



KEY METRICS FROM THE 1H 2021 NETSCOUT THREAT INTELLIGENCE REPORT

AUSTRALIA



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

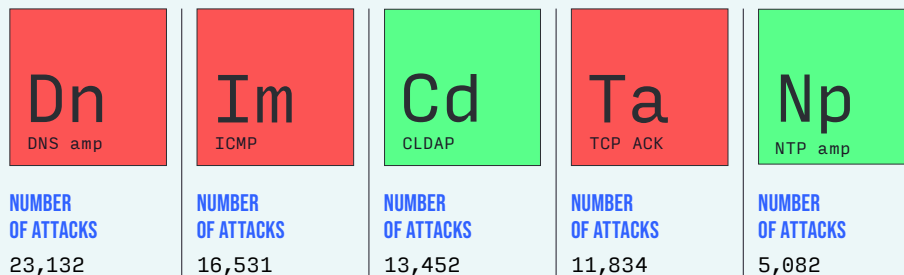
Max number of vectors seen in a single attack

23

ATTACK VECTORS USED

1. Chargen amplification
2. CLDAP amplification
3. DNS
4. DNS amplification
5. ICMP
6. ISAKMP
7. L2TP amplification
8. MDNS amplification
9. Memcached amplification
10. MSSQLRS amplification
11. NetBIOS amplification
12. NTP amplification
13. OpenVPN amplification
14. RIPv1 amplification
15. rpcbnd amplification
16. SNMP amplification
17. SSDP amplification
18. TCP ACK
19. TCP NULL
20. TCP RST
21. TCP SYN
22. TCP SYN/ACK amplification
23. Ubiquiti amplification

Top 5 Attack Vectors



DDoS Statistics

Attack Frequency	-34%
Max Throughput	-34%
Average Duration	+13%
Max Attack Size	+60%

Largest Attack

Size	360.34 Gbps
Speed	35.12 Mpps
Duration	737 Seconds

Max Peak Throughput

Date	05/01/2021
Max Throughput	226 Mpps

Max Peak Bandwidth

Date	05/01/2021
Max Bandwidth	1.061 Tbps



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	 Wired Telecommunications Carriers	3,065	90.86 Gbps	19.71 Mpps	37.3 Minutes
2	 Data Processing, Hosting + Related Services	1,682	97.35 Gbps	22.10 Mpps	41.8 Minutes
3	 Wireless Telecommunications Carriers (except Satellite)	1,294	93.80 Gbps	19.16 Mpps	57.2 Minutes
4	 Electronic Computer Manufacturing	1,276	51.41 Gbps	17.69 Mpps	68.8 Minutes
5	 Electronic Shopping + Mail-Order Houses	564	100.29 Gbps	19.59 Mpps	29.8 Minutes
6	 Internet Publishing, Broadcasting + Web Search Portals	245	1.65 Gbps	0.20 Mpps	58.3 Minutes
7	 All Other Telecommunications	220	82.18 Gbps	16.36 Mpps	60.5 Minutes
8	 Process Physical Distribution + Logistics Consulting Services	152	9.05 Gbps	1.36 Mpps	34.4 Minutes
9	 Software Publishers	149	1.48 Gbps	0.15 Mpps	61.0 Minutes
10	 Landscaping Services	97	4.90 Gbps	0.53 Mpps	45.9 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](#)

NETSCOUT

© 2021 NETSCOUT SYSTEMS, INC. All rights reserved. NETSCOUT, and the NETSCOUT logo are registered trademarks of NETSCOUT SYSTEMS, INC., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brands and product names and registered and unregistered trademarks are the sole property of their respective owners.

SECR_028_EN-2102 09/2021