Symantec™ Complete Website Security with DDoS protection

Distributed Denial of Service Protection

Symantec Complete Website Security's Distributed Denial of Service (DDoS) protection helps you mitigate any attempt to overwhelm your Web servers and applications with excessive traffic from multiple sources which would result in a denial of service to legitimate users.

Most common potential targets are from industries such as banking, finance, e-commerce, or payment gateways. Yet in recent times there has been a massive rise in DDoS attacks against government organizations, telecom providers, airlines, health services, educational institutes and other organizations that traditionally hold large volumes of customer data. In fact, any organization that connects to the Internet has now become vulnerable to such cyber-attacks. The end result could be severe: data theft and loss, revenue loss, high recovery costs, deprecated user experience and ultimately loss of customer's trust in the brand.

Mitigate the largest and smartest attacks

Network layer 3 and 4 volumetric attacks that try to saturate or bring your network down come in two varieties:

- High bitrate attacks measured in Mbps (megabits per second) that try to consume all available network bandwidth
- High packet rate attacks measured in Mpps (thousands of packets per second) that attempt to overwhelm networking gear.

Both types of attacks are almost always performed by botnets.

Application layer attacks try to overload your servers by sending large numbers of resource-intensive server requests with the goals of slowing, hanging or crashing a Web application. These DDoS attacks are targeted at HTTP servers in particular and consist of seemingly legitimate requests.

Application layer DDoS attacks are measured in requests per second (RPS) with each request attempting to extract as much processing power from the server as possible. Like network layer DDoS attacks, application attacks also typically rely on botnets. But because they utilize HTTP requests, application layer attacks can be difficult to detect and prevent without denying legitimate users and bots access during an attack.

Key benefits

- 2 Tbps+ global cloud network absorbs the largest attacks with specialized support for massive volumetric attacks
- Advanced algorithms solve the most difficult application layer attacks without challenging legitimate users
- Protects Web, DNS, network devices and application servers
- Can be deployed for a single server or an entire class C network
- Supports Anycast DNS and Unicast DNS routing
- Supports on-demand BGP routing
- Monitors attacks as they happen
- 24/7 operations center
- Part of a comprehensive solution that includes web security and content delivery
- Powerful backbone across globally distributed data centers
- Specialized support of massive SYN flood, DNS targeted, and DNS amplification attacks
- Real-time dashboards to monitor and analyze attacks as they happen

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We go beyond

While volumetric attacks can be solved with a brawny network, it takes brains to solve application layer attacks. Complete Website Security with DDoS Protection employs an effective five-ring approach to solve application layer attacks while letting legitimate users right through.

Customize DDoS protection for your ecosystem

Different levels of DDoS protection subscriptions are available to meet the distinctive requirements of all your online assets. Offered by server type, by attack level protection (Mbps and Mpps), by network requirements (Class-C and GRE tunnels) and by availability (on-demand or always-on), Complete Website Security's DDoS protection fits into any environment including Infrastructure Protection for individual IP addresses or for your entire Class C range.

Website protection

- Always-on
- Protects HTTP/HTTPS from network and application layer attacks
- Activate by CNAME – domain or IP address
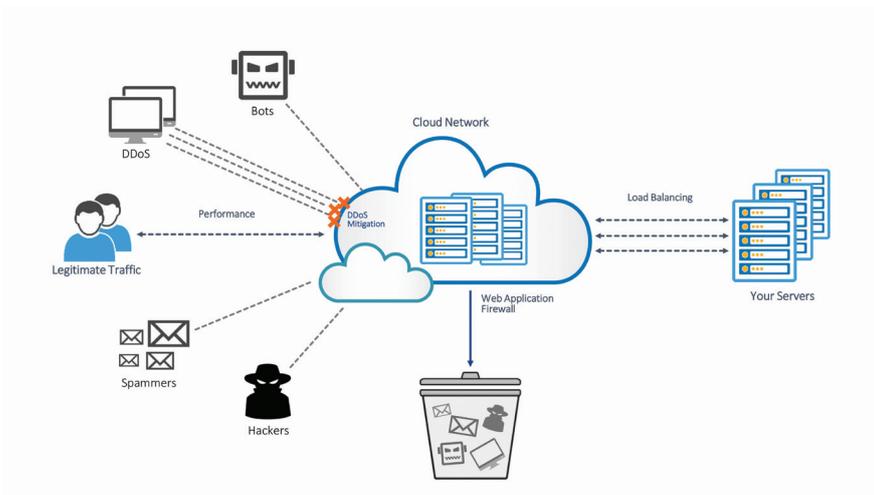- Integrated CDN for web acceleration

Figure 1: Cloud-based mitigation

Your web traffic is directed through the global network that includes an integrated Content Delivery Network to improve response time for visitors to your site. Website protection activation can be completed in minutes by changing your website DNS settings, even when you're under attack. No on-site hardware or software is needed and no changes to your hosting provider or applications are required. Complete Website Security's DDoS protection stops all DDoS attacks at our network and only delivers legitimate users to your website. Unlike other solutions, our multi-layer approach to DDoS mitigation does not rely on splash screens or CAPTCHA challenges and we don't reject legitimate users as attackers, even when you are under heavy attack.

Comprehensive protection against

- TCP SYN+ACK
- TCP FIN
- TCP RESET
- TCP ACK
- TCP ACK + PSH
- TCP fragment
- UDP
- ICMP
- IGMP
- HTTP flood
- Brute force
- Connection flood
- Slowloris
- Spoofing
- DNS flood
- Mixed SYN + UDP or ICMP + UDP flood
- Ping of death
- Smurf
- Reflected ICMP and UDP
- Teardrop
- Zero-day DDoS attacks
- Attacks targeting Apache, Windows or OpenBSD vulnerabilities
- Attacks targeting DNS servers
- And more…

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Complete Website Security:

Backed by one of the global leaders in cyber security, Symantec Complete Website Security harmonizes and fortifies your website security with visibility, agility, and best-in-class security to protect your business, brand, and customers with confidence.

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