

TBK DVR Authentication Bypass Attack DVR camera system vulnerability actively exploited in the wild

https://tbkvision.com/

CVEs: CVE-2018-9995

Background

FortiGuard Labs observed "Critical" level of attack attempts to exploit an Authentication Bypass Vulnerability in TBK DVR devices (4104/4216) with upto more than 50,000+ unique IPS detections in the month of April 2023. The 5-year-old vulnerability (CVE-2018-9995) is due to an error when handling a maliciously crafted HTTP cookie. A remote attacker may be able to exploit this flaw to bypass authentication and obtain administrative privileges eventually leading access to camera video feeds.

HVR Login, and MDVR. Another notable spike to mention is IPS detections related to MVPower CCTV DVR models (CVE-2016-20016) also known as JAWS webserver RCE. Previously seen to be exploited in the wild through 2017 and on-going. See

> additional resources for more information. FortiGuard Labs is not aware of any patches provided by the vendor and recommends organizations to review installed

TBK Vision is a video surveillance company which provides network CCTV devices and other related equipment such as DVRs for the protection of critical infrastructure facilities. According to the vendor website, they have over 600,000 Cameras and 50,000 Recorders installed all over the world in multiple sectors such as Banking, Retail, Government etc. According to the NIST NVD database, TBK DVR4104 and DVR4216 devices are also rebranded

and sold as other brands such as Novo, CeNova, QSee, Pulnix, XVR 5 in 1, Securus, Night OWL, DVR Login,

highlight HiatusRAT scanning campaigns against Chinese-branded web cameras and DVRs. HiatusRAT is a Remote Access Trojan (RAT), amd according to the report, HiatusRAT actors conducted a scanning campaign targeting Internet of Things (IoT) devices in the US, Australia, Canada, New Zealand, and the United

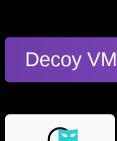
https://www.ic3.gov/CSA/2024/241216.pdf May 01, 2023: With tens of thousands of TBK DVRs available under different brands, publicly-available PoC code, and an easy-to-exploit makes this vulnerability an easy target for attackers. The recent spike in IPS detections shows that network camera devices remain a popular target for attackers.

- TBK DVR devices. (CVE-2018-9995)



Lure

Countermeasures across the security fabric for protecting assets, data and network from cybersecurity



FortiDeceptor

v3.3+

Detects known malware related to the Outbreak

AV

DB 315 DB 315

FortiCASB



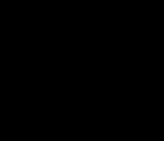


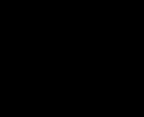


FortiNDR

DB 13.370

FortiCWP

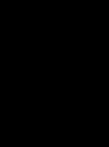




FortiClient

DB 315

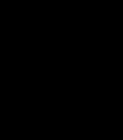
DB 13.370



FortiGate

DB 315

DB 13.370



FortiMail

DB 315



FortiProxy

DB 315



DB 13.370

IPS



FortiAnalyzer FortiSOCaaS FortiSIEM FortiSOAR

Outbreak Detection

IOC



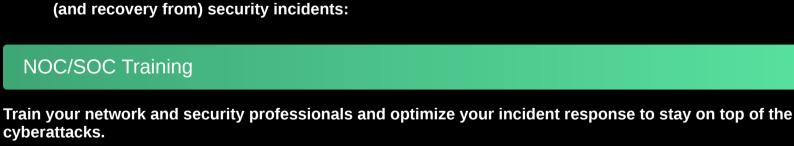




Develop containment techniques to mitigate impacts of security events:

Experts to assist you with analysis, containment and response activities.

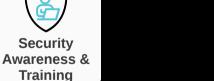
FortiRecon:



Incident

Response





InfoSec Services

IDENTIFY

Security readiness and awareness training for SOC teams, InfoSec and general employees.

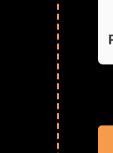
Security Rating

> Security Rating

CVE-2016-20016 https://www.fortiguard.com/encyclopedia/ips/43737 CVE-2018-9995 https://github.com/ezelf/CVE-2018-9995_dvr_credentials

Learn more about FortiGuard Outbreak Alerts

FortiGuard Threat Signal



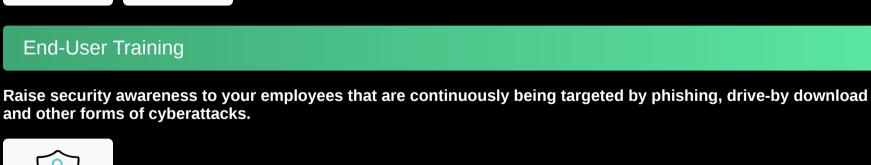


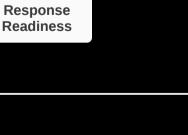
Threat Hunting



FortiXDR Assisted Response Services







Attack Surface Hardening

Security reconnaissance and penetration testing services, covering both internal & external attack vectors, including those introduced internally via software supply chain.

https://www.fortiguard.com/threat-signal-report/5152

https://www.fortiguard.com/outbreak-alert/hikvision-command-injection

FERTINET.



Latest Developments models of CCTV camera systems and related equipment for vulnerable models. December 16, 2024: Federal Bureau of Investigation (FBI) released this Private Industry Notification (PIN) to Kingdom.

May 10, 2018: Fortinet customers remain protected by the IPS signature to block attack attempts related to vulnerable

PROTECT

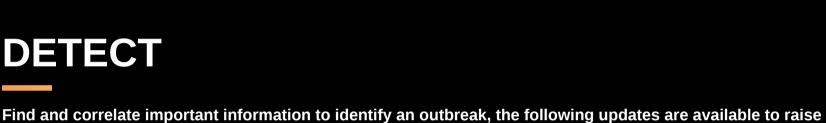
v3.3+

FortiDeceptor

FortiADC

FortiSASE DB 315 DB 315

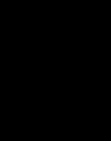
FortiADC FortiGate



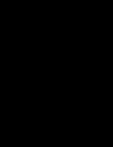
alert and generate reports:

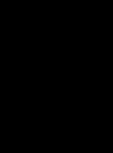
DB 13.370

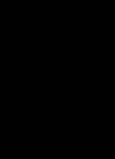


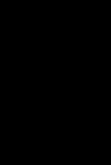
















RECOVER

NOC/SOC Training

Improve security posture and processes by implementing security awareness and training, in preparation for



