



ATLANTA, GA
OCTOBER 11-14

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UNLEASH THE POWER OF LIMITLESS CONNECTIVITY



2021 Fall
Technical Forum
SCTE • NCTA • CABLELABS®



Security & Privacy

Creating Confidence Among Subscribers Faced with Growing Cyberthreats

Bruce Van Nice

Senior Product Marketing Manager
Akamai



Agenda

- Introduction
- Threat landscape
- Security Strategy
- Threat intelligence
- Ensuring success



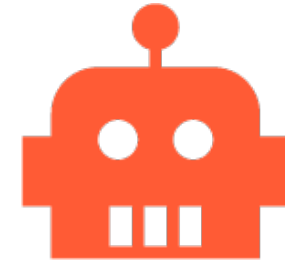
Phishing

Web links in emails, SMS, or other places designed to encourage clicks that take people to malicious web sites where their valuable personal information can be harvested.



Malware

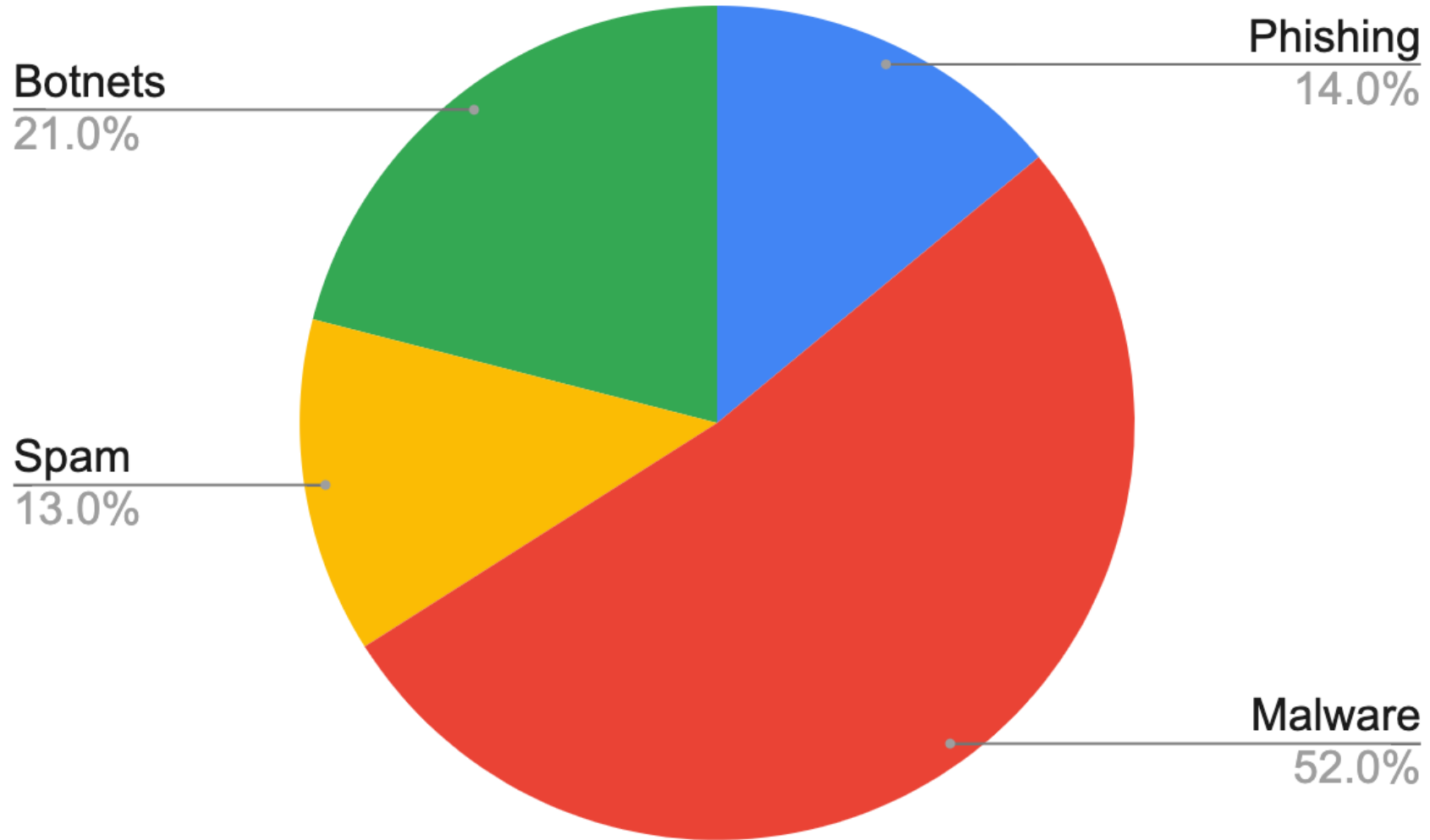
Malicious software developed to damage or disrupt devices or their data (by encrypting it with a secret key) or to gain unauthorized access to a network.



Malicious Bots*

Software that's secretly installed on computers and remotely controlled. Networks of malicious bots are used to find and upload valuable information, launch DoS attacks, provide access to machines and much more.

* There are legitimate bots too that perform many repetitive tasks on the internet



Create typos that evade a quick glance

wesrternsurnion.com/online login.moffice356.com

Cuse a different top level domain

verifypal.xyz

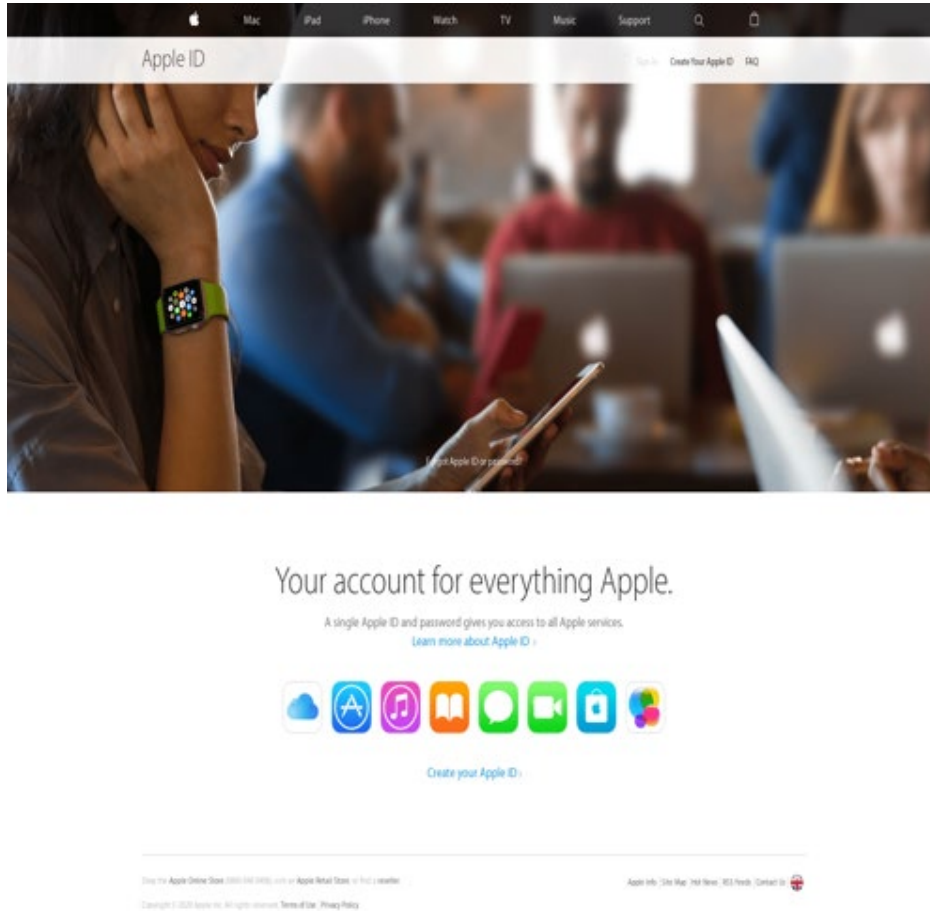
Shift the familiar name to the left

signin.secure.welllsfargo.com.services.regaswel.shop

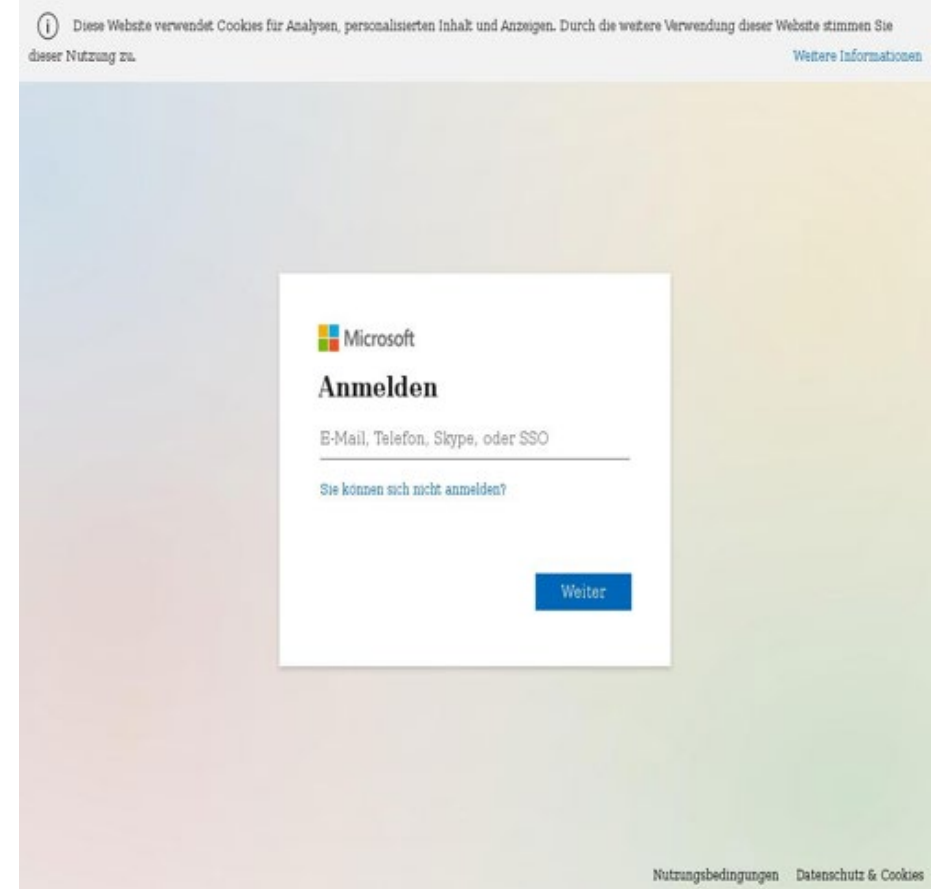
Use “lookalike” characters from non-latin character sets

7eļeven.com., adidaş.com., singaporeair.com.

Microsoft
login.moffice356.com



Apple
apple.com.br1b.ru



Social engineering advances

“Covid-19
work from
home
policy”

“People are
looking at
your
profile”

“Unusual
sign-in
activity”

**28TH USENIX
SECURITY SYMPOSIUM**

Cognitive Triaging of Phishing Attacks

Amber van der Heijden, Luca Allodi

https://www.usenix.org/system/files/sec19-van_der_heijden.pdf

**MIT
Technology
Review**

How phishing attacks trick our brains Why you're more of a sucker than you think

Patrick Howell August 8, 2019

<https://www.technologyreview.com/2019/08/08/238739/how-phishing-attacks-trick-our-brains/>

Samples

nytimes.cm

imagesgogle.com

ups.cm

wellsfargo.cm

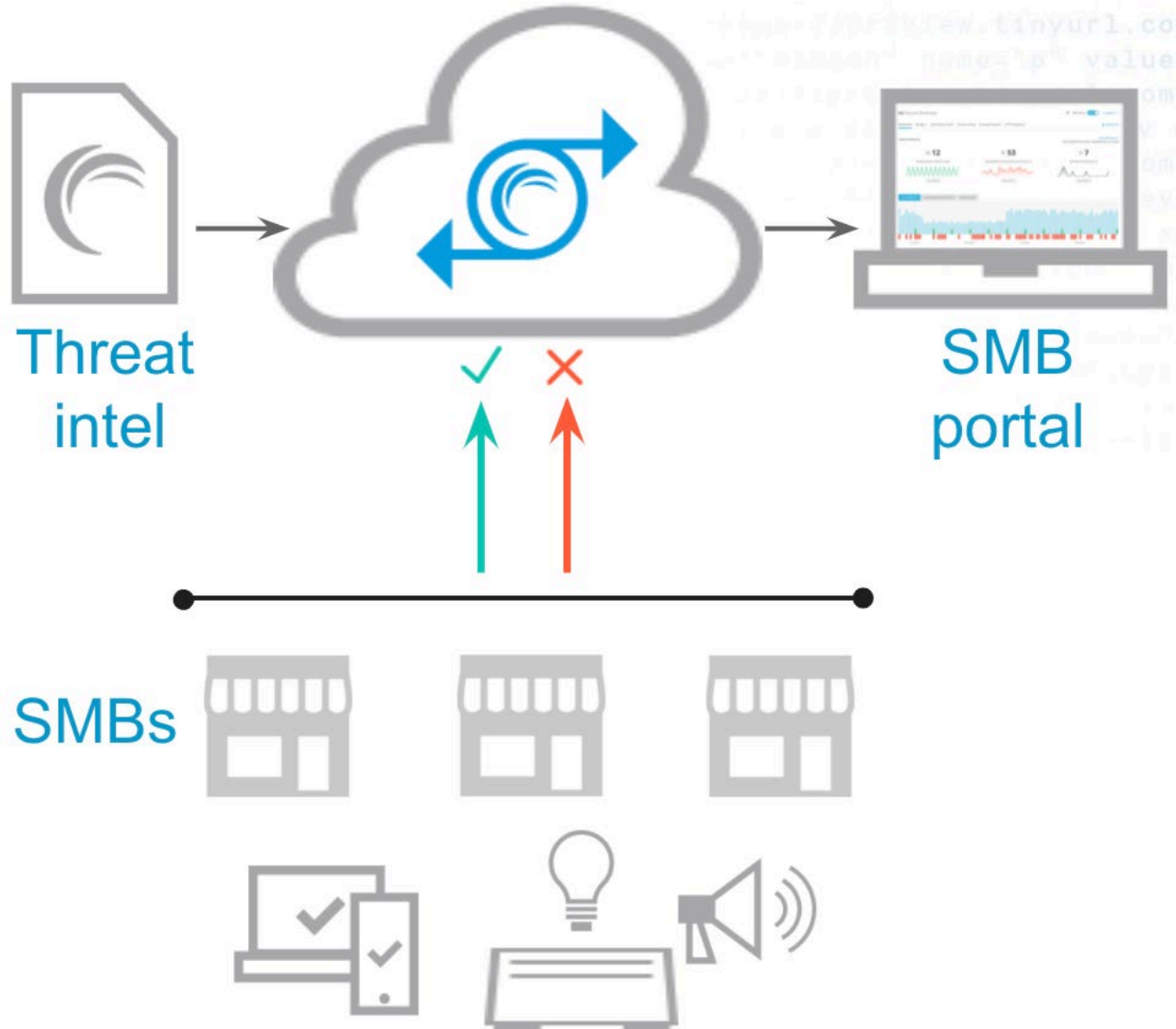
wwwltrivago.com

winipedia.com

Landing pages serve malicious content based on the detected browser User-Agent and source IP address:

adware browser addons, MacOS fake system update and Windows fake AV purchase

Simple to procure and operate.
Complement other security services
Ensure transparency
Give subscribers control



Improve Precision

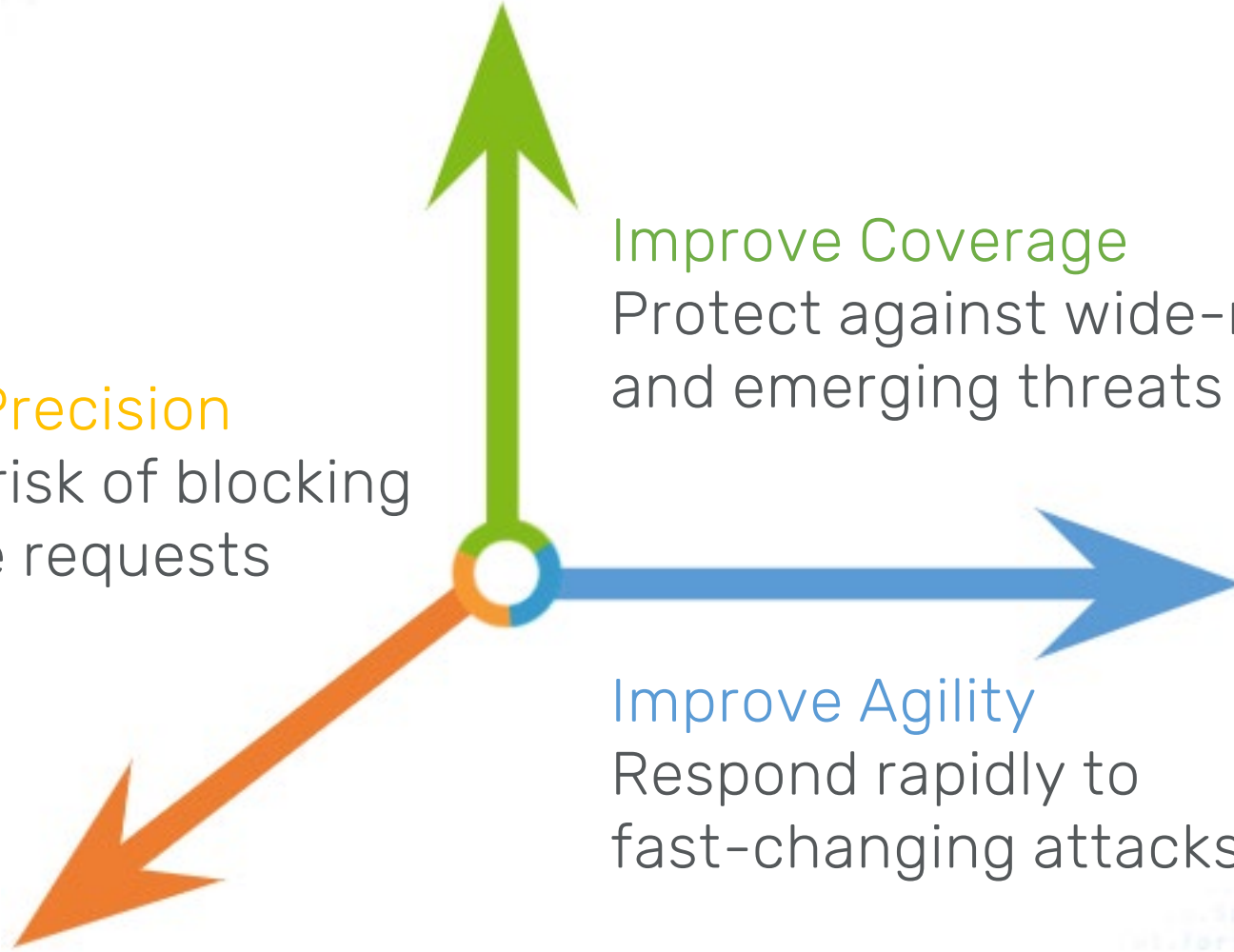
Minimize risk of blocking legitimate requests

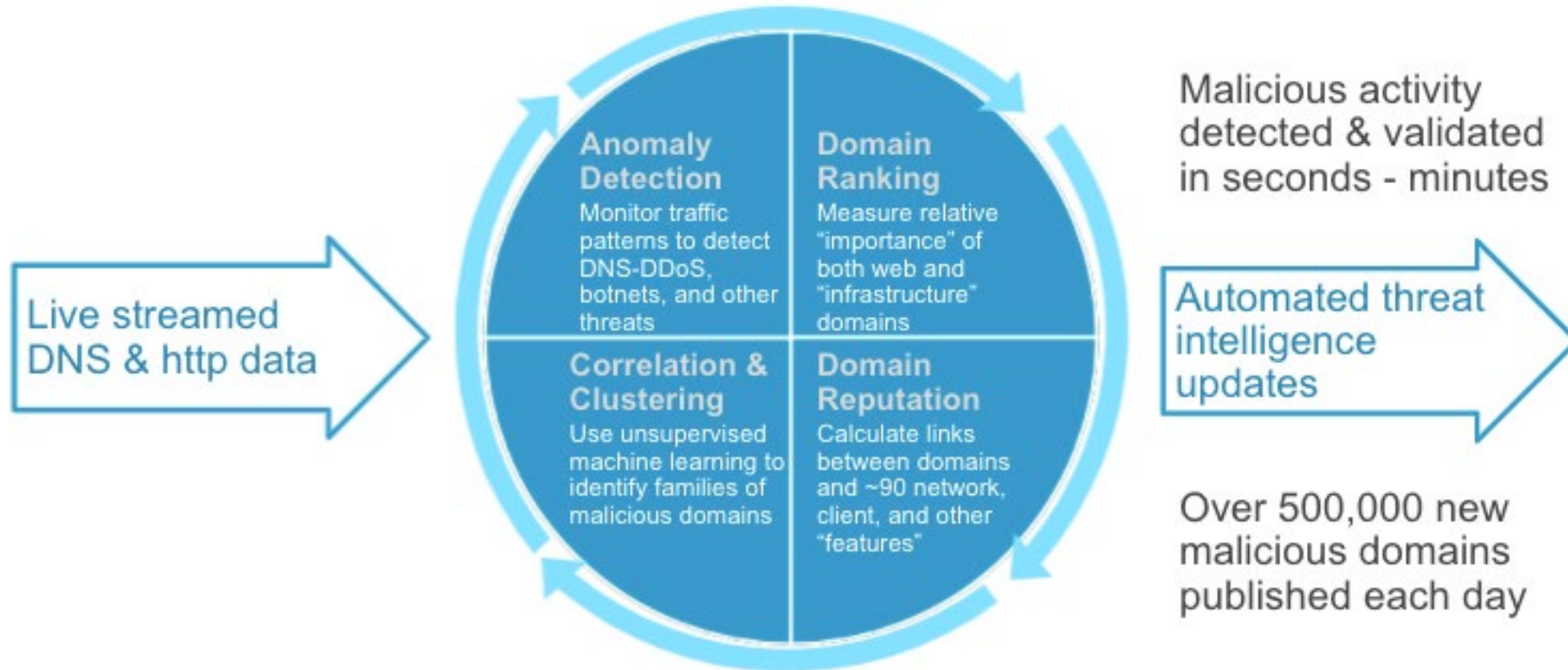
Improve Coverage

Protect against wide-ranging and emerging threats

Improve Agility

Respond rapidly to fast-changing attacks





Sales Enablement	Customer Marketing
<p>Sales tools summarizing key value points</p> <p>Solutions tools describing broader solution (access and other parts of bundles)</p> <p>Integration with internal sales systems</p> <p>Competitive overviews</p> <p>Security and solution videos</p> <p>Call scripts/talking points</p> <p>Internal Communications</p> <ul style="list-style-type: none">•Sales•Sales leadership•Customer support <p>Sales Roadshows</p>	<p>Brand and Product Awareness Campaigns</p> <p>Website</p> <p>Broadcast media</p> <ul style="list-style-type: none">•TV•Print•Radio <p>PR</p> <p>Social media</p> <p>Content syndication</p> <p>Customer Acquisition</p> <p>Direct Mail</p> <p>Email</p> <p>Digital media</p> <p>Webinars</p>



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Thank You!

Bruce Van Nice

Senior Product Marketing Manager
Akamai

hvannice@akamai.com