

# 2021–2022 Global Threat Analysis Report

From increased migration to the public cloud to the emergence of prevalent threats such as micro floods, application-layer DDoS attacks and ransom denial of service, 2021 presented organizations with an array of new security challenges and threats.

Radware's latest research provides detailed insight into the attack activity of 2021 and what organizations need to consider for 2022.

## DDoS Attack Trends in 2021

The number of blocked malicious DDoS events per customer

**grew by 37%**

Average DDoS attack volumes per customer

**increased by 26%**

The average volume for large DDoS attacks ranged between

**4.6TB and 51.65TB**

The average duration of large DDoS attacks ranged between

**3.65 hours and 8.72 hours**



## Web Application Attack Trends in 2021

Average blocked malicious web application requests

**grew by 88%**



Broken access control and injection attacks represented

**over 75% web application attacks**



## Cloud Adoption

As businesses migrated to public clouds, threat actors adapted their tactics and techniques via "cloud-scale attacks." Microsoft reported the largest DDoS attack ever recorded, at **3.47Tbps**. It also reported two attacks that were above **2.5Tbps** in Q4 of 2021.



## Botnets

Threat actors maximized botnet resources in 2021 and are expected to launch record-breaking DDoS assaults in 2022.

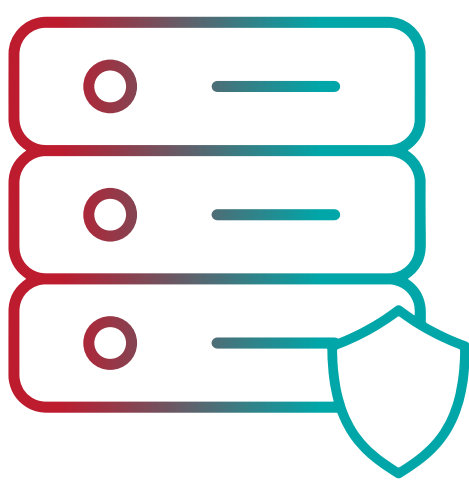
The University of Colorado Boulder and the University of Maryland published research that disclosed how to abuse flaws in

**200 million middleboxes**

The Mëris botnet was used to launch a DDoS attack that generated

**21.8 million requests per second**

and was leveraged for ransom denial-of-service attacks.



## Micro Floods and Application-Layer DDoS Attacks

Micro floods and slower attacks, such as application-layer attacks, can go undetected and consume resources. The number of micro floods **increased by 79%** in 2021 compared to 2020.

Preparing for the next generation of cyberattacks requires organizations to stay ahead of the threat landscape. [Download the full report](#) to learn more.

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