VAS Experts

VAS Experts is a software developer for the telecommunications industry, specializing in solutions for network traffic analysis and management.

Stingray AntiDDoS – a solution for protecting internet service providers from DDoS attacks & BotNet activity

The solution uses DPI, IPFIX Fullflow, QoE technologies, and machine learning algorithms to detect attacks, analyze network traffic, and automatically apply mitigation and protection mechanisms.

Solution Characteristics

< 1 minute Response time	**100+** Simultaneous attacks	**Up to 5 Tbps** Filtering capacity

Up to 600M packets/sec
Traffic processing performance

How It Works

1

Traffic Analysis

Stingray DPI transmits IPFIX Fullflow to the QoE module for detailed analysis

2

Threat Detection

QoE builds a baseline of healthy traffic and identifies deviations from the norm

3

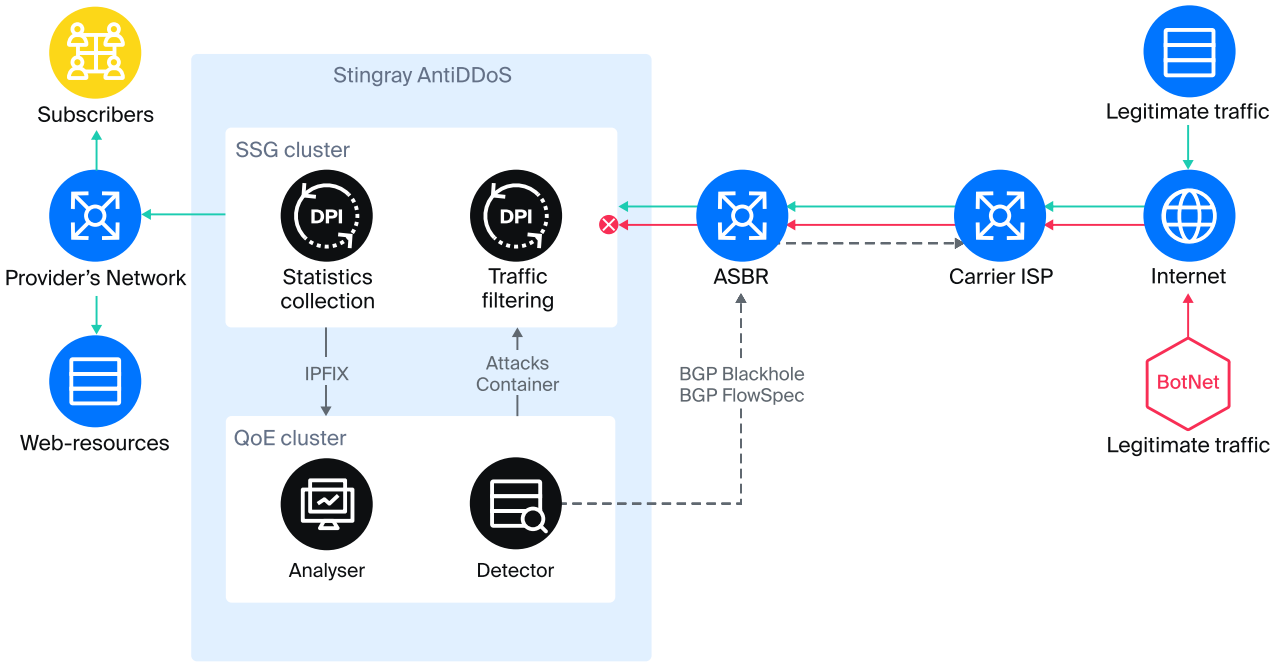
Identifying Attacking IPs

The detector classifies threats & identifies attacker IP addresses using machine learning algorithms

4

Filtering and Blocking

Stingray DPI either completely drops malicious packets or applies precise rate limiting to the traffic



Protection Against Common Attack Types

Flood, SYN Flood

Traffic is redirected to Stingray for filtering or blackholing the attacked addresses

Amplification attacks (DNS, NTP, UDP Flood и др.)

Blackholing the attacked addresses or applying FlowSpec on the uplink channel

BotNet attacks

Blackholing the attacked addresses, FlowSpec on the uplink channel, creating a list of BotNet network addresses and blocking them on Stingray

Compromise of operator network elements

Compromise risk is identified by scanning of the operator's address space. Such sessions are detected and blocked by their external address

A Tool for Neutralizing DDoS & BotNet Risks for Operators

- ⚠ Overload of the uplink channel
- ⚠ Inability to provide services
- ⚠ Subscriber complaints and customer churn
- ⚠ Financial and reputational losses
- ⚠ Increased load on equipment
- ⚠ IP addresses being added to blacklists

Advantages of Stingray AntiDDoS

Distributed architecture

Ensures high availability
and fault tolerance

Flexible configuration

Supports various blocking and
protection scenarios

Neural network algorithms and DPI

Provide deep traffic analytics

Adaptive protection

Automatic rule updates and response
to changes in network activity

Attack analytics

The QoE module provides statistics:

- By source and destination IP addresses
- Attacker geolocation
- Number of sessions
- By protocol

Request a personal demo and start your free trial of VAS Experts products

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