### Carrier-grade DDoS detection and mitigation system



# Andrisoft WANGUARD On-premise anti-DDoS solution



#### **OVERVIEW**

Unforeseen traffic patterns affect user satisfaction, pressure over-subscription plans, and clog costly transit links. Providing a high performance level and reliable network services is central to the success of today's organizations. As the business cost of network malfunctions continues to increase, rapid identification and mitigation of threats to network performance and reliability becomes critical in order to meet expected SLAs and network availability requirements. Such threats can include Distributed denial-of-service attacks (spoofed SYN floods, NTP amplification attacks, generic UDP floods etc.), propagating worms, botnet attacks, misuse of services, and interference of best-effort traffic with critical traffic. WANGUARD's network-wide surveillance of complex, multilayer, switched and routed environments, together with its unique combination of features, is specifically designed to meet the challenge of pin-pointing and resolving any such threats.



Central Console for Network and Threat Management

### **KEY FEATURES** • **FULL NETWORK VISIBILITY** – Supports the latest IP traffic monitoring technologies: packet sniffing at 10 Gbps; NetFlow v5, v7 and v9; sFlow, IPFIX, NetStream, jFlow, cflowd.

- **DDOS DETECTION** A fast traffic anomaly detection engine detects volumetric attacks by profiling the online behavior of users and by comparing over 120 live traffic parameters against user-defined thresholds.
- **DDOS MITIGATION** Protects networks and services by detecting and cleaning malicious traffic on packetscrubbing servers deployed in-line or out-of-line, or by using BGP black hole routing.
- **POWERFUL REACTION TOOLS** Automate responses to threats using predefined or custom actions: send notification emails, announce prefixes in BGP, generate SNMP traps, modify ACLs, execute your own scripts with access to over 70 operational parameters through an easy-to-use API, etc.
- **DETAILED FORENSICS** Samples of packets and flows for each attack are captured for forensic investigation. Detailed attack reports can be emailed to you, to affected customers or to attacker's ISP.
- ADVANCED WEB CONSOLE Consolidated management and reporting through a single, interactive and configurable HTML5 web portal with customizable dashboards, user roles, remote authentication, etc.
- **PACKET SNIFFER** Includes a distributed packet sniffer that can save packet dumps from different parts of the network. View packet details in a Wireshark-like web interface.
- FLOW COLLECTOR Provides a fully featured NetFlow, sFlow, IPFIX Analyzer and Collector that saves flows in a compressed format for long term storage. Flows can easily be searched, filtered, sorted and exported.
- **COMPLEX ANALYTICS** Generates the most complex reports with aggregated data for hosts, departments, interfaces, applications, ports, protocols, countries, autonomous systems, and more.
- **REAL-TIME REPORTING** Bandwidth graphs are animated and have a short-term accuracy of just 5 seconds.
- **HISTORICAL REPORTING** You can view reports from the last 5 seconds to the last 10 years by selecting any custom time period. Bandwidth histograms contain 95th-percentile values for burstable billing.
- SCHEDULED REPORTING Any report can be generated automatically and emailed to interested parties at
  preconfigured intervals of time.
- FAST & SCALABLE The software was designed to run on commodity hardware. Its components can be distributed on clustered servers.
- THE LOWEST T.C.O. The most affordable on-premise DDoS protection solution on the market!



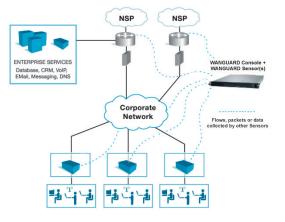
## WANGUARD Sensor

#### OVERVIEW

The Sensor provided by WANGUARD does IP traffic monitoring by processing packets or flows, detects DoS, DDoS and other volumetric attacks, collects in-depth traffic analysis and accounting data.

The collected information enables you to generate complex IP traffic reports, graphs and tops; instantly pin down the cause of network incidents; understand patterns in application performance and make the right capacity-planning decisions.

At its core, the Sensor contains a highly scalable traffic correlation engine capable of continuously monitoring hundreds of thousands of IP addresses. Complex statistical algorithms integrate traffic data to build an accurate and detailed picture of real-time and historical traffic flows across the network.



- The Sensor contains a completely scalable IP traffic analysis engine able to monitor tens of thousands of IPv4 and IPv6 addresses and IP blocks in real time
  - Management and reporting are done from a single web-based Console with a unified, holistic presentation
  - Detects all bandwidth-related traffic anomalies:
    - Distributed Denial of Service (DDoS) attacks, unknown volumetric DoS attacks
    - NTP amplification attacks, generic UDP floods, ICMP floods, SMURF attacks
    - SYN floods, TCP/UDP port 0, LOIC, peer-to-peer attacks, etc.
    - Scans and worms sending traffic to illegal or unallocated addresses, missing traffic to critical services
  - Per-endpoint flexible threat reaction options:
    - Activate WANGUARD Filter for DDoS attack mitigation
    - Send remotely-triggered black hole announcements, BGP off-/on-ramp traffic diversion announcements
    - Alert the NOC staff by email using user-defined email templates
    - Send custom Syslog messages to remote log servers or SIEM systems
    - Capture a sample of traffic for forensic investigation
    - Extend the built-in capabilities with customized scripts that can access an easy-to-use API
  - Provides traffic accounting reports and per-IP / subnet / IP Group graphs for each of the following traffic types: total, tcp, tcp+syn, udp, icmp, other, bad, flows, flows+syn, http, https, ssl, mail, dns, sip, ntp, rdp, snmp, ssh, ipsec, facebook, youtube, netflix, hulu, and more to come
  - Generates tops and graphs for talkers, external IPs, IP groups, autonomous systems, countries, TCP or UDP ports, IP protocols, and more
  - The short-term accuracy of bandwidth graphs can be set between 5 seconds and 10 minutes
  - Users can save individual flows and packet dumps for forensic investigation or for aiding network troubleshooting. Flows can easily be searched, filtered, sorted and exported. Packet dumps can be downloaded or viewed online in a Wireshark-like interface
  - Supports running in a clustered mode with collected data aggregated from multiple Sniffing Sensors or Flow Sensor interfaces. Instances can be load-balanced on different CPU cores or servers
  - Any number of instances can be deployed on servers across the network
  - Can use PF\_RING/DNA for packet sniffing on 10 Gbit interfaces with no packet losses
  - Easy and non-disruptive installation on commodity hardware

SYSTEM REQUIREMENTS		Packet Sniffing Sensor	Flow Sensor
REGORICEMENTO	Traffic Capturing Technology:	In-line Appliance, Port Mirroring, Network TAP	NetFlow® v5 v7 v9, sFlow® v4 v5, IPFIX
	DDoS Detection Time	< 5 seconds	< flow export time + 5 seconds
	Capacity / Sensor Instance:	1 x 10 Gigabit Ethernet interface	1 flow exporter with tens of 10 GbE interfaces
	CPU & RAM:	2.8 GHz quad-core Xeon, 2 GB RAM	2.0 GHz dual-core Xeon, 4 GB RAM
	Network Cards:	1 x 10 GbE (Intel 82599 chipset recommended)	1 x Gigabit Ethernet
	Operating System:	RHEL / CentOS 5 or 6, Debian 6 or 7, Ubuntu Server 12 or 13, OpenSuSE 12 or 13	RHEL / CentOS 5 or 6, Debian 6 or 7, Ubuntu Server 12 or 13, OpenSuSE 12 or 13



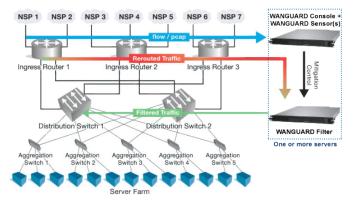
## WANGUARD Filter

OVERVIEW

The Filter provided by WANGUARD detects attack patterns and generates filtering rules that scrub off anomalous traffic in a granular manner, without impacting the user experience or resulting in downtime.

• Out-of-line server – In the image on the right, the Filter sends a BGP routing update to the ingress border router that will set the Filter's server as the next hop for the suspect traffic. The Filter then blocks the malicious traffic, and the cleaned traffic is routed back into the network. This technique, used to send only the traffic received by attacked destinations to the filtering server for cleaning, is called traffic diversion, BGP off-/ on-ramping, sink hole routing or side filtering.

• In-line server configured as router – The Filter runs on a server that resides in the main data-path, configured to be a Linux router.



• In-line server configured as network bridge - The

Filter runs on a server that resides in the main data-path, configured to be an OSI Layer 2 network bridge.
Server connected to a network tap or mirroring port – The Filter runs on a server that receives a copy of packets from a network tap or mirroring port. Direct filtering is not possible, but the Filter is still able to generate filtering rules that improve the visibility of attacks and can be applied to other in-line appliances or firewalls.

#### KEY FEATURES AND BENEFITS

Defends against known, unknown and evolving DoS, DDoS and other volumetric attacks by filtering dynamically any combination of: source or destination IP addresses (IPv4 or IPv6), source or destination TCP ports, source or destination UDP ports, IP protocols, invalid IP packets, ICMP types, Time To Live, packet lengths, and more

- Recognises and blocks malicious traffic in under 5 seconds
- Does not block or blacklist valid customer traffic
- Does not require network baseline training or operator intervention
- Per endpoint flexible threat management tools and an easy to use API for scripting the reaction to attack patterns:
  - Alert your NOC staff or the ISP of the attacker using user-defined email templates
  - Send custom syslog messages to remote log servers or SIEM systems
  - Capture a sample of the attacker's traffic for forensic investigation and legal evidence
  - Execute your own scripts that extend the built-in capabilities: configure ACLs or execute PIX "shun" commands on routers or firewalls, filter attacking IP addresses by executing "route blackhole" commands on Linux servers, send SNMP TRAP messages to SNMP monitoring stations, etc.
- Supports multiple packet filtering backends:
  - Software filtering using the NetFilter framework provided by the Linux kernel
  - Hardware-based filtering on 1 or 10 Gbps network cards with Intel's 82599 chipset (Intel X520 NIC, Intel X540 NIC, HP 560 NIC, other vendors), or better
  - Dedicated firewalls and IPSes using helper scripts
- The cleaning server can be deployed in-line or can scrub the malicious traffic with BGP off-/on-ramping
- The cleaned traffic can be re-injected downstream into the network with Static Routing or GRE tunnelling
- Easy and non-disruptive installation on common server hardware

	1 Gbps mitigation	10 Gbps mitigation
Deployment Type:	In-line or out-of-line deployment	Out-of-line deployment recommended
CPU & RAM:	2.5 GHz dual-core Xeon,2 GB RAM	2.8 GHz quad-core Xeon, 4 GB RAM
Network Cards:	2 x Gigabit Ethernet	1 x 10 GbE NIC with Intel 82599 chipset or better, 1 x Gigabit Ethernet
Operating System:	RHEL / CentOS 5 or 6, Debian 6 or 7, Ubuntu Server 12 or 13, OpenSuSE 12 or 13	RHEL / CentOS 5 or 6, Debian 6 or 7, Ubuntu Server 12 or 13, OpenSuSE 12 or 13
	CPU & RAM: Network Cards:	Deployment Type:       In-line or out-of-line deployment         CPU & RAM:       2.5 GHz dual-core Xeon,2 GB RAM         Network Cards:       2 x Gigabit Ethernet         Operating System:       RHEL / CentOS 5 or 6, Debian 6 or 7, Ubuntu



# **DDoS Attack Report**

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Comment:         Comment:           Filter         Filter-DMZ           No         Time           1         2014           2         2014           3         2014           Filter-DMZ         No           Time         1           2         2014           Filter-DMZ         No           No         Time           1         2014           3         2014           4         2014	Simulated SYN attack from 4.3.2	Started         2014-04-24 10:20:54         2014-053.102.163         41.121.32.139         144.111.171.53         102.22.123.22         2014-04-24 10:24:34         Source         2.7.96.198.14         20.53.102.163         41.121.32.139         144.111.171.53         102.22.123.22         2014-04-24 10:24:34         Source         4.3.2.1         4.3.2.1	Latest Alarm 2014-04-24 : Destination 192.168.200 192.168.200 192.168.200 192.168.200 192.168.200.3 192.168.200.3	C, Sysiog         Networe           10:24:34         Protocol           .3         TCP           TCP         TCP           TCP         TCP	Intervention         Peak Pkts           Duration         Peak Pkts           3m 40s         142.6k (C           1         Info           42062 > 53 [SYN]           42065 > 53 [SYN]           42066 > 53 [SYN]           42066 > 53 [SYN]           22m 14s         210.1k (2           Info           ICTCP segment of a           [TCP segment of a           [TCP segment of a	297.0 Mpkt s/s 0.0k) ] Seq=0 Win- ] Seq=0 Wi	Peak Bits/s         S           45.6M (0.0k)         512 Len=0           =512 Len=0         =512 Len=0           =512			TP 0.0.00     TP 10.0.00     TP 10.0.00     TP 10.0.00     TP 110.00     TP 110.0
Comment:         Comment:           Filter         Filter-DMZ           No         Time           1         2014           2         2014           5         2014           Filter-DMZ         No           Time         1           2         2014           Filter-DMZ         No           No         Time           1         2012           2         2014           3         2014           5         2014	Simulated SYN attack from 4.3.2	Started         2014-04-24       10:20:54         Source       27.96.198.14         20.53.102.163       41.121.32.139         102.22.123.223       2014-04-24         2014-04-24       10:24:34         Source       4.3.2.1         4.3.2.1       4.3.2.1         4.3.2.1       4.3.2.1	Latest Alarm 2014-04-24 i Destination 192.168.200 192.168.200 192.168.200 192.168.200 192.168.200 192.168.200.3 192.168.200.3 192.168.200.3 192.168.200.3	Protocol           .3         TCP           .4         TCP           .5         TCP           .7         TCP	Info         Peak Pkts           10.1k         10.1k           Duration         Peak Pkts           3m 40s         142.6k (C           1         Info           42062 > 53 [SYN]           42065 > 53 [SYN]           42065 > 53 [SYN]           22m 14s         210.1k (2           Info           [TCP segment of a           [TCP segment of a	297.0 Mpkt s/s 0.0k) ] Seq=0 Win- ] Seq=0 Wi	Peak Bits/s         S           45.6M (0.0k)         512 Len=0           =512 Len=0         =512 Len=0           =512			(i) (i) (i) (i) (i) (i) (i) (i) (i)
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Comment:         Comment:           Filter         Filter-DMZ           No         Time           1         2014           2         2014           5         2014           Filter-DMZ         No           Time         1           2         2014           Filter-DMZ         No           No         Time           1         2012           2         2014           3         2014           5         2014	Simulated SYN attack from 4.3.2	2.1 and from other rando Started 2014-04-24 10:20:54 2014-04-24 10:20:54 27.96.198.14 20.53.102.163 41.121.32.139 144.111.171.53 102.22.123.223 2014-04-24 10:24:34 Source 4.3.2.1 4.3.2.1 4.3.2.1 4.3.2.1 2015-0508	Latest Alarm 2014-04-24 i Destination 192.168.200 192.168.200 192.168.200 192.168.200 192.168.200 192.168.200.3 192.168.200.3 192.168.200.3 192.168.200.3	L0:24:34 Protoco 1.3 TCP 1.3 TCP 1.5 TCP 1.	Info         Peak Pkts           10.1k         10.1k           Duration         Peak Pkts           3m 40s         142.6k (C           1         Info           42062 > 53 [SYN]           42065 > 53 [SYN]           42065 > 53 [SYN]           22m 14s         210.1k (2           Info           [TCP segment of a           [TCP segment of a	297.0 Mpkt s/s 0.0k) ] Seq=0 Win- ] Seq=0 Wi	Peak Bits/s         S           45.6M (0.0k)         512 Len=0           =512 Len=0         =512 Len=0           =512			(internal Zone     (interna
Comment:         Comment:           Filter         Filter-DMZ           No         Time           1         2014           2         2014           4         2014           Filter-DMZ         No           No         Timu           1         2014           5         2014           6         Timu           1         2012           3         2014           5         2014	Simulated SYN attack from 4.3.2	2.1 and from other rando Started 2014-04-24 10:20:54 Source 27.96.198.14 20.53.102.163 41.121.32.139 144.111.171.53 102.22.123.22 2014-04-24 10:24:34 Source 4.3.2.1 4.3.2.1 4.3.2.1 4.3.2.1 Console Summa S	Latest Alarm 2014-04-24 Destination 192.168.200 192.168.200 192.168.200 192.168.200 2014-04-24 2014-04-24 2014-04-24 192.168.200.3 192.168.200.3 192.168.200.3 192.168.200.3	L0:24:34 Protoco 1.3 TCP 1.3 TCP 1.5 TCP 1.	Info         Peak Pkts           10.1k         10.1k           Duration         Peak Pkts           3m 40s         142.6k (C           1         Info           42062 > 53 [SYN]           42065 > 53 [SYN]           42065 > 53 [SYN]           22m 14s         210.1k (2           Info           [TCP segment of a           [TCP segment of a	297.0 Mpkt s/s 0.0k) ] Seq=0 Win- ] Seq=0 Wi	Peak Bits/s         S           45.6M (0.0k)         512 Len=0           =512 Len=0         =512 Len=0           =512			(ii) 0.0.00     (iii) 10.0.08     (iiii) 10.2.0     (iiiii) 10.2.0     (iiii) 10.2.0     (iiiii) 10.2.0     (iiii) 10.2.
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