NETSCOUT®

Why NETSCOUT's Arbor DDoS Attack Protection Solution is Better

What Makes NETSCOUT's Arbor DDoS Attack Protection Solution So Unique?

Our solution is an intelligently automated, combination of on-premise and in-cloud DDoS attack protection; continuously backed by global threat intelligence.

1. On premise, the NETSCOUT® AED product is an in-line, always-on product that can automatically detect and stop all types of DDoS attacks – especially:

   – Volumetric Attacks up to 200 Gbps
   – TCP State Exhaustion Attacks
   – Application Layer Attacks
   – Encrypted Traffic Attacks

2. AED does more than just provide best-of-breed DDoS protection. Armed with millions of reputation-based Indicators of Compromise (IoCs) and other threat intelligence from NETSCOUT's ATLAS® Intelligence Feed or 3rd parties (via support for STIX/ TAXII), AED can help stop the proliferation of malware within the organization. AED, using stateless packet processing technology, can also block outbound communication from compromised internal devices to known bad sites and malicious Botnets to stop data breaches from occurring.

3. Via intelligent Cloud Signaling, AED continuously (even when not under attack) sends customized, local attack policy information to a cloud-based mitigation service (e.g. from your ISP, CDN provider, or NETSCOUT's Arbor Cloud) for use in current or future attacks. In the event of a large attack, attack traffic will automatically be routed to

an appropriate Cloud scrubbing center for analysis and mitigation. Preconfigured attack countermeasures, including previously sent AED local attack policies, will automatically stop the DDoS attack within minutes.

4. Arbor Cloud is a 24x7, fully managed DDoS attack protection service offering 15 Tbps of mitigation capacity via 15 worldwide scrubbing centers.

5. Post attack, a comprehensive set of reports are automatically generated detailing all attack activity. And all of these products and services can be fully managed and are continuously armed with the global threat intelligence offered by ATLAS and the NETSCOUT ASERT Team.

No one in the industry offers such an intelligently automated combination of in-cloud and on-premise DDoS attack protection – designed to provide the most comprehensive form of protection from the advanced DDoS attacks of today and the future.

Arbor has the industry's broadest portfolio of DDoS attack protection products and services that enable organizations of any size to customize a solution to meet their technical and financial requirements of today – and the future.
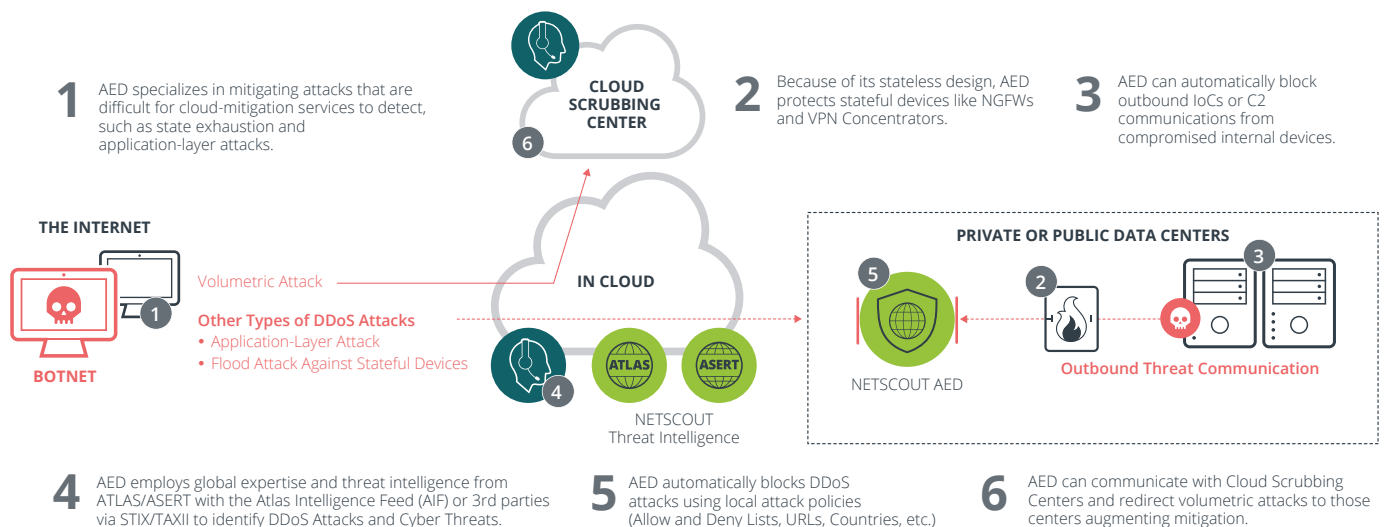

1 AED specializes in mitigating attacks that are difficult for cloud-mitigation services to detect, such as state exhaustion and application-layer attacks.

2 Because of its stateless design, AED protects stateful devices like NGFWs and VPN Concentrators.

3 AED can automatically block outbound IoCs or C2 communications from compromised internal devices.

CLOUD SCRUBBING CENTER

THE INTERNET

IN CLOUD

PRIVATE OR PUBLIC DATA CENTERS

Volumetric Attack

Other Types of DDoS Attacks
• Application-Layer Attack
• Flood Attack Against Stateful Devices

BOTNET

ATLAS   ASERT

NETSCOUT
Threat Intelligence

NETSCOUT AED

Outbound Threat Communication

4 AED employs global expertise and threat intelligence from ATLAS/ASERT with the Atlas Intelligence Feed (AIF) or 3rd parties via STIX/TAXII to identify DDoS Attacks and Cyber Threats.

5 AED automatically blocks DDoS attacks using local attack policies (Allow and Deny Lists, URLs, Countries, etc.)

6 AED can communicate with Cloud Scrubbing Centers and redirect volumetric attacks to those centers augmenting mitigation.

Figure 1: Arbor's Intelligent Automation in Action.

The Table Below Provides More Ways NETSCOUT Arbor Compares to Other Vendors:

Capability	Arbor	A Cloud-Only DDoS Protection Vendor	A DDoS Appliance Vendor
Hybrid DDoS attack protection solution *(i.e., combination of on-premise and in-cloud)*	**Excellent** Arbor's DDoS Attack Protection solution is an intelligently automated, combination of on-premise and in-cloud DDoS protection products and services; continuously backed by global visibility and threat intelligence.	None	Fair
Breadth of DDoS protection appliances designed for on-premises	**Excellent** AED is an in-line, always-on appliance capable of automatically stopping all types of DDoS attacks; mitigation capacities range from 100 Mbps to 200 Gbps.	None	Very Good
Virtual DDoS protection appliances designed for cloud environments	**Good** AED supports KVM, VMware, Cloud-Init, Openstack-Ansible, Nokia Cloudband, Cisco NSO/ ESC, Cisco NFVIS, Amdocs, Netcracker and other ONAP or ETSI NFV management and orchestration technologies.	None	None
SSL decryption/ attack protection	**Good** AED can inspect encrypted traffic. Supported encryption protocols: SSL 3.0, TLS 1.0, 1.1 and 1.2; Supported Cypher Suites: RSA, ECDH, ECDHE; FIPS 140-2 Level 2 and 3 support.	None	Good
Cloud-based DDoS protection services	**Very Good** Arbor Cloud is a 24/7, managed DDoS protection service with 15 scrubbing centers around the world providing 15 Tbps of mitigation capacity.	Very Good	Fair
Blocking of Inbound and Outbound Non-DDoS Threats	**Very Good** Armed with potentially millions of Indicators of Compromise (IoCs) and other threat intelligence from NETSCOUT ATLAS or 3rd parties (via STIX/ TAXII); and highly scalable, stateless packet processing technology, AED blocks both inbound & outbound traffic based upon known bad IP addresses, domains and URLs.	None	None
Threat Intelligence	**Excellent** Arbor ATLAS Intelligence Feed continuously arms all products and services with actionable global threat intelligence.	Good	Fair

LEARN MORE

For more about Arbor's DDoS Attack Protection Solutions: www.netscout.com/arbor-contact

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