

# Cheap and Nasty: The Anatomy of a DDoS Attack

Distributed Denial of Service (DDoS) attacks capable of crippling websites and network resources for days can be bought online for as little as \$5 an hour<sup>1</sup>.

With consequences including significant financial losses, damaged client relationships and lost productivity, that's a lot of bang for the cybercriminal's buck.

Protecting your business starts with understanding the DDoS ecosystem - and how your organization is impacted...



## Most Targeted Industries

DDoS attacks on some industries increased significantly during the COVID-19 pandemic<sup>2</sup>.

A typical DDoS attack is executed using a **botnet**.

A **botnet** is a group of malware-infected devices that cybercriminals can use like an enslaved army of cyber weapons to launch DDoS attacks, without the device-owners even knowing they're infected.

Historically, DDoS attacks were associated with hackers and professional cybercriminal gangs. Today, anyone can hire an attack - and automate it - without needing any programming skills whatsoever.

- +108% Automobile
- +53% Telecommunications / Internet Service Providers
- +43% Marketing
- +32% Gambling
- +30% Financial Services

## The Cyber Arms Dealers

Tools of the trade vary, but there's a botnet to suit every type of attacker...

What They Are	What They Do
<b>The Kit Maker</b>	Builds user-friendly toolkits that make botnets accessible to anyone.
<b>The Builder</b>	Uses malware kits to build botnets for herders and booters.
<b>The Bot Herder</b>	Controls botnets using remote command-and-control servers.
<b>The Booter</b>	Sells botnets and toolkits under the guise of legitimate server stresser tools.

## The Cybercriminals

Who buys these weapons, and why might they attack you?

<b>The Hacktivist</b> To promote political, social or other causes by defacing targeted websites, leaking information etc.	<b>The Intimidator</b> To suppress free speech and political discussions	<b>The Bully</b> To harass and intimidate online users
<b>The Extortionist</b> For money (Pro tip: Don't give it to them)	<b>The Hired Gun</b> Like assassins, it's how they earn their living.	<b>The Script Kiddie</b> To show off to their peers or just for the heck of it.

## Operation Overload: DDoS and the Bottom Line

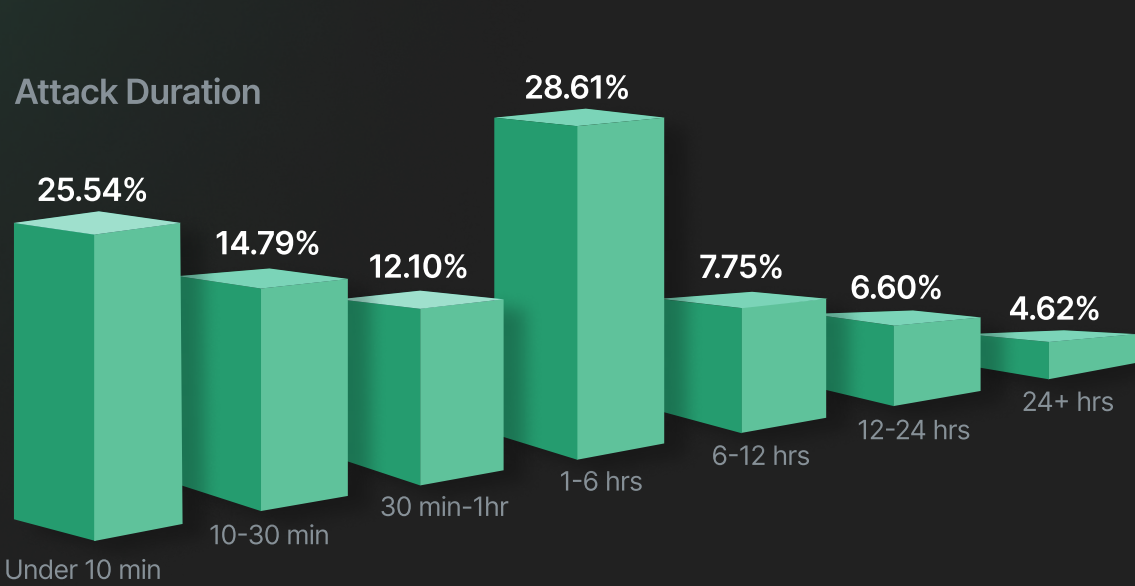
Even a few minutes of downtime can have far-reaching effects for your business. It can take days, or even weeks, to recover from a DDoS attack.

- 91%** of organizations have experienced downtime from DDoS
- 90%** of companies have experienced at least one DDoS attack over a 12 month period
- 25%** of DDoS attack targets are hit **10 times or more**

## Counting the Cost

\$100k is the average cost of just **one hour of downtime**.

- 34%** report costs in excess of \$1m for an hour of downtime<sup>3</sup>
- 545** hours of staff productivity lost to IT downtime every year<sup>4</sup>
- 72** most DDoS attacks stop within 72 hours, some last just minutes
- 10** Days the longest DDoS attacks in 2020 lasted over 254 hours



## Big Bang for Small Bucks

A 24-hour DDoS attack costs cybercriminals just \$540 to execute<sup>5</sup>.

24 hours DDoS Attack  
**\$ 540**

## The Hidden Cost

From helpdesk meltdowns to reputational damage, the costs of a cyberattack are far-reaching...

### The hidden cost of a 12 hour outage...

- 39** engineers working to mitigate the damage
- \$42** K / hour website down
- 30** minute status updates, impacting resources across the business
- \$44** K x 12 centers contact center chaos
- \$616** K lost productivity<sup>6</sup>

DDoS attacks come in many shapes and sizes and are almost impossible to prevent on your own.

Learn more about protecting your organization from DDoS attacks here:

[imperva.com](https://imperva.com)

<sup>1</sup> Imperva, Global DDoS Threat Landscape Report 2020  
<sup>2</sup> Imperva, DDoS Attacks during Covid-19  
<sup>3</sup> ITC Global Server Hardware Reliability Survey  
<sup>4</sup> ERS IT, The Costs of IT Downtime  
<sup>5</sup> Imperva, DDoS Attacks: How Imperva Mitigates Increasingly Powerful and Sophisticated Attacks  
<sup>6</sup> Real stats from Imperva analysis of an attack on a multinational entertainment company