

# Arbor Cloud<sup>SM</sup> DDoS Protection Service for Enterprises

## True On-Demand Global DDoS Protection

The trend for DDoS attacks is not favorable for enterprises. Volumetric attacks are growing. The increasing popularity of amplification/reflection 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<sup>SM</sup> DDoS Protection for Enterprises (Arbor Cloud) provides cloud-based traffic scrubbing services tightly integrated with on-premise DDoS mitigation defense. This multi-layered approach to DDoS protection is an enterprise must-have for mitigating today's spectrum of DDoS threats.

### Key Features and Benefits

#### Always On, On-Premise DDoS Protection

Establishes first-line defense against volumetric, state-exhaustion and application-layer DDoS attacks.

#### Over 1 Tbps of In-Cloud Protection

Filters high-volume DDoS attacks using over 1 Tbps of cloud-based traffic scrubbing capacity. IPv4 and IPv6 mitigation support in the cloud.

#### Intelligent, Layered Protection

Integrates the on-premise Pravail Availability Protection System and in-cloud Arbor Cloud protection via Arbor's unique Cloud Signaling<sup>TM</sup> technology.

#### Powered by Global Threat Intelligence

On-premise and Arbor Cloud DDoS protection solutions automatically armed with latest global threat intelligence from Arbor's Security & Engineering Response Teams (ASERT).

#### Global DDoS Protection

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

### 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 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—powered by Arbor's Pravail<sup>®</sup> Availability Protection System—delivers visibility into traffic entering your network, providing always-on DDoS attack detection and mitigation. It offers complete transparency of operation, including providing a view into blocked hosts and even packets, offering the flexibility enterprises need to alter attack countermeasures and thresholds. Unlike other disparate DDoS solutions, the on-premise Pravail Availability Protection System device can "Cloud Signal" the Arbor Cloud to prepare for and begin traffic scrubbing when volumes reach a particular bandwidth threshold. Cloud Signaling significantly reduces the time to mitigate attacks ensuring that you are protected even if your bandwidth becomes fully consumed.

Via layered protection, Arbor delivers a comprehensive, industry-leading DDoS protection solution for your business.

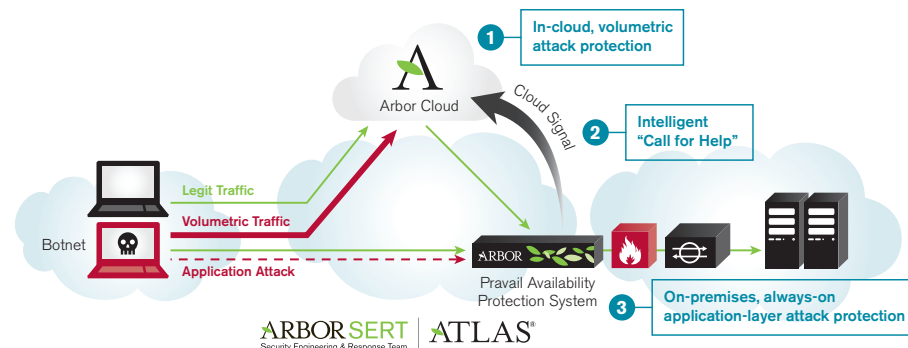


Figure 1 Arbor's Comprehensive DDoS Protection Solution

## Arbor Security Engineering & Response Team (ASERT)

ASERT is a world class team of security researchers, with access to more than 120 Tbps of real-time global Internet traffic for analysis. ASERT uses a sophisticated combination of attack data collection, partner information and analysis tools to discover and analyze emerging Internet threats as well as create targeted defenses to protect from the most sophisticated and advanced attacks.

ASERT provides customers with global intelligence through weekly Threat Briefs that are available on the Arbor Cloud portal. The following information is viewable from the portal:

- Global Threat Map
- Threat Briefs (Arbor Cloud)—Intel in post incident reports—contextualized, customer specific
- Top Threat Sources
- Threat Index
- Top Internet Attacks



### Corporate Headquarters

76 Blanchard Road  
 Burlington, MA 01803 USA  
 Toll Free USA +1 866 212 7267  
 T +1 781 362 4300

### North America Sales

Toll Free +1 855 773 9200

### Europe

T +44 207 127 8147

### Asia Pacific

T +65 68096226

[www.arbornetworks.com](http://www.arbornetworks.com)

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## Powerful, On-Demand, Cloud-Based Traffic Scrubbing

When an attack occurs, speed and agility are critical to business continuity. In the event of a volumetric attack, the on-premise Pravail Availability Protection System serves as the first line of defense detecting that the attack is approaching your bandwidth capacity and signaling for Arbor Cloud to take over. Arbor Cloud then re-routes inbound traffic to one of Arbor's four global scrubbing centers for cloud-based mitigation. The scrubbing centers have collectively over 1 Tbps of DDoS mitigation capacity at your disposal. When this occurs, Arbor Cloud's 24x7 Security Operations Center (SOC) work hand-in-hand with your security/IT teams to quickly block malicious DDoS traffic while returning all of your legitimate traffic back to your data center.

Arbor Cloud provides global IPv4 and IPv6 scrubbing capacity and can handle today's largest and most complex attacks that threaten the availability of critical resources and assets.

## Arbor Cloud Specifications

Arbor Cloud Security Operations Center	
North America (Sterling, VA)	
Cloud-Based Scrubbing Center Locations	Package Options
<b>Combined Cloud Scrubbing &gt; 1 Tbps:</b> <ul style="list-style-type: none"> <li>• East Coast (Ashburn, VA)</li> <li>• West Coast (San Jose, CA)</li> <li>• Central Europe (Amsterdam, NL)</li> <li>• Asia (Singapore)</li> </ul>	<ul style="list-style-type: none"> <li>• Clean traffic-based pricing</li> <li>• Mitigation = 72-hour window of usage</li> <li>• No setup fee for standard provisioning</li> <li>• All prices monthly, unless otherwise noted</li> </ul>
Service Delivery Options	
<ul style="list-style-type: none"> <li>• <b>Arbor Cloud Connect:</b> Provides Standby Cloud Mitigation Support in the event of an attack</li> <li>• <b>Arbor Cloud Essentials:</b> Provides real-time mitigation support up to 12 times per year</li> <li>• <b>Arbor Cloud Essentials+:</b> Unlimited real-time cloud mitigation support</li> </ul>	
Flexible Service Package	
<b>Options Based on Clean Traffic:</b> <ul style="list-style-type: none"> <li>• 100 Mbps</li> <li>• 500 Mbps</li> <li>• 1 Gbps</li> <li>• 2 Gbps</li> <li>• 4 Gbps</li> <li>• 8 Gbps</li> <li>• 10 Gbps</li> </ul>	<b>Included:</b> <ul style="list-style-type: none"> <li>• 12 mitigations per year</li> <li>• BGP: Protect 1/24 with 1 return (GRE) location</li> <li>• DNS: 5 host names protected</li> <li>• Cloud Signaling Alerting and Monitoring</li> <li>• ASERT threat reports, attack analysis and warnings</li> <li>• 24x7 Level 1, 2 and 3 support services</li> <li>• Arbor's "Time to Mitigate" SLA</li> </ul>
Retainer Service Package	
<b>Options Based on Clean Traffic:</b> <ul style="list-style-type: none"> <li>• 100 Mbps</li> <li>• 500 Mbps</li> <li>• 1 Gbps</li> </ul>	<b>Included:</b> <ul style="list-style-type: none"> <li>• Low Monthly Subscription Fee</li> <li>• Includes 1 Mitigation per year (additional Mitigations for a fee)</li> <li>• BGP: Protect 1/24 with 1 return (GRE) location</li> <li>• DNS: 5 host names protected</li> <li>• Cloud Signaling Alerting &amp; Monitoring</li> <li>• ASERT threat reports, attack analysis and warning</li> <li>• 24x7 Level 1, 2 and 3 support services</li> <li>• Arbor's "Time to Mitigate" SLA</li> </ul>
Additional Options Include	
<b>DNS Options:</b> <ul style="list-style-type: none"> <li>• Additional host</li> <li>• SSL certificate (per certificate)</li> <li>• Emergency setup/change (one-time)</li> </ul>	<b>BGP Options:</b> <ul style="list-style-type: none"> <li>• Extra GRE tunnel endpoint</li> <li>• Additional/24 protected</li> <li>• Direct connect to one or more Arbor Cloud scrubbing centers</li> </ul>