MYRA

PRODUCT SHEET

Myra DDoS Protection

Protect your websites, web applications and APIs efficiently against cyberattacks – without any additional expenses for software or hardware. Myra DDoS Protection is quick and easy to implement. Once set up, the solution protects you fully automatically against DDoS attacks and therefore increases the uptime of your business processes.

Malicious requests and attacks at the application layer (layer 7) have been on the rise for several years. Analysis by Myra's Security Operations Center (SOC) showed a 25 percent year-over-year increase in Layer 7 attack activity for the full year 2024. In 2023, the increase was 60 percent, and in 2022, it was as high as 178 percent.

- **BSI-KRITIS-qualified**
  DDoS protection against application-level attacks, e.g., HTTP/S GET flood, HEAD flood, POST flood and "low and slow" attacks
- **Upstream monitoring**
  Myra monitors your upstream 24/7 and automatically notifies you of any communication problems with the origin server.
- **Advanced GeoIP blocking**
  The Myra DDoS Protection can block suspicious clients based on GeoIP, region and other IP characteristics.
- **Rate limiting**
  Determine the number of web requests that conspicuous IP addresses are allowed to make within the time period you specify.

WHY MYRA SECURITY?

Comprehensive certification
Our technologies, services and processes are regularly audited and certified to the highest standards.

Made in Germany
As a company headquartered in Germany, Myra is legally compliant with the GDPR.

Local 24/7 support
Get professional help from our IT experts from the Myra SOC (Security Operations Center).

This is what Myra DDoS Protection does for you

The cloud-based Myra DDoS Protection hides and secures your websites, internet portals and APIs behind a specially developed filter system. This makes it impossible for attackers to detect the servers running your applications. Harmful traffic flows are blocked by the multi-level filter layers. Valid requests continue to reach your infrastructure as usual via a redundant HTTP/S reverse proxy.

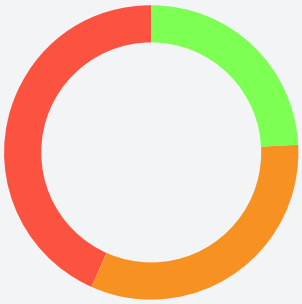
Highly efficient DDoS protection without implementation barriers

Myra DDoS Protection is a Security as a Service solution that requires no additional software or hardware to operate. The technical setup is possible in two ways: Either the DNS record is adjusted via the CNAME record or the authoritative DNS server is transferred to Myra using an import of existing zones. As soon as the customer's SSL/TLS certificates have been uploaded to the Myra API or uploaded to the Myra Dashboard (WebGUI), the SSL/TLS connection can be terminated and a deep packet inspection can be performed.

In close coordination with the customer, the Myra SOC finally takes over the configuration of the filter rules. Customized filters allow granular traffic control to efficiently block malicious or suspicious requests.

Why attackers focus on layer 7 attacks

3 out of 4 companies fail to defend against layer 7 attacks



- **Successful:** attack mitigated, maximum mitigation time of 30 seconds
- **Problematic:** attack either only partially or manually mitigated, high impact for at least 10 minutes
- **Failed:** no mitigation

zeroBS

Cybercriminals are increasingly targeting the outermost network layer with complex attacks, because defenses still cause enormous difficulties for many companies there – as a study by the pentesting experts at zeroBS revealed.

DDoS attacks on layer 7 are based on already established connections. In particular, HTTP GET, POST and other flood attacks as well as „low and slow" attacks are popular among cybercriminals. They aim to penetrate the weakest component of an infrastructure and thus cause an overload of the web application.

HTTP GET flood attacks, for instance, load web servers with HTTP requests that target pages with large load volumes. This overloads the server and it can no longer process legitimate requests. For the protection systems for layer 3 and 4, which are often implemented by hosters by default, such attacks cannot be differentiated from conventional user requests. Only deep packet inspection on layer 7, as performed by Myra DDoS Protection, enables effective identification of such attacks.

Key benefits and features at a glance

+ **For critical infrastructure qualified IT security**
Highly efficient protection against DDoS attacks such as HTTP/S GET flood, HEAD flood, POST flood or „low and slow“ attacks.

+ **Upstream monitoring**
Myra monitors your upstream 24/7 and automatically notifies you of any communication problems with the origin server.

+ **Advanced GeoIP blocking**
The Myra DDoS Protection can block suspicious clients based on GeoIP, region and other IP characteristics.

+ **Rate limiting**
Determine the number of web requests that conspicuous IP addresses are allowed to make within the time period you specify.

+ **Detailed reporting**
After mitigation of an attack, you receive individual reporting on the duration, type and strength of the attack.

+ **SSL/TLS cipher management**
Myra ensures a constantly updated SSL/TLS configuration according to the latest security standards.

+ **Broad technology support**
Myra supports modern web technologies such as HTTP/2, WebP, ChaCha20, WebSocket and WebRTC.

+ **Automatic notification**
In the event of an attack, the system automatically informs you according to previously defined escalation and notification levels.

+ **IPsec (optional)**
Encrypted forwarding of clean traffic for increased security requirements

Seamless integration within Myra Application Security

DDoS Protection is part of Myra Application Security and can therefore be individually extended with additional performance and security features. All solutions work seamlessly together and are conceptually aligned. These include:

Hyperscale WAF
Attackers target vulnerabilities in web applications to infiltrate vulnerable systems and manipulate, steal or delete sensitive data. The Myra Hyperscale Web Application Firewall (WAF) blocks malicious requests before they reach your servers.

Deep Bot Management
About half of the world's web traffic is generated by bots. Myra recognizes bot requests by identifying them with a unique fingerprint. This allows you to respond optimally to each request, control automated requests precisely and improve the performance of your website.

Secure DNS
To ensure the resilience of critical web applications, name resolution protection is critical. The hardened Myra Secure DNS relies on leading technologies to protect your domains from cyber-attacks and ensure maximum performance. Entire DNS zones can be managed within the Myra secure infrastructure.

High Performance CDN
High speed, low latency, and flexible scalability: the demands on modern web applications are growing more and more. With Myra High Performance CDN you achieve a first-class user experience thanks to leading technologies.

Push CDN
Move static elements of your website directly to the Myra Push CDN and benefit from geo-redundant high availability, enhanced performance and advanced resilience.

Analytics Data Lake
Comprehensive monitoring and reporting are essential to optimize web resources. Myra Analytics Data Lake allows you to retrieve, search and analyze log data in near real-time.

Video Streaming
Today's users expect to be able to access video content anytime, anywhere. Myra seamlessly optimizes your streams in real time as bandwidths, connection speeds, and network types change.

Certificate Management
SSL/TLS ensures secure data transmission, unique authentication as well as data integrity and therefore more user trust. With Myra Certificate Management, you can automatically issue and manage SSL/TLS certificates (DV).

Multi Cloud Load Balancer
Low latency is critical for a first-class user experience on the Internet. Myra ensures it through ideal distribution of incoming requests, optimal load balancing across any number of backend servers, and reduced response times.

Industry-leading security, performance and compliance

- **BSI-KRITIS-qualified:** The BSI catalog includes 37 comprehensive criteria that DDoS providers must meet to qualify for the protection of critical infrastructure (“KRITIS”). Myra is one of the leading security service providers worldwide, meeting all 37 criteria.
- **Comprehensive certified quality:** ISO 27001 certification based on IT-Grundschutz, BSI-KRITIS certified, BSI C5 Type 2, DIN EN 50600 certified datacenters, PCI-DSS certified, IDW PS 951 Type 2 (ISAE 3402) audited service provider, ISO 9001, Trusted Cloud
- **Special cluster for critical infrastructures:** GDPR-compliant, geo-redundant server infrastructure in Germany
- **Made in Germany:** full technical control, permanent development, 24/7 full service support

BSI-certified IT security

Myra Technology is certified by the German Federal Office for Information Security (BSI) in accordance with the ISO 27001 standard based on IT-Grundschutz. In addition, we are one of the leading security service providers worldwide to meet all 37 criteria set by the BSI for qualified DDoS protection providers. We are setting the standard in IT security.

Zertifiziert vom Bundesamt für Sicherheit in der Informationstechnik (BSI) nach ISO 27001 auf Basis von IT-Grundschutz | Zertifiziert nach Payment Card Industry Data Security Standard (PCI DSS) | KRITIS-qualifiziert nach §3 BSI-Gesetz | BSI-C5-Testat Typ 2 | Geprüfter Trusted Cloud Service | IDW PS 951 Typ 2 (ISAE 3402) geprüfter Dienstleister | KRITIS-Betreiber gemäß § 8a Abs. 3 BSIG | Qualitätsmanagement nach ISO 9001

Myra Security is the new benchmark for global IT security

Myra monitors, analyzes and filters malicious Internet traffic before virtual attacks cause any real damage. Our certified Security as a Service platform protects your digital business processes from multiple risks such as DDoS attacks, botnets and database attacks.

Made in Germany

We Protect What Matters. In the Digital World.

Want to learn more about how our solutions can increase your revenue, minimize your costs, and protect your applications from malicious attacks?

Our team of experts is ready to help you develop a customized solution for your business.
Schedule a no-obligation consultation today!

Cyber attacks are expensive, a non-binding conversation costs nothing.

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