

Arbor Cloud DDoS Protection for Enterprises

Global, Intelligently Automated Protection from DDoS Attacks

KEY FEATURES & BENEFITS

Global DDoS Protection

A single solution offering carrier-agnostic, global DDoS protection, backed by world-class security intelligence and industry-leading DDoS protection products.

Multi-Tbps of In-Cloud Protection

Worldwide scrubbing centers with over 11 Tbps of network mitigation capacity offers comprehensive protection from the largest DDoS attacks.

Cloud Only and/or Hybrid Protection

The Arbor Cloud solution can be deployed as a cloud-only and/or an intelligent combination of in-cloud and on-premise DDoS protection - providing you the flexibility to design comprehensive DDoS protection that fits your environment.

Powered by Global Threat Intelligence

Arbor Cloud DDoS protection solutions are continuously armed with the latest global threat intelligence from NETSCOUT® Arbor's ATLAS® and ATLAS Security Engineering & Response Team (ASERT).

Automated DDoS Attack Detection and Mitigation

Using stateless packet-processing technology and/or cloud-based IP flow analysis, DDoS attacks can be automatically detected and routed to Arbor Cloud global scrubbing centers for mitigation.

Managed Services

Rely upon the industry-leading expertise of Arbor Networks to manage and optimize your on-premise DDoS protection.

The trend for DDoS attacks is not favorable for Enterprises. Volumetric attacks are growing. The increasing popularity of reflection/amplification attacks is adding a new layer of complexity. Modern-day DDoS attacks now employ a combination of volumetric, TCP-state exhaustion and application-layer attack vectors. Arbor Cloud™ DDoS Protection for Enterprises (Arbor Cloud) provides global, cloud-based traffic scrubbing services tightly integrated with on-premise DDoS mitigation. This multi-layered approach to DDoS protection is an Enterprise best practice for mitigating today's dynamic multi-vector DDoS attacks.

Layered Protection Against Modern-Day DDoS Attacks

As part of a layered approach to DDoS protection, Arbor Cloud provides in-cloud protection from advanced and high-volume DDoS attacks without interrupting access to your applications and services. Arbor Cloud's automated or on-demand traffic scrubbing service, staffed by Arbor's DDoS security experts, defends against volumetric DDoS attacks that are too large to be mitigated on-premise.

Arbor Cloud's on-premise component - NETSCOUT AED or Arbor Availability Protection System (APS) - provide always-on, in-line, stateless, packet-based DDoS attack detection and mitigation. The AED/APS can detect and stop all types of DDoS attacks. However, in the event of a large volumetric DDoS attack that will overwhelm internet-facing circuits and local protection, using a powerful feature called "Cloud Signaling™" the AED/APS can automatically notify and reroute attack traffic to an appropriate Arbor Cloud scrubbing location where the attack is mitigated. The combination of AED/APS on-premise, Cloud Signaling and Arbor Cloud offers the most comprehensive protection from the modern-day DDoS attack.

Cloud Signaling also works with Arbor Sightline and Threat Mitigation System (TMS) deployments; typically deployed in service provider or larger enterprise network environments. A deployment could have the combination of both AED/APS and Arbor Sightline/ TMS on-premise automated DDoS attack protection.

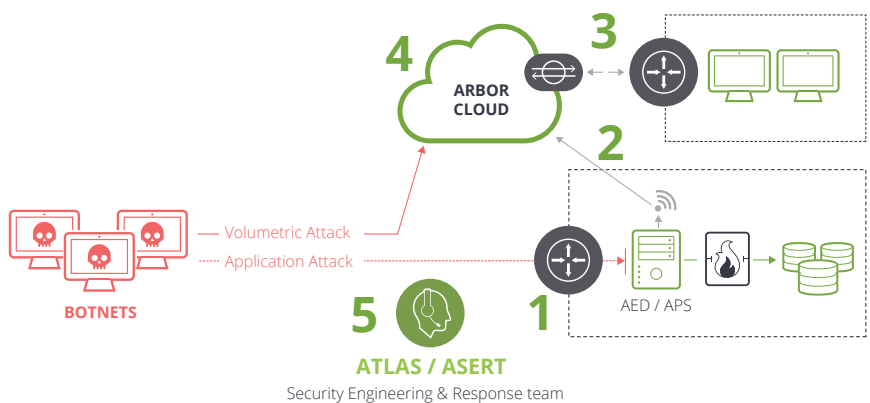


Figure 1: The fully integrated combination of 1) AED/APS on-premise to stop application layer attacks; 2) Cloud Signaling to intelligently reroute large attack to Arbor Cloud; 3) Cloud-based Flow collection, attack detection and reroute to Arbor Cloud; 4) Multi-Tbps of Arbor Cloud global scrubbing; 5) All continuously armed with the global threat intelligence of ATLAS/ASERT – offers the most comprehensive DDoS protection solution in the industry.



On-premise, packet-based protection can be augmented with Arbor Cloud's Flow Monitoring and Detection Service which will collect and analyze IP Flow from local routers. Using unique algorithms during a base line period of approximately 10 days, volumetric DDoS attacks (i.e. reflection / amplification) can be detected in as little as one second and automatically be routed to one of the Arbor Cloud global scrubbing centers.

Arbor Cloud Specifications

Arbor Cloud Security Operations and Scrubbing Centers

- Operations Center: North America (Sterling, VA).
- Scrubbing Centers: 14 located in US (New York, Ashburn, San Jose, Los Angeles, Dallas), Europe (Amsterdam, Frankfurt, Marseille, London, Stockholm) Asia (Sydney, Tokyo & Singapore) and Latin America (Sao Paulo).
- Network/Mitigation Capacity: 11+ Tbps.

Service Packages & Options

- All services based upon IPv4/IPv6 clean traffic throughput - license options include 100Mbps, 500Mbps, 1Gbps, 2Gbps, 3Gbps, 4Gbps, 5Gbps and 6Gbps; unless noted, no setup fee for standard provisioning; includes access to customer portal, ASERT intelligence, attack analysis and warnings; 24x7 Level 1, 2 and 3 support services.
- **Arbor Cloud Connect:** On-demand/automated in-cloud DDoS attack protection with optional integration with on-premise Arbor APS/AED or Sightline/TMS products. Includes one, 72-hour mitigation per year, unlimited netblocks, 5 DNS hostnames, 1 GRE tunnel. Additional mitigations, GRE tunnels, DNS hostnames, SSL certs and Flow Monitoring and Detection service sold separately.
- **Arbor Cloud Essentials+:** On-demand/automated in-cloud DDoS attack protection with optional integration with on-premise Arbor APS/AED or Sightline/TMS products. Includes unlimited mitigations per year, unlimited netblocks, 5 DNS hostnames, 1 GRE tunnel. Additional GRE tunnels, DNS hostnames and SSL certs and Flow Monitoring and Detection service sold separately.
- **Arbor Cloud Always-On:** Always-On, in-cloud DDoS attack detection and protection. Includes unlimited netblocks, 5 DNS hostnames, 1 GRE tunnel. Additional GRE tunnels, DNS hostnames and SSL certs sold separately.
- **Arbor Cloud Direct Connect:** Direct or Cross Connect from Arbor Cloud scrubbing center to customer router. One-time set up fee per 10Gbps router port required. Subsequent monthly recurring fee per 10Gbps or 40Gbps of bandwidth.
- **Arbor Sightline to Arbor Cloud Signaling:** Automated signaling from on-premise Arbor Sightline/TMS deployment to Arbor Cloud for cloud-based mitigation. One-time setup fee for tiered offering from 10 to 5000+ /24 netblocks.
- **Flow Monitoring and Detection:** Automated in-cloud attack detection using IP flow data sent from customer router(s) into Arbor Cloud for mitigation. Available in addition to Arbor Cloud Connect and Essentials+ packages. Annual licensing options from 1 to 30 routers.

On Premise Options

Arbor Availability Protection System (APS) / NETSCOUT Arbor Edge Defense (AED)

- Always on, In-line, packet-based detection and mitigation.
- 2U appliance (mitigation up to 40 Gbps); Virtual appliance (mitigation up to 1 Gbps).
- Cloud Signaling to automatically redirect large DDoS attack traffic to Arbor Cloud.
- 3M+ IoTs to detect and block outbound communication.
- Supported Hypervisors: VMware, KVM; Supported VNF.
- Orchestration: Cloud-Init, Openstack.

Arbor Sightline and Threat Mitigation System (TMS)

- Sightline: Network visibility and DDoS attack detection via IP Flow collection and analysis.
- TMS: Surgical mitigation via appliances (500 Mbps–400 Gbps), 6U chassis (10– 100 Gbps); virtualized in Cisco ASR 9000 Router (10– 60 Gbps) and KVM & VMware hypervisor (1–40 Gbps).
- Cloud Signaling to automatically redirect large DDoS attack traffic to Arbor Cloud.
- Orchestration: Openstack (Heat, Tracker), Ansible, Cisco NSO/ESC, Nokia CloudBand, AWS CloudFormation.



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