



flight

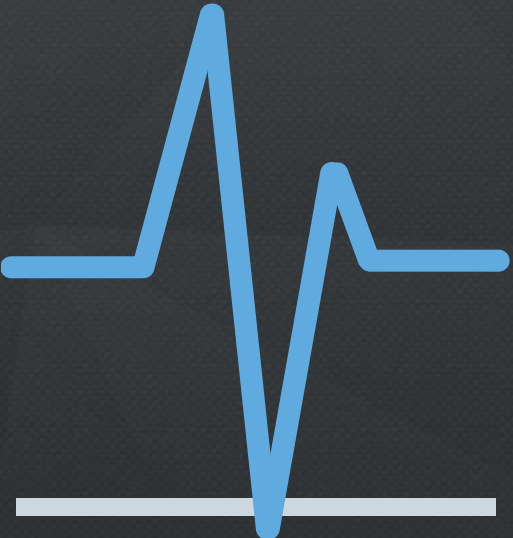


Protecting the Twitter Platform

Lingfeng Guan and Gelin Zhou

Software Engineers | @LingfengGuan @zhougelin

Twitter: An Open Platform



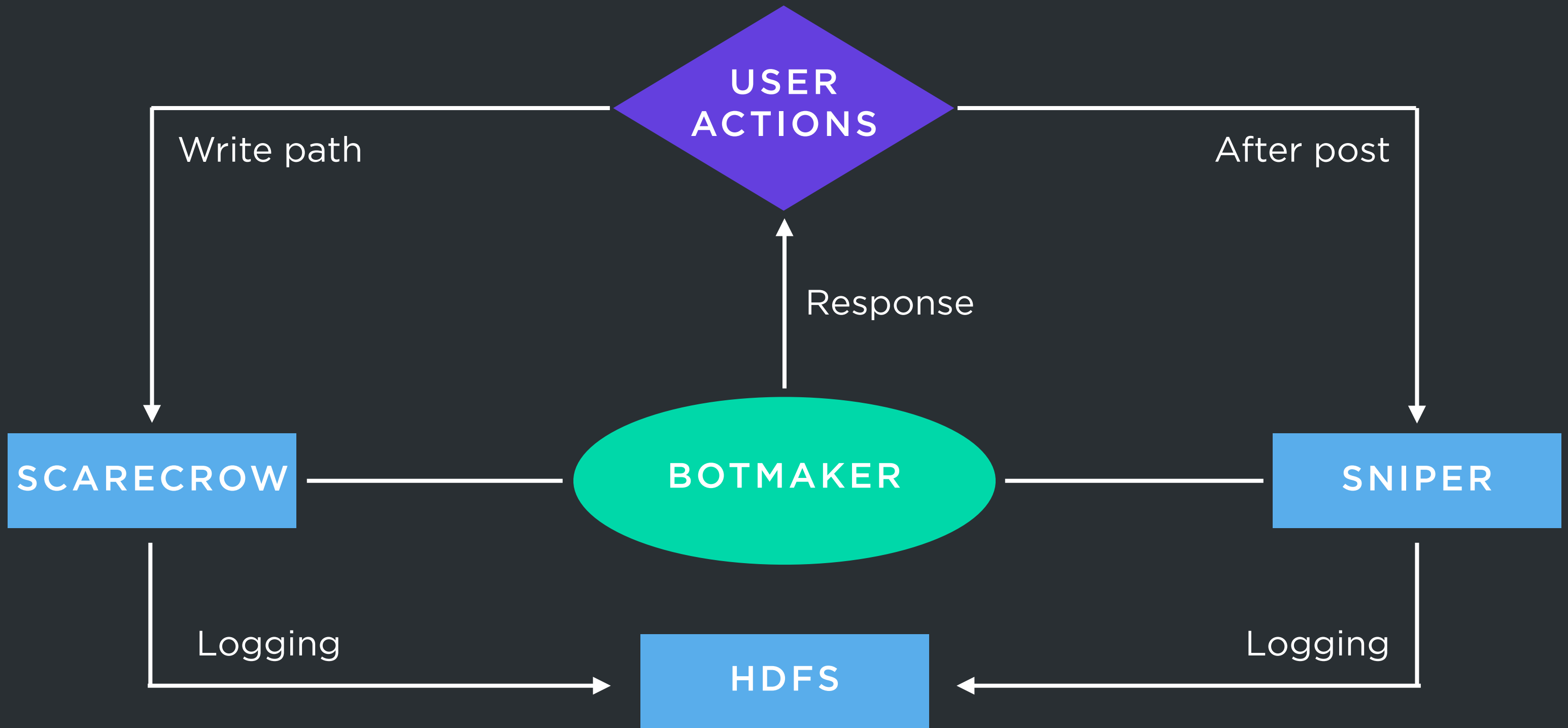
REAL-TIME
CONTENT



ACCESSIBLE
APIS

Protecting The Twitter Platform

- Building Protection against Attacks
- Detecting Attacks
- Lessons Learned



BotMaker

Description:

```
Deny tweets that contain a malicious URL
```

Event:

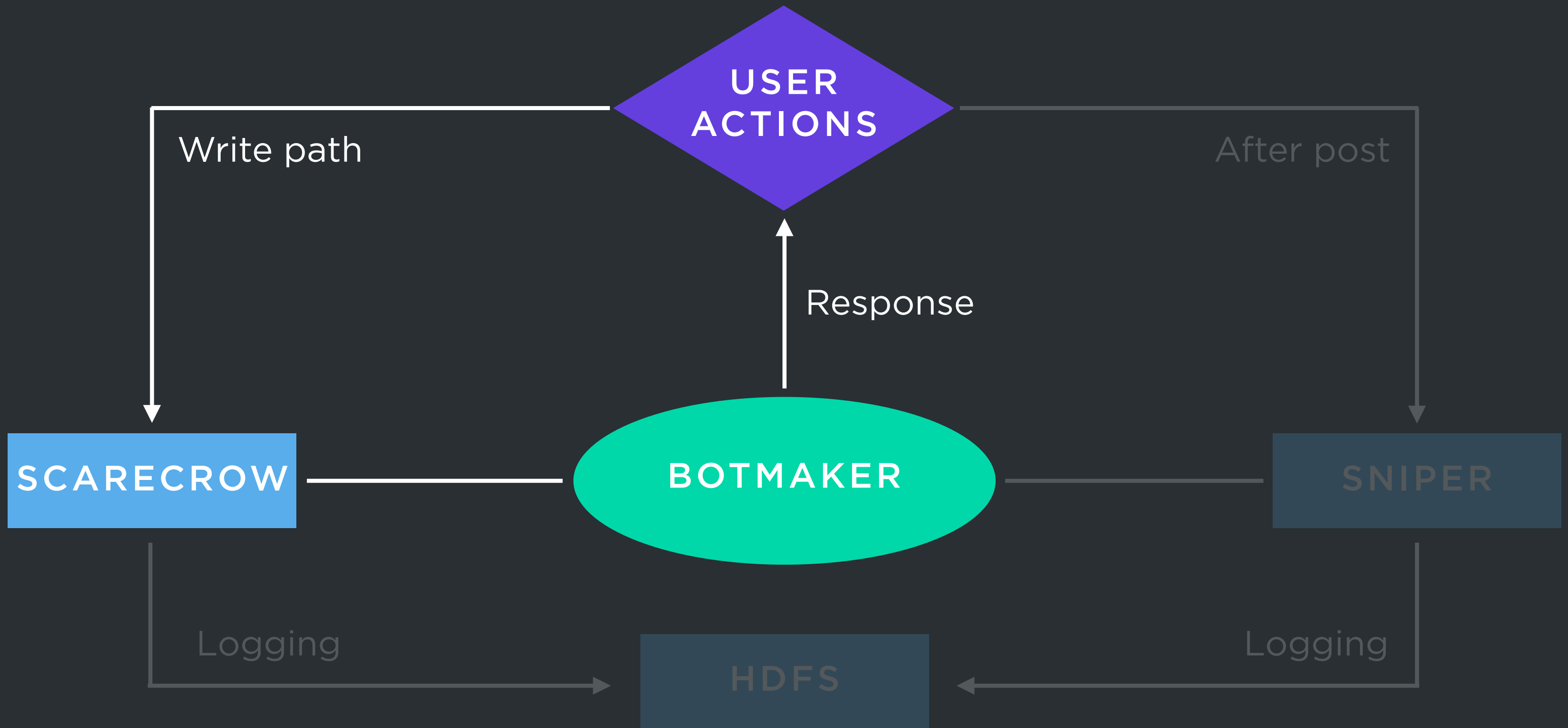
```
tweet_write
```

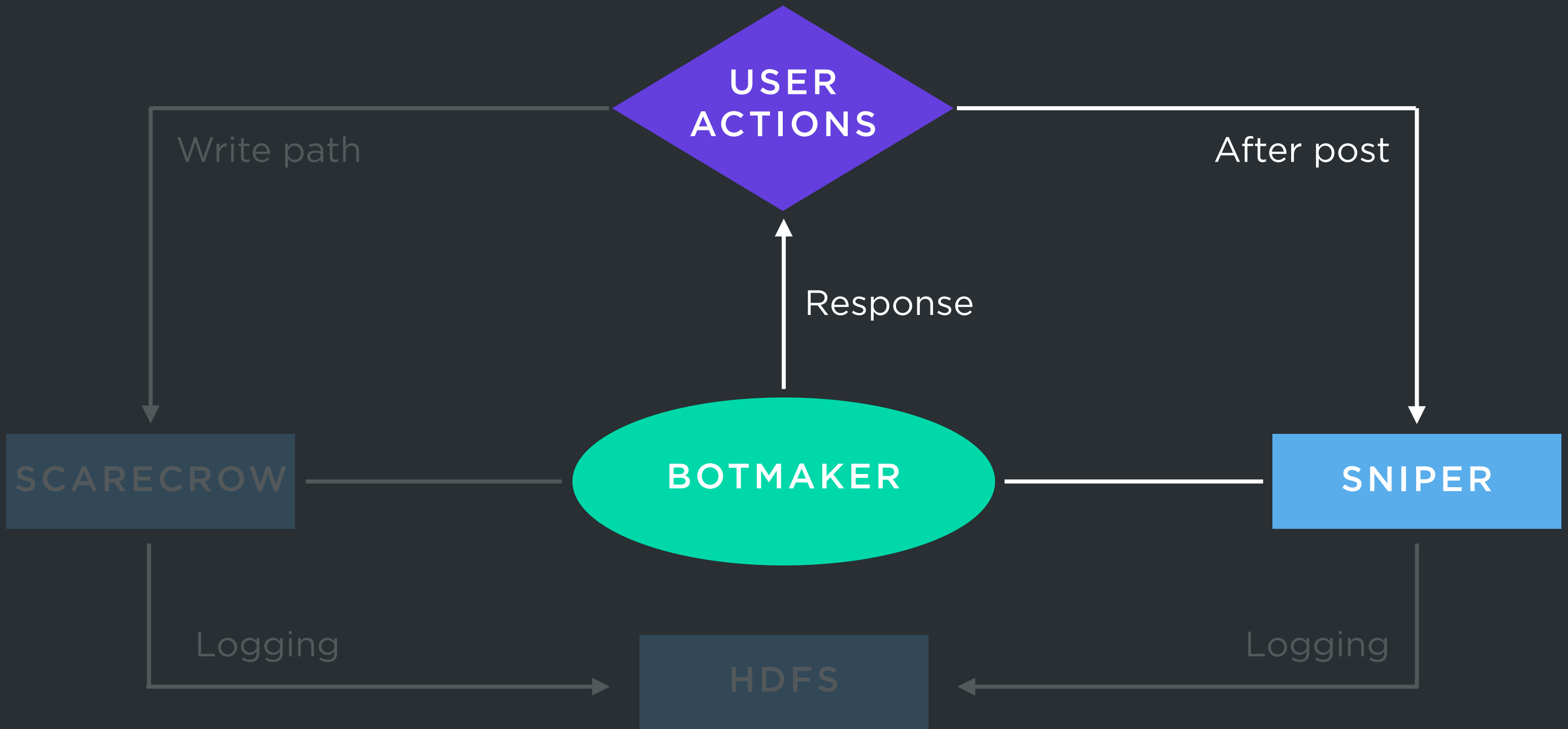
Condition:

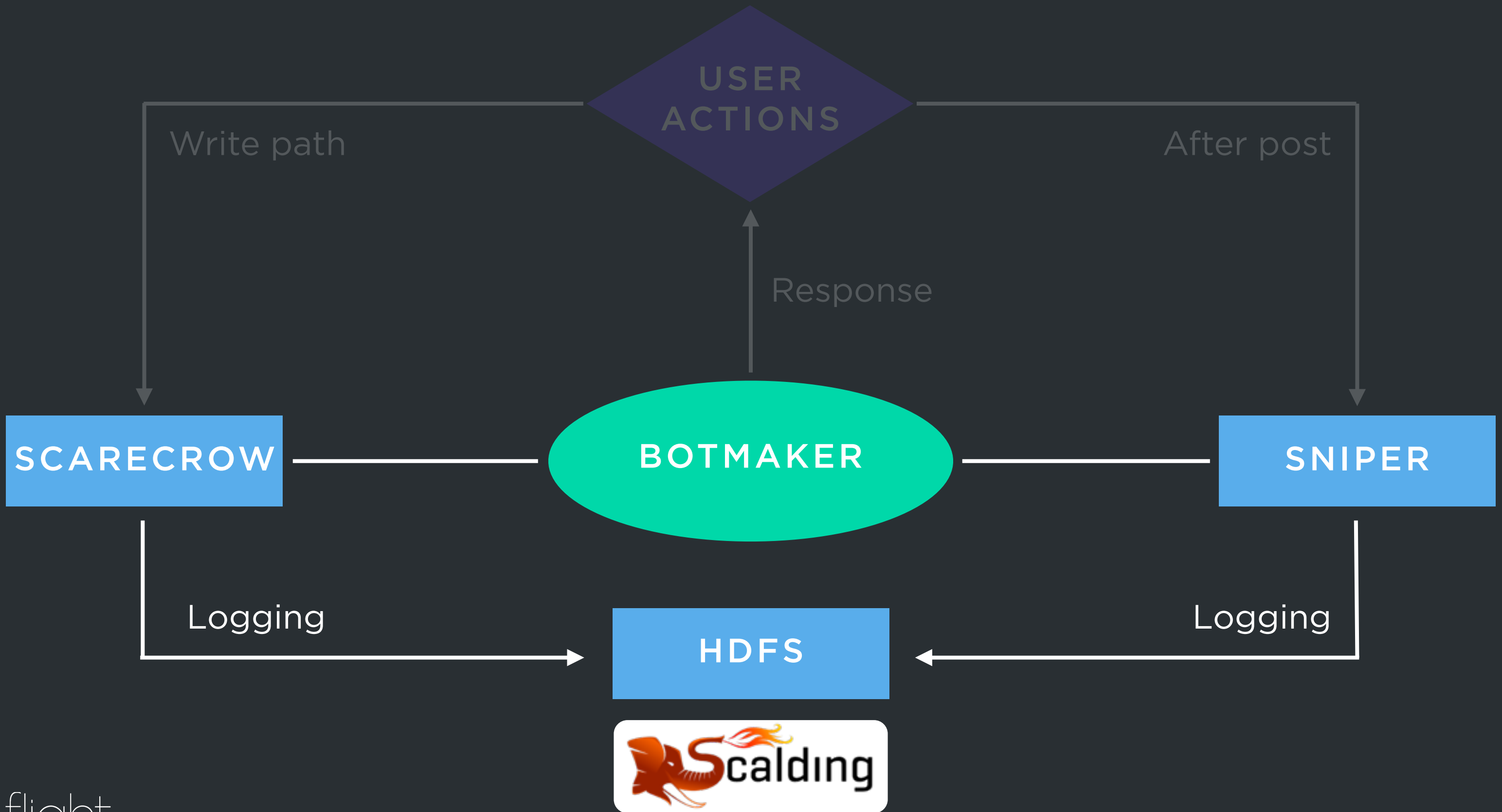
```
tweetText MATCHES ".*MALICIOUS.URL.*"
```

Action:

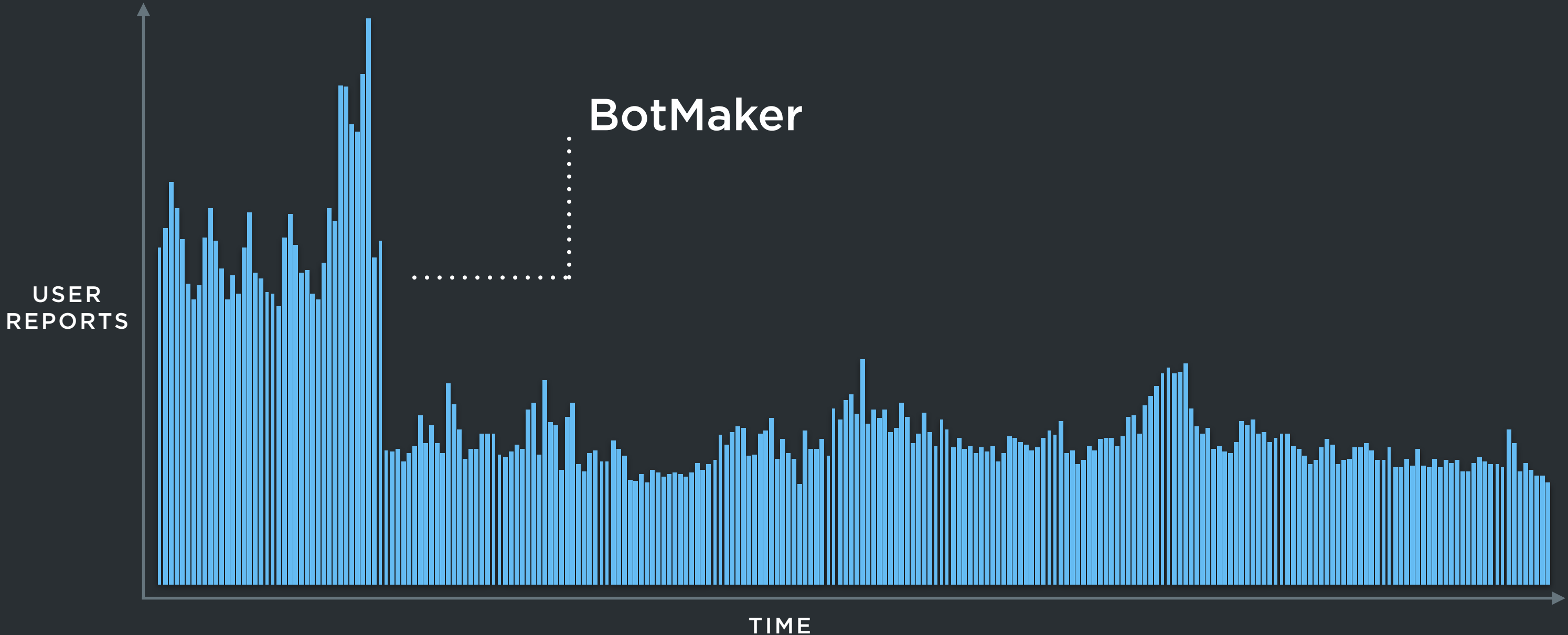
```
Deny()
```



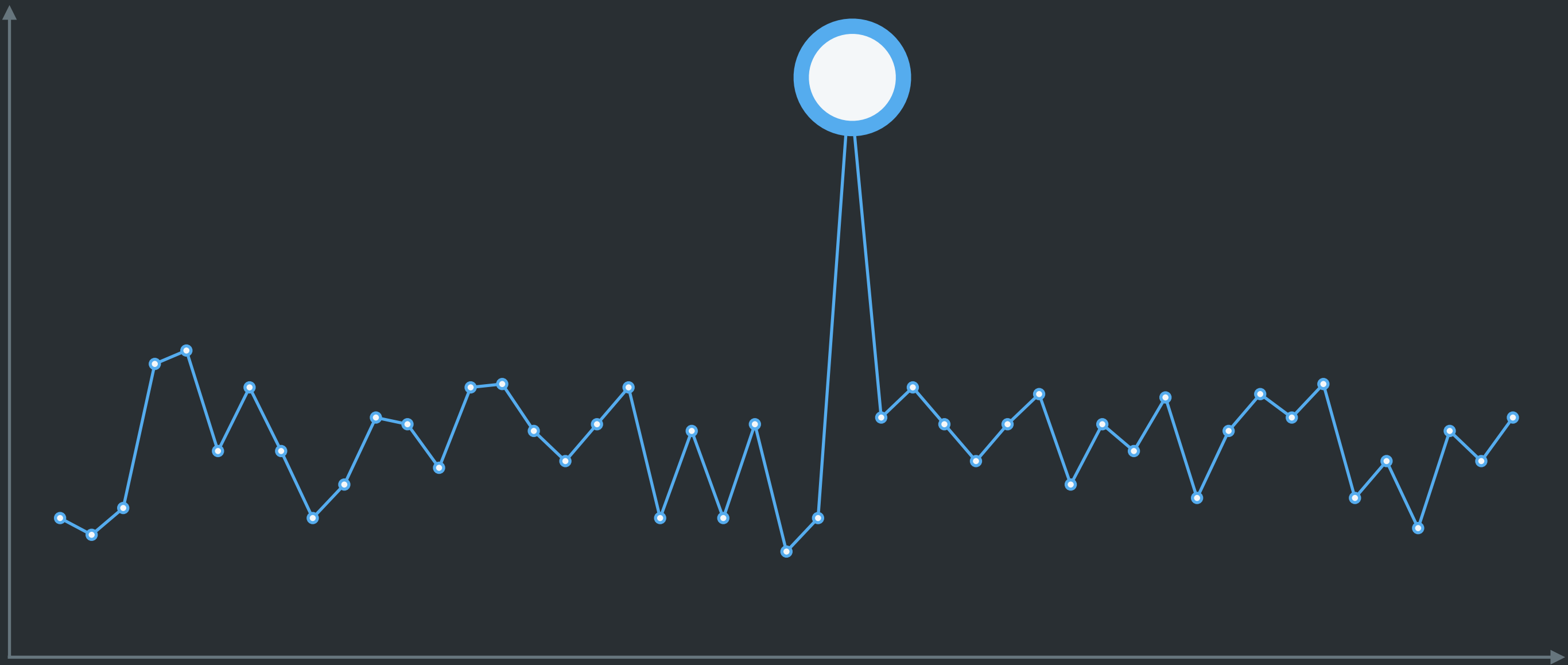




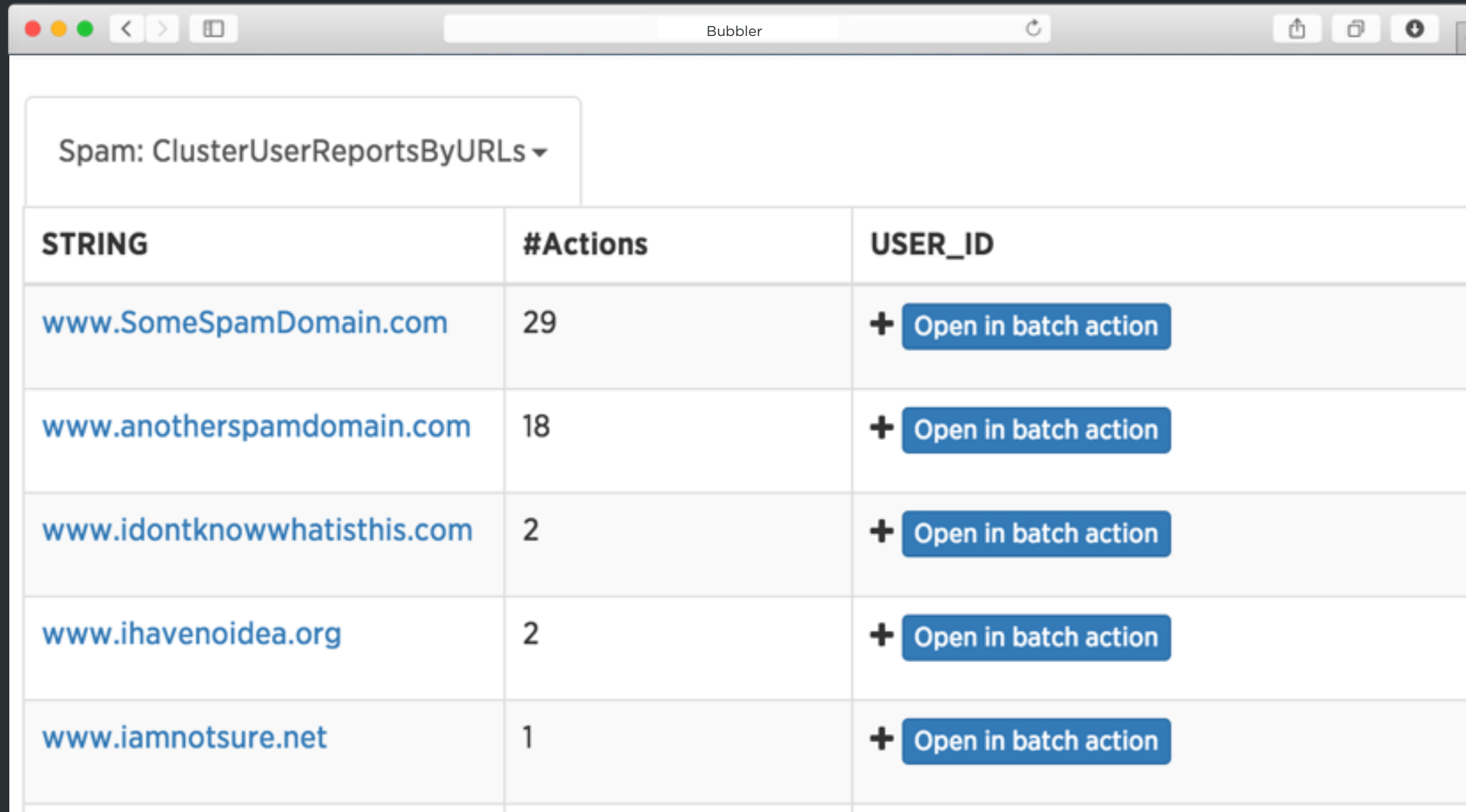
Botmaker



Metrics



Bubler



The screenshot shows a web browser window titled "Bubler". At the top, there is a dropdown menu with the text "Spam: ClusterUserReportsByURLs". Below this is a table with three columns: "STRING", "#Actions", and "USER_ID". The table contains five rows of data, each with a blue button labeled "Open in batch action" in the "USER_ID" column.

STRING	#Actions	USER_ID
www.SomeSpamDomain.com	29	+ Open in batch action
www.anotherspamdomain.com	18	+ Open in batch action
www.idontknowwhatisthis.com	2	+ Open in batch action
www.ihavenoidea.org	2	+ Open in batch action
www.iamnotsure.net	1	+ Open in batch action

What We Learned

A FEW ANECDOTES

App Impersonation



Cool Dude

@CoolDude1124

@Alex Cool stuff! www.short.url/123456



1234



Authorize Twitter for iPhone to use your account?

Authorize app

Cancel

This application will be able to:

- Read Tweets from your timeline.
- See who you follow, and follow new people.
- Update your profile.
- Post Tweets for you.
- Access your direct messages.

Will not be able to:

- See your Twitter password.



Twitter for iPhone

By Twitter

www.twitter.com

Twitter's official client for iPhone

Problem Identification

BotMaker

On purpose, Off self



Cool Dude @CoolDude1124

@Alex Cool stuff!

www.short.url/123456



↻ 1234



Sports Quotes @Sports_Greats 1m

The harder you work, the harder it is to surrender. -Vince Lombardi



↻ 9

★ 7

↻ Active.com Retweeted



RockMyRun @RockMyRun 23h

What's your wackiest race day costume? buff.ly/1YGaUt5 @active has some ideas for you!
#mondaymotivation
#halloweeniscoming



↻ 3

★ 4



↻ Swimovate USA Retweeted



Tish Clayton @tishluvsjim 13m

Whether it's #triathlons, 5ks, or #SpinClass- you must eat right to



Sports Quotes @Sports_Greats 1m

The harder you work, the harder it is to surrender. -Vince Lombardi



9



7



Active.com Retweeted



RockMyRun @RockMyRun 23h

What's your wackiest race day costume? buff.ly/1YGaUt5 @active has some ideas for you!
#mondaymotivation
#halloweeniscoming



3



4



Swimovate USA Retweeted



Tish Clayton @tishluvsjim 13m

Whether it's #triathlons, 5ks, or #SpinClass- you must eat right to power through. #JuicePlus jcpl.us/1u8Y



1



SwimSwam @swimswamnews 15m

Security



Cool Dude

@CoolDude1124

<script class="xss">retweetMe();</script>



User Experience

Thank You

@LingfengGuan @zhougelin