

# [Partner] Overview

# On average, there is a cyberattack every 39 seconds



Cybint News' 15 Alarming Cyber Security Facts and Status



# 95% of all cyber incidents are human-enabled

ResearchGate December 2018 Holistica – Journal of Business and Public Administration



## Impact of email attacks on organizations

\$20B

Ransomware costs in 2021

43%

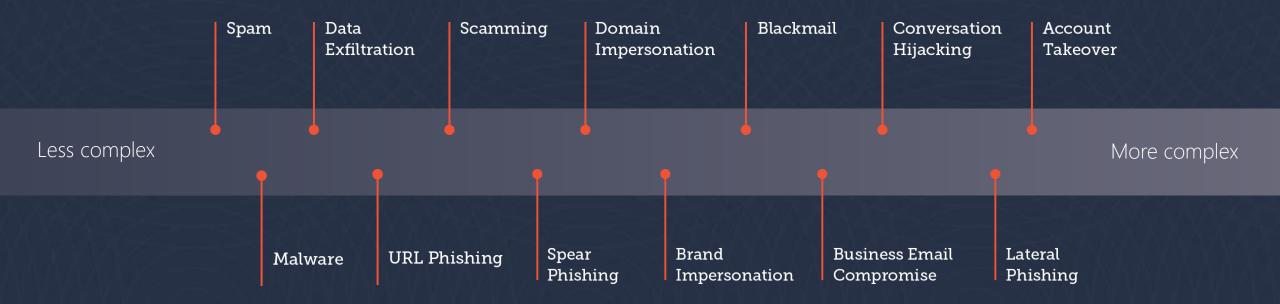
of organizations fell victim to spear phishing attacks 1 in 7

organizations experienced an account takeover

## Email threat trends

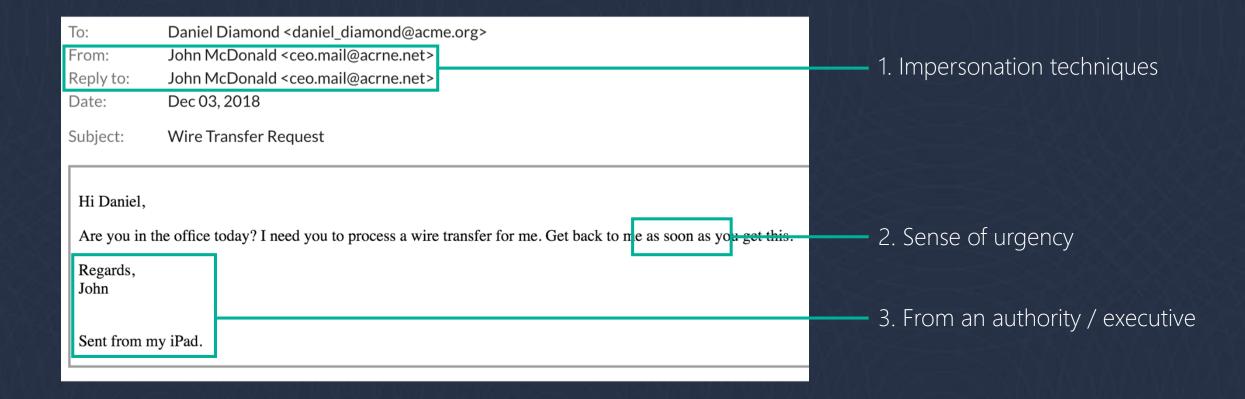
# Email attack complexity is increasing

Introducing the email threat taxonomy



#### Business Email Compromise

### Business Email Compromise decoded



High reputation senders No links No attachments



### Service Impersonation decoded

Service Impersonation

1. No malicious payload

Review recent activity

We detected some unusual activities on your Microsoft office365 Account. To help keep you safe, we required an extra security challenge.

And to avoid deactivation, Please review your recent activity and we'll help you take corrective action.

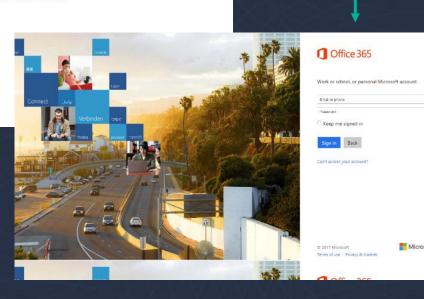
Review recent activity

To opt out or change where you receive security notifications, click here.

Thanks

The Microsoft account team

3. Unusual email address and landing page



2. Hosted on high reputation domain

### Account Takeover decoded

Account Takeover

Compromised credentials through phishing attacks, malware or database breaches

Infiltration



Reconnaissance



Harvest credentials



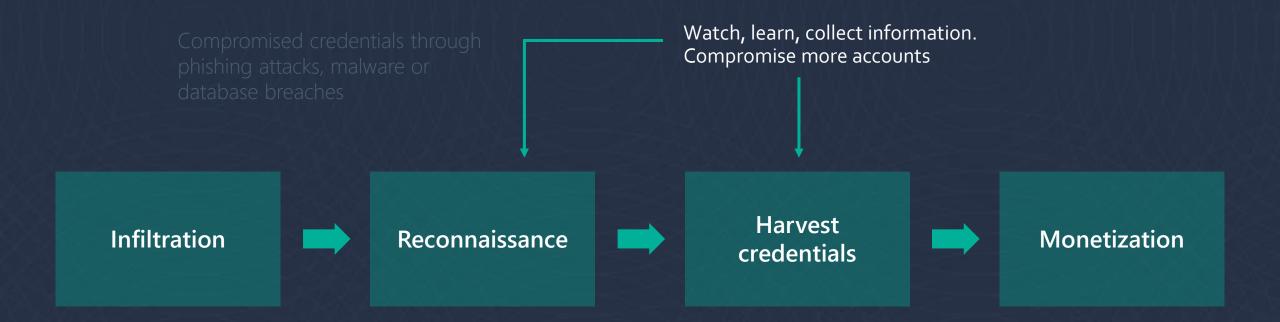
Monetization



### Account Takeover

Threat type

Account Takeover

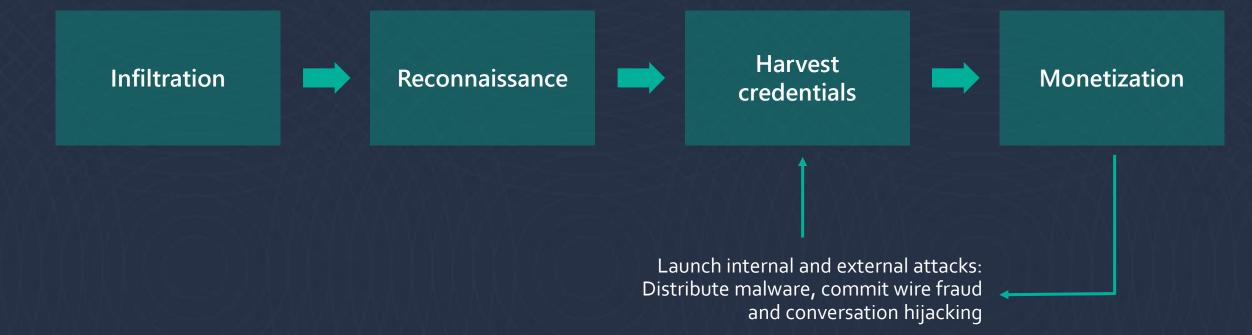




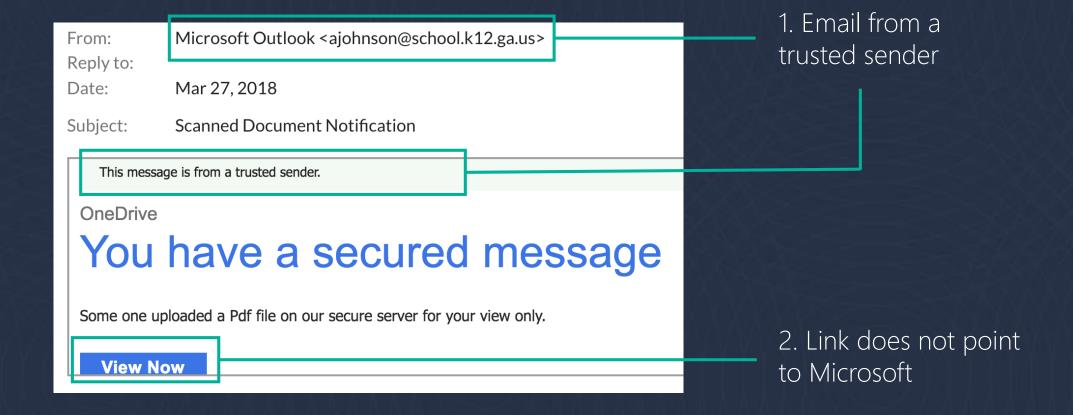
### Account Takeover

Compromised credentials through phishing attacks, malware or database breaches

Watch, learn, collect information Compromise more accounts



### Account Takeover: real-life example



# Beating threats with the right protection

### Two forms of defense. You need both

THREAT TYPES	EMAIL GATEWAY	API-BASED INBOX DEFENSE
Spam	•	0
Malware	•	0
Data Exfiltration	•	0
URL Phishing	•	•
Scamming	•	•
Spear Phishing	0	•
Domain Impersonation	0	•
Service Impersonation	0	•
Blackmail	•	•
Business Email Compromise	0	•
Conversation Hijacking	0	•
Lateral Phishing	0	•
Account Takeover	0	•

Does not provide sufficient protection Provides some protection Provides best protection

## Gateway based defenses work well for....

Spam, malware, data exfiltration





## Inbox based defenses work well for....

Remaining 10 threat types





# Gateway-based pros and cons

## Gateway defense: great for high volume attacks

#### Spam

#### Gateway:

Blocked before it hits mail server or inbox

#### **API Inbox defense:**

Can overwhelm the server and impact inbox performance

#### Malware

#### **Gateway:**

Signature matching and sandboxing

#### **API Inbox defense:**

Large volume of malware can impact inbox performance

#### **Data Exfiltration**

#### Gateway:

DLP and encryption to protect sensitive data

#### API Inbox defense:

APIs can't remediate lost data post delivery

## Limits of gateway approach

**Business Email** Compromise



Reputation Filter | Content Filter | ATP | Granular rules & policies



#### How it works?

- Configure unlimited number of policies
- Use LDAP
- Focus on highly targeted employees

#### Why not effective?

- Not scalable solution
- Use of LDAP has limits
- Does not take context into account



Business Email Compromise

## Impersonating Matthew Johnson

LDAP rules can miss

To: Lauren Crawl

From: Matthew Johnson

Subject: Quick request



To: Lauren Crawl

From: Matthew R. Johnson

Subject: Quick request



From: Johnson Matthew

Subject: Quick request



To: Lauren Crawl

From: Matt Johnson

Subject: Quick request





# Deceptive language Content filters can miss

To: Lauren Crawl

From: Matthew Johnson

Subject: Quick request

... I need you to process a wire

... funds transfer....

... money transfer....

... make a payment ....

... process invoice....

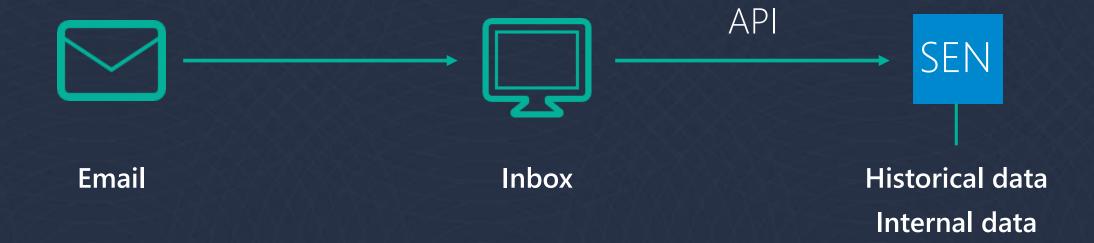
#### Threat type

Business Email Compromise



# API-based pros and cons

### What is API-based Inbox Defense?



### Inbox defense technology evaluates many factors



## Inbox defense technology finds unique patterns



Understands abnormal behavior based on an **identity graph** 

**Gateways** = 100s of rules for 1000s of

individuals = **not scalable** 



### API defense: less effective for high volume attacks

#### Spam

#### **Gateway:**

Blocked before it hits mail server or inbox

#### **API Inbox defense:**

Can overwhelm the server and impact inbox performance

#### Malware

#### **Gateway:**

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#### Gateway:

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# Strategies to improve your email protection

### Read the eBook

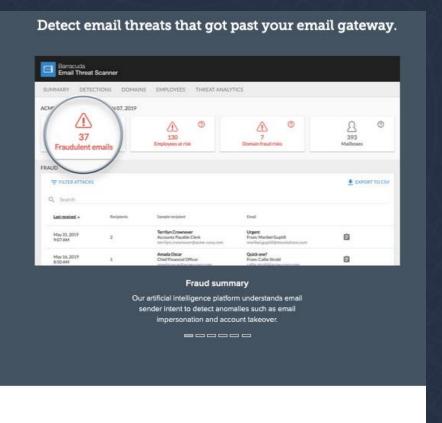


### Next steps

- 1. Protect against all 13 threats with Email gateway and API-based inbox defense
- 2. Educate your users on latest email threats
- 3. Automate & streamline incident response

## Get started today

- Run free Email Threat Scan
- Identify gaps in your current email protection
- Easy to set up
- Fast results



#### 5,000+ organizations

have run this scan and discovered advanced threats in their Office 365 mailboxes.

8,000+

scans complete

since 2018

8.5 million

mailboxes

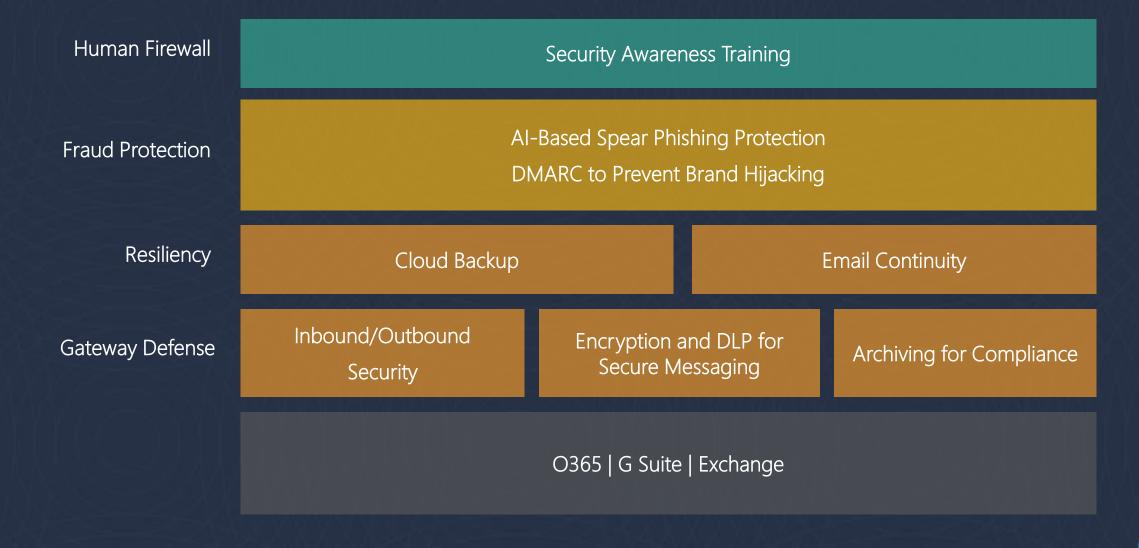
have been scanned for threats

4 million

spear phishing attacks

identified to date

## Multi-layered email protection



### <<MSP PARTNER>>Email Protection Suite

Awareness

Barracuda
Managed Security Awareness Training™

API Inbox Defense

Barracuda
Impersonation Protection™

Resiliency

Barracuda Cloud Email Gateway Defense™

Gateway Defense







