



KEY METRICS FROM THE 1H 2021 NETSCOUT THREAT INTELLIGENCE REPORT

# INDIA

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

# 21

#### ATTACK VECTORS USED

1. CLDAP amplification
2. DNS
3. DNS amplification
4. ICMP
5. ISAKMP
6. L2TP amplification
7. MDNS amplification
8. Memcached amplification
9. NetBIOS amplification
10. NTP amplification
11. OpenVPN amplification
12. rpcbind amplification
13. SIP amplification
14. SNMP amplification
15. SSDP amplification
16. STUN amplification
17. TCP ACK
18. TCP RST
19. TCP SYN
20. TCP SYN/ACK amplification
21. Ubiquiti amplification

### Top 5 Attack Vectors

<b>Ts</b> TCP SYN	<b>Dn</b> DNS amp	<b>Ta</b> TCP ACK	<b>Ds</b> DNS	<b>Im</b> ICMP
NUMBER OF ATTACKS 33,763	NUMBER OF ATTACKS 16,726	NUMBER OF ATTACKS 14,307	NUMBER OF ATTACKS 13,707	NUMBER OF ATTACKS 10,034

### DDoS Statistics

Attack Frequency	+62%
Max Throughput	+49%
Average Duration	+385%
Max Attack Size	+21%

### Largest Attack

Size	360.61 Gbps
Speed	34.54 Mpps
Duration	503 Seconds

### Max Peak Throughput

Date	03/01/2021
Max Throughput	132 Mpps




### Max Peak Bandwidth

Date	04/01/2021
Max Bandwidth	374 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	 <b>Wireless Telecommunications Carriers (except Satellite)</b>	26,296	112.28 Gbps	22.58 Mpps	349.4 Minutes
2	 <b>Wired Telecommunications Carriers</b>	3,906	79.73 Gbps	24.81 Mpps	127.6 Minutes
3	 <b>Data Processing, Hosting + Related Services</b>	3,777	84.18 Gbps	29.72 Mpps	83.4 Minutes
4	 <b>Electronic Shopping + Mail-Order Houses</b>	2,384	42.81 Gbps	8.11 Mpps	163.8 Minutes
5	 <b>All Other Telecommunications</b>	862	27.38 Gbps	4.79 Mpps	87.2 Minutes
6	 <b>Electronic Computer Manufacturing</b>	611	46.00 Gbps	13.03 Mpps	56.8 Minutes
7	 <b>Investment Banking + Securities Dealing</b>	277	1.10 Gbps	0.30 Mpps	377.2 Minutes
8	 <b>Internet Publishing, Broadcasting + Web Search Portals</b>	252	1.44 Gbps	0.19 Mpps	38.7 Minutes
9	 <b>Software Publishers</b>	155	18.36 Gbps	3.28 Mpps	104.4 Minutes
10	 <b>All Other Professional, Scientific + Technical Services</b>	63	5.62 Gbps	1.33 Mpps	44.6 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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