Nimitz

Universal DDoS Protection

HTTP/3
HTTP/3
Quic
UDP
IP

HTTP/2
HTTP/2
TCP
IP

Memcache
MemCache
UDP
IP

DNS
DNS
UDP
IP

NTP
NTP
UDP
IP

SSDP
SSDP
UDP
IP

UDP
UDP
IP

TCP
TCP
IP

IP-Fragmentation
IP

ICMP
ICMP

About Us

Nimitz is a distributed denial of service (DDoS) mitigation project that is currently in its 5th year of development and making rapid progress from theoretical research to real world testing and product distribution.

We originated out of Grande Prairie, Alberta in early 2014. A location which still serves as our primary headquarters and base of operation. But since then we have also taken on a global presence. Both in terms of clientele as well as contributors. And, currently consist of a small group of international specialists spanning both Canada and Europe. Most of whom have 20+ years of applied/ technical experience in the fields of information research/ technology, cyber-security and computer networking.

Goals

Primary Goal: to develop a protection mechanism that could compete against the continuously evolving DDoS landscape, across all areas. Including performance metrics, such as number of packets per second (pps) mitigated, latency, ease of deployment, upgradeablity and affordability. Through the development of proprietary software that allows for advanced signature detection and high velocity packet processing. We have substantially increased the efficiency of filtering out attacks without compromising a networks normal data/ traffic or integrity. Thus allowing for enhanced levels of pps level mitigation, relative to given hardware specifications.

Secondary Goal: increase the accessiblity to industrial level DDoS mitigation technology for small to enterprise businesses, networks and ISP's for whom traditional solutions from industry leading experts may not have been financialy feasible, effective or scalable. This we achieved through the coupling of our advanced software with standard industry hardware. Allowing Nimitz to be deployed in networks of anysize through nothing more than simple hardware modifications. Delivering revolutionary protection at a reduced cost.

Tertiary Goal: in so doing we have developed a product that is not only more efficient and cost effective than solutions employed by industry leaders. But also liberating in the sense that we have created a security appliance that is essentialy turn-key, easy to deploy and does not rely on 3rd parties managing your data/ traffic to off site proxys that degrade your network (increase latency) and increase your risk to security vulnerabilities (hackers). Giving you back control over your traffic and data.

Automatic

Our line of security appliances operate 24/ 7/ 365. Responding to DDoS attacks automatically, without any form of human intervention.

Direct Network Integration

Nimitz physical hardware directly integrates into your network. Eliminating the need for off-site proxy servers that re-route your networks traffic to external sources for analysis and filtering.

Low Latency

This allows for Nimitz to perform mitigation on a nanosecond time-scale. With no network degradation. Current lab tests have shown an operational latency of less than 200 microseconds (<0.0002 seconds).

High Quality

In order to achieve this level of continuous performance, we have partnered with Lanner Inc. A world leader in the manufacturing of advanced network appliances. With all Nimitz hardware being assembled in Canada and the United States.

Scalable

Custom interface (e.g. 6x1G RJ-45, 2x10 SFP) selection allows you the option of matching your level of desired protection to the size of your network throughput.

Packets Per Second Protection

Nimitz is (mostly) a bandwidth independent product. Its proprietary software specifically targets DDoS attacks, but its ability to filter out those attacks is largely predicated on the physical hardware that it is running on (e.g. CPU). Therefore when you purchase Nimitz, you are purchasing a level of protection in (MPPS), not bandwidth/s.

Passive Precision Filtering

Nimitz proprietary software functions directly at network interfaces. Where it passively scans for DDoS attacks, based on their specific signatures.
It does not perform any form of Deep Packet Inspection or violate the integrity of the data passing through the network that it is protecting.

Nimitz Product Line

4210D-1MP	6210D-2MP	8210D-5MP
1 million	2 million	5 million
pps	pps	pps

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