

## Blocking all bots is not a realistic option. How can you detect and block the bad bots before they disrupt operations and commit fraud without causing friction for real or potential customers?

**Detecting Bot Attacks** 

Rate-limit traffic to keep legitimate traffic flowing on your website while you investigate suspicious ones **Identify** known bots using dynamically updated signatures

Benign bots can benefit the business. Bad bots can break the business.

banks in order to implement fraud.

- Use **Reverse Domain Name System** (DNS) lookups to validate search engine requests Challenge requests to verify they are not from an automated script Look for suspicious behavior such as high or irregular traffic patterns and attempts to access restricted files or data using non-compliant searches Assign risk scores to sessions by using a combination of these methods to add or subtract points to a risk score then decide when and what type of action you want to take against risky clients Analyze device, network, and environment signals to uncover anomalous behavior such as login success rates, devices per user, users per device, and variations in IP addresses, user agents, session **Detect human behavior** using artificial intelligence (Al) and machine learning (ML) based on organizations with similar attack profiles and risk surfaces

Adapt to attackers that attempt to bypass

attacks that use bots

countermeasures while maintaining full efficacy

**Extend protections to APIs and mobile apps** which are a growing target for automated

Let Humans and Benign Bots in

In this online ticket purchasing scenario, the deck is stacked against a

human trying to get to the finish line of making a purchase before a bot

can grab tickets. When the tickets are sold out, a fraudster can sell them

As soon as a ticket release

date is known, a criminal will

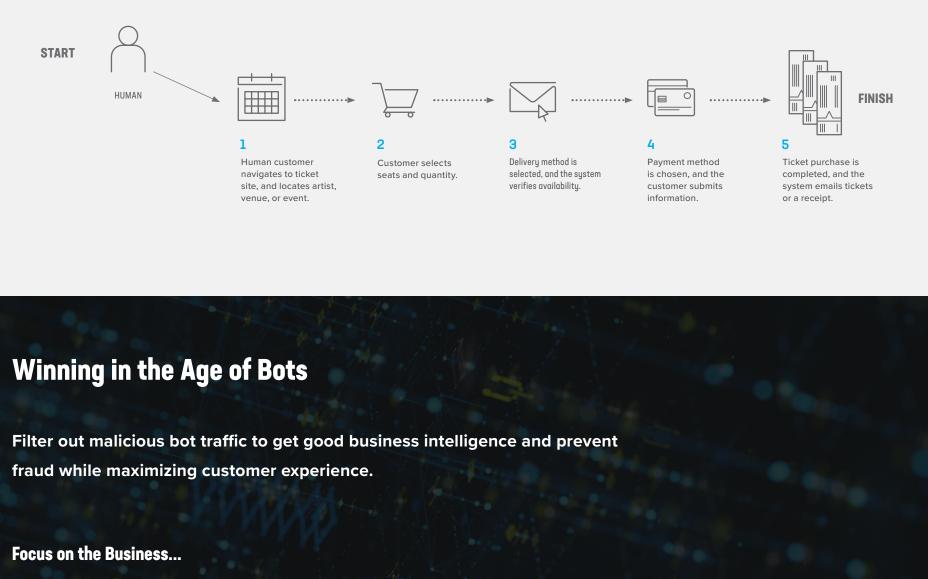
program a bot to "leap frog"

ahead of customers in online

and Keep Malicious Bots Out!

at a higher price at a later date.

THE RACE FOR ONLINE TICKETS



**FINISH** 

Bot-purchased tickets

are sold for a higher

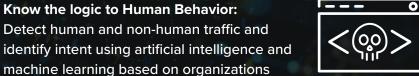
price at a later date.

1. Prevent excessive cloud charges

## and security team distractions due to bot traffic.



Detect human and non-human traffic and



2. Stop credential stuffing attacks

account takeovers.

that can lead to data breaches and

Be first to market but not first to breached: Protect mobile applications and APIs that

are increasingly being targeted by bots and

3. Mitigate sophisticated fraud that

human behavior.

automated attacks.

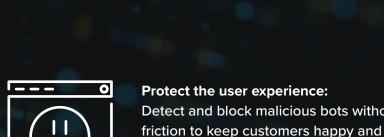
analytics accurate.

uses bots and automation to imitate



**Protect current and potential customers:** Prevent attacks that steal sensitive information directly from the user's browser or mobile device.

with similar attack profiles and risk surfaces.



**Protect the user experience:** Detect and block malicious bots without

For more information about how proactive, multi-layered bot protection can help your organization deliver optimal application security, visit <u>f5.com/bots</u>.

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