

Customer case study – Shanda Networks

The customer

Shanda Interactive Entertainment Ltd (Nasdaq: SNDA) is a leading interactive entertainment media and online gaming company in China with revenues of US\$1m per day that needed protection from ongoing DDoS attacks.

Network Configuration

- Shanda data centres have 12 x 1Gbps links from China Telecom, fed from Catalyst 6509s.
- Each of the twelve 1 Gbps links are split by Catalyst 3750s into 100 Mbps links.
- Each of the twelve Catalyst 3750s feeds ten 100 Mb lines to Catalyst 2960s.
- Ten game servers are attached to each of the one hundred and twenty Catalyst 2960s.
- Traffic for any one server arrives through only one of the twelve 1 Gbps links.

Attack History

Individual servers in the Shanghai data centre were being attacked. The DDoS attacks originated from a globally distributed botnet that was targeting and disabling individual game servers with varied attacks including fully spoofed SYN floods, and UDP floods, and attacks on servers with thousands of "GET" requests per second.

IntelliGuard DPS deployment

Shanda purchased an IntelliGuard DPS 2000 for deployment in front of one of its Catalyst 3750s to protect every server downstream of it. IntelliGuard's DPS learned the behaviour of Shanda's legitimate customers, automatically learned the IP addresses of each of every server, and applied immediate protection to each of them.

Having proved the success in one data center, Shanda is now designing IntelliGuard DPS into their other networks with new DPS 3000 and DPS 4000 models that can to protect multiple 1 Gbps links in each network. IntelliGuard's DPS 12000 model will also be available to protect future 10GigE networks.

Successful defense

IntelliGuard has successfully fended off all attacks and demonstrated that IntelliGuard is the best and only DDoS defence able to completely protect all Shanda's Data Centers.

