

Uncover threats before they cause damage by identifying adversarial network anomalies



- » Security personnel are overwhelmed by alerts, while advanced persistent threats (APTs) work low and slow to hide within everyday network noise
- » Network behavioral analytics uses advanced machine learning to provide early warning via robust APIs and investigative dashboards
- » Early visibility into attacks accelerates detection of APTs, insider threats, newly connected devices, and other adversarial anomalies before they cause damage

To stop advanced persistent threats (APTs) and other malicious events effectively, security analysts must uncover high risk activities during the reconnaissance phase of an attack. Organizations need a new security solution that utilizes advanced inspection, modeling, and analytics, and is cost effective and easy to implement. The Webroot FlowScope solution is a next-generation, virtualized security solution that uses sophisticated machine learning to provide continuous visibility into anomalous behavior within networks. It continually learns network and system behavior and then alerts security analysts to anomalous high-risk activity in real time, without creating unnecessary alerts. Through a multi-model approach that leverages unsupervised machine learning, protocol anomaly detection, and device, DNS, client-server, and client-port analytics, the FlowScope solution builds a history of all IPxIPxPort communication by listening to packet metadata to isolate anomalous breach activity.

As a software-only solution, the passive FlowScape sensors efficiently monitor communications without the need to buy or maintain expensive hardware. The system uses a unique streaming flow technology to find anomalies in milliseconds with minimal infrastructure cost and CAPEX footprint, and uses network packet metadata, not deep packet inspection, to maintain privacy compliance and optimum network speeds.

With the ability to monitor, track, and classify risks within networks, security analysts can identify and address APTs and other attacks, such as insider threats and employee policy violations, before they cause damage.

The FlowScape® solution continually machine learns network behavior to alert security analysts on anomalies in real time.

FlowScope Benefits

» Increased visibility

Gain early warning visibility across all connected assets in the core of your network, both virtual and physical, for adversarial anomalous behaviors early in the kill chain.

» Machine learning at scale

Unsupervised machine learning model works for all network deployments, from the smallest networks, to the largest smart cities.

» Easy integration and use

Installs in an hour and identifies high risk behaviors on day one, and integrates with SIEM without rule writing or added staffing requirements.

» No network impact

By not needing to analyze the payloads of the network traffic (i.e., Deep Packet Inspection), there is no impact on network speed, making the solution is massively scalable, secure and effective—even with encrypted traffic.

» Network anomalies with context

Multiple models identify behavioral anomalies, while Webroot BrightCloud® Threat Intelligence and the BrightCloud Threat Investigator add adversarial context.

In Action

» Early threat detection

Threats are often only detected after an attack. The FlowScope solution can alert security personnel to APTs, atypical BitTorrent traffic, port scanning, DDoS, ransomware, IPv4 and IPv6 high risk anomalies, and more before the damage is done.

» Bring your own device

BYOD introduces new risks to the organization, along with your external vendor or employee VPN and WiFi. When an infected device connects to the network, the FlowScope solution will automatically track its communication behavior and identify potential breach activity.

» Insider threats

The majority of data breaches begin with disgruntled or thoughtless employees with access to critical data. The FlowScope solution can detect employee policy violations and changes in high risk behavior using machine learning against the normal business process of your networks.

» Industrial Internet of Things (IoT)

The FlowScope solution continuously monitors all assets, devices, and protocols, including machine to machine (M2M) communication, as well as people and their devices. The software supports both IT networks and SCADA networks in a single security tool.

» Cloud infrastructure

As virtual networks and increasing amounts of data is moved to cloud services, the FlowScope solution enables businesses and SaaS providers to monitor their cloud-based infrastructure for anomalous behaviors.

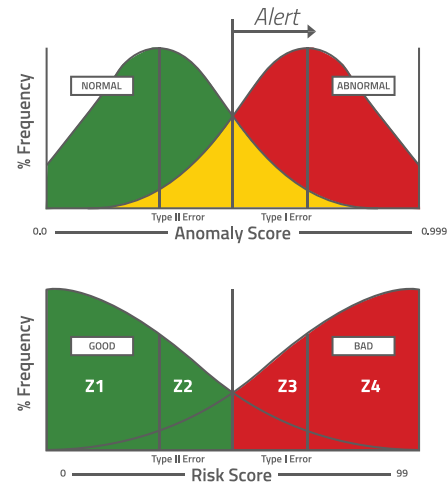


Figure 1: FlowScope technology provides continuous security threat assessment and risk analysis through advanced machine learning.

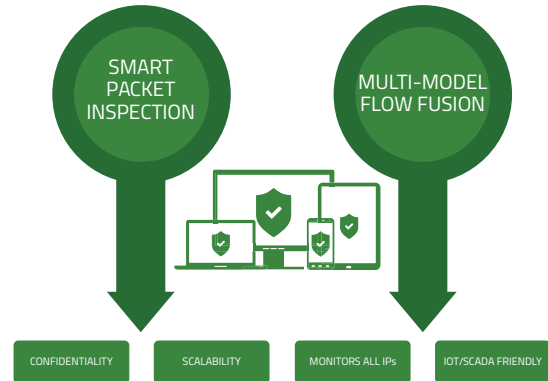


Figure 2: The solution analyzes data flows using advanced clustering analytics to establish baselines, without deep packet inspection (DPI).

About Webroot

Webroot delivers next-generation network and endpoint security and threat intelligence services to protect businesses and individuals around the globe. Our smarter approach harnesses the power of cloud-based collective threat intelligence derived from millions of real-world devices to stop threats in real time and help secure the connected world. Our award-winning SecureAnywhere® endpoint solutions, BrightCloud® Threat Intelligence Services, and FlowScope® solution protect millions of devices across businesses, home users, and the Internet of Things. Trusted and integrated by market-leading companies, including Cisco, Citrix, F5 Networks, Aruba, Palo Alto Networks, A10 Networks, and more, Webroot is headquartered in Colorado and operates globally across North America, Europe, and Asia. Discover Smarter Cybersecurity™ solutions at [webroot.com](https://www.webroot.com).

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