

Overview

With the deployment of application-aware systems, such as application firewalls, SD-WAN, SASE, and DPI engines, the network is becoming more distributed and intelligent at the application level.

With this awareness, the network elements' ability to implement intelligent traffic management, security, and Quality-of-Service (QoS) policies, that are tied to specific application and user characteristics, needs to be thoroughly validated. CyberFlood provides this validation support, along with the ability to leverage MITRE ATT&CK™ framework. This allows users to model security validation using industry attack techniques and groups to better manage and fix vulnerabilities.

Scenario Name	CVE ID	Severity	Release Date	Last Updated
Artica Proxy squid conf... An authentication bypass vulnerability has been	CVE-2024-2056	Critical	2024-05-01	2024-05-01
PaperCut NG and MF M... A reflected cross-site scripting vulnerability have	CVE-2024-1883	Medium	2024-05-01	2024-05-01
Squid Proxy HTTP X-For... A denial-of-service vulnerability has been	CVE-2023-50269	High	2024-04-30	2024-04-30
LG LED Assistant API cha... An unverified password reset vulnerability has been	CVE-2024-2862	High	2024-04-29	2024-04-29
JetBrains TeamCity JspPr... An authentication bypass vulnerability exists in	CVE-2024-23917	Critical	2024-04-26	2024-04-26
XWiki.org XWiki Solr Spa... A code injection vulnerability has been	CVE-2024-31984	High	2024-04-26	2024-04-26

Easily add attack scenarios to tests

Flexibility

CyberFlood Security Testing is available as an option on all CyberFlood platforms: Appliances, Virtual and Cloud solutions.

Using tens of thousands of ready-to-run performance and security tests for a wide range of popular applications, including peer-to-peer (P2P), Business, Instant messaging (IM), Social Media, and thousands of known security attack templates, users can test:

- Policy Enforcement for QoS Application-aware systems, such as DPI engines, application firewalls, and mobile packet gateways.
- The effectiveness of DPI, IPS/IDS, ALG, SASE, and SD-WAN systems, evaluating their performance under real-world conditions, as well as the potential impact of security attacks on performance.
- Comprehensive multi-zone test cases to run applications, attacks and malware through multiple devices and security controls in the same test.
- DDoS mitigation services and policies with volumetric and protocol DDoS emulation.
- Advanced NGFW and SD-WAN security inspection capabilities with full support of application, attack and malware scenario encryption.
- Security controls via SNI policy detection scenarios.
- Devices with mixed legitimate load and attack traffic to further challenge and assess security controls under real-world conditions.
- Data loss prevention (DLP) policies, using CyberFlood files created on-the-fly or custom file sets, to quickly assess that those policies are working to your specifications.
- Security controls with encrypted content, including applications, attacks and malware, to validate the security controls' ability to manage encrypted legitimate and malicious content. Upload your own certificates for specific and comprehensive test configurations.

Benefits

Accuracy: Test with real user-generated traffic, as seen on your network, with detailed metadata that describes the user operation contained in each test for quick identification and resolution of issues prior to deployment.

Actionable Results: Quickly determine security controls’ catch rate of tested attacks with the ability to see the exact point of detection in the attack/malware flow, precisely showcasing security effectiveness.

Live Content: Access content that is constantly updated with new application, attack, and malware scenarios to keep up with your dynamic environment and testing needs.

Flexible: Configure comprehensive application flows and define SNI header information that can be used to validate security controls for inspecting and identifying encrypted traffic.

NetSecOPEN: Test with built-in industry standard methodologies. NetSecOPEN is a network security industry forum of network security vendors, tool vendors, labs and enterprises, collaborating to create open and transparent testing standards for today’s modern content-aware network solutions. CyberFlood Supports over 50 built-in NetSecOPEN methodologies.

MITRE ATT&CK™: Easily create and execute tests from the built-in MITRE ATT&CK framework. Quickly select from attack groups and techniques to validate specific vulnerability types. Use comprehensive MITRE ATT&CK reporting to quickly evaluate your security landscape.

Hacker Behavior: Easily add evasion techniques to further challenge security controls, with virtually unlimited traffic flow variants from a wide range of available evasion techniques.



MITRE ATT&CK Group Selection

CyberFlood Security Testing

Key Features

Real-world traffic: When the application content is replayed, it replicates (with precision) real user-generated traffic as seen on the network. Detailed metadata is provided per application test that describes the user operation contained in that test, such as login, chat, search, shared files, etc. These tests are created by recreating the interactions of real users on real devices as they use the relevant application.

For maximum flexibility, TestCloud is licensed separately for Application, Attack and Malware scenarios – choose the best solution for your testing needs.

Up to date: TestCloud is constantly updated to support the most popular applications in use and latest attack/malware scenarios. Customer requests, as well as end-user trends, determine the list of new applications that are added to TestCloud by VIAVI. In addition, our attack library is frequently updated with fresh content, including zero-day attacks.

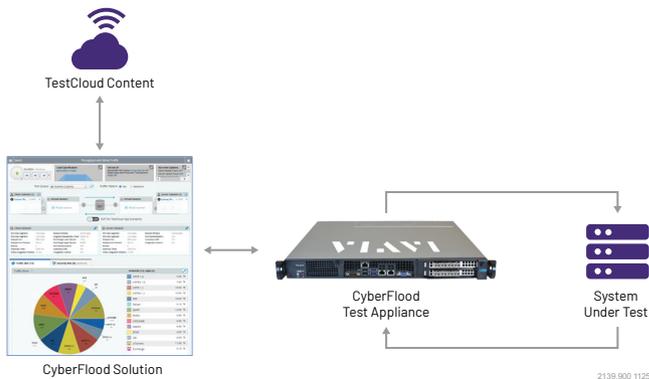
Vast database: Users access the largest repository of application tests and known security attacks in the industry, including multiple versions of applications, such as Facebook, and multiple platforms, including iOS, Android, and Windows.

Attack/Malware scenarios: Multiple vectors are available, including Trojans, SQL injection, XSS, Worms, Virus, Spyware, Rootkit, File Infector, Ransomware, Bots, Backdoors, Key Loggers.

DDoS: Assess with a database of emulated volumetric and protocol DDoS with and without user traffic load to verify network device policy enforcement and mitigation capabilities. Support for adding HTTP GET, HTTP POST and DNS Query flooding attacks are available for comprehensive tests made in the Advanced Mixed Traffic test.

Pre-defined mixes: Pre-configured sets of related applications and attacks are provided. VIAVI TestCloud provides tens of thousands of ready-to-run performance and security tests for a wide range of popular applications, including peer-to-peer (P2P), Business, Instant messaging (IM), and Social Media. Examples of apps include ChatGPT, Facebook, Minecraft, WhatsApp, Microsoft 365, Instagram and more.

SmartApps: The SmartApps editor allows users to edit real-world application scenarios and customize according to specific requirements, while taking advantage of VIAVI's performance-oriented load engine to emulate real-world application traffic.



TestCloud content is up to date and ready to use

Ordering Information

Description	Part Number
CyberFlood Malware Content - Yearly subscription	CF-C-ADVMALWARE-SUB
CyberFlood Attacks Content - Yearly subscription	CF-C-ATTACKS-SUB
CyberFlood TestCloud Apps Content - Yearly subscription	CF-C-TESTCLOUD-SUB
CyberFlood Protocol DDoS Option	CF-SW-PDDOS
CyberFlood Volumetric DDoS Option	CF-SW-DDOS
CyberFlood CyberThreat Assessment Option	CF-SW-CYBER

Note: Enabling DDoS support for Advanced Mixed Traffic tests requires either the CyberFlood Protocol DDoS or the Volumetric DDoS license, which are sold separately.

Other CyberFlood options are available for specific hardware, virtual and cloud platforms. Please contact VIAVI Sales for more information.



Contact Us: +1 844 GO VIAVI | (+1 844 468 4284). To reach the VIAVI office nearest you, visit viavisolutions.com/contact

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cyberflood-security-ds-hse-nse-ae
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