

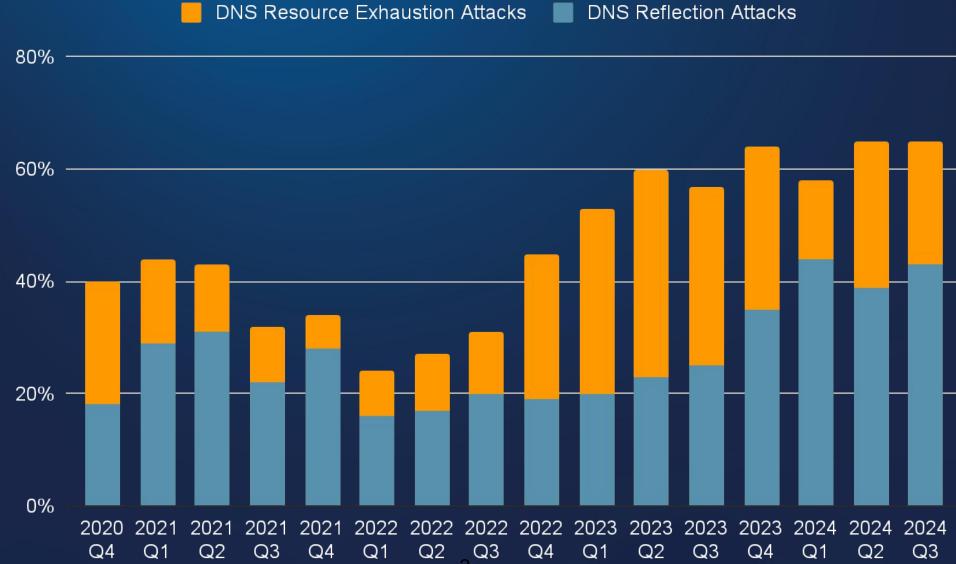
DNS is a Primary Vector for DDoS

Richard Meeus, Director Security Technology & Strategy

DNS OARC 43 Prague, Czechia

Oct 26/27

65% of Q3 DDoS attacks leverage DNS

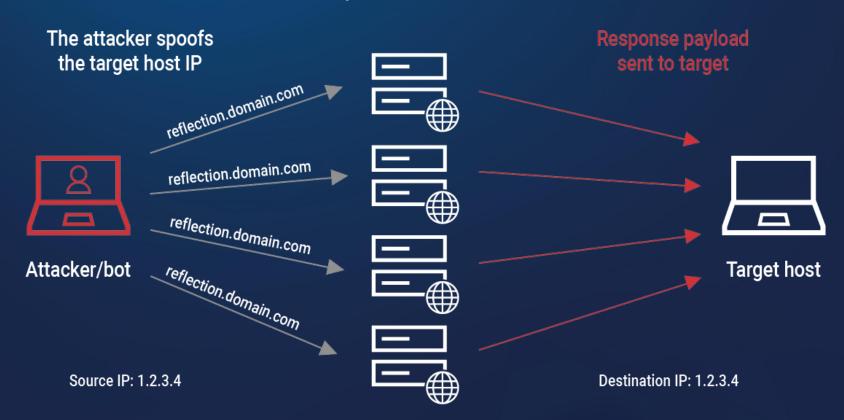




The newly trending DDoS target: DNS - part 1

DNS Reflection Flood

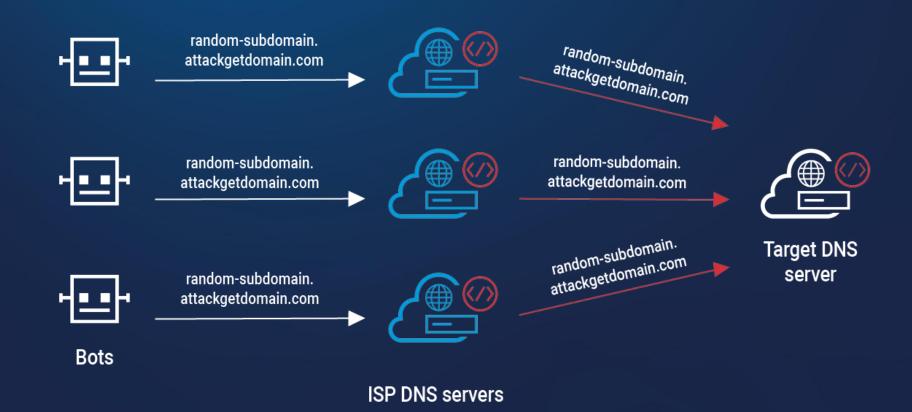
Open DNS resolvers





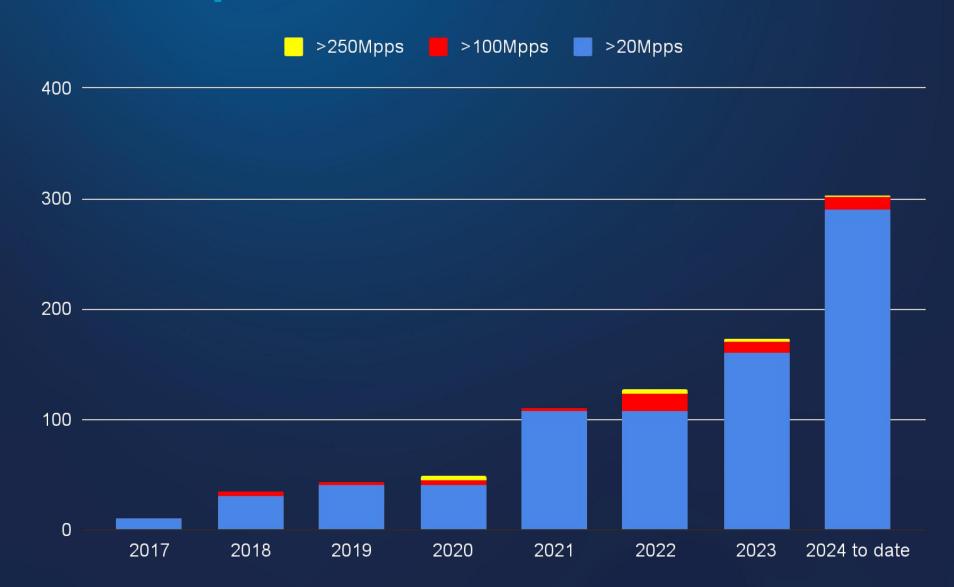
The newly trending DDoS target: DNS part 2

DNS NXDOMAIN Attack



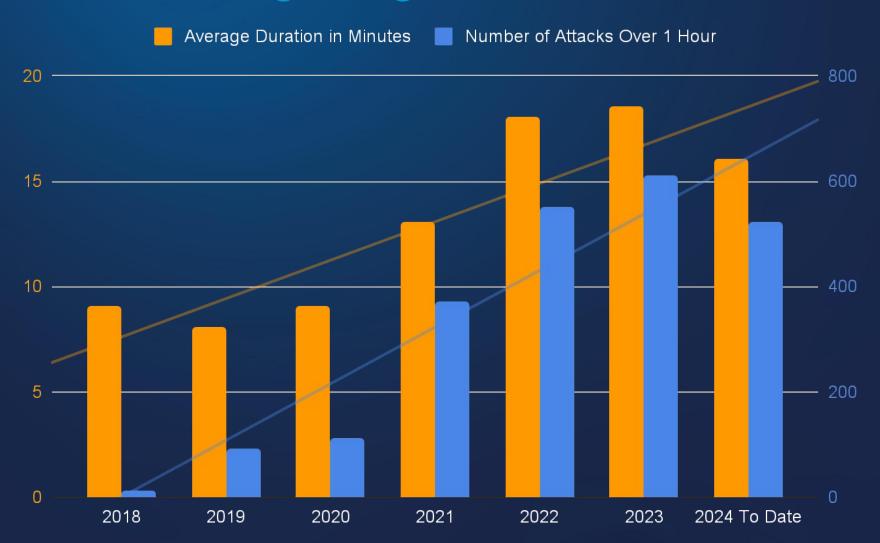


High Packets per Second Attacks



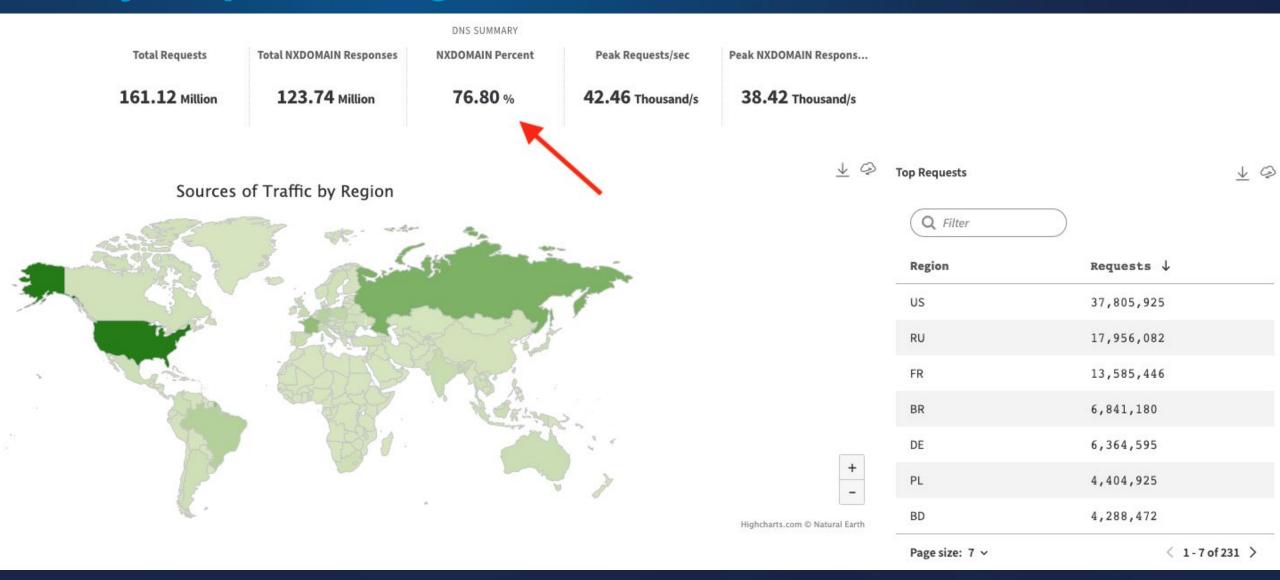


Attacks Are Getting Longer





Major Sports League





Major Sports League

DNS Threat Summary

TOTAL REQUESTS

TOTAL NXDOMAIN RESPONSES

NXDOMAIN PERCENT

PEAK REQUESTS/SEC

30.7 Billion

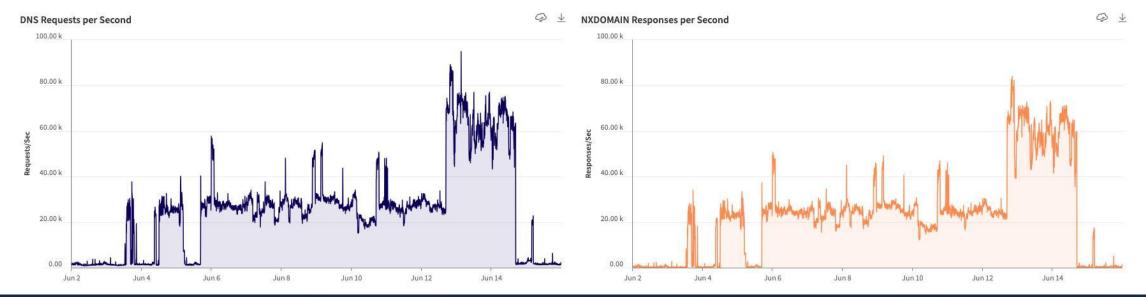
27.6 Billion

89.89 %

94.86 Thousand/s

PEAK NXDOMAIN RESPONSES/SEC

83.95 Thousand/s



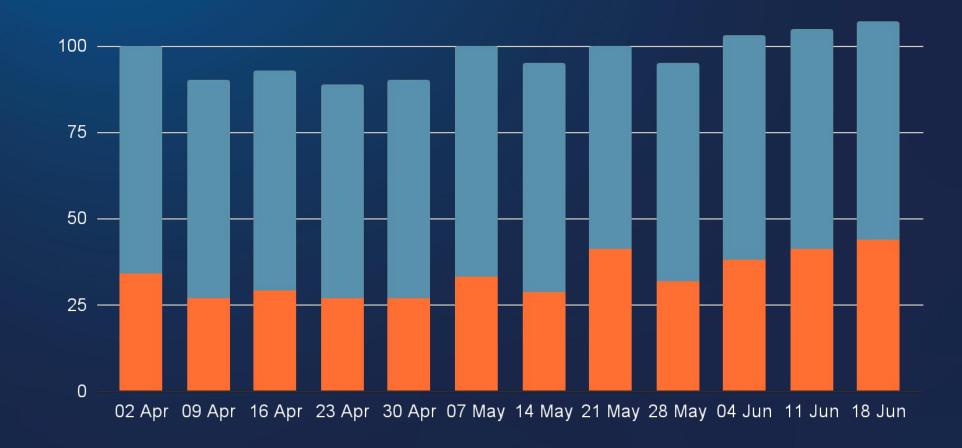


NX Domain Impact

125

📕 All other requests (Bn) 📕 NXDomain (Bn)

NXDOMAIN trends across cloud authoritative infrastructure

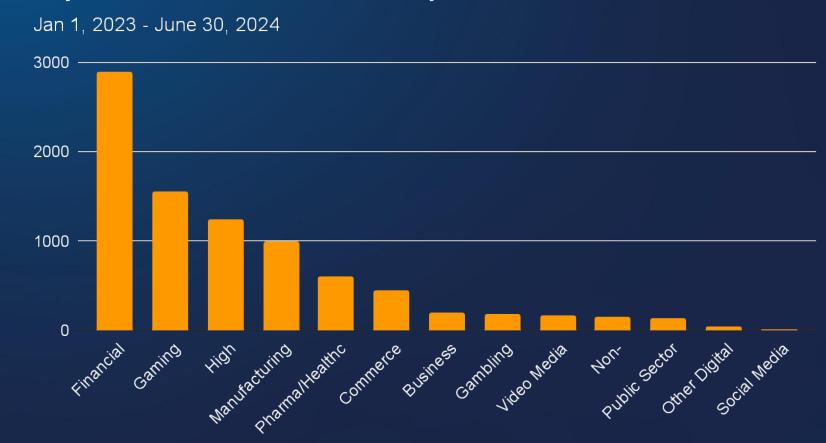




Layers 3 and 4 DDoS attack events by industry

Financial services remains the most frequently attacked industry by Layers 3 and 4 DDoS attack events

Layer 3/4 DDoS Attack Events by Vertical





Mitigation and Protection

- Fortify authoritative infrastructure
- Use "traditional" DDoS defences

Deploy authoritative proxies



