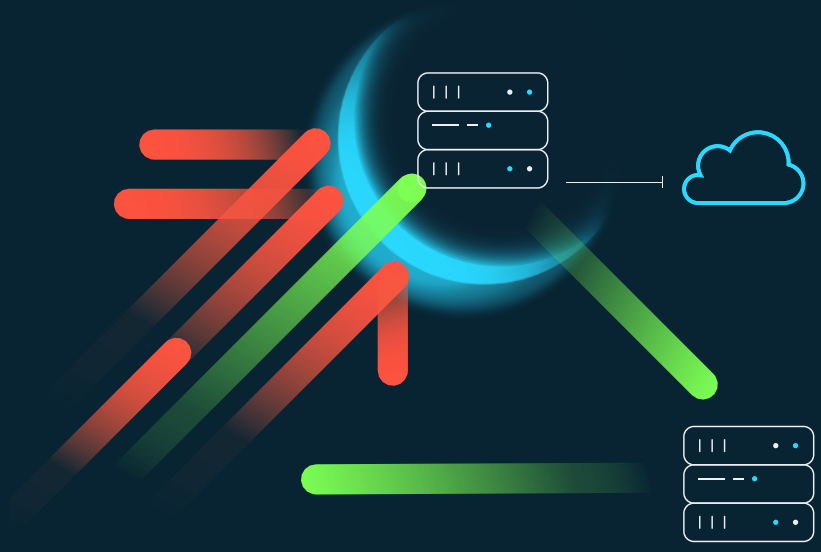
MYRA



PRODUCT SHEET

Myra Cloud Scrubbing

Benefit from certified protection for your data centers and IT infrastructures. The automatic traffic filtering of Myra Cloud Scrubbing prevents costly downtime and increases the uptime of your business processes sustainably.

Volumetric DDoS attacks on IT infrastructures are increasing in frequency and strength year after year. Massive damage to operators is the result. According to an Allianz analysis, external events such as DDoS attacks account for 85 percent of global cyber insurance losses. Myra Cloud Scrubbing secures enterprise infrastructures from such threats at layer 3 and 4.

- **Qualified security for critical infrastructure**
  Highly efficient DDoS protection for mitigating a wide range of attack vectors
- **On-demand or always-on**
  Demand-driven Mitigation based on real-time monitoring or permanently active protection
- **Individual configuration**
  Thresholds, IP prefixes, measures, flow systems
- **Automatic or manual mitigation**
  You can trigger mitigation either automatically or manually via dashboard (WebGUI), API call or terraform provider.

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 how Myra Cloud Scrubbing protects your data centers

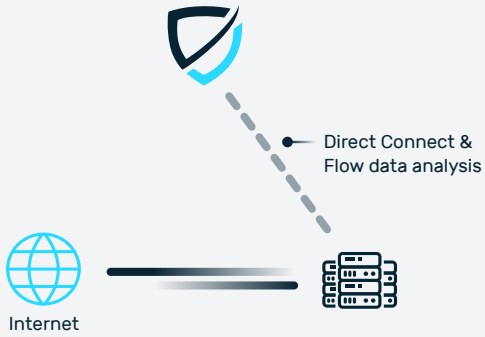
In the event of an attack, all traffic is redirected to the Myra infrastructure through an automatically triggered „more specific BGP announcement“. The Myra Scrubbing Center filters out and discards the malicious attack traffic, while the valid clean traffic continues to be delivered to the destination server. Once the attack is over, the BGP announcement is withdrawn. The data packets then flow directly to the customer infrastructure again and there is no more filtering by Myra.

Identify and defend against attacks reliably – fully automated or manually

In on-demand mode, Myra Flow Monitoring monitors traffic flows in real-time. If the threshold values defined individually for the customer network are exceeded, mitigation can be initiated within a few seconds. Manual switching is also possible in the Myra Dashboard (WebGUI), via BGP announcement or via API call. This allows you to proactively secure online events, livestreams or traffic-intensive shopping events (Black Friday, Cyber Monday etc.) that are particularly worth protecting.

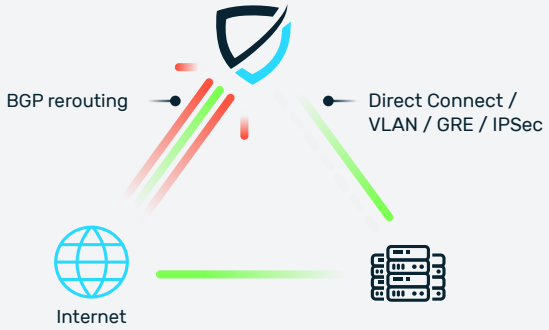
In the alternative always-on mode, every data packet always passes through the Myra infrastructure. This mode of operation is advantageous for responding instantaneously to attacks.

Direct connect



Standard case

BGP rerouting



Case of attack

Benefit now from the advantages of a customized DDoS protection for your infrastructure

Stop DDoS attacks

Secure network and protocol-level protection for web infrastructures and data centers against volumetric attacks:

- Protection against ICMP flood, UDP fragmentation, UDP reflection, UDP amplification via DNS, NTP, rpcbind, SSDP, SYN flood, ACK flood, RST flood, and others
- Support for IP subnets from /24 for IPv4 and /48 for IPv6
- Flexible connectivity via Direct Connect, GRE tunnel, VLAN or IPsec

On-demand or always-on

Myra offers a choice between flexible on-demand protection and permanently active always-on mode, with attractive cost models that require minimal configuration effort.

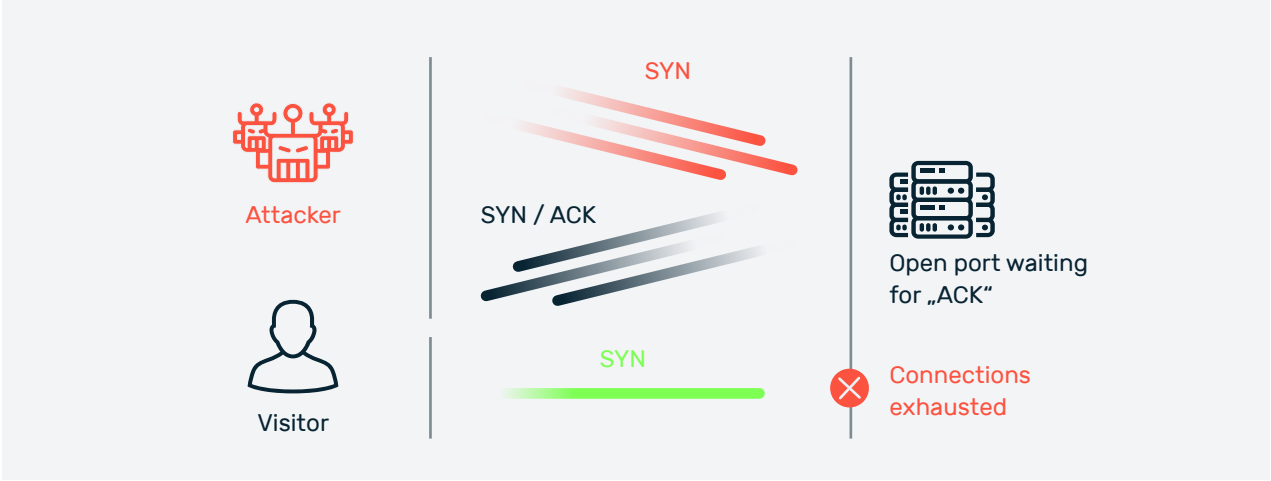
- No configuration effort in case of an attack due to API
- Real-time traffic analysis via flow monitoring with individually definable thresholds

These attacks threaten your business at layer 3/4

All attacks on layer 3/4 stress the target either with very high bandwidths or immense packet rates. Legitimate accesses thus no longer find a data channel to establish communication.

Example: SYN/ACK attack

In a SYN/ACK attack (or SYN and ACK floods), for example, a botnet controlled remotely by attackers floods a server with SYN packets. These are usually part of the so-called three-way handshake that occurs when a TCP connection is established between client and server. A SYN/ACK attack provokes mass half-open connections by sending many SYN packets but no ACK packets needed to fully establish a connection. As a result, no new connections can be established, and the website is no longer accessible.



Myra Cloud Scrubbing automatically detects SYN/ACK attacks as well as other DDoS attack types and filters the malicious traffic immediately. This means no additional load on your origin servers, even in the event of an acute attack.

Providing transparent insights into DDoS defenses

In the event of an attack, the Myra SOC will inform you of the mitigation via ticket center or by telephone. In addition, you will receive an attack report (German and English) within 48 hours on weekdays, which will be provided to you via the ticket center.

You will receive this information:

- Attacked domain(s)
- IP(s)
- Period
- Origin impact
- Attack type
- Peak bandwidth
- Peak packet rate
- Attacker details like attacking IPs / AS networks / countries / software stacks
- Applied treatment methods
- Recommended actions

Key benefits and features at a glance

Qualified security for critical infrastructure
Highly efficient DDoS protection for mitigating a wide range of attack vectors

On demand operation
Fully automated mitigation with switchover times of a few seconds in the event of an attack

Provider independent
Implementable in a short time, independent of existing infrastructure and provider

IPv6 and IPv4
Protection for IP subnets from /24 for IPv4 and /48 for IPv6

GRE
Universal traffic forwarding via GRE tunnel

API
Optional automated or manual switching of subnets via API call

VLAN
High-performance and flexibly configurable connection for the transmission of clean traffic

Direct Connect
The direct connection between your infrastructure and Myra makes you independent of disturbances in the public network.

Extensive peering options
Connection of your infrastructure to the most important data centers and Internet nodes

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

Flow monitoring
Real-time traffic analysis in own data center for individual mitigation configuration

Myra Dashboard (WebGUI)
Fast and easy switching for subnets via a graphical user interface

Reporting
Incident reports from Myra SOC with detailed information about incidents

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, 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.

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 §3 BSI Act | BSI C5 Type 2 | Certified Trusted Cloud Service | IDW PS 951 Type 2 (ISAE 3402) audited service provider

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

Myra Security is the new benchmark for global IT security.

German technology manufacturer Myra Security offers a certified Security as a Service platform to protect digital business processes.
The smart Myra technology monitors, analyzes and filters harmful Internet traffic before virtual attacks can cause real damage.

Request an individual security analysis now

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