DDoS attacks growing in size
Distributed denial of service (DDoS) attacks are getting bigger and more disruptive. These attacks can outstrip aggregate bandwidth and computing resources of any data center serving critical users. With the increasing size of the average DDoS attack, on-premise DDoS solutions no longer suffice and are generally not practical or cost effective. Edge clouds offer a powerful and scalable alternative due to their robust networks, high capacity, and distributed application resources.

Fastly DDoS mitigation
Fastly offers a multi-terabit-per-second, globally distributed network to absorb even the largest DDoS attacks. Our DDoS mitigation service protects against highly disruptive Layer 3 and Layer 4 DDoS attacks, as well as more complex Layer 7 attacks. Our network is built on a flexible Varnish open source software, allowing us to make configuration changes on the fly, responding to attacks in real time and filtering out malicious requests at the network edge. In addition, we facilitate origin cloaking through multiple methods—we can hide your origin IP or prevent direct access to it altogether. This prevents your cloud-based DDoS protection from being easily circumvented.

Always-on DDoS mitigation
Fastly’s DDoS mitigation service provides an always-on security solution. This approach uses in-line scrubbing to monitor traffic and remove suspicious requests at the point of presence (POP) without routing through specialized servers. Our entire network acts as a scrubbing center for DDoS attacks, offering you the same level of DDoS mitigation for both encrypted and unencrypted traffic.

Superior protection at all layers
Our edge-based filtering technology provides broad DDoS protection, automatically blocking all types of highly disruptive Layer 3 and Layer 4 attacks at the edge before they hit your origin. To protect your network from complex application (Layer 7) attacks, our edge cache nodes act as enforcement points. Our security experts can apply rules using Varnish Configuration Language (VCL) to inspect the entire HTTP/HTTPS request, and block based on criteria (headers, cookies, request path, client IP, geo location etc.). We also give you the option to customize rules to fit your security needs.

BUSINESS BENEFITS:
• Safeguard your website
  Reduce downtime and risk to brand damage with rapid response to DDoS threats and events
• We help you first
  Decide later on payment model
• Overage protection
  Unlimited overage protection always included
• Cost-effective solution
  Single vendor for DDoS protection and edge cloud services
DDoS MITIGATION (CONTINUED)

Real-time visibility and control
Fastly provides real-time access to data logs and historical statistics. You can identify suspicious activity, such as unusual traffic spikes from a DDoS attack, and troubleshoot right away. We empower you to make real-time configuration changes using Varnish Configuration Language (VCL). With our highly modified and improved Varnish, we enable you to apply custom DDoS rules in under a second globally for powerful and rapid mitigation. With full access to HTTP requests, VCL can be used to create rules based on any attribute of the request or response.

We help you first
We give our customers flexibility and control in making an economic decision after an attack. If you are under attack we will help you, no questions asked. Afterwards you can choose to enroll in our DDoS Mitigation service or pay for overages—based on what the actual billing is rather than pressuring you to select upfront and to try to predict the more cost-effective option.

Flexible service options
To take advantage of our powerful DDoS mitigation, you can choose one of our two options as an add-on to your CDN service. Both plans provide DDoS protection of HTTP (port 80) and HTTPS (port 443, TLS) services with unlimited overage protection.

- **DDoS protection and mitigation service**: Fastly offers a 12-month service commitment for customers who want to minimize their risks with continuous protection on an annual basis.

- **DDoS threat response service**: Fastly also offers a month-to-month DDoS protection of HTTP and HTTPS services. This mitigation service is available for immediate response to a DDoS threat or ongoing DDoS attack.

Key capabilities
- **High-network capacity**: Multi-terabit-per-second network capacity at the edge with large transactional capacity per identical cache node.

- **Broad DDoS protection**: Secure your origin server from multi-layer attacks.

- **Real-time control**: Custom DDoS rules can be crafted with VCL to force a particular client to be served from cache during a DDoS attack.

- **Highly automated**: The majority of configurations can be done via API, unlike most security systems that rely on CLI.

- **High-performance**: Security is tightly integrated with our edge cloud platform, so performance is never compromised.

- **Dedicated security team**: 24×7 cyber security expertise and support.

COMPREHENSIVE DDoS PROTECTION
- DNS flood
- HTTP flood
- UDP
- ICMP (NTP, SSDP, etc.)
- IGMP
- Layer 7 DNS
- Mixed flood (SYN + UDP or ICMP + UDP)
- Ping of Death
- Slowloris
- Smurf
- TCP SYN+ACK
- TCP FIN
- TCP Reset
- TCP ACK
- TCP Fragment
- Reflected ICMP + UDP
- Teardrop
- And more...