term persistence. The use of Astrill VPN for command-and-control (C2) communication further complicates detection, allowing threat actors to spoof locations and evade security measures.

Additionally, Contagious Interview, a campaign tied to PurpleBravo, uses malware-laden coding tests to compromise software developers, particularly in cryptocurrency and blockchain firms. The sophisticated use of front companies to mimic legitimate IT businesses not only facilitates financial fraud but also enables deep infiltration into global supply chains, making this campaign a significant cyber and geopolitical threat.

The infiltration of North Korean IT operations into global tech firms poses significant security risks, including financial fraud, data breaches, and supply chain attacks. Organizations unknowingly hiring these IT workers may violate international sanctions, leading to legal and financial consequences.

- **Espionage & Insider Threats:** Unauthorized access to corporate networks allows North Korean state-sponsored groups to exfiltrate classified and financial data.

- Sanctions Violation Risks: Companies hiring North Korean workers may face penalties for aiding a sanctioned regime.
- Supply Chain Compromise: Fake IT firms provide a gateway for North Korea to infiltrate global tech infrastructure.

RECOMMENDED ACTIONS

- Use enhanced background checks to detect fake identities, VPN usage, and fraudulent credentials.
- Implement zero-trust security measures and track anomalous access behaviors from remote employees.
- Avoid hiring from unverified job platforms, especially in high-risk sectors like crypto and finance.
- Restrict access to identified C2 domains and malware signatures used by PurpleBravo.
- Educate HR teams on the risks of hiring North Korean IT workers posing as freelancers.
- Use behavioral analytics to detect unauthorized access, data exfiltration, and privilege escalation attempts.

ADDITIONAL RESOURCES AND OFFICIAL STATEMENTS

<https://securityonline.info/north-koreas-it-worker-scam-how-the-regime-infiltrates-global-tech-firms-for-cyber-espionage/>

<https://www.recordedfuture.com/research/inside-the-scam-north-koreas-it-worker-threat>

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