

Q4 2021 DDoS Attack Trends

Q4 saw a 17% quarterly increase in DDoS botnet hosts



The brain of a botnet that issues the commands to launch DDoS attacks.

Total: 1,700+

Top 3 countries: United States - 554

The Netherlands - 266 Canada - 197



DDoS botnet hosts

Total:

250,000+

Top 3 countries:

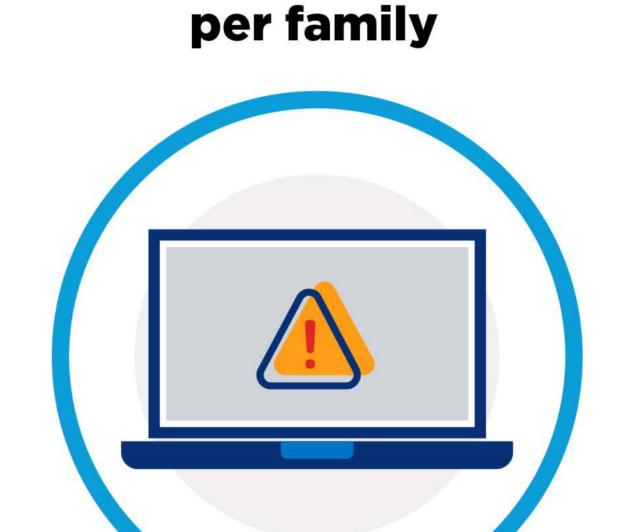
Mexico - 45,719

India - 25,304

Brazil - 41,616

Q4 saw a 56% increase in unique C2s tracked for pervasive DDoS botnets Gafgyt and Mirai

Unique C2s tracked



Unique attack victims

Average lifespan of a C2 (in days)



Gafgyt

507

1,117

36

Mirai

480

21,140

12

Q4 2021 DDoS attack stats

The largest bandwidth attack **Lumen scrubbed**



499 Gbps

The largest packet rate-based attack Lumen scrubbed



60 Mpps

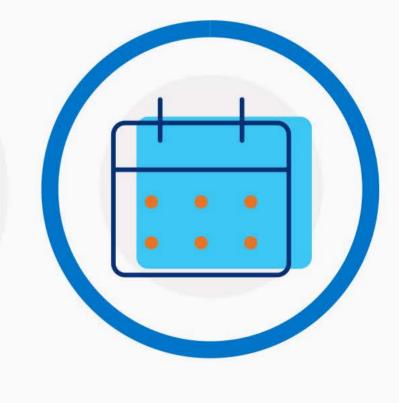
Average DDoS attack period **Lumen mitigated**





Longest DDoS attack period Lumen mitigated





of DDoS attack-period durations work

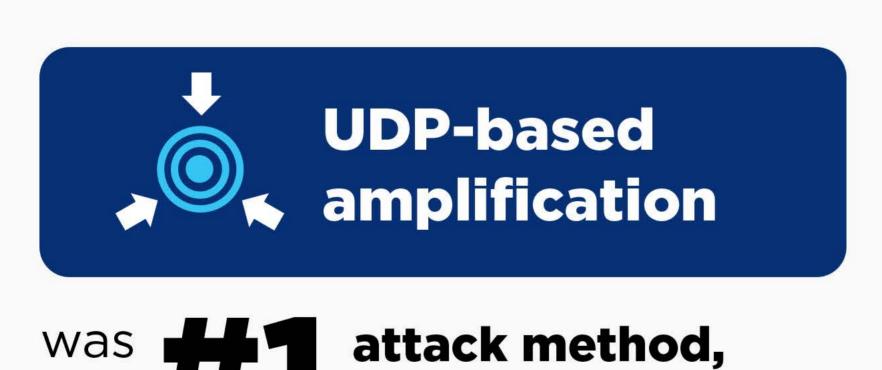
durations were





Single-vector attacks represented

DDoS attacks



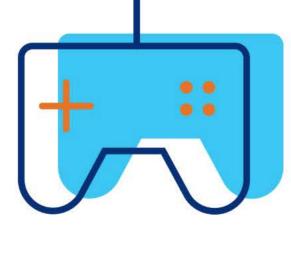
What is UDP-based amplification? These attacks aim to consume

available bandwidth and have proven to be quite powerful with the ability to wield attacks multiple times the size of the initial bytes sent.

Top 5 verticals targeted in the 500 largest attacks





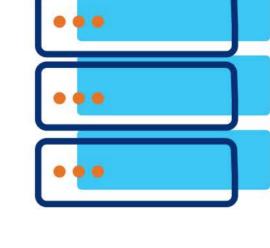


a 60% QoQ increase

Gaming



Software





54%

Telecomm

13%

10%

& Technology

6%

Hosting

Government

6%

See how DDoS threats evolved over 2021 by reading the full report from Lumen and Black Lotus Labs®.