



Part of F5

## Users data analytics

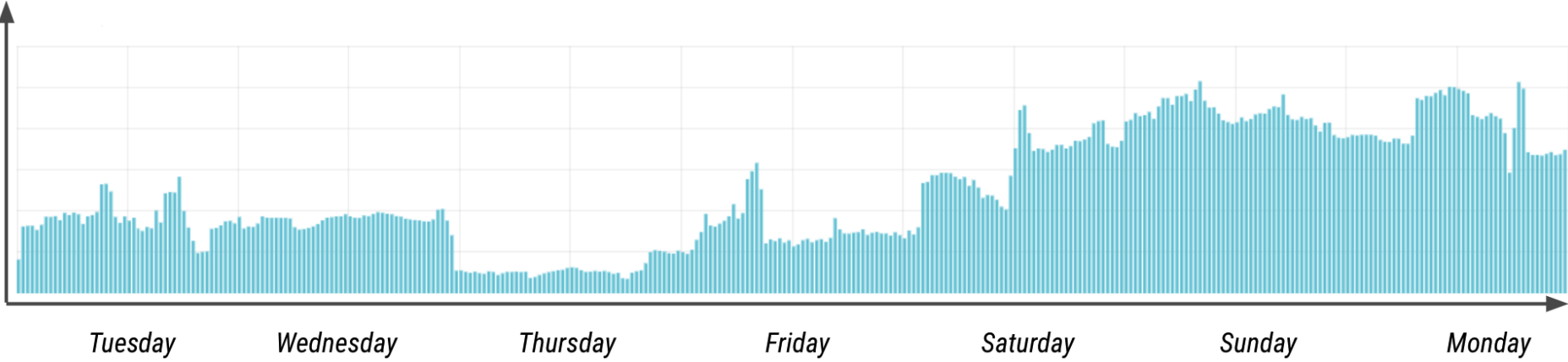
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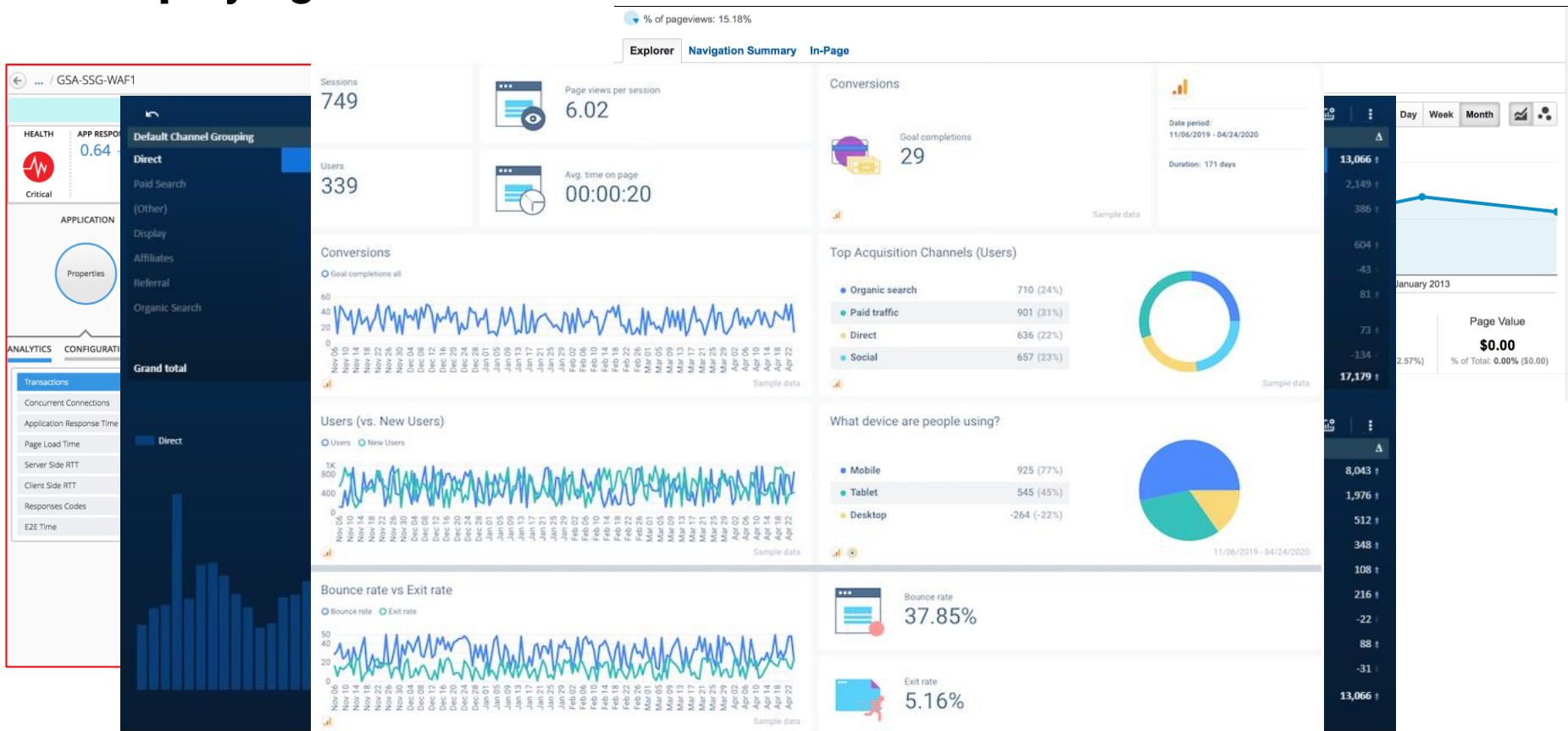
October 2021

# Data view

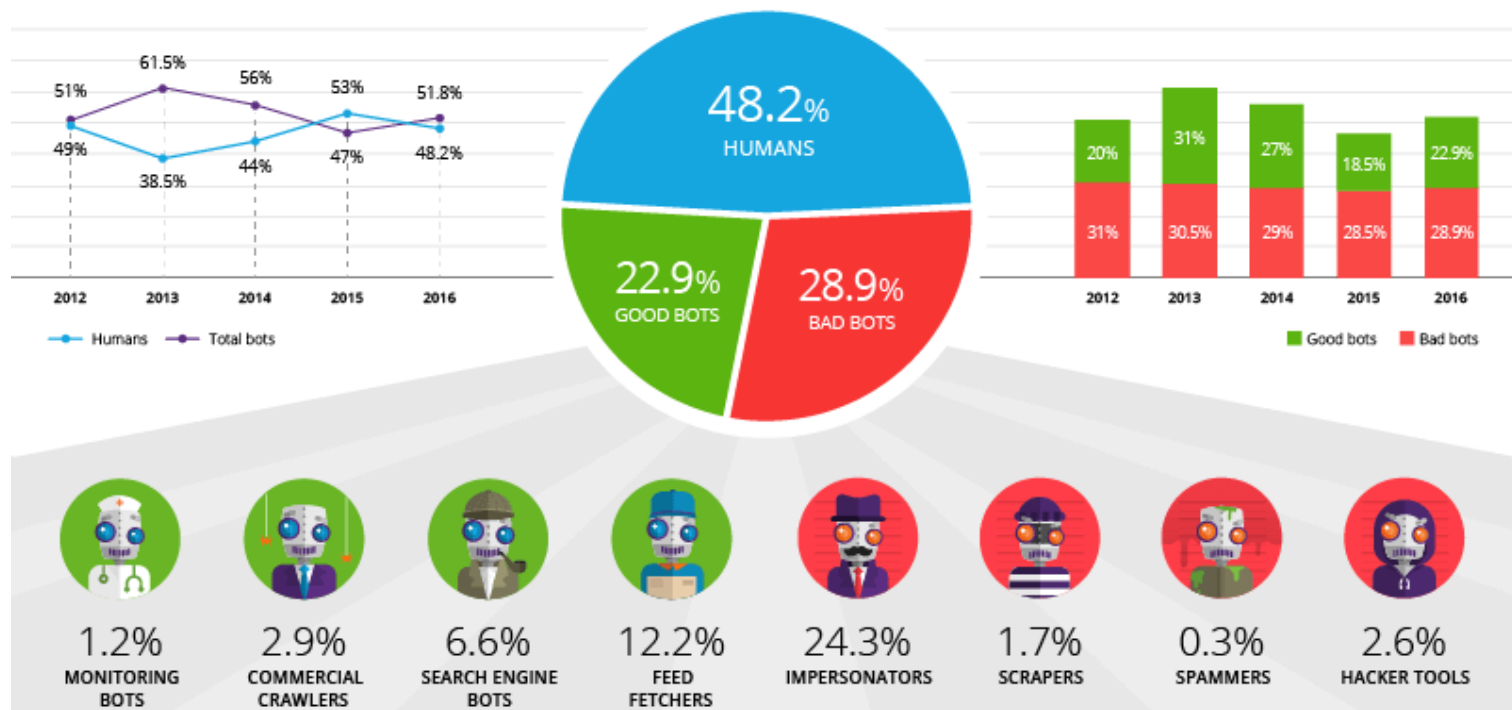
*Logins  
per hour*



# Displaying data



# Who is the visitor?

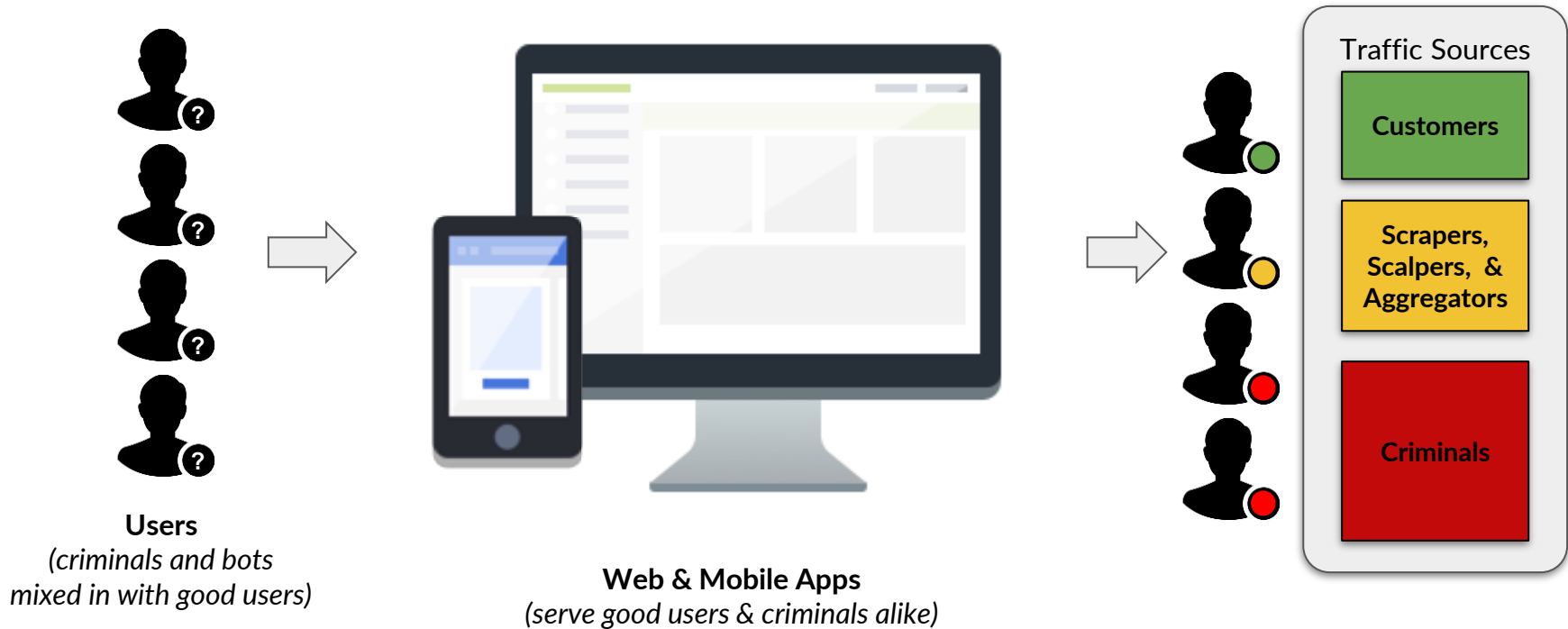


More than 50% of Internet traffic are Bots

# How to distinguish them?

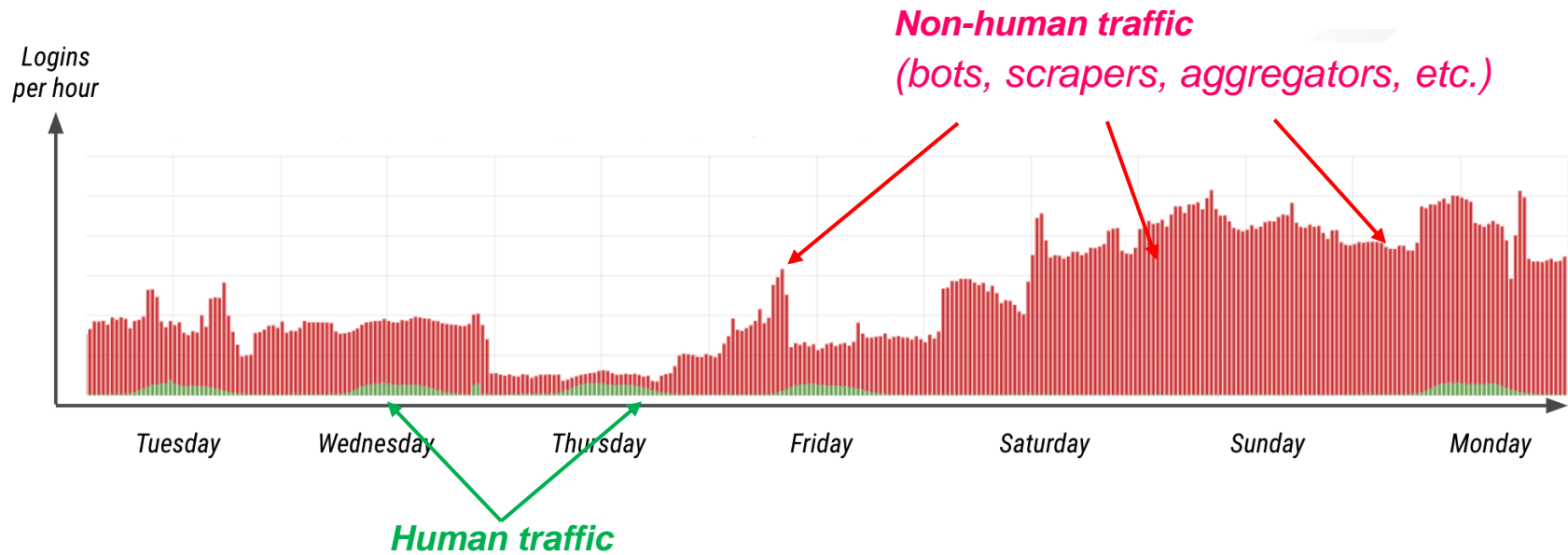


# Mimic Human Behaviour



Attackers are abusing inherent functionality to conduct automated & manual fraud

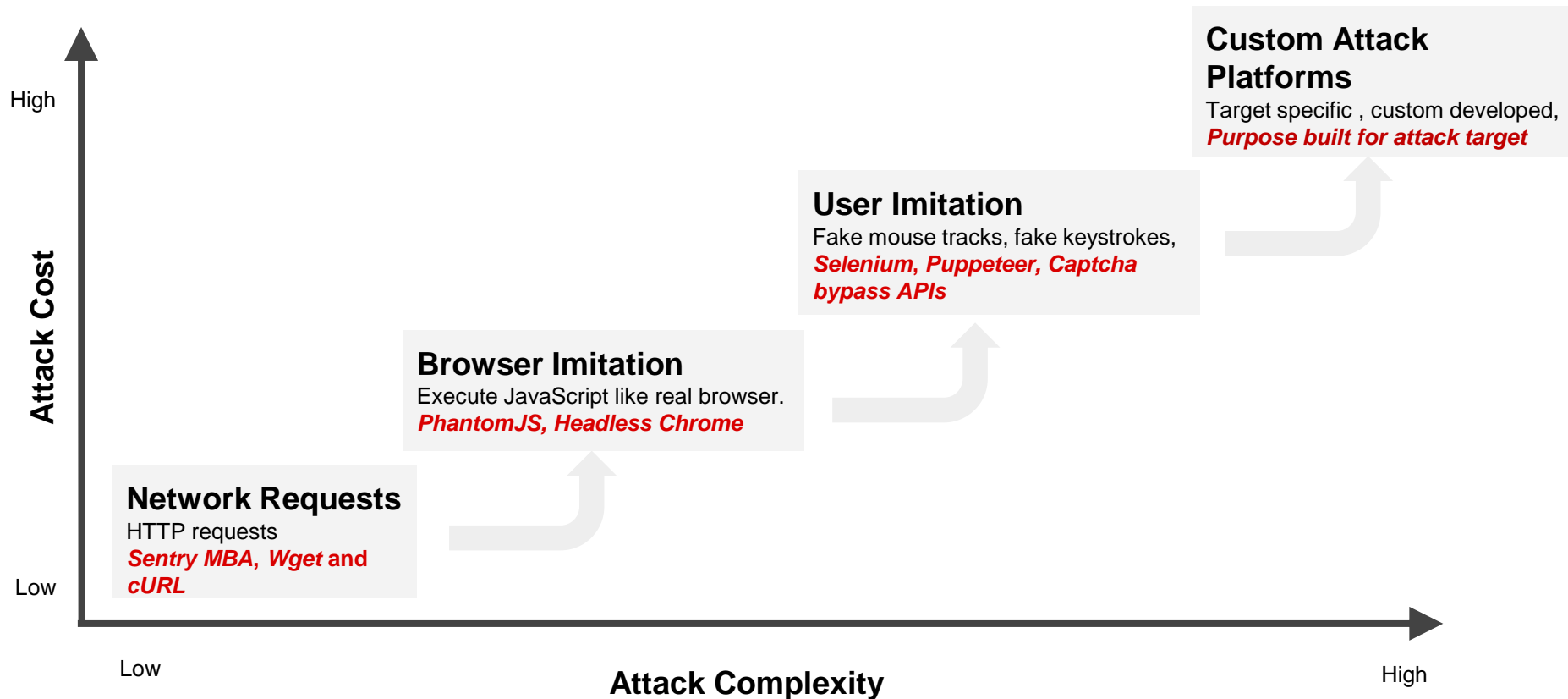
# Actual data





# Evolution of Automated Attacks

Disrupt the economics for motivated attackers





# Attackers Tool Kits – Low cost of entry

9M+ stolen  
credentials  
leaked daily  
**FREE to \$\$\$**



Botnets of real  
user machines  
**\$2 per hour - 1,000 IPs**

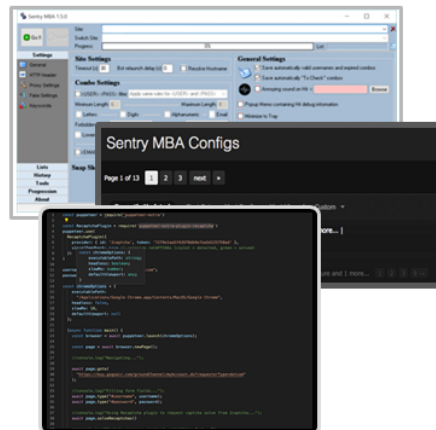
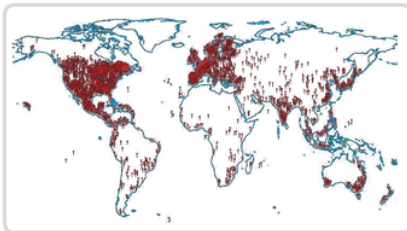


Tools to imitate  
humans on any site  
**\$50 per config**

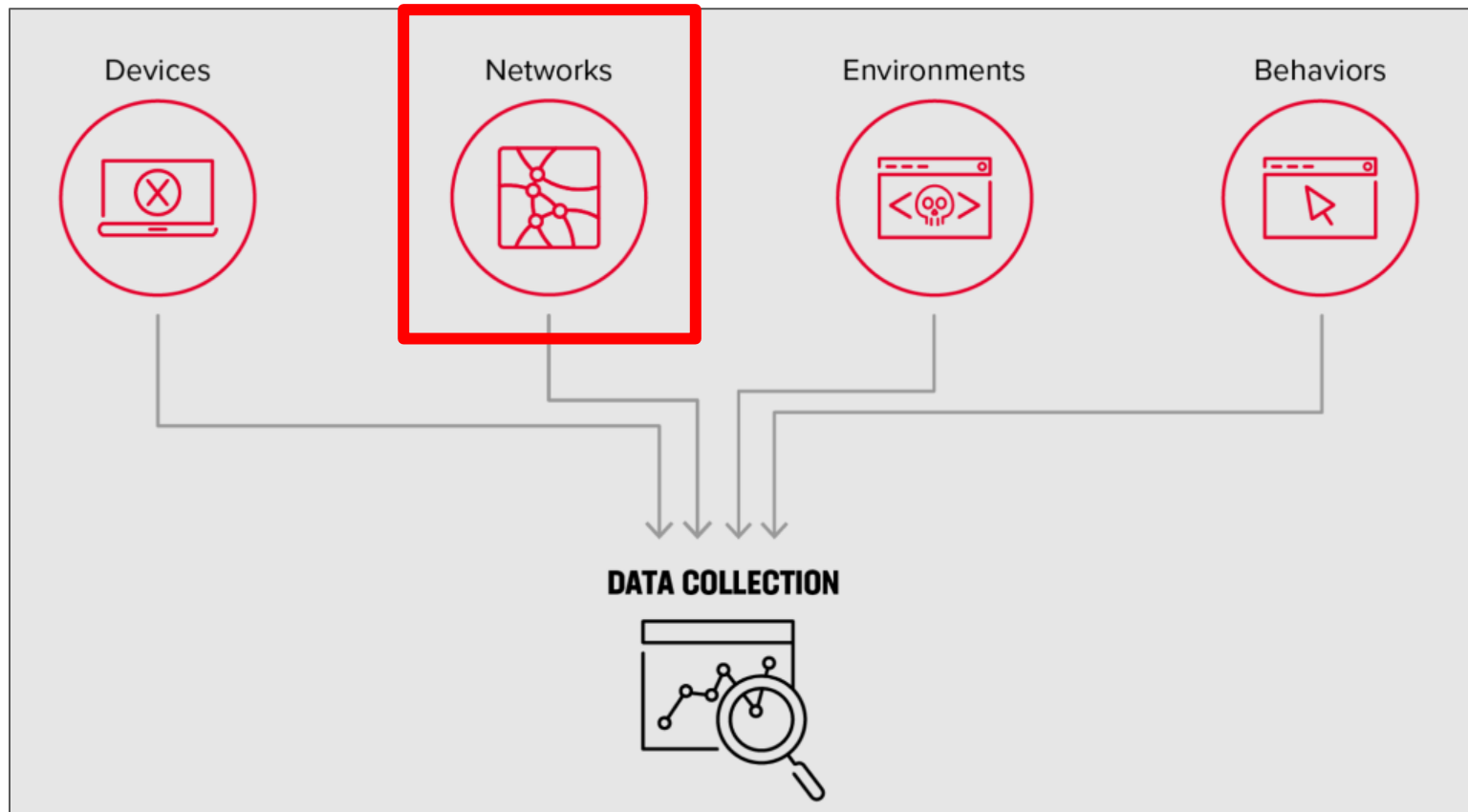


Specialty services  
to solve CAPTCHA  
**\$1.39 per 1000**

```
ffgsswf:12345
egbert-swizlebottom:abc123
blackdestroyer:password
blalblackops:computer
blackopspsyou:123456
bj_Quant:tigger
shawwP:1234
blackopsk1ev:hello
HabeZers:ranger
typpl:shadow
m_inf
232142:baseball
cRaZe
akacri
cRaZeMav:hockey
akacri:m:letmein
fabianfu22:maggie
gurcheb9:blackops:mike
enZiiFyy00:mustang
deniedkth:snoopy
Packie3:buster
nZwieFka:dragon
Shredder8910:Jordan
denie
nZwie
binkaaa:michelle
Shred
Ins tantClassic3:michael
binkaaa:michelle
```



# New logic for new attacks



# The journey

## FICTION

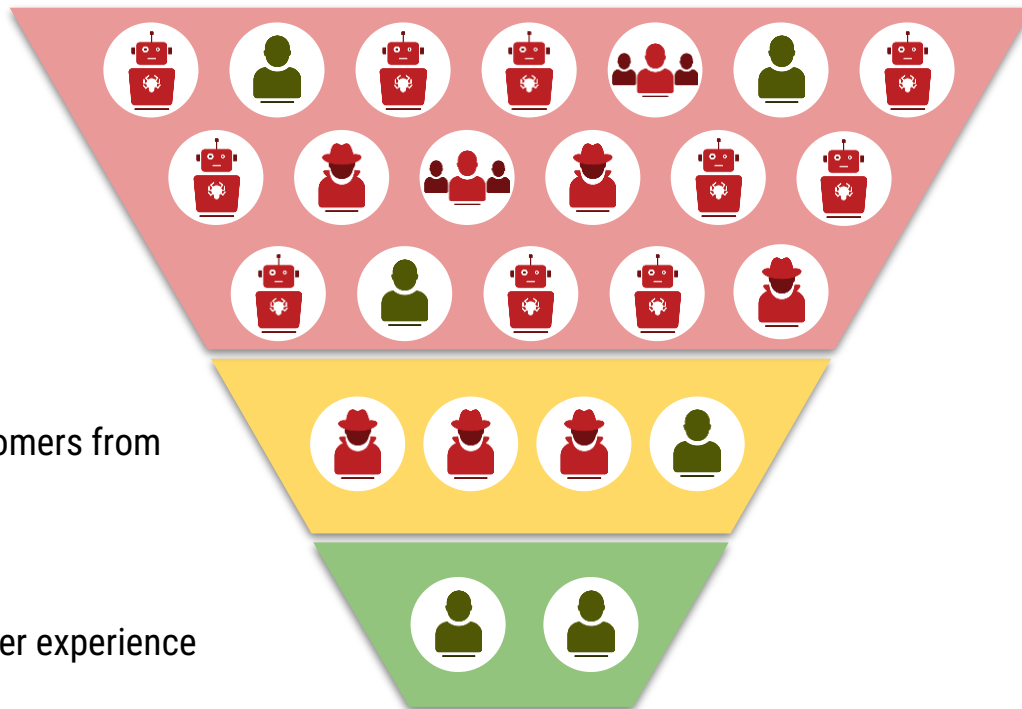
Identify and mitigate unwanted traffic

## FRAUD

Differentiate good customers from bad customers

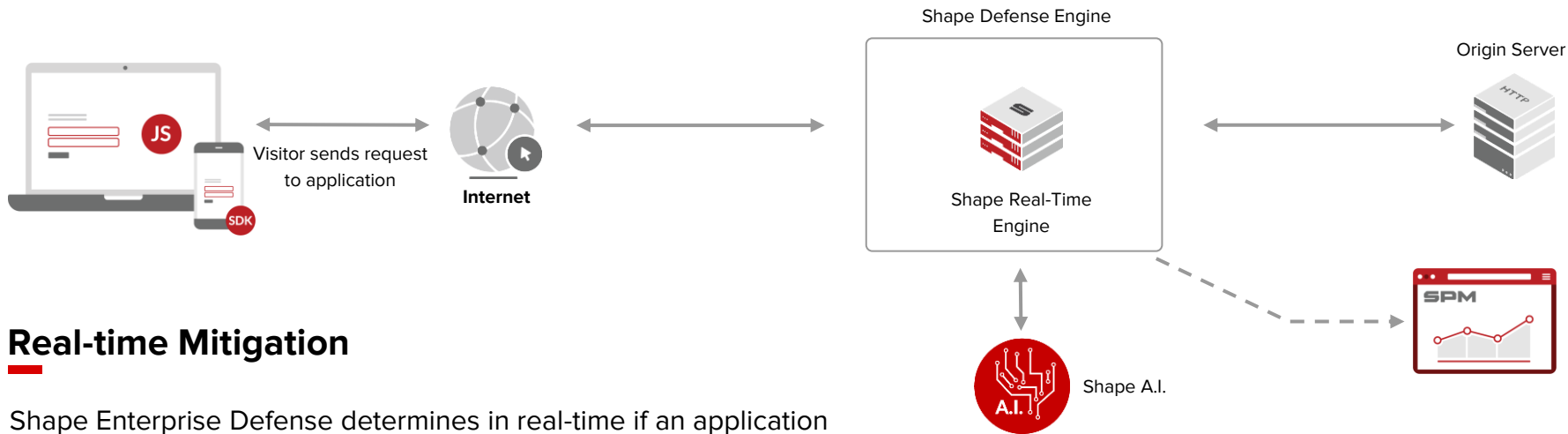
## FRICION

Create a friction free user experience and increase revenue



# How Shape Works

Shape's resilient protection is based on advanced signals, not basic patterns or journeys



## Real-time Mitigation

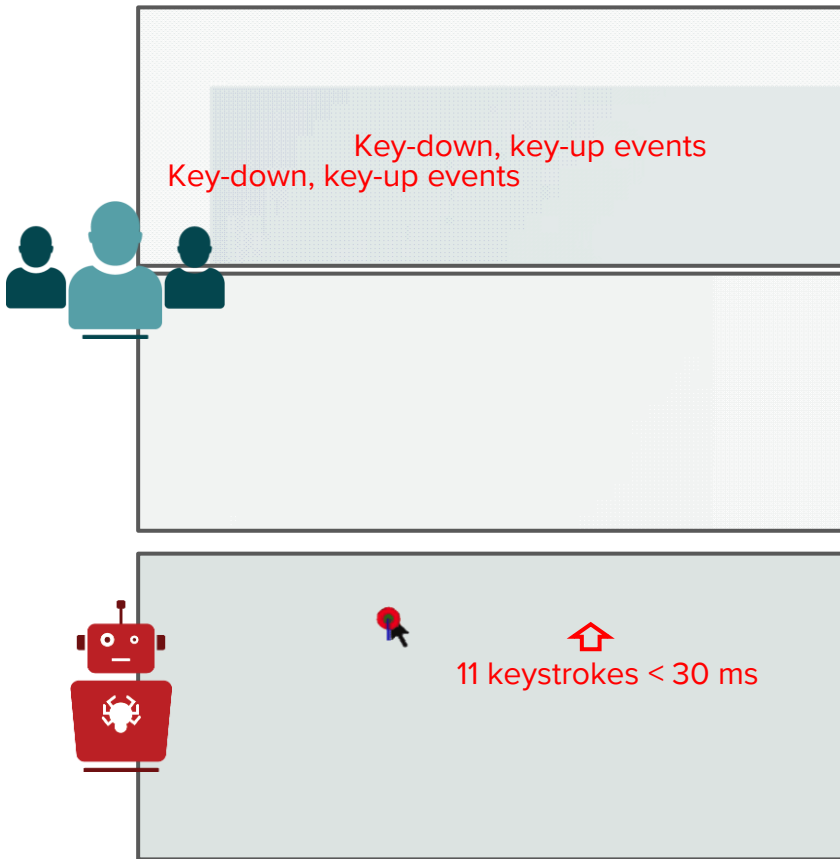
Shape Enterprise Defense determines in real-time if an application request is from a fraudulent source and then takes an enterprise-specified action, such as blocking, redirecting, or flagging the request.

Shape's deployment is **targeted** at attacked application points, decoupling defense from irrelevant application logic and scaling with attacks, rather than the entire application.

# Behavior Signals

Immediate and Long Term Patterns Emerge from Advanced Automation

<b>Blue Bar</b>	Key-down.
<b>Orange Bar</b>	Key-up.
<b>Red Circle</b>	Mouse-click.
<b>Green Tick</b>	Captured mouse event.
<b>Dashed Line</b>	High speed movement between two points.
<b>Brown Square</b>	Long pause.
<b>Grey Line</b>	Transition from non-mouse event to mouse event.





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LEADER IN APPLICATION SECURITY FOR  
ANTI-FRAUD AND ABUSE PROTECTION

**1B**

Attacks detected and  
mitigated daily

**150M**

Legitimate human log-ins  
protected per day

**600M**

Mobile devices with  
Shape deployed

**82 patents**

Issued, and 77 additional  
patents pending

## Shape defends the Global 2000



**8**

of the top 12

**U.S. banks**



**2**

of the top 5

**Global hotel chains**



**2**

of the top 10

**Global retailers**



**5**

of the top 10

**Credit card issuers**



**5**

of the top 10

**Global airlines**



**2**

of the top 5

**Insurers**

**SH-PE**

Part of F5

**THANK YOU**