

Fact Sheet: TrickBot Malware



SUMMARY

TrickBot malware—first identified in 2016—is a Trojan developed and operated by a sophisticated group of cybercrime actors. The cybercrime group initially designed TrickBot as a banking trojan to steal financial data. Through continued development and new functionality, TrickBot has become a highly modular, multi-stage malware that provides its operators a full suite of tools to conduct a myriad of illegal cyber activities. Since TrickBot's inception, the cybercrime group has used the malware to attack individuals and businesses globally across a wide range of sectors.

KEY TAKEAWAYS

TrickBot Operators

- Are a sophisticated cybercrime group known by several aliases in open-source reporting, including
 - Wizard Spider (CrowdStrike),1
 - o UNC1878 (FireEye), and
 - Gold Blackburn (Secureworks).²
 - Employ malware from other 'trusted' cybercrime actors, including Emotet³ and Bokbot.^{4, 5}
- Enable high impact "big game hunting" ransomware attacks.
- Have a toolset capable of using the entire cyber kill chain, from delivery to post-exploitation.⁶

Initial Access

- The TrickBot operators typically achieve initial access through the following infection vectors: spearphishing, spam campaigns, malvertising, and network vulnerabilities (e.g., Server Message Block).
 - Spearphishing campaigns use tailored emails that contain malicious links or documents that contain macros, which—if enabled—execute malware.

Execution

- The TrickBot operators may
 - Execute TrickBot as either a first- or second-stage payload;
 - Deploy additional malware (e.g., Ryuk⁷ and Conti ransomware, Emotet downloader); and
 - Load TrickBot into networks using other malware to achieve additional objectives.

Capabilities

- TrickBot may be used
 - To exfiltrate data (e.g., email, credentials, point-of-sale info);
 - For cryptomining; and
 - For host enumeration (e.g., reconnaissance of Unified Extensible Firmware Interface or Basic Input/Output System [UEFI/BIOS] firmware).⁸
 - For host enumeration, the operators deliver TrickBot in modules containing a configuration file with specific tasks.

¹ <u>https://www.crowdstrike.com/blog/big-game-hunting-with-ryuk-another-lucrative-targeted-ransomware/</u>

² https://www.secureworks.com/research/threat-profiles/gold-blackburn

³ <u>https://www.crowdstrike.com/blog/big-game-hunting-with-ryuk-another-lucrative-targeted-ransomware/</u>

⁴ <u>https://www.crowdstrike.com/blog/wizard-spider-lunar-spider-shared-proxy-module/</u>

⁵ https://www.crowdstrike.com/blog/sin-ful-spiders-wizard-spider-and-lunar-spider-sharing-the-same-web/

⁶ <u>https://www.crowdstrike.com/blog/wizard-spider-adversary-update/</u>

⁷ https://www.fireeye.com/blog/threat-research/2019/01/a-nasty-trick-from-credential-theft-malware-to-business-disruption.html

⁸ https://eclypsium.com/2020/12/03/trickbot-now-offers-trickboot-persist-brick-profit/#background

ADDITIONAL REFERENCES

CISA Alert AA21-076A: TrickBot Malware (to be published March 17, 2021) Multi-State Information Sharing and Analysis Center (MS-ISAC) Security Primer - TrickBot CISA Alert AA20-302A: Ransomware Activity Targeting the Healthcare and Public Health Sector CISA and MS-ISAC's Joint Ransomware Guide **CISA Tip: Avoiding Social Engineering and Phishing Attacks** Federal Bureau of Investigation Public Service Announcement: High-Impact Ransomware Attacks Threaten U.S. **Businesses And Organizations** FireEye Blog: A Nasty Trick: From Credential Theft Malware to Business Disruption FireEve Blog: It's Your Money and They Want It Now - The Cycle of Adversary Pursuit Malwarebytes Blog: Trojan.TrickBot Microsoft Security Blog: TrickBot Disrupted MITRE ATT&CK: Wizard Spider National Institute of Standards and Technology Special Publication 1800-26 – Data Integrity National Cyber Security Centre (United Kingdom) Advisory: TrickBot Palo Alto – Unit 42: TrickBot Campaign SANS Threat Analysis Rundown Recap: The Return of UNC1878

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