



KEY METRICS FROM THE 1H 2021 NETSCOUT THREAT INTELLIGENCE REPORT

FRANCE



The massive shift to online life triggered by the COVID-19 pandemic prompted record-breaking levels of innovation by threat actors, and NETSCOUT's ATLAS Security Engineering and Response Team (ASERT) expects this long tail of attacker innovation to last well into 2021.

Bad actors launched approximately 5.4 million DDoS attacks in 1H 2021—yet another record-breaking number. In particular, attackers launched unprecedented numbers of DDoS attacks in the first quarter, boosting attack frequency by 20 percent over the same time period in 2020. Meanwhile, adversaries discovered or weaponized seven UDP reflection/amplification DDoS attack vectors and developed adaptive multivector attacks specifically tailored to exploit vulnerabilities of their targets. Vital components of the connectivity supply chain came under increased attack, while ransomware gangs added triple-extortion DDoS tactics to their repertoire and the Fancy Lazarus threat actor launched a new DDoS extortion campaign.

Max Multivector Attack

Max number of vectors seen in a single attack

22

ATTACK VECTORS USED

1. Chargen amplification
2. COAP amplification
3. DNS
4. DNS amplification
5. ICMP
6. ISAKMP
7. Jenkins amplification
8. Memcached amplification
9. MSSQLRS amplification
10. NetBIOS amplification
11. NTP amplification
12. RIPv1 amplification
13. Sentinel amplification
14. SIP amplification
15. SNMP amplification
16. SSDP amplification
17. STUN amplification
18. TCP ACK
19. TCP NULL
20. TCP RST
21. TCP SYN
22. TCP SYN/ACK amplification

Top 5 Attack Vectors

Ta TCP ACK	Dn DNS amp	Ts TCP SYN	Tr TCP RST	Ds DNS
NUMBER OF ATTACKS 16,705	NUMBER OF ATTACKS 14,938	NUMBER OF ATTACKS 14,066	NUMBER OF ATTACKS 12,654	NUMBER OF ATTACKS 12,483

DDoS Statistics

Attack Frequency	-48%
Max Throughput	-45%
Average Duration	+29%
Max Attack Size	-16%

Largest Attack

Size	222.76 Gbps
Speed	26.45 Mpps
Duration	7,915 Seconds

Max Peak Throughput

Date	06/01/2021
Max Throughput	139 Mpps

Max Peak Bandwidth

Date	05/01/2021
Max Bandwidth	285 Gbps



Top Ten Vertical Industries Under Attack

The following chart shows a sampling of the most targeted sectors in 1H 2021 by number of attacks.

RANK	VERTICAL	FREQUENCY	MAX ATTACK	MAX IMPACT	AVERAGE DURATION
1	 Data Processing, Hosting + Related Services	20,798	112.28 Gbps	43.39 Mpps	68.2 Minutes
2	 Wired Telecommunications Carriers	7,845	112.28 Gbps	22.58 Mpps	116.8 Minutes
3	 Wireless Telecommunications Carriers (except Satellite)	6,644	112.28 Gbps	22.58 Mpps	123.6 Minutes
4	 Electronic Computer Manufacturing	5,382	112.28 Gbps	22.58 Mpps	131.9 Minutes
5	 All Other Telecommunications	3,476	112.28 Gbps	22.58 Mpps	156.7 Minutes
6	 Electronic Shopping + Mail-Order Houses	2,852	112.28 Gbps	22.58 Mpps	152.8 Minutes
7	 New Car Dealers	1,935	78.20 Gbps	15.81 Mpps	141.3 Minutes
8	 Custom Computer Programming Services	631	112.28 Gbps	22.58 Mpps	171.4 Minutes
9	 Marketing Consulting Services	311	5.46 Gbps	0.69 Mpps	40.0 Minutes
10	 Software Publishers	253	97.06 Gbps	18.98 Mpps	207.6 Minutes

The Big Picture

Explore the full 1H 2021 NETSCOUT Threat Intelligence Report to find the latest research into trends and activities across the global DDoS threat landscape.

[VIEW THE INTERACTIVE REPORT](#)

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