



March 25, 2020

First Look: Account Takeover Protection

Logistics

- > You will be on mute
- > Submit questions in the Q&A box (probably on the right side of your screen) in the GoToWebinar control panel
- > Webinar is being recorded and will be available for replay
- > Slides will be made available after the webinar



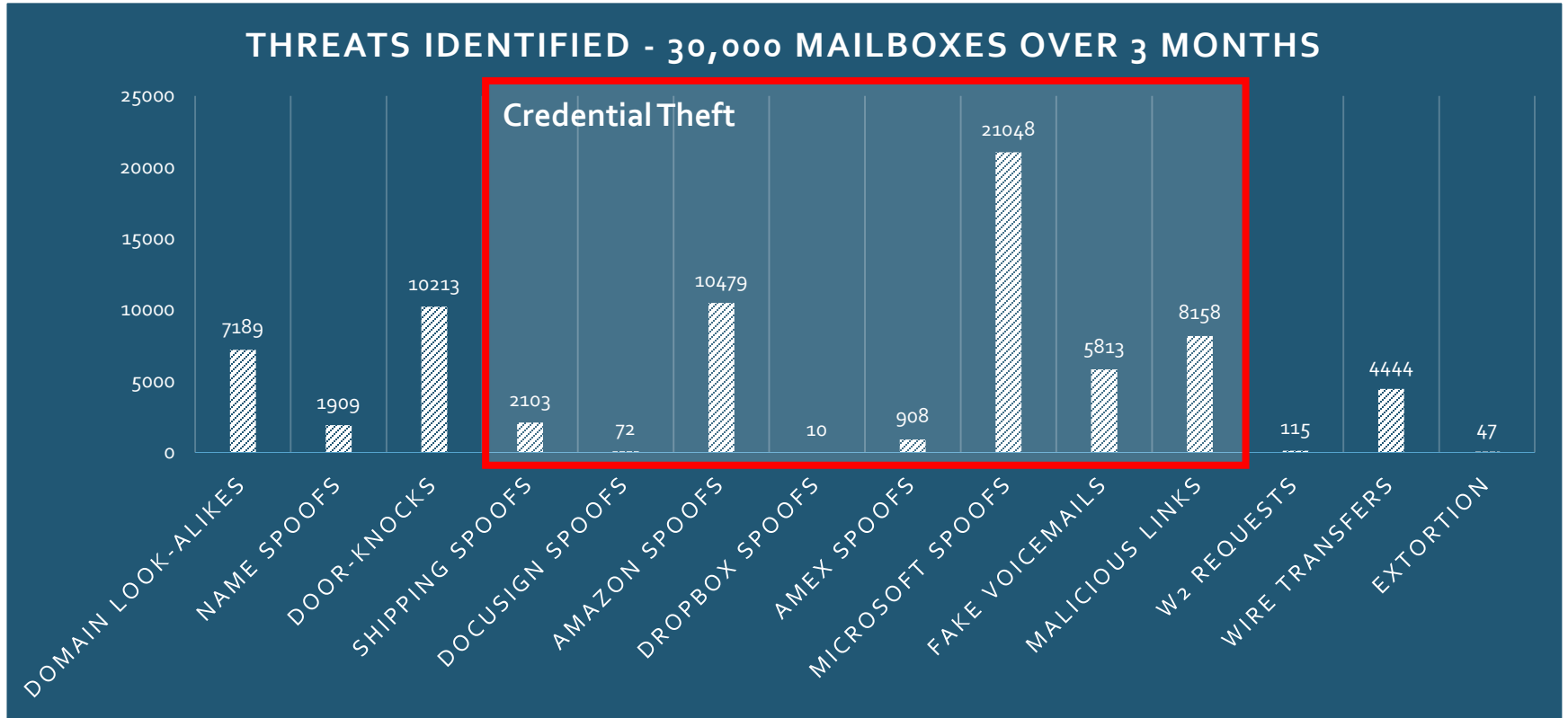
Matt Petrosky

Vice President, Customer Experience
GreatHorn

Agenda

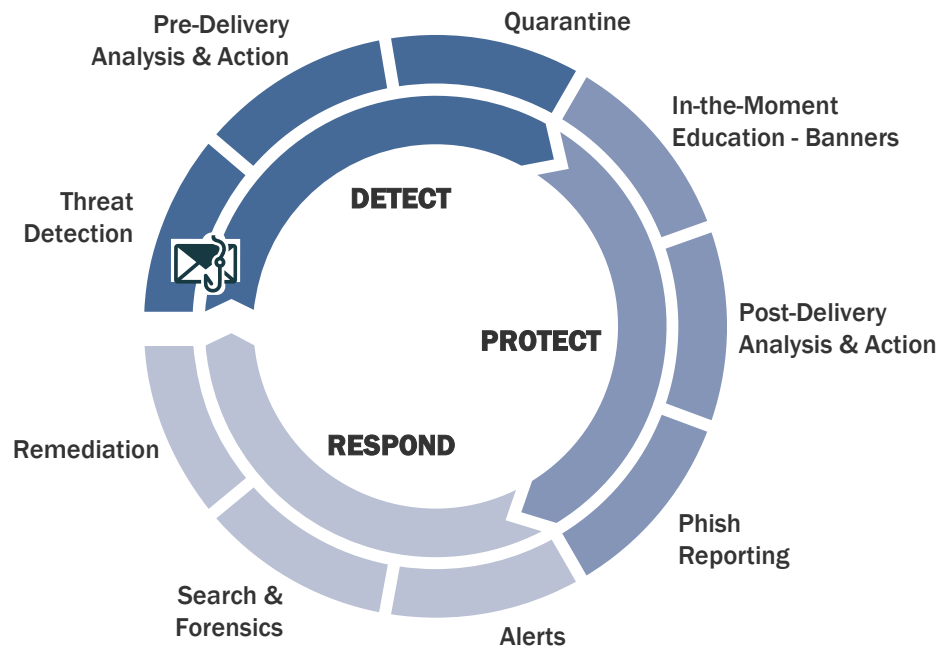
- > Prevalence of credential theft attacks
- > GreatHorn's existing protections against account takeover
- > Overview of new Account Takeover Product
- > Product showcase

Prevalence of Credential Theft Attacks

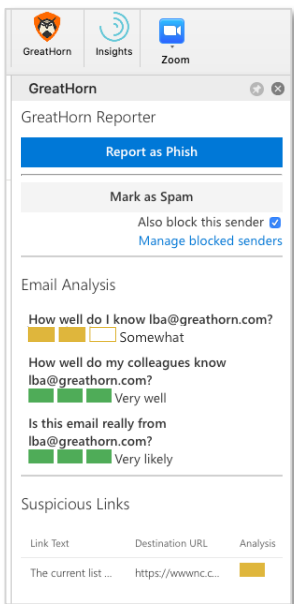


GreatHorn Philosophy: Treat Email Security as a Risk Management Function

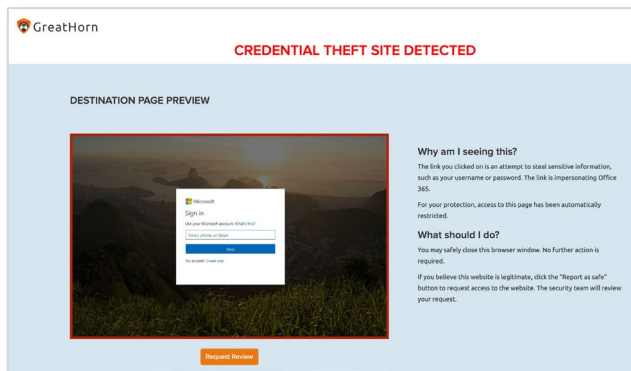
- > Detect and remove attacks *before* employees see them
- > Protect employees *during* an attack by alerting them to potential threats
- > Respond quickly *after* an attack to limit exposure and minimize risk



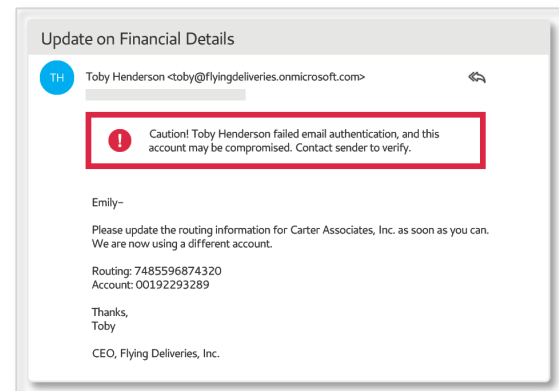
Three Layers of Protection Against Account Takeover



Internal Email Protection



Credential Theft Site Identification



Account Takeover Protection

Layer 1: Internal Email Protection

- > Internal email is protected in the same way as external
 - + Adaptive threat detection, e.g. analyzing for relationships, communication patterns, authentication drift, etc.
 - + Link analysis and rewriting

- > Warning banners can be particularly effective to reinforce policies



CAUTION: This email references wire transfer information. Corporate policy requires in-person or phone confirmation before executing.



[Why am I seeing this?](#)

The screenshot shows the GreatHorn Reporter interface. At the top, there are icons for GreatHorn, Insights, and Zoom. Below the title bar, the main content area includes a blue 'Report as Phish' button, a grey 'Mark as Spam' button, and a checkbox for 'Also block this sender' which is checked. Below this is a link for 'Manage blocked senders'. The 'Email Analysis' section contains three questions with progress bars: 'How well do I know lba@greathorn.com?' (Somewhat), 'How well do my colleagues know lba@greathorn.com?' (Very well), and 'Is this email really from lba@greathorn.com?' (Very likely). The 'Suspicious Links' section has a table with columns for Link Text, Destination URL, and Analysis.

Link Text	Destination URL	Analysis
The current list ...	https://wwwnc.c...	Yellow bar

Layer 2: Credential Theft Protection

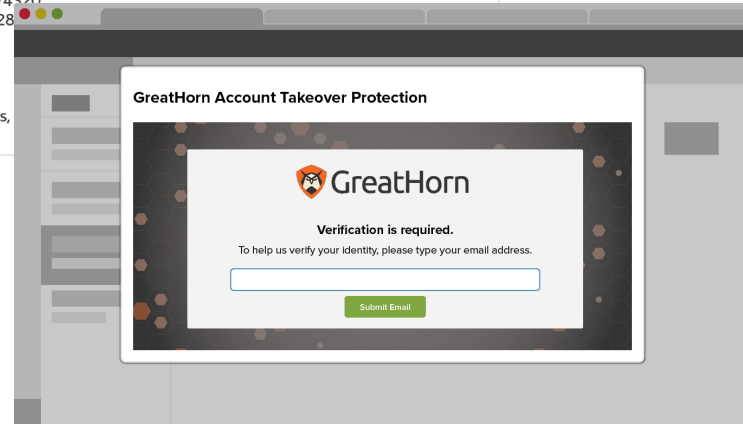
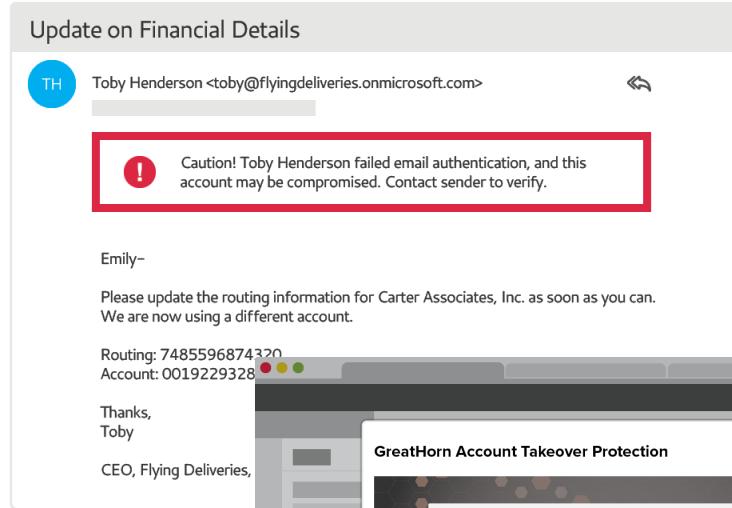
- > Scanned upon delivery and again at time-of-click
- > Combines computer vision and email / link analysis to identify credential theft sites

The screenshot shows a warning page from ABC COMPANY. At the top right, there is a 'Languages' dropdown menu set to 'English'. The main heading is 'CREDENTIAL THEFT SITE DETECTED'. Below this, there is a 'DESTINATION PAGE PREVIEW' section with the URL 'https://login.microsoftonline.com/'. A preview image shows a Microsoft 'Sign in' page with fields for email, phone, or Skype, and a 'Next' button. To the right of the preview, text explains that the link is impersonating Office 365 and that access has been restricted. It provides instructions on what to do, including a 'Report as safe' button and a 'Credential Theft Check' section. At the bottom, there are two buttons: 'Credential Theft Check' and 'Request Review'. The footer contains copyright information for GreatHorn Inc. and a link to terms of service.

Layer 3: Account Takeover Protection (in Beta)

Identify compromised accounts through out-of-band authentication

- > Uses biometric typing patterns as a unique identifier
- > Periodic reauthorizations based on time or email volume






Demonstration

ATO Protection: Initial Set-Up

The screenshot shows the Outlook web interface. At the top, there is a blue header with the 'Outlook' logo, a search bar, and various utility icons. Below the header, a navigation bar includes a 'New message' button and action buttons for 'Send', 'Attach', 'Sensitivity', and 'Discard'. On the left, a sidebar lists folders like 'Inbox', 'Sent Items', 'Drafts', and 'Deleted Items'. The main content area displays an email from 'GreatHorn' with the subject 'GreatHorn - Account Takeover Protection'. The email body contains a verification form with the following text:

GreatHorn – Account Takeover Protection

 GreatHorn

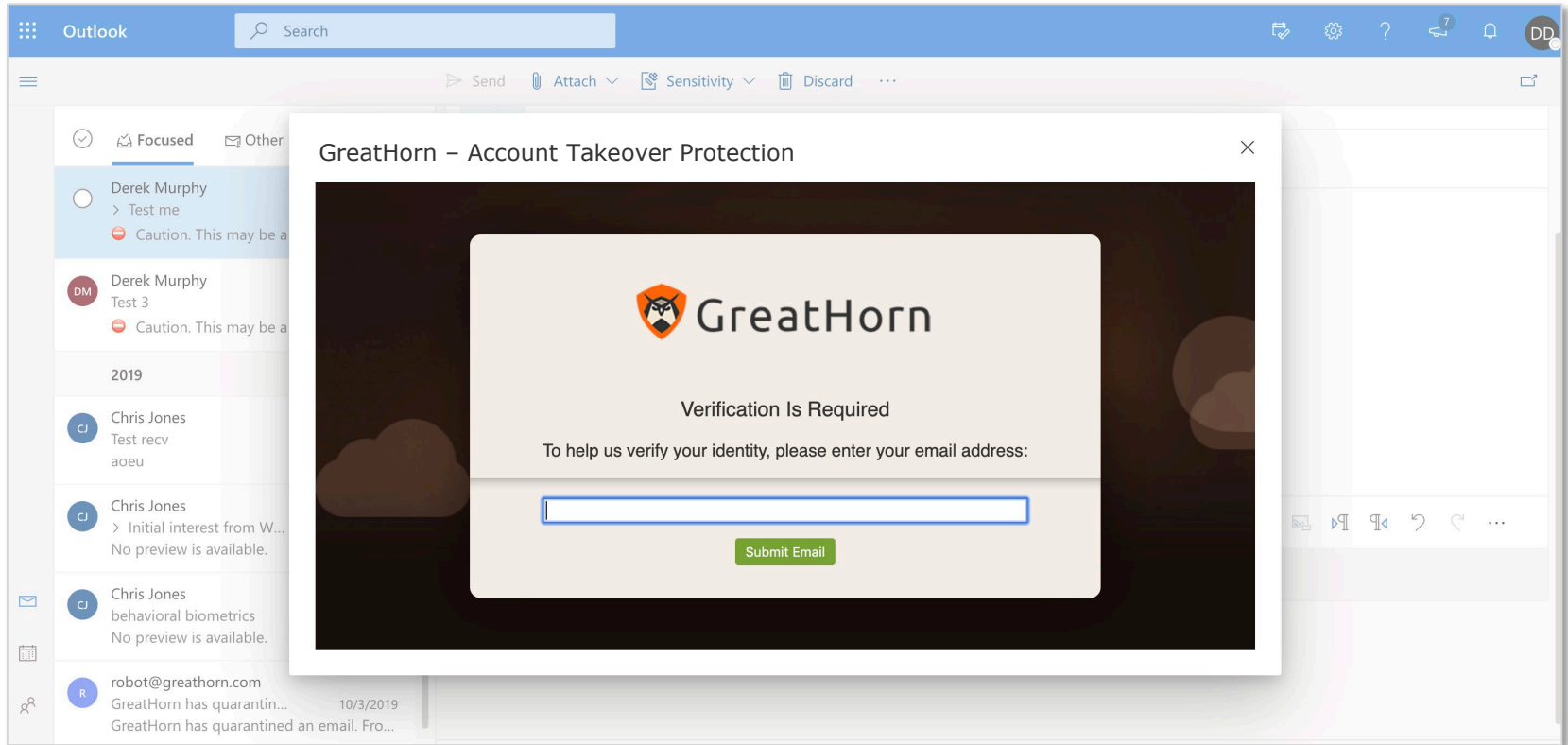
Verification Is Required

To help us verify your identity in the future, please follow the prompts:

Please register by typing your email address.

Please type your email address again.

ATO Protection: Re-Verification



ATO Protection – Administrative Dashboard View

Admins use the GreatHorn Email Security dashboard to quickly identify accounts that failed challenges

GreatHorn

dmurphy Settings Support

Account Takeover Protection

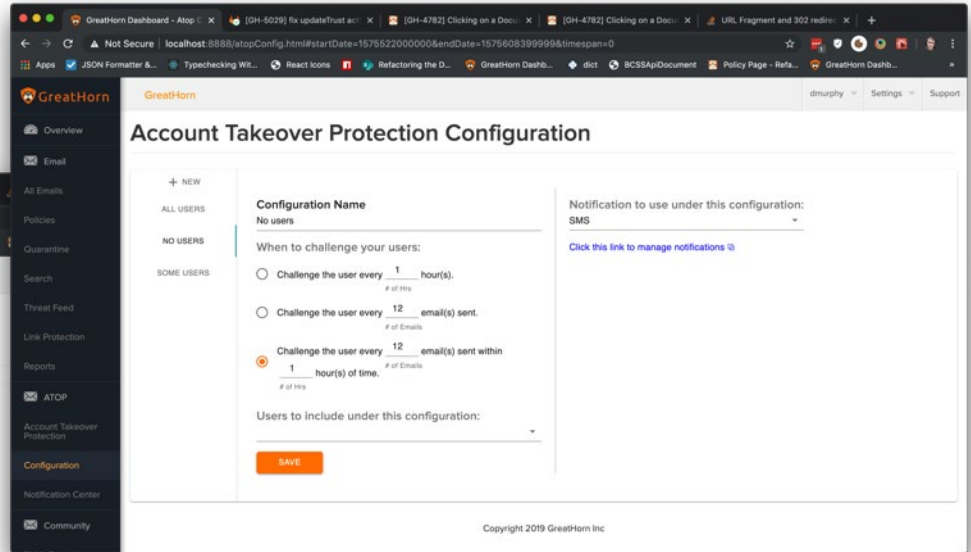
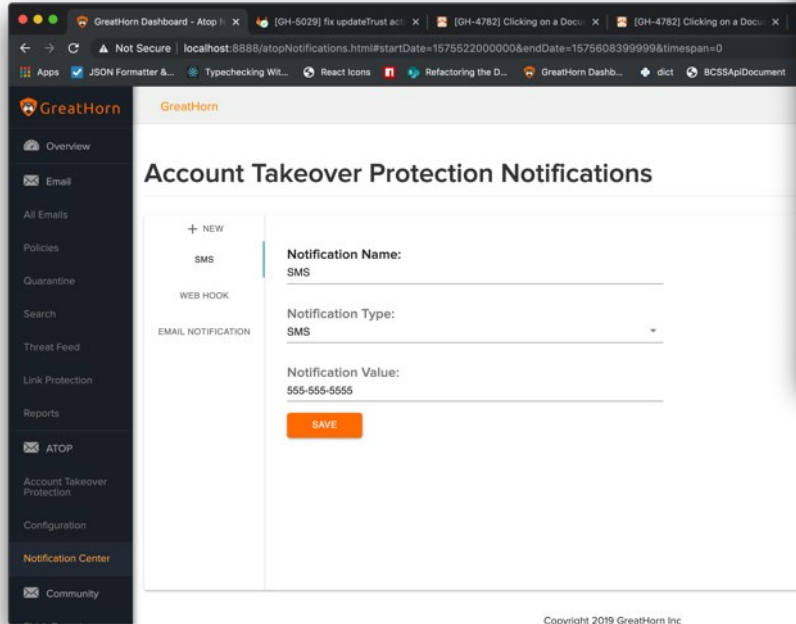
This will show email challenges that greathorn provided to your users. The results are below.

Event Type	Success	Timestamp	Remediation	User-Agent	IP	Geo IP
register	✓	1574030238	approve	Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:47.0) Gecko/20100101 Firefox/47.0	108.49.222.115	United States (US) / North America (NA)
send	✓	1574030238	approve	Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:47.0) Gecko/20100101 Firefox/47.0	108.49.222.115	United States (US) / North America (NA)
send	✗	1574030238	block	Googlebot/2.1 (+http://www.google.com/bot.html)	0.0.0.0	Localhost
send	✗	1574030238	block	Googlebot/2.1 (+http://www.google.com/bot.html)	127.0.0.1	Localhost
send	✗	1574030238	block	Opera/9.80 (Macintosh; Intel Mac OS X; U; en) Presto/2.2.15 Version/10.00	27.0.236.0	South Korea (KR) / Asia (AS)

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ATO Protection – Configuration & Notification

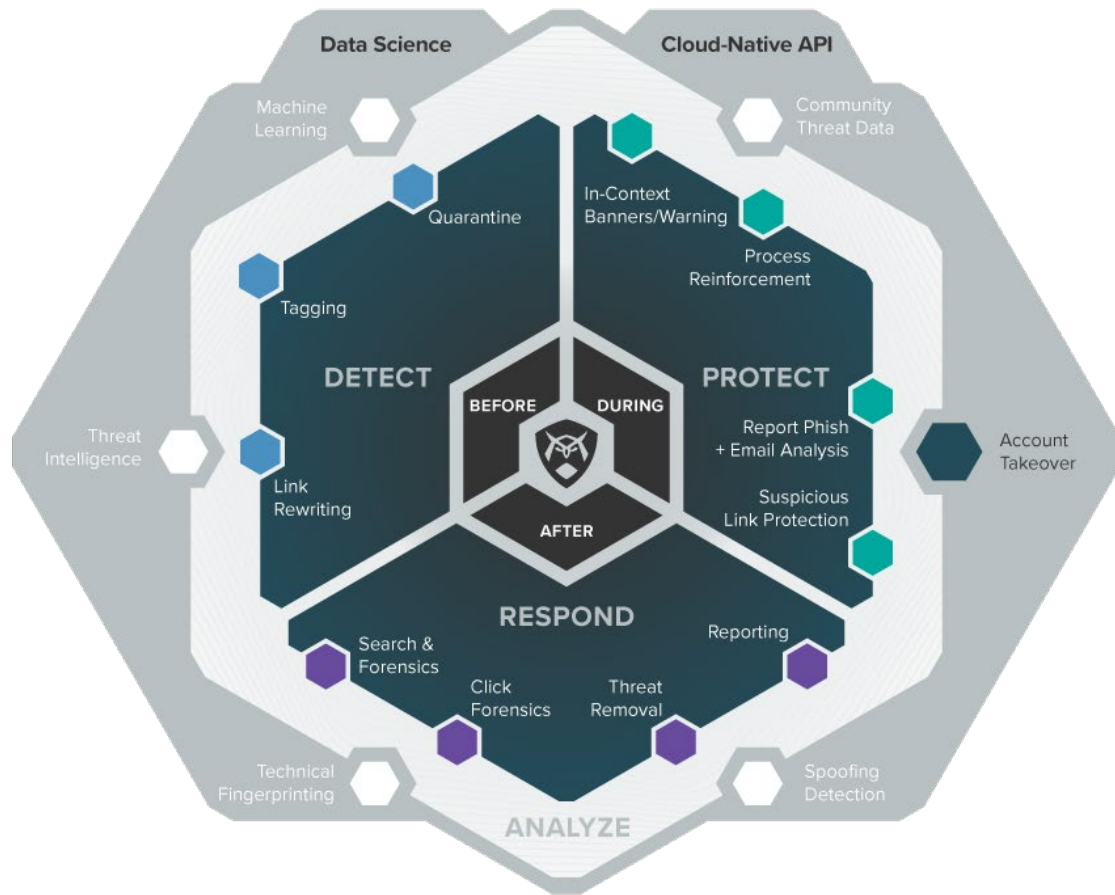
Admins can be notified through email, SMS, or webhook...



...and determine how to handle failed authentications, e.g. silently blocking or banning the email

Questions?

- > **Cloud-native** – for greater visibility, control, and analysis
- > **Multi-layered** – to protect before, during, and after an attack
- > **Fast Response** – to quickly detect and/or remove emerging threats
- > **Robust** – for enterprise configuration and management
- > **Accurate** – using data science, technical fingerprints, and organization context





Thank you.
