

KEY METRICS FROM THE 1H 2021 NETSCOUT THREAT INTELLIGENCE REPORT

# SAUDI ARABIA

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

# 26

#### ATTACK VECTORS USED

1. Chargen amplification
2. Citrix-ICA amplification
3. CLDAP amplification
4. DNS
5. DNS amplification
6. ICMP
7. IPMI amplification
8. IPv4 Protocol 0
9. ISAKMP
10. L2TP amplification
11. mDNS amplification
12. Memcached amplification
13. MSSQLRS amplification
14. NetBIOS amplification
15. NTP amplification
16. OpenVPN amplification
17. RIPv1 amplification
18. rpcbind amplification
19. SNMP amplification
20. SSDP amplification
21. TCP ACK
22. TCP NULL
23. TCP RST
24. TCP SYN
25. TCP SYN/ACK amplification
26. Ubiquiti amplification

### DDoS Statistics

Attack Frequency	+250%
Max Throughput	+1%
Average Duration	+92%
Max Attack Size	+13%

### Largest Attack

Size	352.74 Gbps
Speed	31.06 Mpps
Duration	353 Seconds

### Max Peak Throughput

Date	04/01/2021
Max Throughput	96 Mpps

### Max Peak Bandwidth

Date	04/01/2021
Max Bandwidth	479 Gbps



### Top 5 Attack Vectors

<div style="background-color: #f06292; padding: 10px; text-align: center;"> <h2>Ta</h2> <p>TCP ACK</p> </div> <p>NUMBER OF ATTACKS</p> <p>73,400</p>	<div style="background-color: #4db6ac; padding: 10px; text-align: center;"> <h2>Np</h2> <p>NTP amp</p> </div> <p>NUMBER OF ATTACKS</p> <p>14,026</p>	<div style="background-color: #f06292; padding: 10px; text-align: center;"> <h2>Dn</h2> <p>DNS amp</p> </div> <p>NUMBER OF ATTACKS</p> <p>10,787</p>	<div style="background-color: #f06292; padding: 10px; text-align: center;"> <h2>Im</h2> <p>ICMP</p> </div> <p>NUMBER OF ATTACKS</p> <p>10,621</p>	<div style="background-color: #f06292; padding: 10px; text-align: center;"> <h2>Ts</h2> <p>TCP SYN</p> </div> <p>NUMBER OF ATTACKS</p> <p>9,993</p>
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## Top 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>Wired Telecommunications Carriers</b>	4,236	93.11 Gbps	19.78 Mpps	86.3 Minutes
2	 <b>Data Processing, Hosting + Related Services</b>	150	16.50 Gbps	4.03 Mpps	36.0 Minutes
3	 <b>All Other Telecommunications</b>	71	14.34 Gbps	3.80 Mpps	88.0 Minutes
4	 <b>Computer Storage Device Manufacturing</b>	5	1.97 Gbps	0.23 Mpps	56.8 Minutes
5	 <b>Offices of Physicians (except Mental Health Specialists)</b>	2	0.03 Gbps	0.00 Mpps	14.5 Minutes
6	 <b>Scheduled Passenger Air Transportation</b>	1	0.04 Gbps	0.00 Mpps	42.0 Minutes
7	 <b>Software Publishers</b>	1	0.11 Gbps	0.01 Mpps	12.0 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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