Spirent CyberFlood

Test the security, performance and scalability
of your app-aware infrastructure

Spirent

The Security and Application Challenge

The deployment of security application-infrastructure brings with it innovative capabilities for managing traffic, security and Quality-of-Service (QoS) policies. However, to accurately test application-aware infrastructures, it is critical to generate realistic packet payload that emulates actual application traffic on your network.

With many thousands of applications on the network and hundreds of new ones being released every day on millions of devices, QA, engineering and IT teams are struggling to quickly and effectively test, validate and roll-out their app-aware systems and networks.

The Solution: CyberFlood

CyberFlood is a powerful, easy-to-use test solution that generates realistic application traffic and attacks to test the performance, scalability and security of today's application-aware network infrastructures.

Unlike other test solutions that use "fake" traffic with the same packet payload over and over again, CyberFlood provides 1G to >100 Gbps on a variety of platforms for stateful traffic testing with authentic, customizable payloads for realistic security, load, and functional testing.

In addition, CyberFlood keeps up to date with the latest Malware, DDoS and exploits to test the effectiveness of security operations.

Test and Enforce Application Policies
Verify the accuracy of application detection engines and policies by testing with thousands of popular application profiles.

Evaluate the impact of security policies on application performance with intermixed signature and DDoS attacks.

Recreate production-level mixes of application traffic and test the effectiveness of application QoS policies.

Benchmark Performance and Capacity
Benchmark scalability and network capacity by simulating thousands (or hundreds of thousands) of real users on the network.

Run "what-if" scenarios and measure the performance impact of architecture or configuration changes.

Validate proof-of-concept designs by testing with realistic mixes of application traffic.

Validate Network Security
Validate IPSec VPN capacities including tunnel setup, maximum tunnels and data rates over encrypted tunnel for remote access, and site to site use cases.

Verify the ability of security solutions to detect and mitigate thousands of known and zero day attacks. Further challenge security solutions with encrypted attacks and easily add evasion techniques to create thousands of attack variations.

With CyberFlood fuzzing test the resiliency of network devices and deployed protocols by verifying the ability to deal with millions of unexpected and malicious inputs.
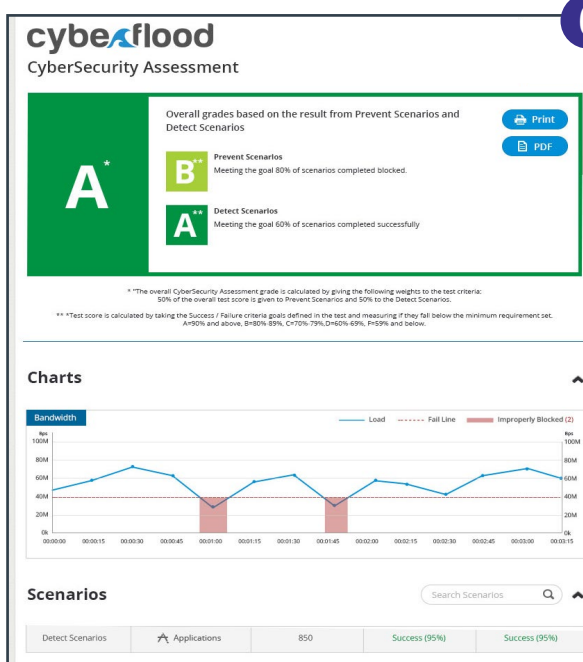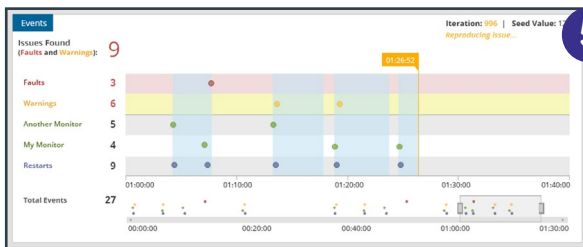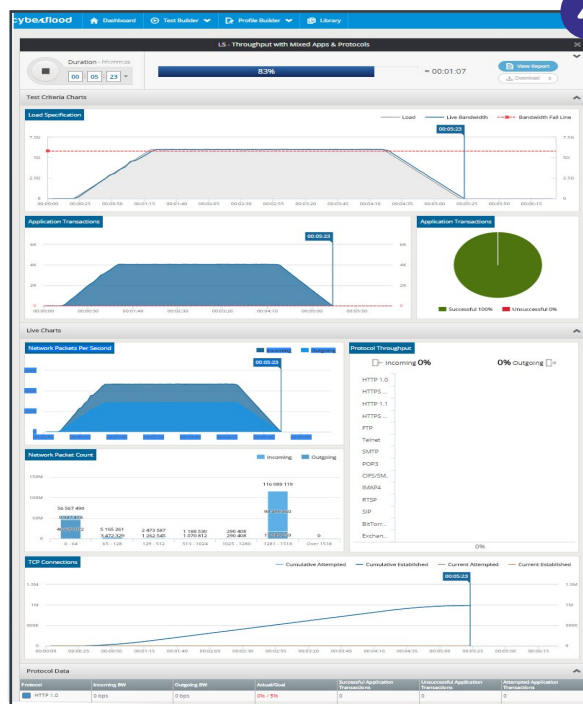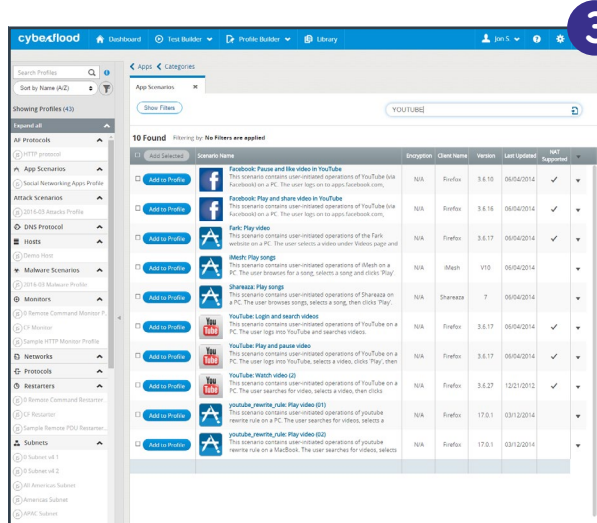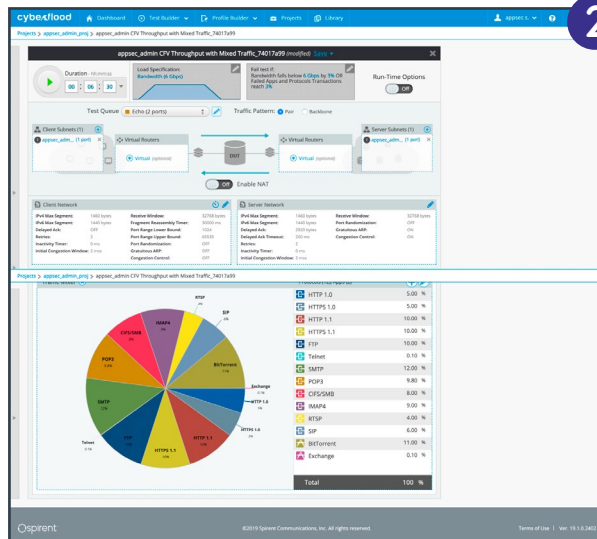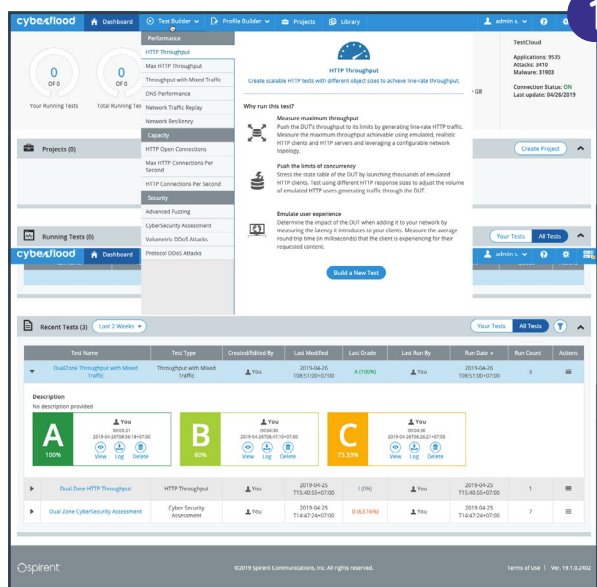
Test device capabilities to inspect traffic for malware, infected hosts, unwanted URLs and spam and take appropriate action.

NetSecOPEN tests Built-in
NetSecOPEN is a network security industry group where network security vendors, tool vendors, labs and enterprises collaborate to create open and transparent testing standards.

Test Next-Generation Security and Content-Aware Solutions

Application Servers | Cloud and Virtual Network Testing
Multi Play Services | Network Attack Response | Network Devices
Network Security | Web Applications | Next-Generation Firewalls

1 Get started quickly by choosing a pre-built test template

2 Drag and drop traffic profiles into the player to easily customize tests

3 Thousands of the latest apps and attacks are at your finger tips via the continually updated Spirent TestCloud

4 Results are delivered in real-time in a customizable reporting interface

5 Plus, test for Zero Day attacks with built in fuzzing capabilities

6 At-a-glance test grade reports showcase levels of Pass/Fail criteria for each new test run

SPIRENT CYBERFLOOD

CyberFlood Available on Multiple Platforms

C1 Appliance
Portable bench level testing (10G/1G)

CF20 Appliance
Self-contained 1/10/40/100G testing

C100-S3 Appliance
High end performance and capacity for a wide range of applications

C200 Appliance
For carrier class assessments and unparalleled cryptographic capacities

CyberFlood Virtual
Software based application and security testing framework for virtual and cloud environments including: ESXi, AWS, Azure and Google Cloud

Security

Find and fix vulnerabilities quickly
Cyberflood includes thousands of attacks, malware and DDoS vectors, so you can test any mix of attacks and applications to ensure network security.

- Continually updated database of tens of thousands of attacks and malware samples
- Test any mix of attacks and applications
- Shorten resolution time with smart remediation tools
- Virtually unlimited test cases with Advanced Fuzzing
- Validate IPSec VPN capabilities, performance and capacities

Realism

Test your network,

your traffic, your reality
CyberFlood includes the Spirent TestCloud™ for access to thousands of applications so you can generate traffic with authentic payloads for realistic security, load and functional testing.

- Create tests with the latest apps from the Spirent TestCloud
- Capture and replay your network application traffic
- Create custom tests for unique apps and protocols
- Test advanced HTTPS and TLS traffic at load with high-strength ciphers and certificates
- Add hacker behavior to assessments with encrypted malware and attacks, and the use of evasions techniques to further stress security policies

Performance*

Extreme scale performance
CyberFlood is the world's highest performing connection rate tester for HTTP, with more than 2x the current industry standard, giving you the power to push devices and networks to their limits.

- Stateful traffic generation from 1G to >100 Gbps rates
- >8.5M HTTP connections/second — the highest in the industry
- Realistic application packet payloads
- Over 170 million sustained connections per appliance

* Performance only reflects C100-S3 capabilities, other platform options are available

Agility

Test now, not months from now
The intuitive web-based CyberFlood UI makes it easy to design tests no matter what your experience level, so you can accelerate testing and complete projects more efficiently.

- Get started quickly with easy-to-use test methodologies
- Customize tests easily with the intuitive, browser-based UI
- Cloud-based content delivery
- Made for teams: share projects, tests, and results
- Cyber Range capabilities

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