

Defiant DDoS Shield for Colocation powered by Juniper®

The fastest way to mitigate DDoS attacks.

Eliminate Over-provisioning – Rapid Attack Recovery – Instant Response

For companies whose unbroken online presence is critical—banks, online retailers and the public sector—Distributed Denial of Service attacks can be catastrophic. The cumulative cost of these malicious, often criminal, attacks means significant financial losses. In fact, in a 2009 Forrester study, the estimates for revenue lost from a single hour of DDoS disruption ranges from \$200,000 to a staggering \$19 million.

When an attack occurs, the first goal is to stop it before it impacts the network. And the second is to get back online as quickly as possible.

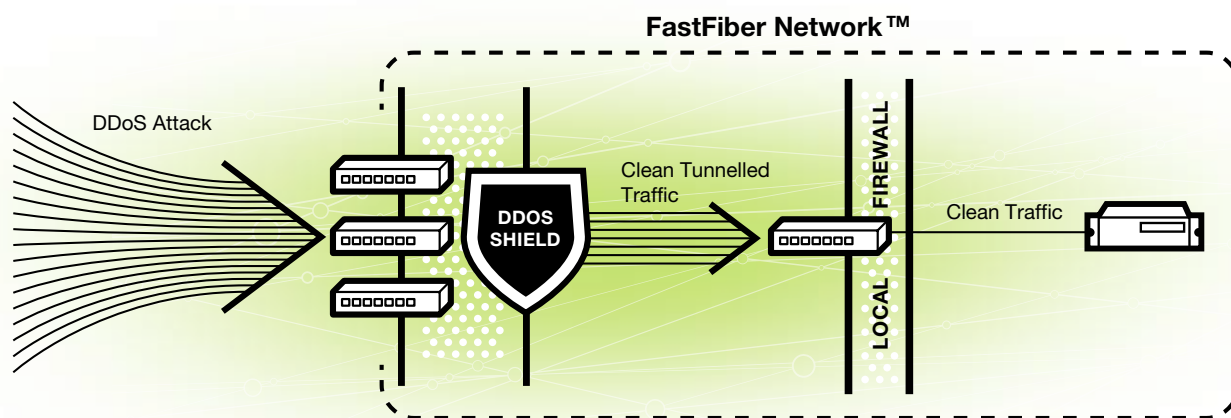
RESPONSE-AS-USUAL ISN'T ENOUGH

Traditional approaches at prevention and mitigation fall short of success. Firewalls can stop basic attacks, but they're not built to detect and stop—on their own—millions of packets per second of dirty DDoS traffic. Many companies resort to the common practice of over-provisioning—loading up on servers, bandwidth and other infrastructure just in case of an attack. All that idle hardware and unused pipe is expensive; and ultimately can never keep up with the always-increasing size of attacks. What's required is a dedicated solution that:

- Eliminates the need to invest in equipment and infrastructure for use only in case of an attack.
- Mitigates the attacks and gets you back online in the fastest time possible.

That's what you get from PEER 1 Hosting **Defiant DDoS Shield for Colocation**.

Based on our FastFiber Network™ infrastructure and geographical diversity, PEER 1 Hosting Defiant DDoS Shield for Colocation distributes and mitigates incoming DoS, DDoS or other fatal network attacks. We utilize cutting-edge carrier class hardware from several industry leading companies, including Juniper Networks® and Radware®, that allows PEER 1 Hosting to maintain stability, reliability and performance during even the most resource-intensive network attacks.



SECURE BANDWIDTH—EFFECTIVE FRONT LINE DEFENSE

Protection and mitigation begins with PEER 1 Hosting Secure Bandwidth at the edge of your network. Using a RioRey® solution in front of the firewall, Secure Bandwidth becomes your first line of defense against attack.

SECURE BANDWIDTH—EFFECTIVE FRONT LINE DEFENSE *continued from previous page*

Once your colocated servers are put into place on our FastFiber Network™, they are protected by Secure Bandwidth—much like the traditional firewall you may be using. When a low-scale attack occurs, Secure Bandwidth provides all the mitigation resources you need, avoiding null routing and ensuring you stay online.

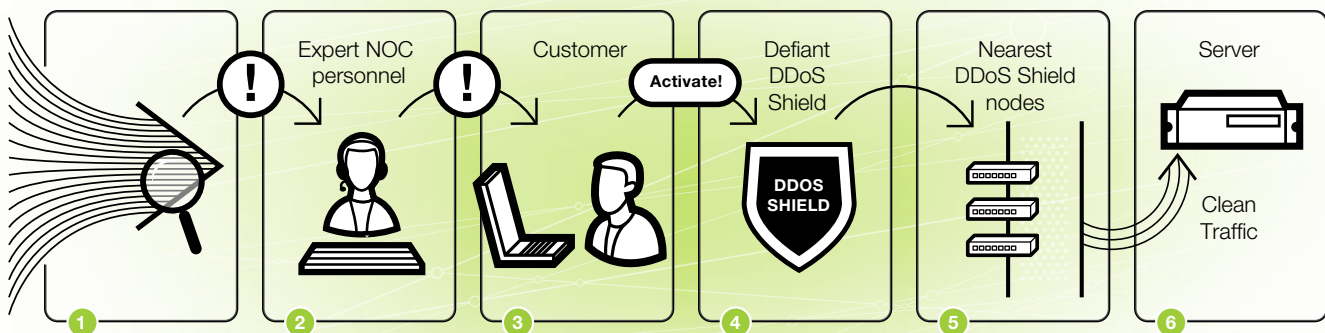
Should the attack be sustained and high-scale, exceeding the Secure Bandwidth thresholds, traffic will then be either null routed, or—upon your request—will be passed to Defiant DDoS Shield for mitigation.

Secure Bandwidth is part of Defiant DDoS Shield for Colocation, or can be put in place separately.

HOW IT WORKS

In the event of a DDoS attack, here’s how Defiant DDoS Shield for Colocation goes to work:

1. All inbound traffic is monitored.
2. When large scale DDoS attacks are detected, our expert NOC personnel are alerted.
3. The NOC staff then alerts you, and you decide if you want to engage the Defiant DDoS Shield.
4. Defiant DDoS Shield diverts the dirty traffic to the nearest Defiant DDoS Shield node.
5. Once the traffic hits the node, it is scrubbed and cleaned.
6. The clean traffic is then placed back onto the wire, directed to the correct Secure Bandwidth node, and delivered to your server.



BENEFITS

Reduced Cost. Eliminate the need to purchase expensive additional bandwidth, servers and other infrastructure as a cushion against attack. Plus, event-based rather than subscription-based pricing further cuts cost.

Continually Monitored. All traffic alerts reach one of our Level II or Level III PEER 1 Hosting Network Operations Center (NOC) team the moment they occur, for immediate and appropriate action.

Optimized Resources. Optimize your network and data infrastructures to eliminate the amount of systems and network administration resources you have to assign.

No Dirty Traffic Charges. Never pay for traffic mitigated by Defiant DDoS Shield for Colocation.

BENEFITS *continued from previous page*

Fastest Time to Mitigation. Leverage our FastFiber Network™ to slash the time it takes for attack mitigation and recovery from hours to minutes.

Confidence and Certainty. FirstCall Support™ means you have to make only one call to us to be certain of a rapid resolution. We do that through our talented network support team with an average of five years tenure with us. And that team is available to all Defiant DDoS Shield customers, every minute of every day.

FEATURES

Fast, Responsive FastFiber Network™. As a PEER 1 Hosting customer, you're already running on, and recognizing the value of, our unsurpassed FastFiber Network™. That network plays an important role in handling DDoS attacks. Because we own the entire network, and have over 1,000 peering relationships with providers that make network adjustments to our specifications, mitigation is swift and complete.

Best Available Infrastructure. PEER 1 Hosting has top tier partnerships with the manufacturers of best-in-breed equipment, including:

- RioRey. Secure Bandwidth uses RioRey solutions to handle low-volume attacks.
- Juniper Networks. We protect the gateway with Juniper Networks Integrated Security Gateways.
- RadWare. Sustained attack protection is handled by Radware devices.

Regular Traffic Reports. On request, we will provide complete clean and dirty traffic graphs.

Streamlined Provisioning Process. Our security team will work with you to design and implement the PEER 1 Hosting Defiant DDoS Shield configuration that meets your technical and business requirements.

Two Levels of Attack Handling

- Initial attacks are handled at the edge of the network through the local Secure Bandwidth node.
- Large-volume and sustained attacks are handled by Defiant DDoS Shield.

Robust Thresholds

Secure Bandwidth

- Handle up to 500 Mbps of total traffic per customer.
- Handle up to 100,000 packets per second per customer.

Defiant DDoS Shield

- Handle up to 4,000 Mbps of total traffic.
- Handle up to 2 million packets per second.

Multi-technology Defense. PEER 1 Hosting Defiant DDoS Shield for Colocation combines signature detection, behavioral based real-time signatures and SYN cookies mechanisms to challenge new connections before establishing a session with the servers.

CONFIGURATIONS

Some configuration activity will be required (for example, to ensure your firewall doesn't block our IPs). We will work with you every step of the way.

PRICING

Pricing is based on the number of hours of mitigation you need.

CONTACT US TODAY

- Call us at **1.866.579.9690**
- Go to **www.peer1.com** and chat with an online sales assistant.