StormWall

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Strong. Stable. Secure.

When It Comes to DDoS We've Got You Covered

Reliable solutions to safeguard websites, networks, servers, and IT infrastructures of any size from modern DDoS and hacker attacks

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

DDoS – Main Cybersecurity Threat

Launching a DDoS attack can cost $0, but the damage is incalculable:

Financial risks

- Customer churn, termination of contracts, claims for damages
- Lost profits due to downtime

Reputational risks

- Losing customer loyalty
- Negative reputation in media

SEO risks

- Falling positions in search queries (SEO ratings)
- Wrong functioning of session counters

Security risks

- A smokescreen for a more sinister attack
- Risks of multi-vector attacks

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

StormWall Product Suite

StormWall for Web

Powerful solution to make sure your business-crucial web applications are always accessible during even the most severe DDoS attacks.

Works for:

- Retail
- E-commerce
- Government
- Media
- Banking
- Entertainment, etc

StormWall for Networks

Best-in-class network protection to ensure stable operation of your network and secure your business from unforeseen disruptions.

Works for:

- ISPs
- Telecom
- Data Centers
- Hosting and Cloud Service Providers
- Large companies with internal networks

StormWall for Servers

Keep your TCP/UDP services operational and safe from the most modern and complex DDoS attacks.

Works for:

- Gaming
- IP telephony, etc

Antibot

Reliable protection of web applications from bots

WAF

Protecting web applications with a cloud-based security tool

CDN

CDN service to speed up content loading

VDS/VPS

VDS/VPS servers with DDoS protection

Anti-DDoS Hosting

Hosting and DDoS protection combined

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Why StormWall

01

Own Situation Center

Registration of DDoS attacks in automatic mode, their investigation and development of countermeasures

02

Rapid Incident Response

Response time from 1 second in automatic mode and from 1 minute in manual mode

03

The Best Client Service

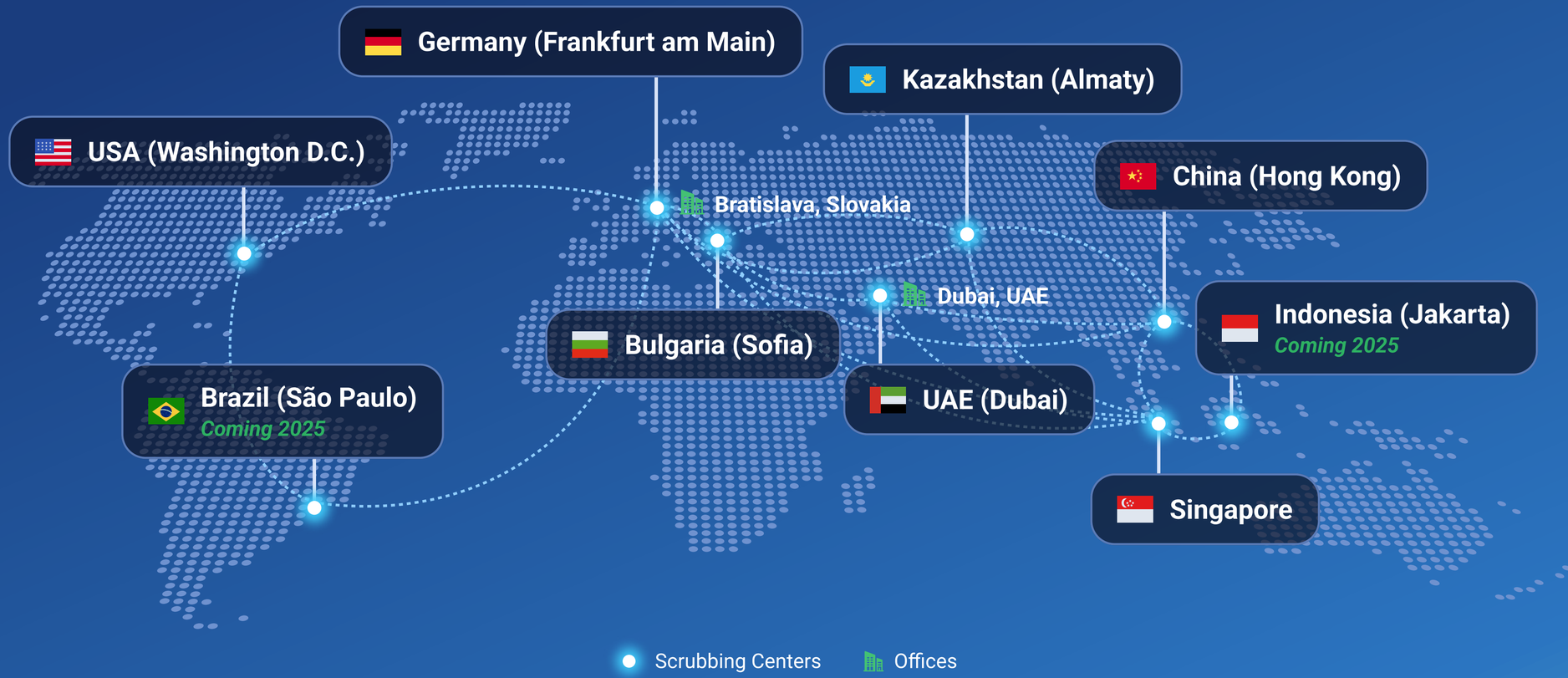
24/7 support including phone and chat, response time up to 15 min

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Global Filtering Network

8 POPS (2 on the way)
Filtering Capacity **> 4,5 Tbps**



+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

StormWall Today

StormWall is an international Cybersecurity-as-a-Service company offering **DDoS protection solutions** for websites, servers, networks, and IT infrastructures of any size and complexity

11
years in the business

1000+
active **clients**

Offices
Bratislava, Slovakia
Dubai, UAE

100+
employees worldwide

We Protected

ISP/Telecom

kalaam · africell · EXPAND YOUR WORLD · EarthLink

Cloud Service Providers

靠谱云 KAOPU CLOUD · CloudHost · nipa.cloud

Retail

Volkswagen · KFC

Banking

中国银行 BANK OF CHINA · otpbank

Tech Companies

mobi INSTANT FREEDOM! Connecting Life... · SUNWAY

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

StormWall for **Web:** Specifics

StormWall services minimize the risks of DDoS attacks and eliminate the headaches associated with organizing the protection of modern websites

A modern website is a web application

- Business-critical
- Complex, multicomponent
- Providing many different Internet services
- Created using technologies that were not widely used 10 years ago (AJAX, API, BFF, etc.)

Depending on the specifics of the site, it is necessary to protect it from attacks at different leyers:

- **Network (L3)**
- **Transport (L4)**
- **Application layer (L7)**
- **From “smart” attacks**

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

How We **Protect Websites**

StormWall solution effectively protects websites of both small companies and large corporations from DDoS attacks

- Round-the-clock availability of the website
- Quick website loading if under attack
- Fast operation thanks to caching of static elements
- Reasonable projected costs
- Effective filtering of any DDoS attacks
- Lack of impact on SEO and analytics services
- Anti-DDoS, AntiBot, WAF and CDN - all in one
- Reducing the load on web servers

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

How Website Protection Works

The classic option

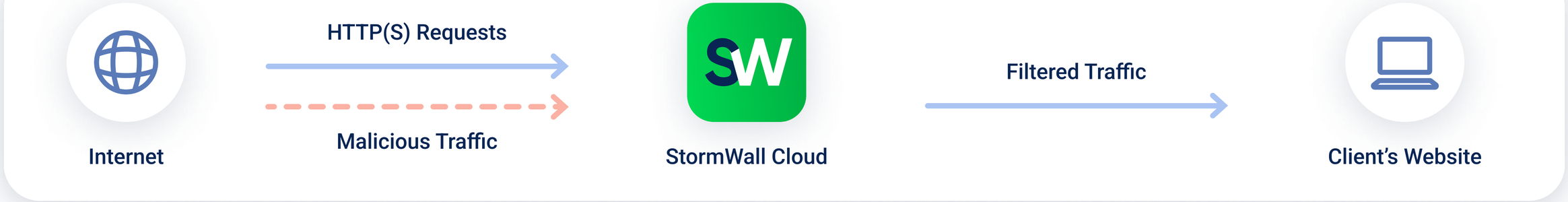
- You get a secure IP address in the StormWall cloud
- Redirect the DNS record of the site to it
- Traffic from site visitors is checked, filtered and optimized. Attack traffic is blocked
- Your server receives only clean traffic with the preservation of the real IP addresses of visitors in the HTTP header

Option with BGP

Announcement of the existing client network via BGP to the StormWall cloud and site protection without changing IP addresses

Protection option:
without SSL decryption

SSL



+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Web App Protection **Architecture**

1 Filtering all traffic and blocking attacks at L3/L4

2 Checks at L7

Non-interactive checks

Many parameters of the user's interaction with the site are analyzed: static – using well-known algorithms
dynamic – using machine learning visitor behavior on other sites protected by StormWall

Interactive checks

Is the software client of the site a legitimate browser – does it support Cookies,
HTTP Redirect, JavaScript, and many other parameter

3 WAF-based checks

Attacks on applications are detected. Hacking attempts, overkill attacks, parsing - all blocked.

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

WAF (Web Application Firewall)

WAF — website protection from hacking, illegal bot activity, password cracking, promocode abuse, etc.

- 24/7 protection against web application attacks
- Security of business logic layer of the application
- User-friendly interface
- No extra expenses for hardware and software
- Tech support on vulnerabilities and incidents

Licensing

Available as an additional option to **StormWall for Web**

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

DDoS Attacks on **Networks:** Damage Risks

A DDoS attack on even one of the network's IP addresses can lead to serious problems for the entire network.

Your customers may suffer if their resources are located inside the perimeter of your network.

Even a not-too-powerful DDoS attack can lead to the loss of some of the customers.

Who Is at **Risk?**

- ISPs
- Cloud and Hosting Providers
- Companies with Own Autonomous Systems

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

StormWall for Networks:
How It Works

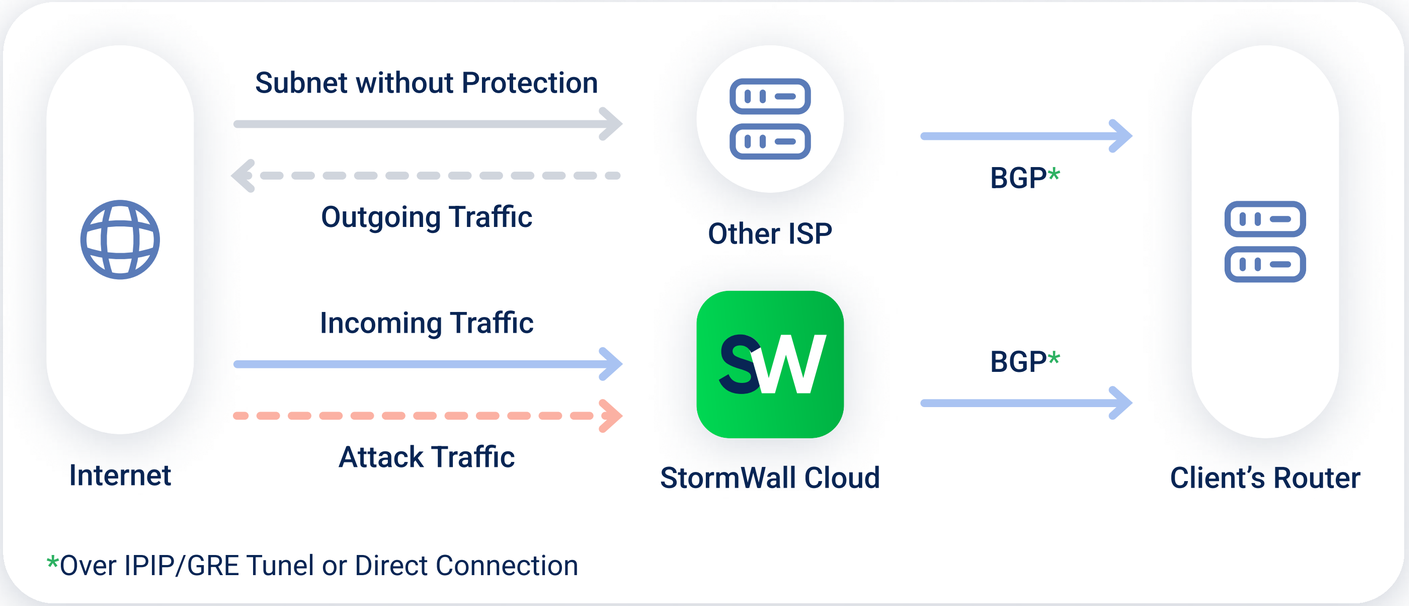
Protection deployment is possible via an IPIP/GRE tunnel, via IX, or by physically connecting to the StormWall network at one of our sites

01 We establish a connection with you

02 We establish a BGP session in which you announce necessary IP prefixes

03 We accept your announcements, filter all traffic and deliver you the clean traffic

Usually, the connection of DDoS protection is set up asymmetrically (only for the incoming traffic). In some cases, customers require symmetric protection — StormWall also provides it



+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

DDoS Protection Via BGP

Always-On

Traffic always goes through our scrubbing network

On-Demand

You need to make the announcement manually

Using DDoS sensor

The sensor is installed on the client's side. After the attack begins, the protection is activated automatically

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

TCP/UDP Servers Protection

What you get

- Reliable protection of TCP/UDP servers/services from DDoS attacks
- Unlimited volume of filtered traffic
- Unlimited number of ports on your server
- Effective filtering at L3/L4

How it works

- Utilizing IPIP/GRE tunneling (when using a router or Linux) with secure Storm IP client routing
- TCP proxying is applied in case the server is running on a Windows operating system

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Main Benefits of Network/Server Protection

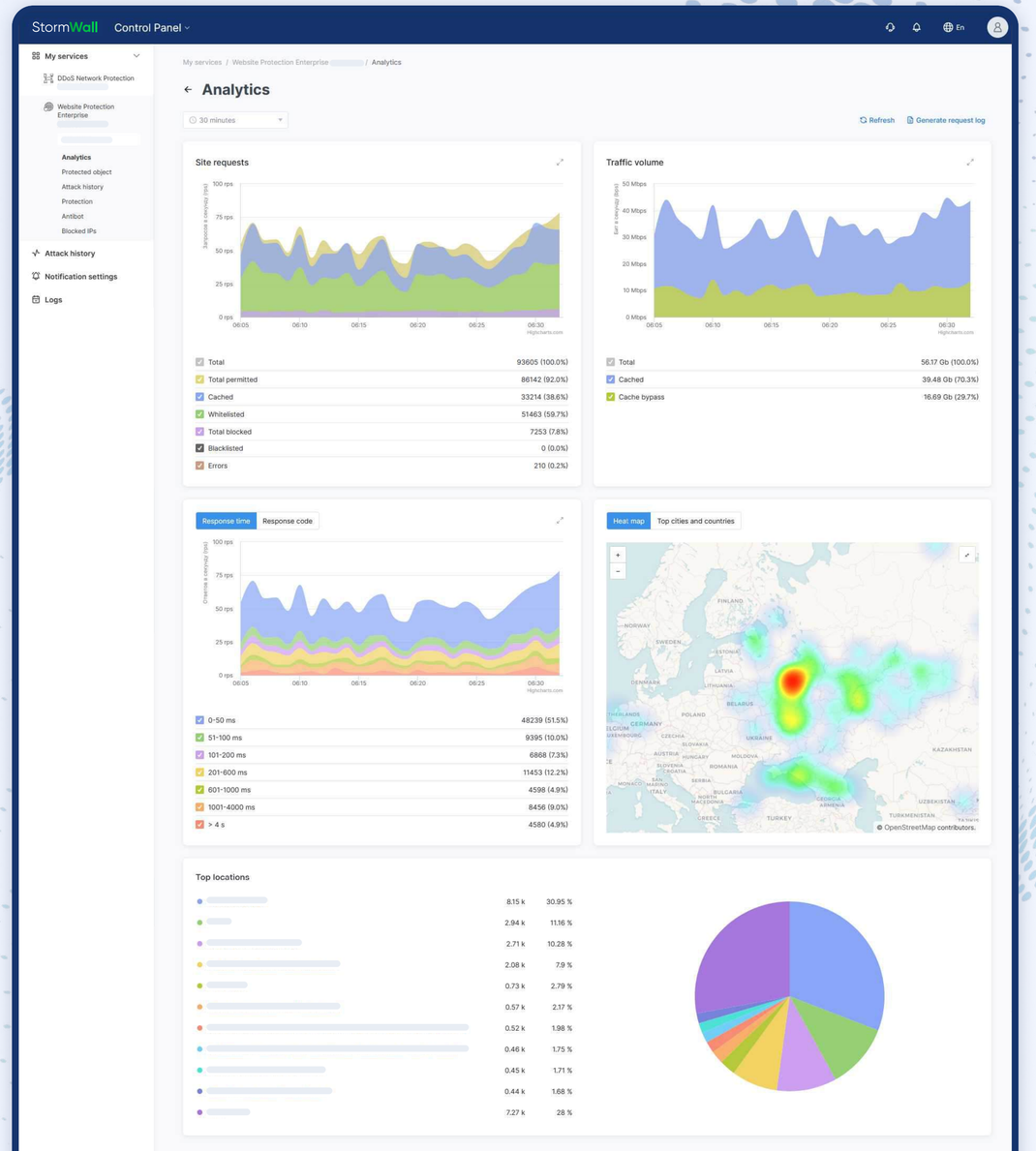
- Payment depends ONLY on the legitimate traffic
- Fast expert support 24x7 via Slack and Telegram
- Flexible pricing policy (from 50 Mbit/s)
- Free DDoS sensor
- Efficient protection of DNS servers
- Your IP operates normally under attacks
- Assistance with setup
- Detailed reports about each attack

StormWall

+971 56 274 6005 sw@astralistnc.com

ASTRALIS
TRADING AND CONSULTANCY FZE LLC

Demo of the **Client Portal**



Thank You!

+971 56 274 6005

sw@astralistnc.com

www.astralistnc.com