MYRA

PRODUCT SHEET

Myra Network DDoS Protection (hybrid)

Unlock new revenue opportunities and set yourself apart from the competition in the long term: With Myra Network DDoS Protection (hybrid), you can offer your end customers – from SMBs to large enterprises – a ready-to-market, compliance-focused protection solution that combines local precision with more than 50 Tbps of cloud mitigation capacity.

Increasingly powerful volumetric DDoS attacks and growing regulatory requirements pose enormous challenges for companies in Europe. At the same time, many existing network protection solutions are unsuitable for smaller infrastructures because they technically require a /24 network. This makes it particularly difficult for SMEs and regulated organizations with small networks to access professional DDoS protection. Myra Network DDoS Protection (hybrid) delivers enterprise-grade security regardless of customer size and combines on-premises protection with automatic cloud failover to defend against high-volume attacks.

- **Hybrid Mitigation**
  On-premises precision plus cloud scalability with automatic failover
- **50+ Tbps Cloud Capacity**
  Highly scalable cloud scrubbing for attacks exceeding uplink capacity
- **Compliant by Design**
  Meets NIS-2, DORA, and GDPR requirements—including reporting for audit processes
- **Scalable Infrastructure Protection**
  Protection for individual IP addresses and small subnets (< /24) up to enterprise networks – IPv4 and IPv6
- **Fully automated real-time mitigation**
  BGP-based detection and immediate mitigation without manual intervention
- **Professional Services**
  24/7 emergency support from the Myra Security Operations Center (SOC)

WHY MYRA SECURITY?

Highly certified for critical infrastructure
Technologies, services, and processes audited and certified to the highest standards – developed for critical infrastructure

Made in Germany
Digitally sovereign, legally compliant GDPR-compliant solutions – from Germany for Europe

Premium 24/7 support
Get professional help from our dedicated team of IT experts from the Myra SOC (Security Operations Center)

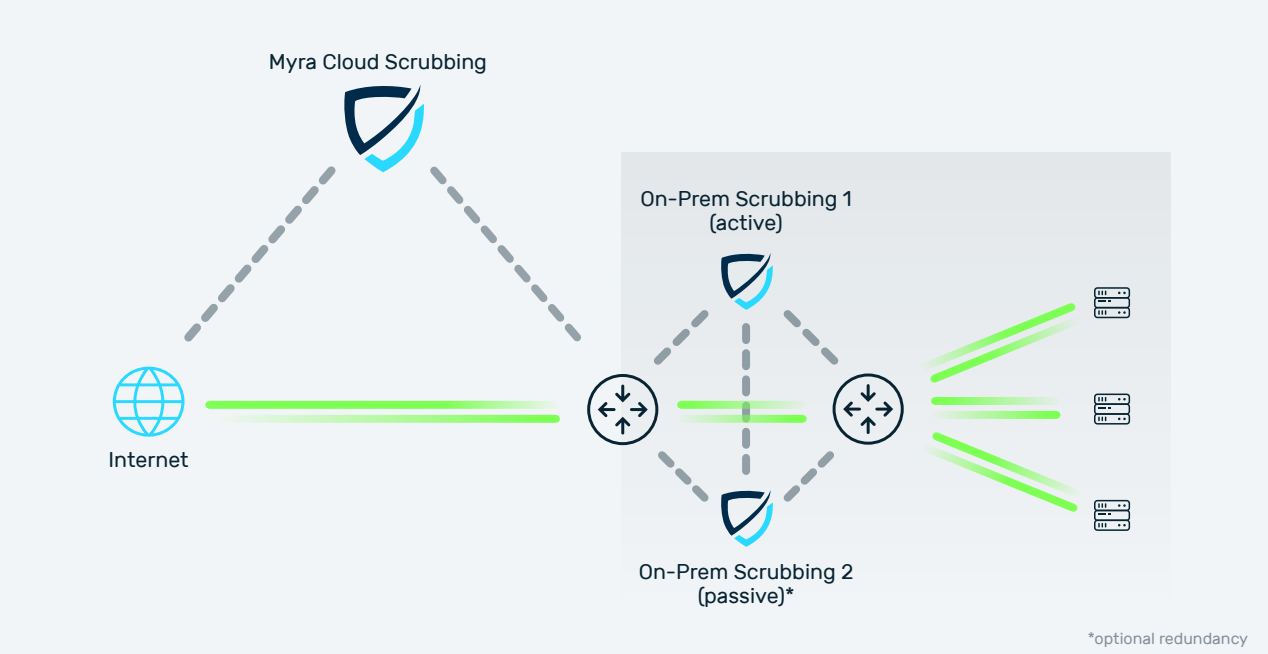
Automated Protection Features Ensure Maximum Uptime for Your Customers

Myra Network DDoS Protection (hybrid) is a BGP-based infrastructure protection solution that defends against all common types of denial-of-service attacks on OSI layers 3 and 4. These include ICMP floods, UDP fragmentation, UDP reflection, UDP amplification via DNS, NTP, rpcbind, SSDP, as well as SYN floods, ACK floods, and RST floods.

During normal operation, the active on-premises unit analyzes and filters traffic directly in your data center. If the thresholds defined for your customers (based on packet rate and/or volume) are exceeded, mitigation occurs fully automatically – without manual intervention or additional staff resources. Additional defensive measures, such as blackholing, can also be initiated automatically.

Cloud-Based Scaling Ensures Highly Scalable DDoS Protection

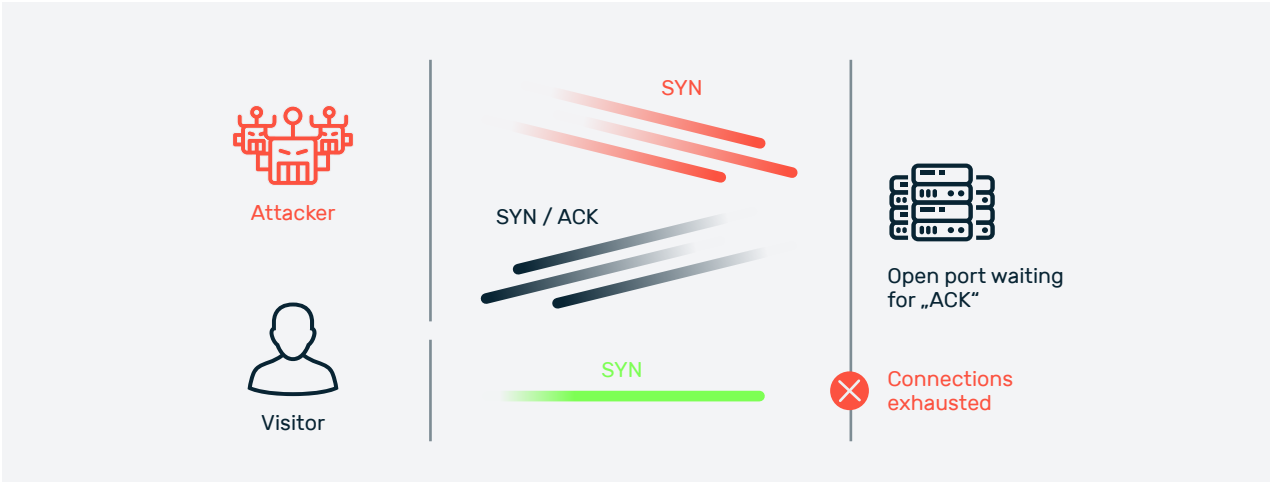
As soon as a volumetric attack exceeds the local capacity limit – that is, your network's uplink bandwidth – the system automatically and seamlessly scales up to Myra Cloud Scrubbing, which offers more than 50 Tbps of defense capacity. The solution consists of a combination of redundant, Myra-operated scrubbing center units in your data center and the proven Myra Cloud Scrubbing from EU-sovereign infrastructure. This ensures that protected infrastructures remain fully accessible even under massive DDoS attacks and protects your end customers from costly downtime.



These Attacks Put Your Customers at Risk

All Layer 3/4 attacks overwhelm the target with either very high bandwidth or immense packet rates. As a result, legitimate traffic can no longer find a data channel through which to establish communication.

Example: SYN/ACK Attack
In a SYN/ACK attack (or SYN and ACK floods), a botnet controlled remotely by attackers bombards a server with SYN packets. These are normally part of the so-called three-way handshake, which occurs when a TCP connection is established between a client and a server. A SYN/ACK attack triggers a massive number of half-open connections by sending many SYN packets but no ACK packets, which are required to complete the connection. The result: no new connections can be established, and the website becomes inaccessible.



Myra Network DDoS Protection (hybrid) automatically detects SYN/ACK attacks and other types of DDoS attacks and filters out malicious traffic in real time – initially locally on the on-premises appliance, and in the event of a significant increase in traffic, additionally via Myra Cloud Scrubbing. This ensures that your end customers' origin servers do not experience any additional load, even during a severe attack.

The Key Benefits and Features at a Glance

+ **Certified for critical infrastructure protection**
Field-proven DDoS defense against volumetric attacks at the network level.

+ **Hybrid Mitigation**
Combination of on-prem protection within your own network and cloud scrubbing for high-volume attacks.

+ **Protection for Small Networks**
Coverage of single IPs and small subnets without the /24 limitation.

+ **IPv4 and IPv6 Support**
Protection for diverse customer environments and network architectures.

+ **Automated Real-Time Detection**
Predefined thresholds and automated mitigation for fast response without manual intervention.

+ **Scaling Beyond Uplink Limits**
Cloud Scrubbing extends local defense with highly scalable capacity whenever needed.

+ **Self-Service Dashboard**
Intuitive administration and transparency for providers and end customers.

+ **Integrated Reporting**
Automated attack analyses and verifiable reports support audit and compliance processes.

+ **Compliant by Design**
Tailored for regulated sectors – compliant with NIS 2, DORA, GDPR, and industry-specific security standards.

+ **Made in Germany**
Development and operations in Germany strengthen digital sovereignty and trust among partners and end customers.

Sovereign, Secure, Scalable: Cybersecurity from Germany

- **Built for Europe's critical infrastructure:** Expand your digital sovereignty with highly efficient solutions for protecting networks, applications, and APIs – without any non-European dependencies.
- **Comprehensive certified quality:** Benefit from industry-leading compliance with the highest standards (BSI ISO 27001 based on IT-Grundschutz, KRITIS-qualified according to Section 3 BSI Act, BSI C5 Type 2, PCI DSS-certified, IDW PS 951 Type 2 (ISAE 3402), KRITIS operator in accordance with Section 8a (3)BSI Act, ISO 9001, Trusted Cloud).
- **GDPR-compliant & Made in Germany:** From technology development and management to geo-redundant data centers – we secure your digital capacity to act entirely from Germany.
- **24/7 premium support:** Your personal full-service support from our IT experts in the Myra SOC. IT-Fachleute im Myra SOC (Security Operations Center).

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 for digital network and application security.

ISO 27001 BSI zertifiziert auf der Basis von IT-Grundschutz Zertifikat Nr.: BSI-IGZ-0479-2021 | PCI DSS Certified | BSI KRITIS-qualifiziert | BSI C5 Type 2 | Trusted Cloud | ISAE 3402 IDW PS 951 Type 2 | ISO 9001:2015

Certified by the Federal Office for Information Security (BSI) in accordance with ISO 27001 on the basis of IT-Grundschutz | Certified in accordance with Payment Card Industry Data Security Standard (PCI DSS) | Qualified for critical infrastructure in accordance with Section 3 BSI Act | BSI C5 Type 2 | Certified Trusted Cloud Service | IDW PS 951 Type 2 (ISAE 3402) audited service provider | KRITIS operator in accordance with Section 8a (3) BSI Act | ISO 9001 quality management

Myra Provides You with the Basis to Succeed in a Digital World

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, bot networks, and database attacks.

DKB Deutsche Kreditbank AG | 1&1 versatel | msc Munich Security Conference | Barmenia EINFACH. MENSCHLICH.

Sparkasse | MEDIALINE | ALEPH ALPHA | Baden-Württemberg Staatsministerium

Made in Germany

Myra Protects What Matters. In the Digital World.

Would you like to learn more about how our solutions can help you increase your revenue, minimize your costs, and protect your applications from malicious attacks? Our experts will be happy to advise you individually and develop a customized solution for your company. Schedule a no-obligation consultation today.

Cyberattacks Are Costly, a Non-Binding Consultation Costs Nothing.

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