



LINK11 

NETWORK DDOS PROTECTION

STANDBY OR PERMANENT INFRASTRUCTURE PROTECTION
VIA BGP ROUTING

A STRONG PARTNER



COMPANY

Link11 - longstanding security experience

Link11 is a European IT security provider, headquartered in Frankfurt, Germany with operations in Europe, the US and Asia. Established in 2005, Link11 has been pioneering DDoS protection since the early days of attacks. Its **Cloud Security Platform** is focused on security-related services like **a Content Delivery Network (CDN), DDoS protection, Web Application Firewall (WAF), secure DNS hosting** and more.

The company's DDoS protection, a part of Link11's Cloud Security Platform, is entirely built using proprietary, patent-pending technology. **This state-of-the-art DDoS protection service for web applications and IT infrastructures uses Artificial Intelligence (AI)** and enables Link11 to protect mission-critical web applications, APIs and IT infrastructures against all types of DDoS attacks. This allows customers to focus on their core business.

With more than 11 years of experience in internet security and a clear security focus, Link11 has developed one of the most sophisticated DDoS protection services available. **Link11 protects some of Europe's largest media, financial, e-commerce and online organizations.** The company has won numerous awards and continues to innovate to ensure that Link11's IT security services are always one step ahead of the game.

Link11's global network is built to ensure resilience, performance and maximum availability for its customers' IT infrastructure. In recent years, Link11 has strengthened its network to offer the best possible protection, and the firm plans to further expand into Asia and the Middle East in the near future.

Link11's Strategic Points of Presence



What is DDoS?

A DDoS attack against a web application, web service or an API aims to exhaust the target's resources to make them unavailable to legitimate services users/clients. **DDoS attacks have become more and more complex over the years.** Attack tools are available for download – today, anyone can get them for free. New attack types have occurred in recent years, and experts expect to see additional attack vectors in the near future. **Cyber-criminals usually launch multiple attacks against the same target.** They combine different floods in combination with high-volume attacks using subtle and sophisticated attack and infiltration techniques. All these hammer against a single application, service or API at the same time. **Traditional security components like firewalls, IDS/IPS and others are not designed to detect**

or prevent such kinds of attacks. On top of that, they are usually blind to whatever happens inside of encrypted tunnels (HTTPS traffic). Hackers have adopted their own evasion and attack techniques, and often use encrypted tunnels (HTTPS) to attack their targets.

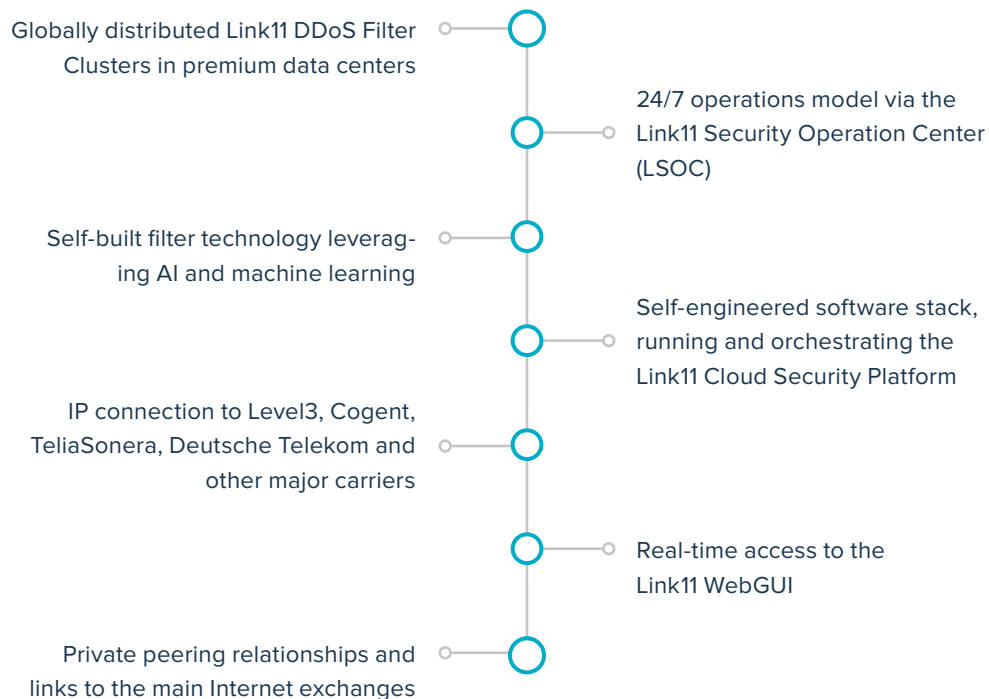
Thousands of targets around the world are attacked every day, and enterprises across all verticals (e-commerce, financial, education, health care, industry and others) are affected.

Every enterprise needs to consider protecting their mission-critical web applications/services and APIs.

It is indispensable to be well prepared, as every enterprise is a potential target.

LINK11 NETWORK DDOS PROTECTION VIA BGP ROUTING

GLOBAL DELIVERY MODEL





BENEFITS

Self-Learning DDoS Protection Based on AI

Link11's patent-pending DDoS filter technology offers protection against non-volumetric and volumetric attacks. Protection is ensured from layer 3 to layer 7. Single-vector and multi-vector attacks get detected and mitigated. Sophisticated algorithms based on Artificial Intelligence ensure that even zero-day attacks are detected. The solution offers the ability to integrate on-premise/hybrid scenarios via a remote monitoring box (Link11 DDoS Sensor).

State-of-the-Art Reporting and Monitoring

The Link11 WebGUI enables customers to monitor and configure all services via one common interface. It provides access to real-time statistics and helps customers to understand ongoing threats. Customers can easily add further security services to increase their protection level.

24/7 Single Point of Contact

The Link11 Security Operation Center (LSOC) acts as a single point of contact at any time. Network and security experts are available whenever needed, around the clock. This ensures that no handover to any other group or vendor is required.

Lowest Possible Time to Mitigate

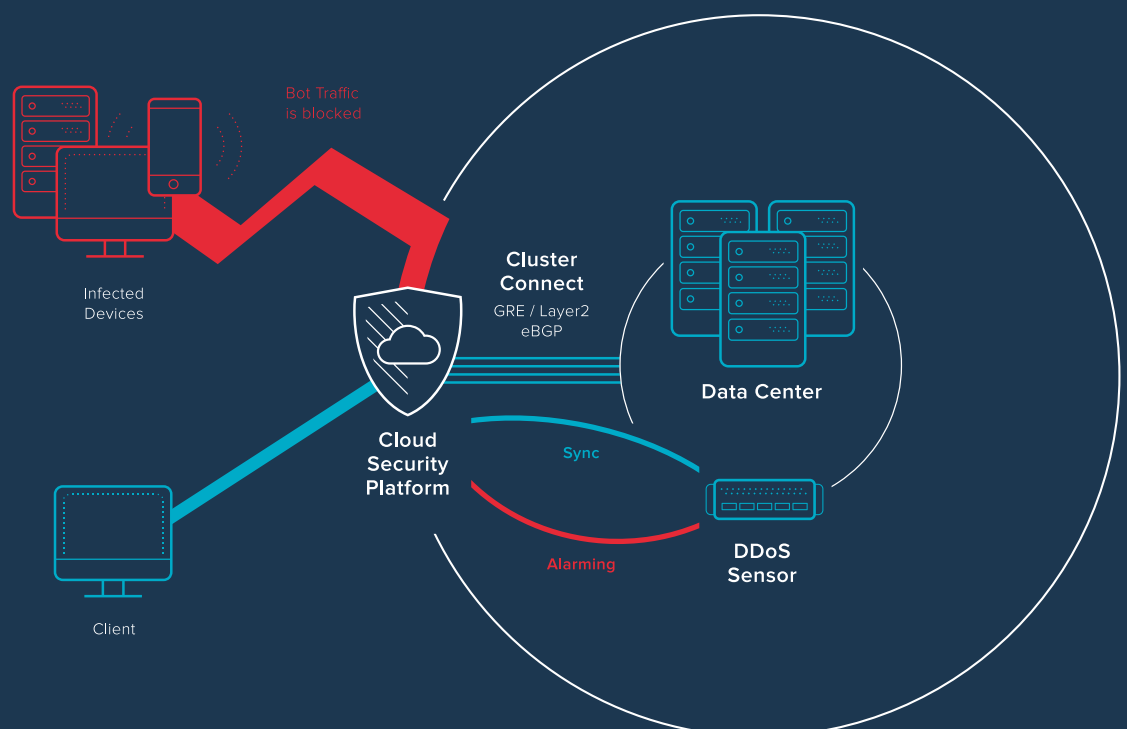
Link11's patent-pending DDoS detection and mitigation mechanisms detect abnormal activities and mitigate even unknown and future attack types and vectors automatically in real-time. This is how we ensure a market-leading time to mitigate.

CLOUD-BASED SECURITY

The Link11 Network DDoS Protection provides full coverage against non-volumetric and volumetric attacks. When the solution is deployed in permanent mode, customers achieve immediate protection within seconds against any type of DDoS attacks. A stand-by deployment will detect threats based on an optional Link11 on-premise DDoS sensor or the customer's own monitoring system. The cloud-based protection can be activated immediately whenever needed. Built-in synchronization between the on-premise system and Link11's Cloud Security Platform ensures that the cloud service can immediately start DDoS mitigation without any learning phase.

Traffic is cleaned in the Link11 Cloud Security Platform, and cleaned traffic is sent back to the customer using a previously established connection with the customer's data center. Direct connects, cloud connects or GRE tunnels can be used to forward cleaned traffic.

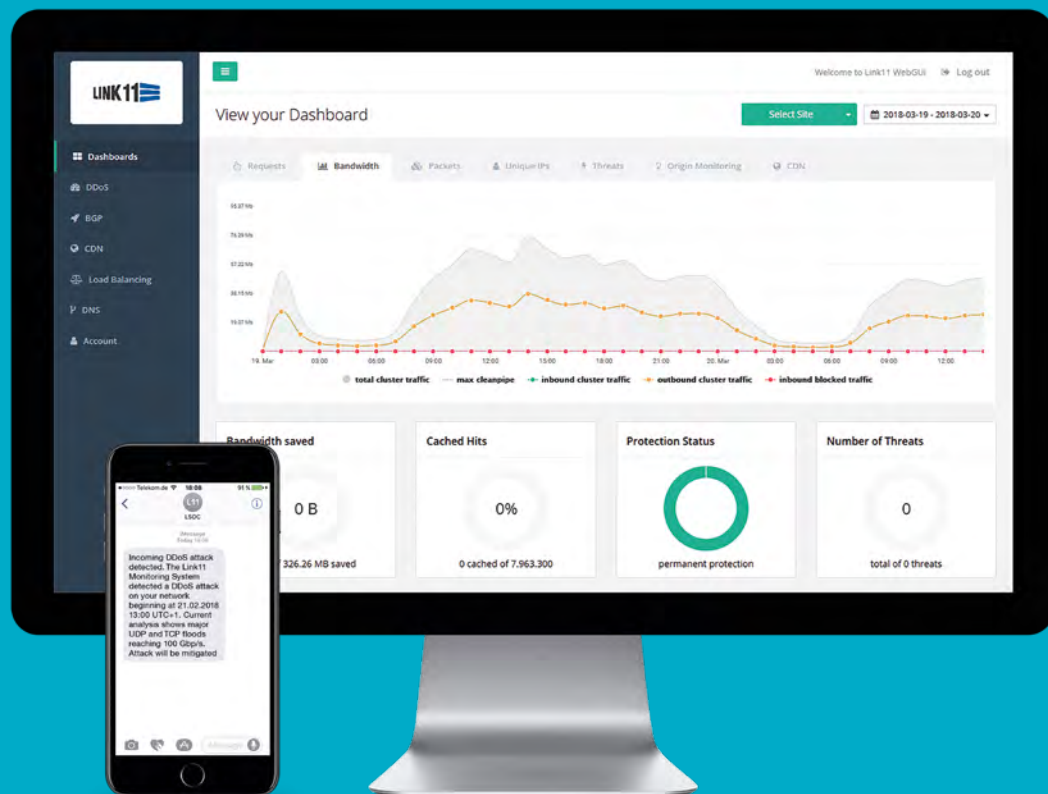
Link11 Network DDoS Protection



LINK11 WEBGUI

Link11 operates several scrubbing centers around the globe. Attacks get mitigated as close to the source(s) of the attack as possible. Intelligent internal traffic steering ensures best possible usage of all available resources. All scrubbing centers are in sync at all times, thanks to real-time synchronization. Customers can count on Link11's global capacity of multi-terabits per second.

Customers get access to a state-of-the-art, web-based portal that provides visibility at all layers and 24/7 self-service. The Link11 WebGUI provides customers with real-time statistics (bandwidth, mitigation, attack details), role-based access control, attack reports and monitoring and configuration of the Link11 DDoS Sensor.



CONTACT OUR EXPERTS

Do not lose the race! The attack landscape is changing rapidly, and attackers find new ways to take down their targets on a daily basis. Ransom DDoS has become more and more popular – who knows who will be hit next?

DDoS protection is a mandatory pillar of any security strategy. Get in touch with the experts from Link11 to gain access to the world's leading DDoS protection for web applications/services, APIs and IT infrastructures.



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