Carrier-grade DDoS detection and mitigation software



Andrisoft Wanguard On-premise anti-DDoS solution



Andrisoft Wanguard is enterprise-grade software that delivers to NOC, IT and Security teams the functionality needed for monitoring and protecting WAN networks through a single integrated package.

Unforeseen traffic patterns affect user satisfaction and clog costly transit links. Providing reliable network services is imperative 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 become critical in order to meet expected SLAs and network availability requirements. Wanguard's network-wide surveillance of complex, multilayer, switched or routed environments together with its unique combination of features is specifically designed to meet the challenge of pinpointing and resolving any such threats.



Central Console for Network and Threat Management

AND BENEFITS

OVERVIEW

KEY FEATURES • FULL NETWORK VISIBILITY – Supports all IP traffic monitoring technologies: packet sniffing, NetFlow version 5,7 and 9; sFlow version 4 and 5; IPFIX and SNMP

- COMPREHENSIVE DDOS DETECTION Leverages an innovative traffic anomaly detection engine that quickly detects volumetric attacks by profiling the online behavior of users and by comparing over 130 live traffic parameters against user-defined thresholds
- ON-PREMISE DDOS MITIGATION Protects networks by using BGP blackhole routing or FlowSpec; protects services by cleaning malicious traffic on packet-scrubbing servers deployed in-line or out-of-line
- FAST, SCALABLE & ROBUST The software was designed to run on commodity hardware by leveraging highspeed packet capturing technologies such as Myricom Sniffer10G, PF_RING Vanilla, PF_RING ZC and Netmap. Can run as a cluster with its software components distributed across multiple servers
- **POWERFUL REACTION TOOLS** Executes predefined actions that automate the responses to attacks: sends notification emails, announces prefixes in BGP, generates SNMP traps, modifies ACLs, and executes scripts that have access via an easy-to-use API to hundreds of internal parameters
- DETAILED FORENSICS Samples of packets and flows are captured for forensic investigation during each attack. Detailed attack reports can be emailed to you, affected customers or the attacker's ISP
- ADVANCED WEB CONSOLE Consolidated management and reporting through a multi-tenant, interactive and highly-configurable web portal with customizable dashboards, user roles, and remote authentication
- **PACKET SNIFFER** A distributed packet sniffer that saves packet dumps from different network entry points. View packet details in a Wireshark-like web interface
- FLOW COLLECTOR A fully featured NetFlow, sFlow, and 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 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



Wanguard Sensor

Network Cards:

Operating System:

| OVERVIEW | - | Wanguard uses an extremely fast and nomaly detection engine that detects | NSP NSP | | | | | |
|------------------------------|--|---|--|--|--|--|--|--|
| | by comparing over 130 live thresholds. It collects info | ormation that allows you to generate | RPRISE SERVICES base, CRM, VolP, Messaging, DNS | | | | | |
| | cause of network incidents | aphs, and tops; instantly pin down the ;; automate the reaction to threats; un- cation performance and make the right | Corporate Network Flows, packets or data collected by other Sensors | | | | | |
| | capacity planning decisions tacks by using predefined emails, announce prefixes | s. You can automate the response to at- action modules that send notification in BGP, generate SNMP traps, modify cripts with access to an easy-to-use API | | | | | | |
| KEY FEATURES AND BENEFITS | Contains a completely scalable traffic analysis engine able to monitor, in real time, tens of thousands of IPv4 and IPv6 addresses and ranges | | | | | | | |
| | Management and reporting through an advanced web-based Console with a unified, holistic presentation Detects all bandwidth-related traffic anomalies, such as: | | | | | | | |
| | | f Service (DDoS) attacks, unknown volumetr | ic DoS attacks | | | | | |
| | NTP amplification attacks, generic UDP floods, ICMP floods, SMURF attacks | | | | | | | |
| | SYN floods, TCP/UDP port 0, LOIC, peer-to-peer attacks Scans and worms sending traffic to illegal/unallocated addresses, missing traffic to/from critical services | | | | | | | |
| | Per-endpoint flexible threat reaction options, such as: | | | | | | | |
| | Activate on-premise DDoS attack mitigation with Wanguard Filter | | | | | | | |
| | Send BGP blackhole routing updates using FlowSpec (RFC 5575) or null-routing communities Send BGP off-/on-ramp traffic diversion routing updates to on-premise/on-cloud DDoS mitigation services Email alerts with user-defined dynamic 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 by executing custom scripts with access to an easy-to-use API exposing 80+ internal parameters | | | | | | | |
| | Provides traffic accounting reports and per-IP/subnet/IP group graphs for each of the following decoders (classes): tcp, tcp+syn, tcp+rst, tcp+ack, tcp+syn+ack, tcp-null, udp, icmp, other, bad, flows, http, https, ssl, mail, dns, sip, ntp, rdp, snmp, ssh, ipsec, ssdp, facebook, youtube, netflix, hulu. Supports custom decoders Generates tops and graphs for talkers, external IPs, IP groups, autonomous systems, countries (based on GeoIP or ASN), TCP or UDP ports, IP protocols, and more | | | | | | | |
| | Set the short-term accuracy of bandwidth graphs between 5 seconds and 10 minutes Users can save individual flows and packet dumps for forensic investigation or for aiding network trouble- | | | | | | | |
| | shooting. 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 by aggregating data collected by multiple Sensors, load-balanced on | | | | | | | |
| | • Supports running in a clustered mode by aggregating data collected by multiple sensors, load-balanced on different CPU cores or servers | | | | | | | |
| | | nmodity hardware. Deploy any number of ir | nstances across the network | | | | | |
| MINIMUM | | | | | | | | |
| SYSTEM | ID Manitarian Taska ala | Packet Sensor | Flow Sensor | | | | | |
| REQUIREMENTS | IP Monitoring Technology: | In-line Appliance , Port Mirroring, Network TAP | NetFlow® v5 v7 v9, sFlow® v4 v5, IPFIX | | | | | |
| | DDoS Detection Time | < 1 seconds | < flow export time + 5 seconds | | | | | |
| | Capacity per Sensor: CPU & RAM: | 10 GbE (supports PF_RING, Sniffer10G, Netmap) 3.2 GHz quad-core Xeon, 3 GB RAM | 1 flow exporter with tens of 10 GbE interfaces 2.0 GHz dual-core Xeon, 4 GB RAM | | | | | |
| | CFU & NAIVI. | 5.2 GHZ YUAU-COTE AROTI, 3 GB KAIVI | 2.0 GHZ UUAI-COTE AROH, 4 GB KAIVI | | | | | |

RHEL / CentOS 6 or 7; Debian 6, 7 or 8; Ubuntu

1 x Gigabit Ethernet

Server 12, 14 or 16

RHEL / CentOS 6 or 7, Debian 6, 7 or 8; Ubuntu

1 x 10 GbE

Server 12, 14 or 16



Wanguard Filter

OVERVIEW

The Filter component of Wanguard ensures zero downtime for customers and services during Distributed Denial of Service attacks, without requiring an operator intervention. It defends against DDoS attacks by cleaning the malicious traffic on-premise (when the upstream links are not congested) and notifies the attacker's ISP when the attack is not spoofed. The malicious packets are blocked using intelligent, dynamic filtering rules that are applied on stateless software or hardware firewalls and on BGP FlowSpec-capable routers. Dedicated packet scrubbing servers can be deployed in the main data path, or can perform side-filtering with BGP on-/off-ramping.



KEY FEATURES AND BENEFITS

 Defends against known, unknown and evolving DoS, DDoS and other volumetric attacks by smart filtering any combination of source and destination IPv4 or IPv6 addresses, source and destination TCP or UDP ports, IP protocols, invalid IP headers, ICMP types, common Time To Live values, packet lengths, country, DNS Transaction ID, packet payloads, and more

- Analyzes IP packets (including VLAN and MPLS traffic), as well as NetFlow, sFlow, and IPFIX flow data
- Recognises and blocks malicious traffic in under 5 seconds
- Does not require network baseline training or operator intervention
- Stateless operation designed to work with asymmetric routing
- Uses SYN Proxy to mitigate spoofed SYN, SYN-ACK, and ACK attacks
- Performs deep packet inspection to find patterns inside packet payloads
- Per-endpoint threat management tools and an easy-to-use API for scripting the reaction to attack vectors:
 - Alert the NOC, customer or ISP of the attacker with 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 custom scripts that extend the built-in capabilities: configure ACLs or execute "shun" commands on routers and PIX firewalls, send SNMP TRAP messages to SNMP monitoring stations, etc.
- Supports multiple packet filtering backends:
 - Software-based filtering using the NetFilter framework provided by the Linux kernel
 - Hardware-based filtering on 1/10/40 Gbps Chelsio T5 NICs, or 1/10 Gbps NICs with Intel's 82599 chipset
 - BGP FlowSpec-capable routers
 - Third-party dedicated firewalls and IPSes controlled by helper scripts
- Cleaning servers can be deployed in-line or can scrub malicious traffic by BGP off-/on-ramping (sinkhole routing), S/RTBH or FlowSpec

| MINIMUM SYSTEM | | | | |
|-------------------|---------------------------|---|--|--|
| | DDoS Mitigation Capacity: | 1 Gbit/s – 1,400,000 packets/s | 10 Gbit/s – 14,000,000 packets/s | |
| REQUIREMENTS | Deployment Type: | In-line or out-of-line | Out-of-line (using BGP redirect) recommended | |
| | CPU & RAM: | 2.5 GHz dual-core Xeon, 2 GB RAM | 2.8 GHz quad-core Xeon, 8 GB RAM | |
| | Network Cards: | 2 x Gigabit Ethernet | 1 x 10 GbE NIC (Chelsio T4/T5 or Intel 82599 chipset recommended), 1 x Gigabit Ethernet | |
| | Operating System: | RHEL / CentOS 6 or 7; Debian 6, 7 or 8; Ubuntu Server 12, 14 or 16 | RHEL / CentOS 6 or 7; Debian 6, 7 or 8; Ubuntu Server 12, 14 or 16 | |



Wanguard Console

OVERVIEW

Console is an OS-independent web-based application that provides single-point management and reporting by consolidating data received from Wanguard Sensors and Wanguard Filters. It offers a tightly integrated, highly graphical and interactive interface for all aspects of traffic monitoring and network security. Its advanced graphing engine allows quick and easy ad-hoc graphing and analysis functionality.

KEY FEATURES AND BENEFITS

- Provides consolidated, real-time management and monitoring for Sensors and Filters that are installed on the same server or distributed across the network
- Its rich HTML5 user interface is accessible from major web browsers that run on desktops or mobile devices.
- Supports HTTPS encryption
- All collected data and configurations can be easily queried and referenced via a RESTful API which exposes hundreds of internal parameters, anomaly data, graphs and tops
- An intuitive and easy-to-use navigation allows drilling into the live monitoring results
- You can add any number of custom dashboards with over 30 highly configurable widgets. The predefined dashboards allow you quickly to start monitoring networks, services, servers and software components
- Permits role-based authenticated access for an unlimited number of users with fine-grained security profiles. Supports Managed Security Services Provider (MSSP) capabilities like:
 - Customized web portal login page
 - Only traffic/alert information relevant to the client is visible
 - Operators can create profiles within their scoped view
 - Users can view traffic reports for their scoped view and their configured profiles including application, protocol, top talkers reports, ongoing and recent anomalies, etc.
- Users can be authenticated locally or remotely by cascaded LDAP, Active Directory or Radius servers. Allows having perpetual sessions with cookie-based authentication
- Supports IP grouping for segmenting networks into departments, customers, data centers, server clusters, etc. Supports Device grouping to ease the management of very large networks
- Graphs are animated and generated on-the-fly for live reporting. Bandwidth histograms contain 95th percentile values for burstable billing
- You can view reports of the last 5 seconds to the last ten years by selecting any custom time period. Complex reports can be emailed automatically to interested parties at preconfigured intervals of time
- All reports can be emailed from Console or exported as PDF files for easy printing.
- A dedicated Flow Collector interface allows easy navigation into flow records and provides compelling statistics and summaries
- A dedicated Packet Tracer interface allows you to capture packets using just a few clicks and then view packet dumps in detail in a Wireshark-like web interface. Displays packet captures in raw hexadecimal data and ASCII data for inclusion in regular expressions
- A dedicated BGP Operations interface allows you to send BGP/FlowSpec prefix updates for remotely-triggered BGP blackholes. Bgpd can be managed directly from Console
- Monitors the status of each appliance, including vital information about processed traffic, CPU, RAM and NIC usage. Sends alerts on errors and overload conditions
- The interface supports white-labeling and rebranding
- Users can choose between 5 user interface themes: Accessibility, Azenis, Blue, Grey and Ubuntu
- Console bookmarks let you save frequently used, manually-entered data to be reused at a later time. A "Quick Search" button permits direct access to relevant reports
- The recorded data are stored in an internal SQL database that can be queried and referenced, and is easy to backup and restore

| MINIMUM SYSTEM | Architecture: | 64-bit (x86) |
|-------------------|-------------------|--|
| REQUIREMENTS | CPU: | 2.4 Ghz dual-core Xeon |
| | RAM: | 4 GB RAM |
| | Disk Space: | 16 GB (including OS) + additional storage space for graph data |
| | Operating System: | RHEL / CentOS 6 or 7; Debian 6, 7 or 8; Ubuntu Server 12, 14 or 16 |



DDoS Report Sample

| ://console/wanguard/ | | | | | | | | | |
|--|--|--|--|---|--|---|------------------------|--------------|---|
| NSOLE | | | | | | | | | 🕐 Help 👻 |
| 📊 Overview 🗷 🔼 0.0.0.0/0 |) 🛎 💼 10.1.0.1 🛎 🔒 Flow C | Collectors 🗷 🏙 Firewall Rule | es 🗵 🌔 Ar | nomalies 🖲 🌔 | Anomaly #57 🗵 | | | | Reports |
| Reports Ser | nsor Logs Mitigatio | on Logs & Graphs | Resolver | Export | | | | Refresh | A Tools |
| nutes V Details: 🖉 First 50 | 0 lines 👻 🕑 First 5 line | es 👻 Auto 👻 N | one 👻 | 🖂 Email 🔻 | | | | No seconds 👻 | Anomalies |
| Anomaly #57 | | | | | Active si | nce Apr 26 12:45:3 | 3 (11m 29s) | | BGP Operations |
| | | | | | | | | | Firewall Rules |
| 600 k | | | | | | | | | Packet Tracers |
| 400 k | | | | | Chine Print | | | | Components |
| 200 k | | | | | | | | | Overview |
| 0 | 12:35 | 12:40 | 12:4 | 5 | 12:50 | 12 | 55 | | |
| INBOUND traffic: | | | | | | | | | WAN Switch I |
| TCP+SYN TOTAL OTHER | Max = 205.5 kpkts/s Max = 586.5 kpkts/s | Avg = 81.3 kpkts/s Avg = 461.8 kpkts/s | Min = 0 Min = 0 | 0.0 pkts/s 0.0 pkts/s | 95th% = 196.0 95th% = 536.0 | крктs/s Sum = 12 kpkts/s Sum = 73 | 9.6 Mpkts 6.5 Mpkts | | DMZ Inter |
| OUTBOUND traffic: TCP+SYN | | Avg = 0.0 pkts/s | | | | pkts/s Sum = | | | 🖳 WAN Inter |
| TOTAL OTHER | | Avg = 0.0 pkts/s | | | | | | | J SNMP Sensor Filter DMZ |
| | | | | | | | | | |
| A | Anomaly | Value | | Affe | cted | Traffic 445.3 kpkts/s | Severity | | Dashboards |
| Incoming TCP- | +SYN pkts/s > 5% | Highest: 209.7 k Latest: 189.6 k | <u> </u> | Protected Zo | ne (10.1.0.1) | 570.0 Mbits/s | | | Anomalies Dash |
| | | Latest: 189.0 K | | | | 570.0 MDILS/S | | | All Sensors Das |
| | | | | | | | | | All Sensors - Ba All Sensors - Ex |
| Details | | | | | | | | | All Sensors - Lo |
| | | | | | | | | | All Servers Das |
| Sensor Respons | | | | IP Zone | Threshold Tota | als | Actions | | Console Admin |
| WAN Switch DMZ Notificati | to DDoS (Activate WanGuard Fil ion Email, Capture Traffic Sample | Iter, Send SNMP Trap to SIEM, e, BGP FlowSpec RTBH, Sound | Send the Alarm, | Corporate Network | 19.9 kpkts/s 481. | 8 Mpkts 616.7 Gbits | ç 🗟 🔿 🔘 | | My Custom Dasi |
| Canture | Attacker Traffic) | | | (10.1.0.1) | | | | | IP Addresses |
| Captare | | | | | | | | | _ |
| | attack from random IP addre | sses and the whitelisted IF | address 4. | 3.2.1 | | | | | IP / Mask: Searc |
| | attack from random IP addre | sses and the whitelisted IF | address 4. | 3.2.1 | | | | | IP / Mask: Searc |
| Comment: Simulated SYN | attack from random IP addre | esses and the whitelisted IF | address 4. | 3.2.1 | | | | | ia |
| | attack from random IP addre | | | 3.2.1 | | | | | i ⊂ 0.0.0.0/0 i ⊗ 10.0.0.0/8 i 10.1.0. |
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| Comment: Simulated SYN Mitigation | attack from random IP addre | | | 3.2.1 | | | | | □ ○ 0.0.0.00 □ ○ 10.0.0.08 □ □ 10.1.0 □ ○ 192.168.0 □ ○ fe80::/16 |
| Comment: Simulated SYN Mitigation | attack from random IP addre | | | 3.2.1 | | | | | |
| Comment: Simulated SYN Mitigation | attack from random IP addre | | | 3.2.1 | | | | | 0.0.0.00 0.0.0.00 10.0.0.0/ 10.1.0 19.168.0 192.168.0 192.168.0 19 Groups |
| Comment: Simulated SYN Mitigation | attack from random IP addre | | | 3.2.1 | | 12:55 | | | |
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| Comment: Simulated SYN Mitigation | Max = 235.8 kpkts/s | Filter 12:50 | DMZ Min = 16 | 4.4 kpkts/s | | okts | | | © 0.0.0/0 © 10.0.0/0 © 10.0.0/8 © 10.1.0 © 12.168.0 © 180::/16 P Groups IP Groups IP Group: Searc © Internal Network P IPVazone P IPVazone |
| Comment: Simulated SYN Mitigation 500 k 100 k 200 k 100 k 0 Passed traffic Dropped traffic | Max = 235.8 kpkts/s Max = 204.9 kpkts/s | Filter 12:50 Avg = 211.5 kpkts/s | DMZ Min = 16 Min = 15 | 4.4 kpkts/s 1.1 kpkts/s | Sum = 127.1 Mp | okts okts | Actions | | C 0.0.0/0 S 10 0.0.0/0 S 10 0.0.0/8 F 10.1.0 S 192.68.0 S 1680::/16 F Groups IP Groups IP Group: Searc Internal Network IP Yod Zone |
| Comment: Simulated SYN Mitigation | Max = 235.8 kpkts/s Max = 204.9 kpkts/s Slarted | Filter 12:50 Avg = 211.5 kpkts/s Avg = 186.9 kpkts/s Latest Alarm | DMZ Min = 16 Min = 15 Dura | 4.4 kpkts/s 1.1 kpkts/s | | okts) Peak Bits/s (Bits) | | | |
| Comment: Simulated SYN Mitigation 500 k 300 k 200 k 100 k 0 Passed traffic Propped traffic Filter Filtering Rule | Max = 235.8 kpkts/s Max = 204.9 kpkts/s Started 2016-04-26 12: | Filter 12:50 Avg = 211.5 kpkts/s Avg = 186.9 kpkts/s Latest Alarm 45:33 2016-04-26 12:57 | DMZ Min = 16 Min = 15 Dura 00 11m | 4.4 kpkts/s 1.1 kpkts/s ation Dropped | Sum = 127.1 Mp Peak Pkts/s (Pkts | bkts) Peak Bits/s (Bits)) 303.4 M (185.8 G | • | | Console Console Console |
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