

# BGP Routing over GRE Tunnel

GRE is the Future of Secure Communication with Point-to-Point Encryption

**BLOCKDOS**  
Your Business, Our Protection

By using Generic Routing Encapsulation (GRE) tunnel, BlockDOS is able to offer you with an enterprise-grade communication protocol which establishes direct end-to-end connection between any network infrastructure. This allows you to use multiple protocols network backbone which supports a single protocol only. On top of this, GRE tunnel has a lower footprint than rest of the high resource demanding alternatives like IPsec VPN. Most importantly, GRE tunnel is a solid workaround for networks that support a limited number of hops. BlockDOS GRE tunnel makes use of encapsulation to establish direct connection to your server with comprehensive DDoS mitigation solution deployed at the edge of your network. Through secure communication protocols, GRE Tunnel encapsulates network packets over an added layer and delivers the payload directly from one point to another, encrypting and decrypting at endpoints only thereby giving you total protection.

## How it works?

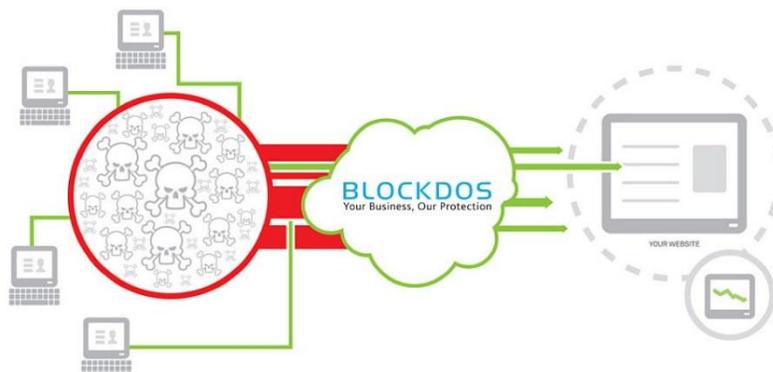
When you sign up for our GRE tunnel protection, we will assign you a secure IP from our protected IP range for routing traffic. This would allow a GRE tunnel to be established between your servers and our network. Once GRE tunnel is setup properly (which is usually within minutes), it is used to route clean traffic from our network to your server and vice versa. The next step involves you pointing your DNS to our secure IP.

Once the DNS is propagated, within minutes if the TTL - Time to Live - is kept within 300 seconds, all traffic to your website flows through BlockDOS network. It's inspected by our DDoS pattern recognition system and filtered through hardware firewalls. Once we have produced "clean" traffic, we pass that onto the GRE tunnel which connects our service directly to your website.

So if you are interested in protecting your critical network infrastructure, please contact us today for a free custom quote.

## Technical Benefits

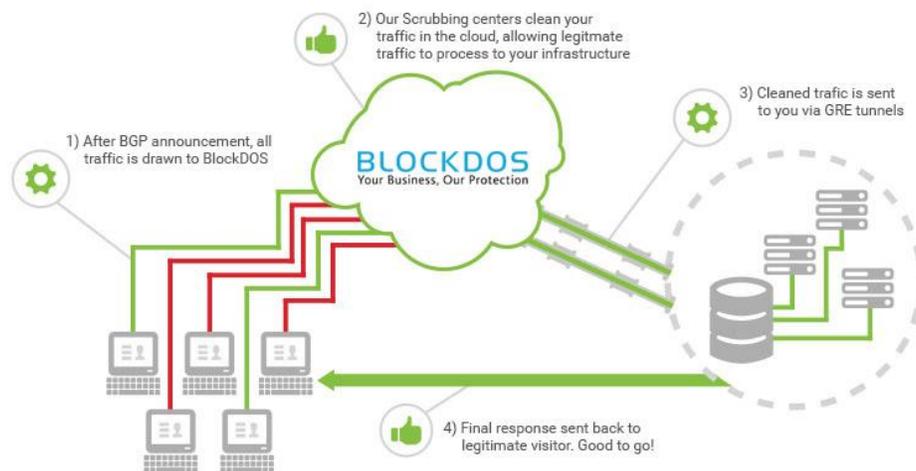
- **Allows dynamic routing** over the tunnel with BGP routing
- **Supports multi-protocol** (non-IP) traffic over the tunnel
- **Simplifies ACL** used in the crypto map
- **Lower footprint** than resource extensive alternatives like IPsec VPN
- **Solid workaround** for networks that support limited number of hops



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## The Complete Process

1. After BGP announcement, all traffic is drawn to BlockDOS.
2. Our Scrubbing centers clean your traffic in the cloud, allowing legitimate traffic to process to your infrastructure.
3. Cleaned traffic is sent to you via GRE tunnels
4. Final response sent back to legitimate visitor. Good to go!



## **BLOCKDOS** Your Business, Our Protection

BlockDoS is a leading Canadian organization, established in 2005 as the most Secured Dedicated Hosting and Distributed Denial of Service (DDoS) Mitigation Service provider. We guarantee 99.9% uptime SLA on Enterprise Protection solution. Once your website is secured by BlockDoS, all the traffic will be routed through our global network of high-powered servers that inspect all incoming traffic, keeping hackers out while accelerating your traffic. BlockDoS delivers state of the art IT security solutions and excellence in business performance by ensuring a high level of security of the IT services; delivering a cost effective and sustained level of security that is aligned with needs of our clients; and developing and maintaining high levels of confidentiality, integrity and availability.