

# FLASHBOX

## DDoS PROTECTION: DDoS Attacks: An Overview

Protect and secure your business against DDoS attacks.



Definition of a DDoS Attack

A DDoS (distributed-denial-of-service) attack is one of the most significant and popular kinds of cybersecurity threats. A DDoS attack involves a deliberate targeting of your computer, infrastructure or application, aimed at preventing access to your network. DDoS attacks are ever easier to launch with toolkits available to purchase online. Sophisticated attacks generate not only Layer 4 volumetric assaults, but also pinpoint Layer 7 and DNS services, and can be harder to detect.

### The Three Main Kinds of DDoS Attack



#### Volumetric Attacks

The goal of a volumetric attack is to overwhelm the bandwidth of the attacked surface by sending so much traffic (usually via a botnet) that it takes the site down. Volumetric attack types include DNS floods, ICMP floods, and UDP floods. Attack magnitude is measured in Bits per second (Bps). They are the most common attack type.



#### Protocol Attacks

Protocol attacks, also known as state-exhaustion attacks, are aimed at consuming server resources, or other kinds of infrastructure, such as load balancers and firewalls. Protocol attack types include SYN floods, ping of death and fragmented packet attacks. Attack magnitude is measured in Packets per second (Pps).



#### Application-Layer Attacks

Application-layer attacks target web application packets to disrupt the communication of data between hosts and crash web servers. Attack types include GET/POST floods, HTTP floods and low-and-slow attacks. They are often highly effective.

### Flashbox Protection Options

#### Cloud Protection



Benefit from our singular cloud protection solution underpinned by AWS' global infrastructure. Protect your website, infrastructure & applications at scale.

#### On Premises Protection

Protect your website, infrastructure & applications with zero latency. Benefit from maximum analytics and critical human expertise.

#### Hybrid Protection

On-premises protection at the appliance level combined with top-tier cloud-based mitigation. Guarantee service - protect your network against all threat types.

#### Professional Management & Planning Services

Let our team of experts manage your top-level DDoS solution, custom-built for your business.. Our professional services can help you design, procure, budget, implement and manage your needs.

**“In Q1 2018, we observed a significant increase in both the total number and duration of DDoS attacks against Q4 2017.”** - Kaspersky Lab US

## What are the Business Consequences of DDoS?

The consequences of a DDoS attack on your enterprise encompass financial, legal and intangible risks. **Financially, significant revenue will be lost** due to downtime, remediation and potential compensation costs. **There can be a legal risk** if confidential user data is compromised. **Intangible risks can also be significant**, such as damage to your business’ reputation for trustworthiness and reliability.



## How Does Flashbox Mitigate the Consequences of DDoS?

### Volumetric Attacks



Flashbox counters damaging volumetric attacks through its singular web application delivery and security protection platform. Full integration with AWS gives Flashbox access to a global network of scrubbing centers that scale when necessary to guarantee that your services can withstand the largest volumetric attacks.



### Protocol Attacks

Flashbox counters protocol or state-exhaustion attacks through its cloud and/or on-premises solutions by blocking bad traffic before it ever reaches your site, leveraging cutting-edge technology that enables rapid differentiation between legitimate and malicious traffic.



### Application-Layer Attacks

Application-layer attacks are mitigated by continuous monitoring of the traffic to your site and immediate troubleshooting of security issues, such as blocking known malicious bots, and challenging unknown or suspicious actors with CAPTCHA or Cookie challenges and JS test.

## Why Flashbox for your Comprehensive DDoS Protection?

One of the only true defenses against unknown network threats is expertise. With proactive monitoring, precise threat assessments and timely responses, Flashbox has only one mission: to keep your data safe and secure, 365/24/7.

We offer four deployment options to suit your business requirements. Contact us today to find out how we can keep your business secure.

## Key Benefits of Flashbox Protection

- Comprehensive DDoS Protection
- 365/24/7 Monitoring & Visibility
- Real-time Threat Detection
- Multivector Protection
- Timely Deployment
- Critical Expertise
- Fully Managed Services



## FLASHBOX NETWORKS

### CORPORATE HEADQUARTERS

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