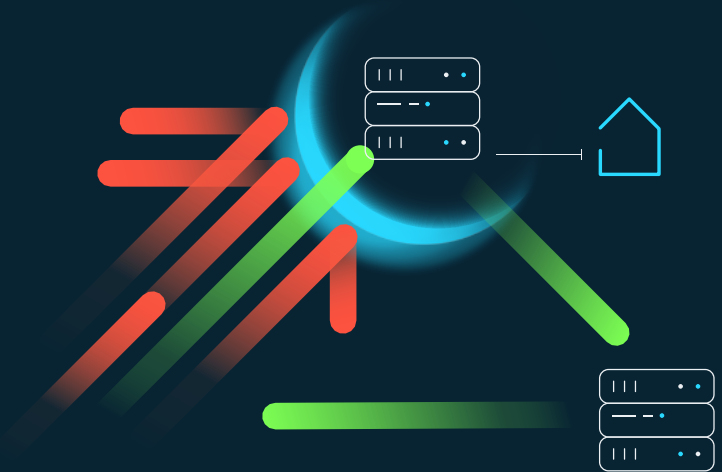


## PRODUCT SHEET

# Myra OnPrem Scrubbing



**Attract and retain your customers for the long term with certified IT infrastructure protection. With Myra OnPrem Scrubbing, you secure all customers directly from your data center with highly efficient BGP protection – regardless of network size.**

High-volume DDoS attacks on infrastructure providers are increasing in frequency and strength every year. According to Allianz, external events such as DDoS attacks account for 85 percent of global cyber insurance losses. Implementing effective protection systems is therefore business-critical. However, established BGP protection solutions such as Myra Cloud Scrubbing require at least one or more /24 networks for connectivity. External mitigation outside the provider network is conceptually not possible for smaller customer networks. For granular mitigation within the local provider data center, Myra provides its well-proven Network & Infrastructure Security as an on-premises solution directly in your data center. The solution allows BGP protection for smaller networks (i.e., /25, /26 etc. down to customers with single IPs) that were previously not serviceable.

- **Qualified security for critical infrastructure**  
Highly efficient DDoS protection for mitigating a wide range of attack vectors
- **IPv6 and IPv4**  
Protection for IP subnets from /25 for IPv4 and from /49 for IPv6 up to individual IPs
- **Individual configuration**  
Thresholds, IP prefixes, measures, flow systems
- **On-demand mode**  
Fully automatic mitigation with switchover times of a few seconds in the event of an attack
- **API**  
Choice of automated or manual switching
- **Professional services**  
24/7 emergency support from the Myra Security Operations Center (SOC)

## 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).

## Automated protection features ensure maximum uptime for your customers

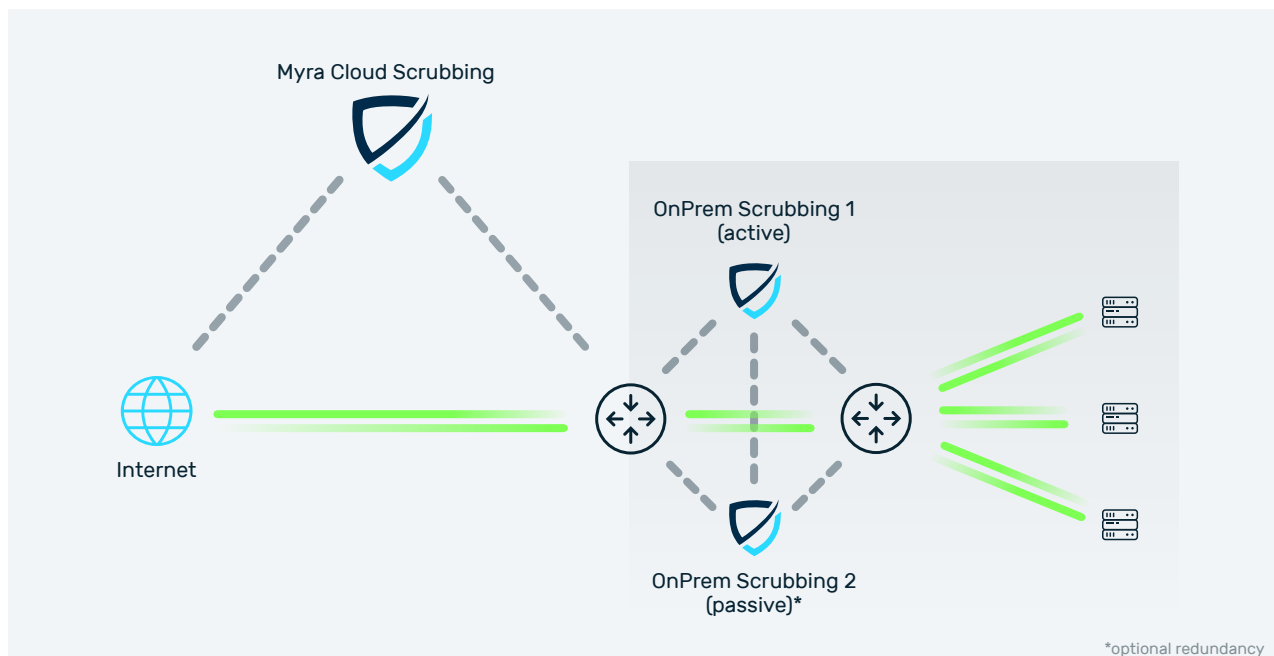
Myra OnPrem Scrubbing protects against all common forms of DDoS attacks on OSI layers 3 and 4, including ICMP flood, UDP fragmentation, UDP reflection, UDP amplification via DNS, NTP, rpcbind, SSDP, SYN flood, ACK flood and RST flood.

During operation, Myra monitors the traffic flows in your data center in real-time. If thresholds defined for your customers (based on packet rate and/or volume) are exceeded, mitigation is automatically performed via Myra OnPrem Scrubbing. Additional defensive measures such as blackholing can also be initiated automatically.

Alternatively, you can manually initiate mitigation via the Myra Dashboard (WebGUI). This allows you to proactively secure particularly vulnerable customer events, livestreams or traffic-intensive shopping events (Black Friday, Cyber Monday etc.).

## Hybrid design for flexible DDoS protection (optional)

If DDoS attacks exceed your provider's connectivity, mitigation can additionally be provided by Myra Cloud Scrubbing. This hybrid protection concept saves your customers from expensive downtime. The solution consists of a combination of redundant (optional) scrubbing center units operated by Myra in your data center and the proven Myra Cloud Scrubbing. Now, as soon as attacks reach a critical volume, Myra Cloud Scrubbing is additionally available to you in the background. This way, DDoS attacks can also be mitigated with Myra's full defense capacity of several TBit/s bandwidth.



## These attacks threaten your customers

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 OnPrem 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.

## 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.




ISO 27001 BSI zertifiziert  
auf der Basis von IT-Grundschutz  
Zertifikat Nr.: BSI-IGZ-0479-2021




PCI DSS  
Certified




BSIG  
KRITIS-qualifiziert



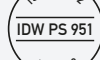
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compliant



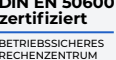
BSI C5  
TESTAT TYP 2



Trusted  
Cloud  
SERVICE  
100%



ISAE 3402  
IDW PS 951  
TYPE 2



DIN EN 50600  
zertifiziert  
BETRIEBSSICHERES  
RECHENZENTRUM

Certified by the Federal Office for Information Security (BSI) in accordance with ISO 27001 based on IT-Grundschutz | Certified in accordance with Payment Card Industry Data Security Standard | Qualified for critical infrastructure in accordance with §3 BSI Act | Compliant with (EU) 2016/679 General Data Protection Regulation | BSI C5 Type 2 | Certified Trusted Cloud Service | IDW PS 951 Type 2 (ISAE 3402) audited service provider | DIN EN 50600 certified datacenters

## 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.



Bundesministerium  
für Gesundheit



ITSG



msc  
Munich Security  
Conference



Barmenia  
EINFACH. MENSCHLICH.



DSV IT Service



BZgA  
Bundeszentrale  
für  
gesundheitliche  
Aufklärung



BIOSCIENTIA  
MEDIZIN. LABOR. SERVICE.



Liechtensteinische  
Landesbank 1861

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**

**Myra Security GmbH**



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