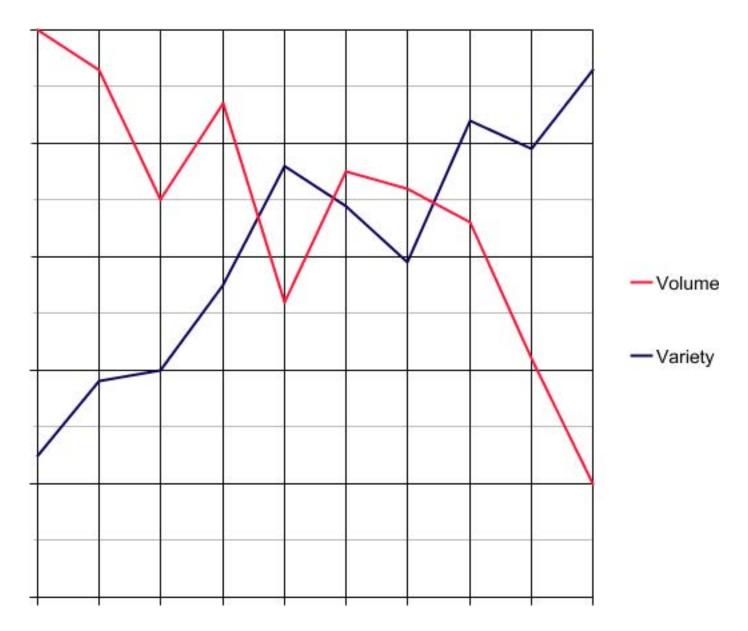
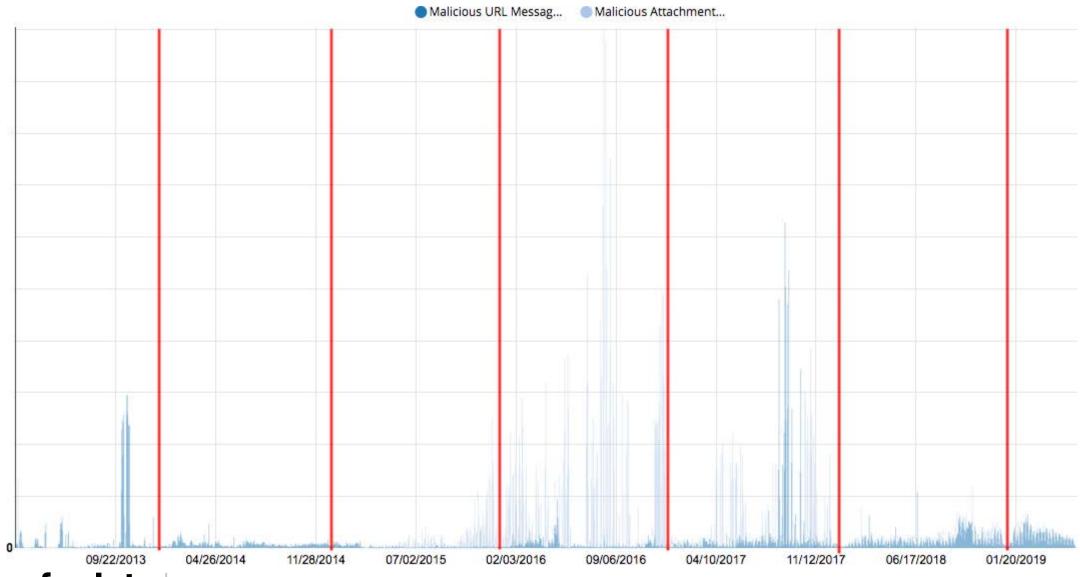


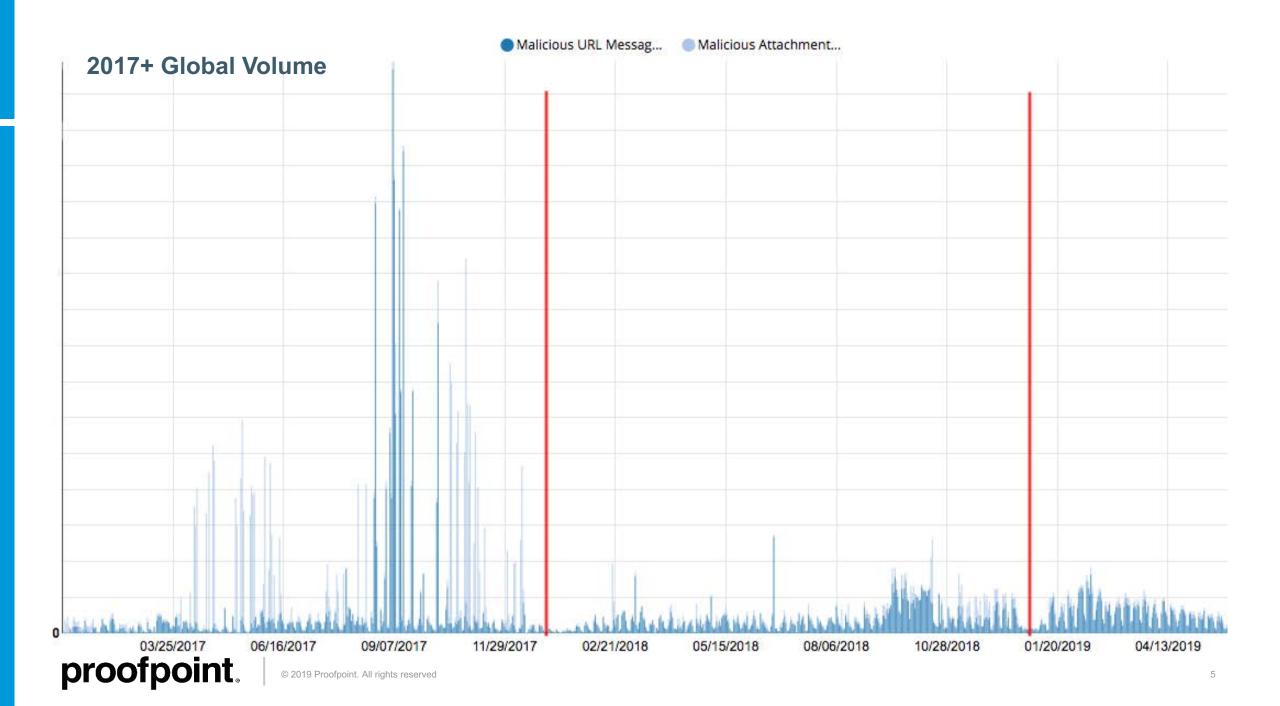
# **Global Trends** proofpoint. © 2019 Proofpoint. All rights reserved

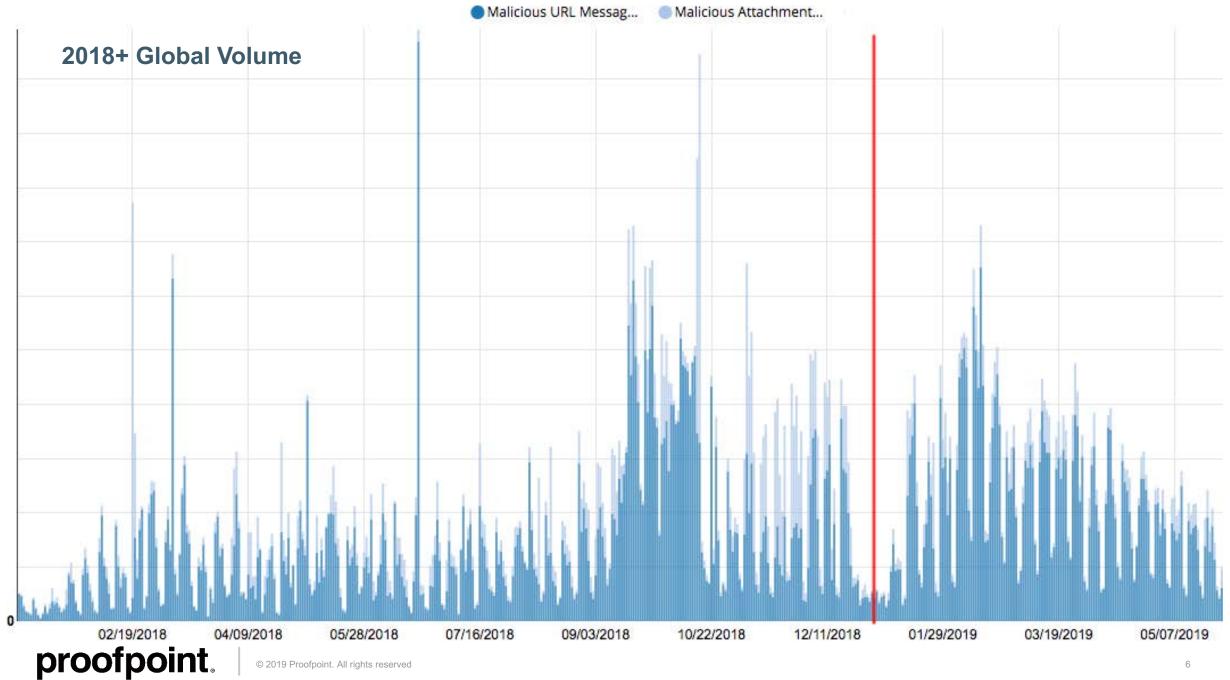


#### 2013+ Global Volume



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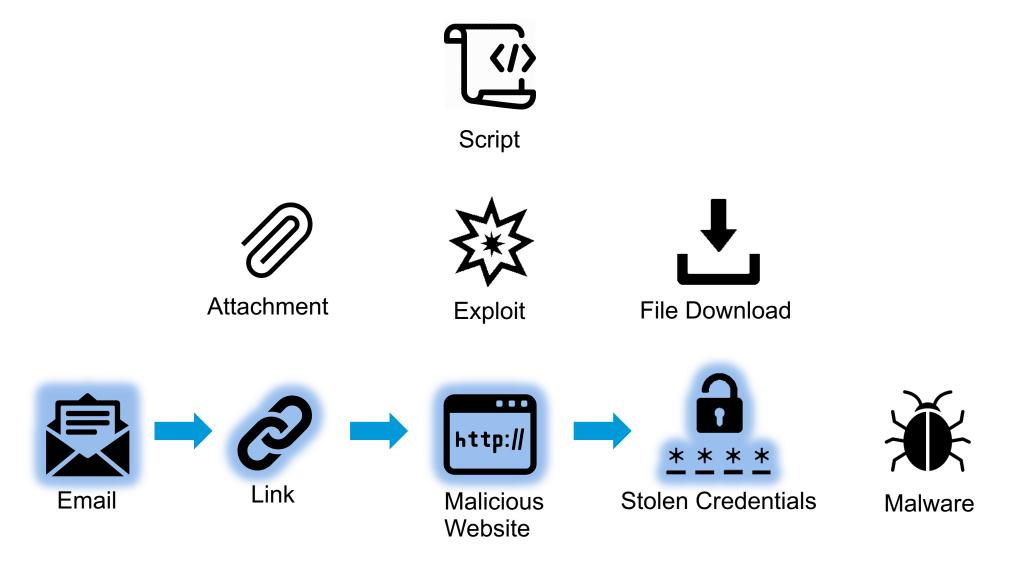
Malicious Website

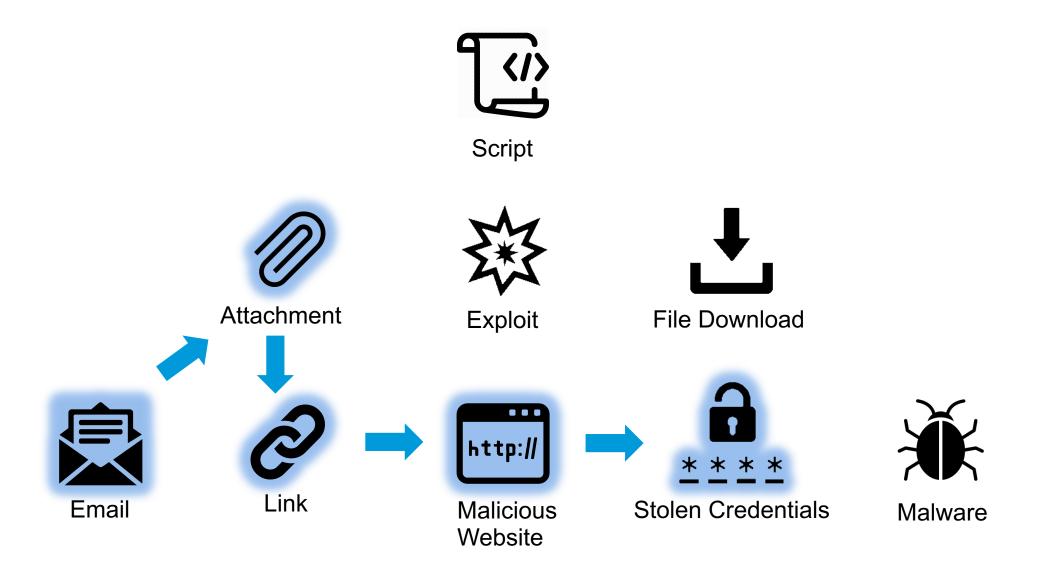


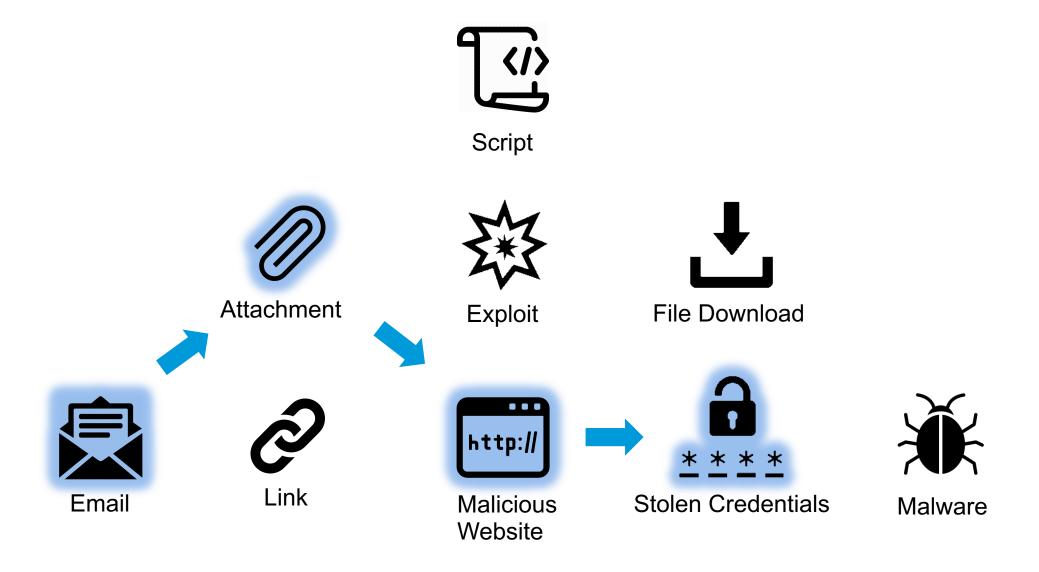
**Stolen Credentials** 

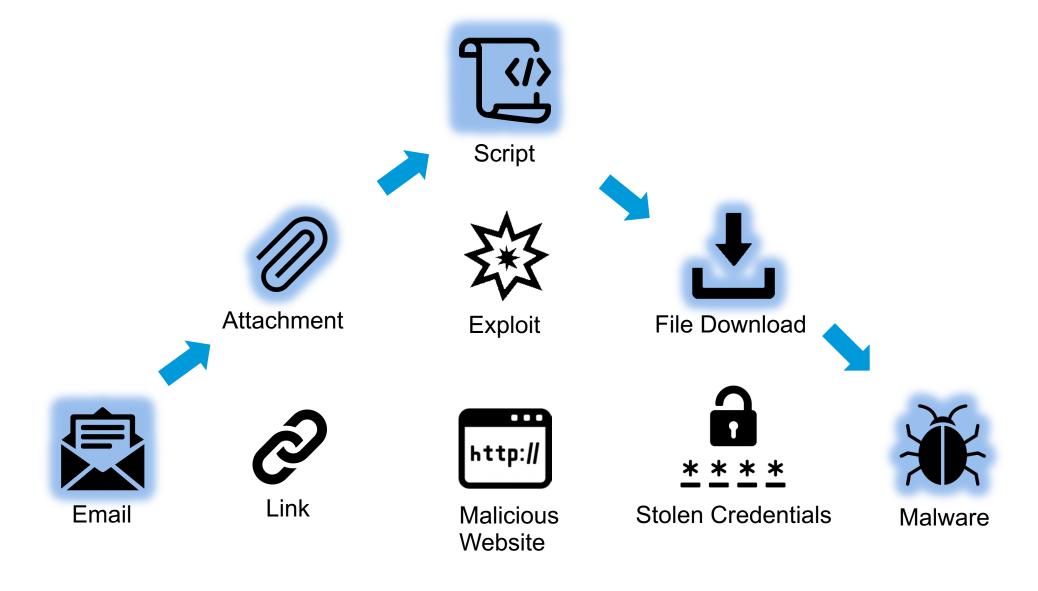


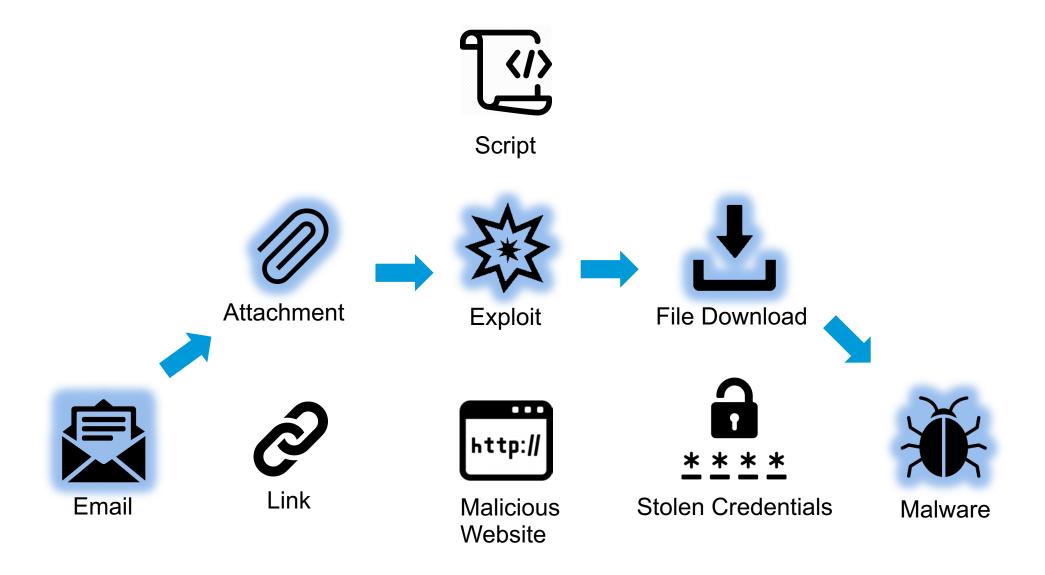
Malware

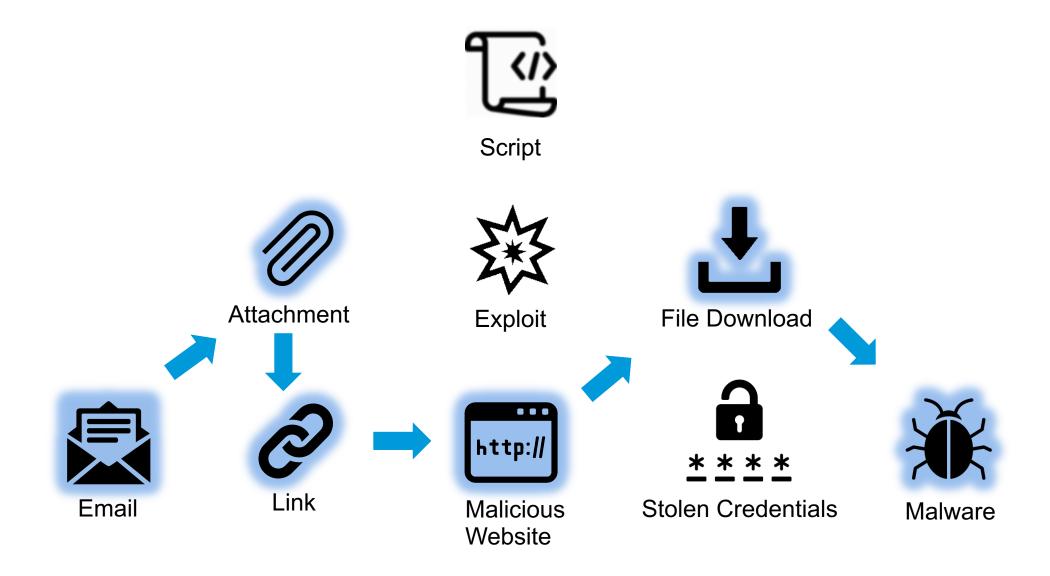


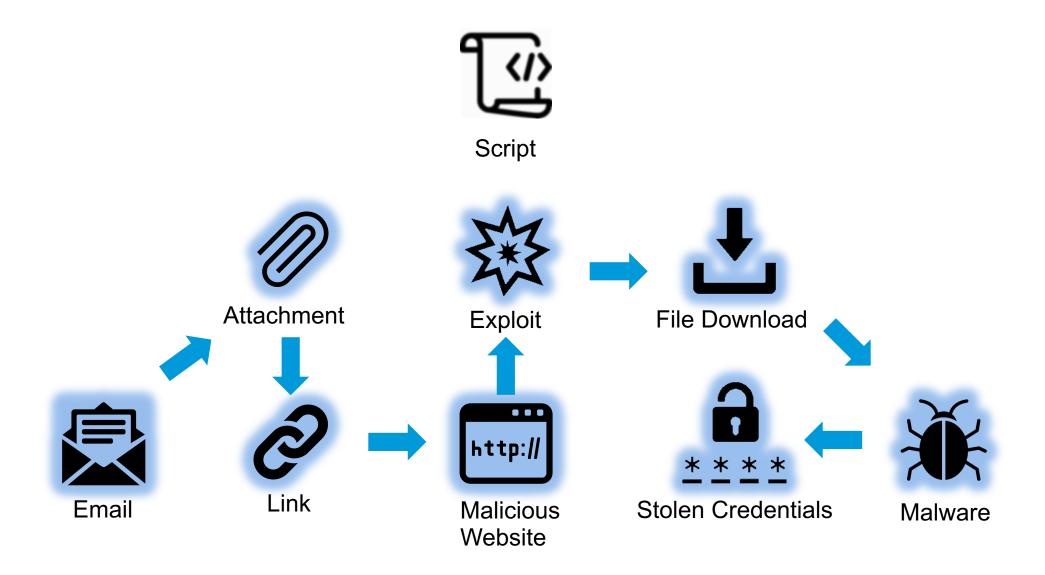










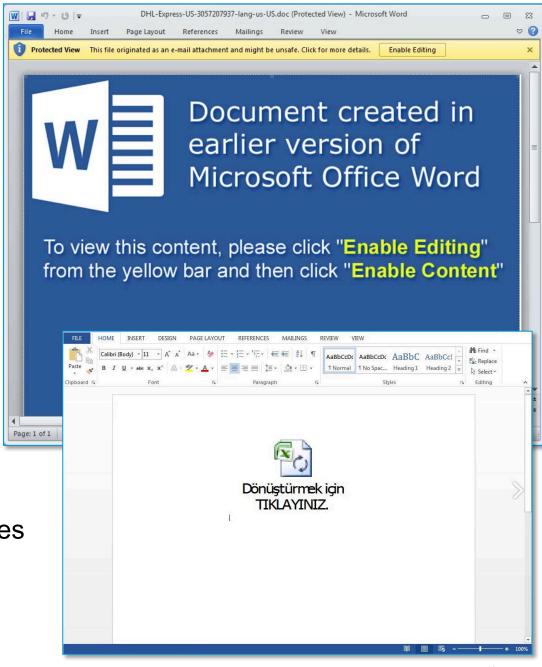




# **Threat Details** proofpoint. © 2019 Proofpoint. All rights reserved

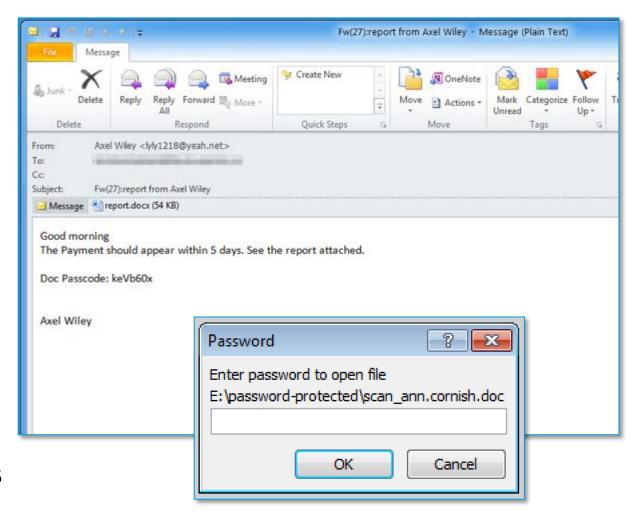
# **Abused Attachment File Types**

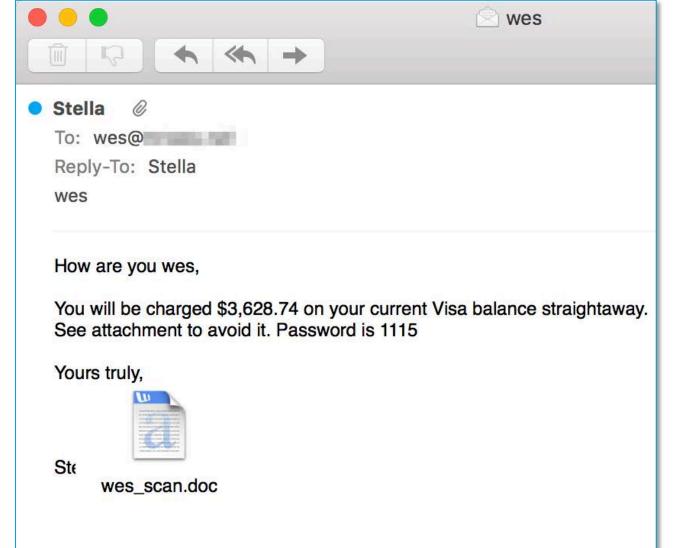
- Most Common
  - Microsoft Office Documents with Macros
  - Microsoft Office Documents with Embedded Object
  - PDF with links
- New
  - XL4 Macro
  - Template Injection
- Other
  - DDE
  - Password protected Microsoft Office Documents
  - Documents that exploit Microsoft Office vulnerabilities
    - Most common is CVE-2017-11882
    - All time highest volume is CVE-2017-0199



#### **Password Protected Documents**

- Office documents where passwords are required to open the document
- Password is presented to the user in the body of the email
- Advantages
  - Appears to the user as privileged information contained within the document
  - Evades automated sandbox analysis
- Campaigns tend to use the same password for all samples
- Most recently seen in these campaigns
  - IcedID TA516 [SmokigDro]





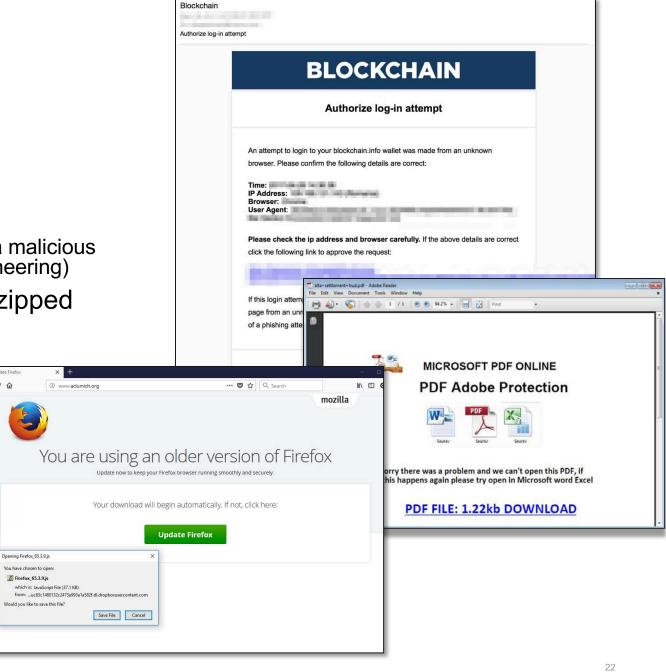


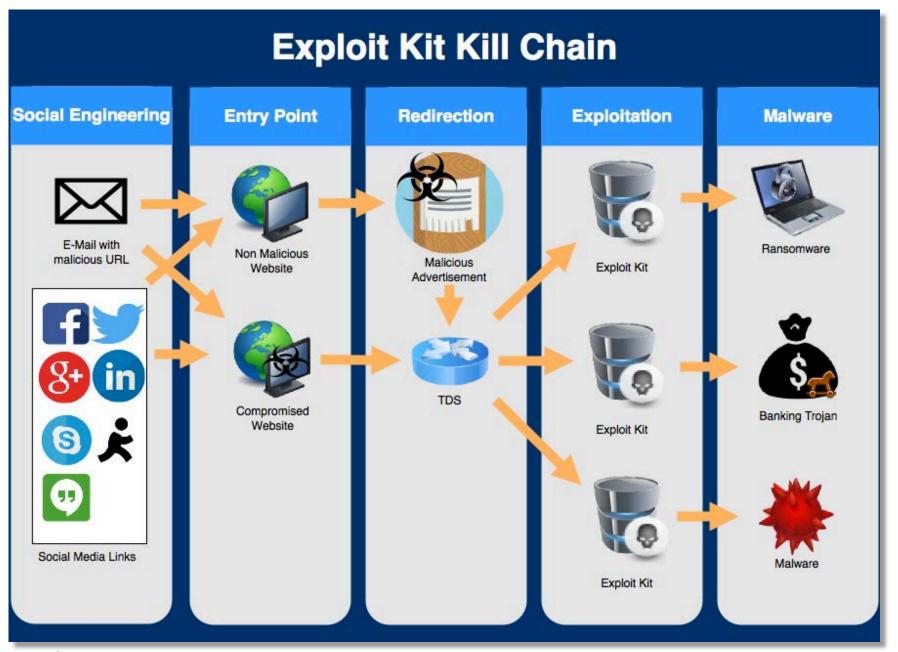
# **Delivery Methods - URL**

- Most Common
  - Links to phishing pages
  - Direct links to malicious docs / exes
    - Typical case: get the victim to download and open a malicious document/executable from the internet (social engineering)

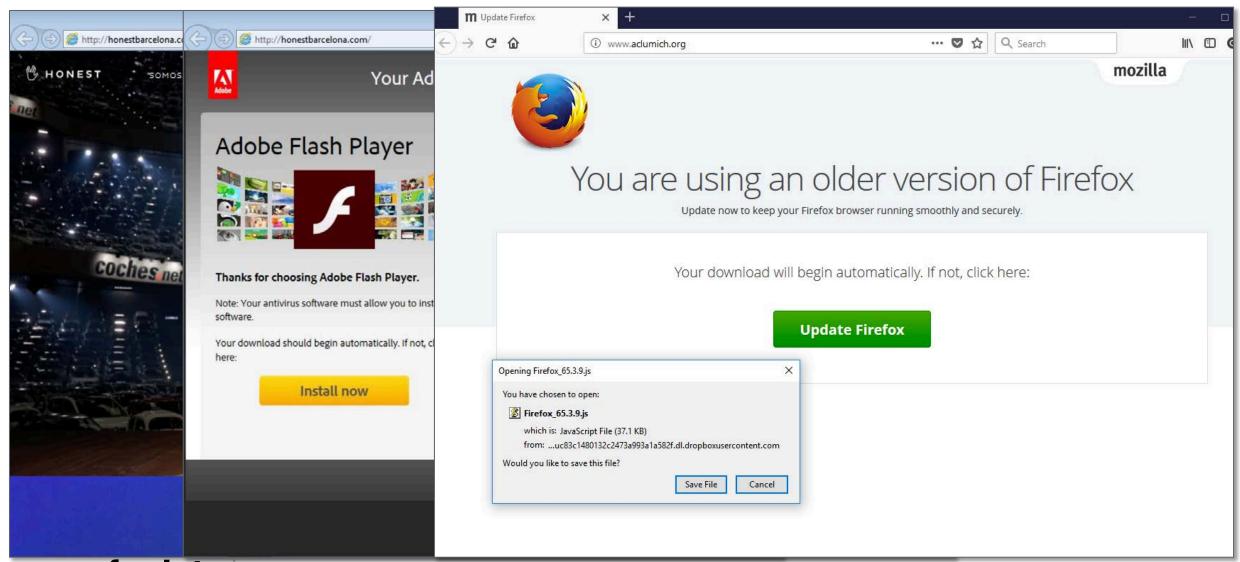
→ C 0

- Links to zipped downloader scripts (e.g., zipped .js & 7-Zipped .vbs)
- Newer
  - TDS Style
    - BlackTDS
    - SocGholish
    - SocGoth
- Less common:
  - Links to pages infected by Exploit Kits



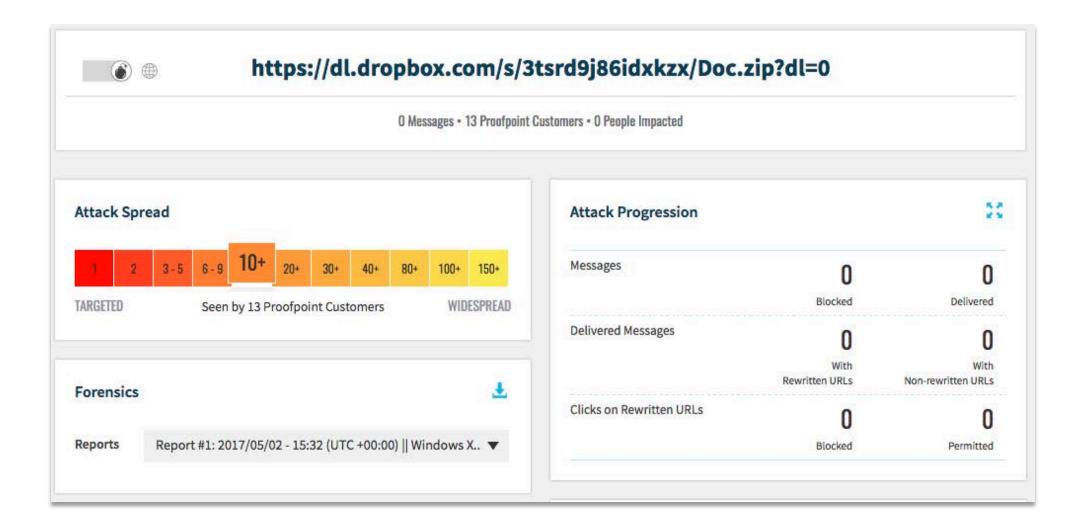


# Socgholish

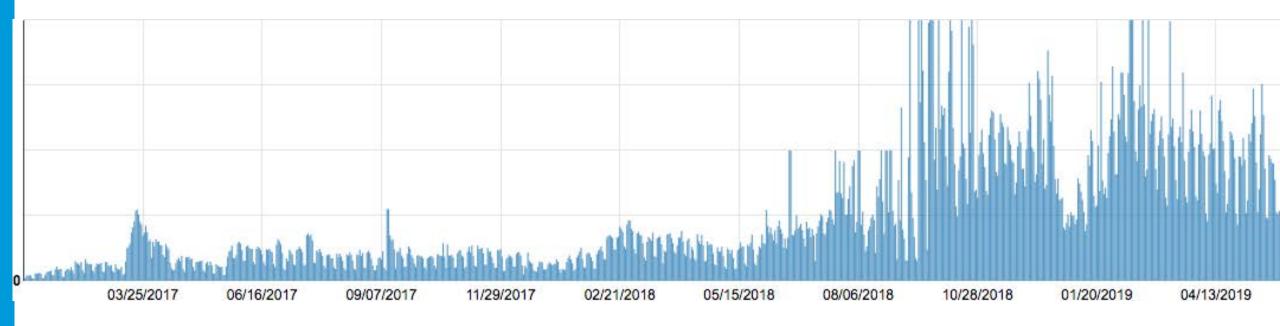


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#### Malware at the end of links



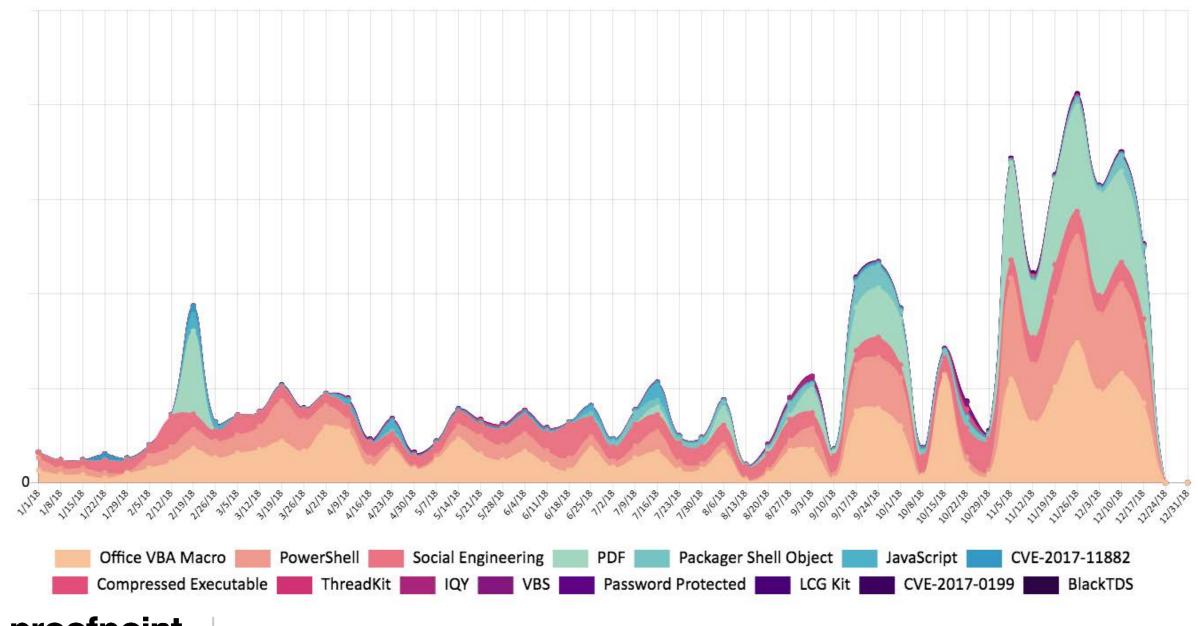
# **Unique Malicious URLs**



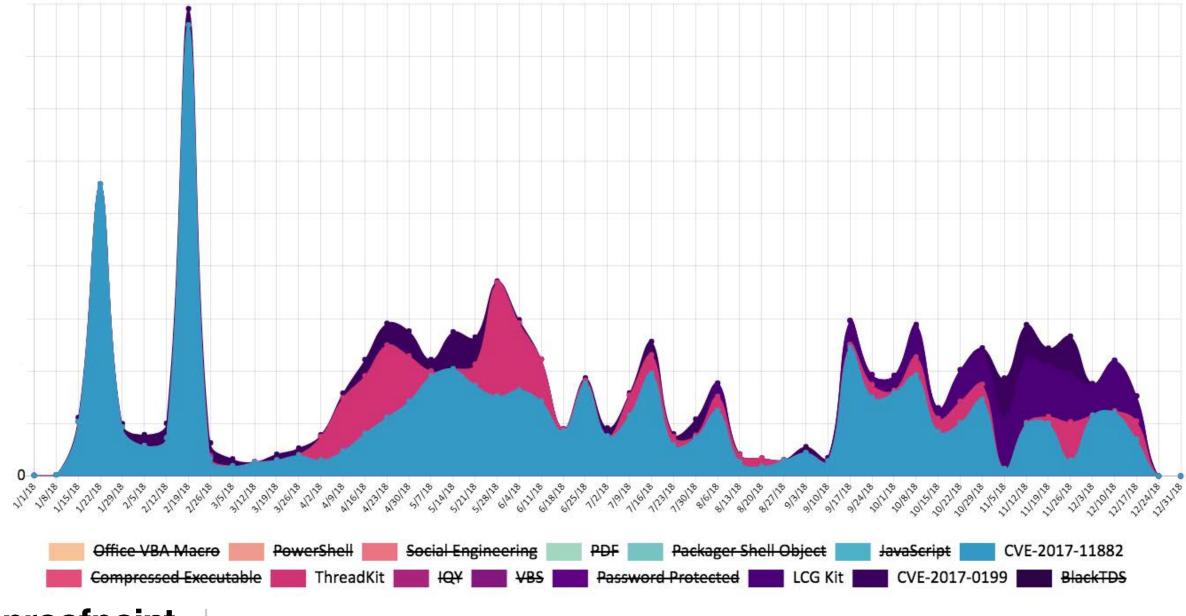


## **Exploits**

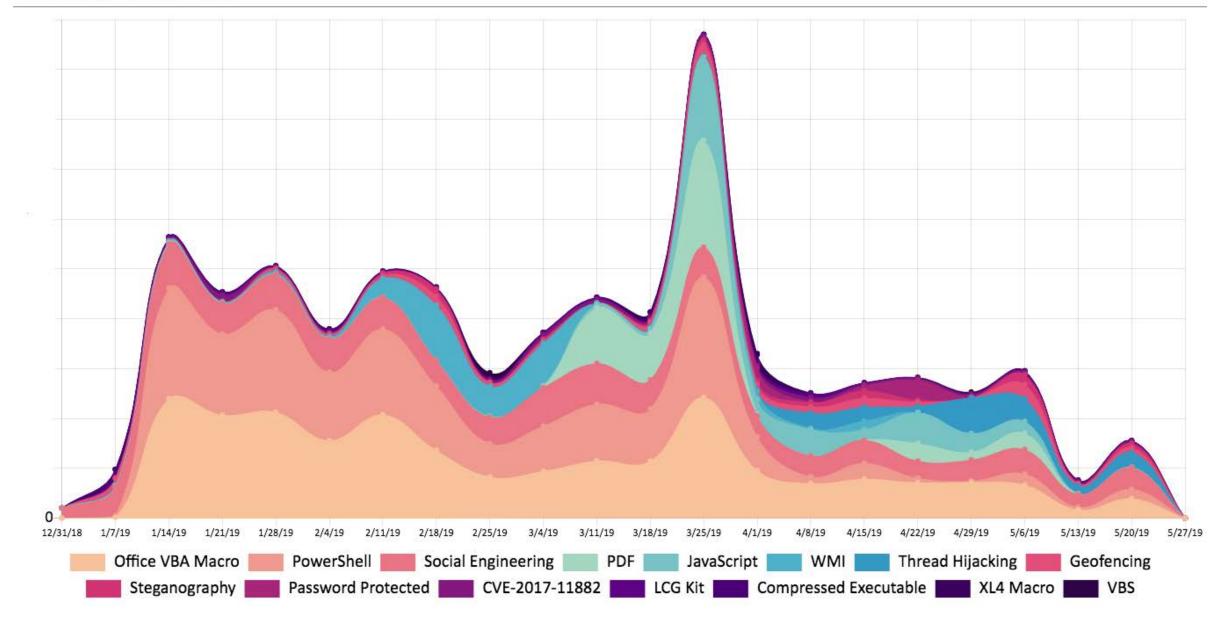
- We consider social engineering as an "exploit"
  - Office Macros are an extension of umbrella "Social Engineering" term
- Almost all exploits we see are Microsoft Office exploits
  - CVE-2017-11882
    - By far the most popular
  - CVE-2017-0199
  - CVE-2017-8570
- Exploit Builder Kits
  - ThreadKit
    - Supports multiple CVE's.
    - Has been found to be using exploit code from researchers
  - LCG Kit
    - Uses different variations of CVE-2017-11882



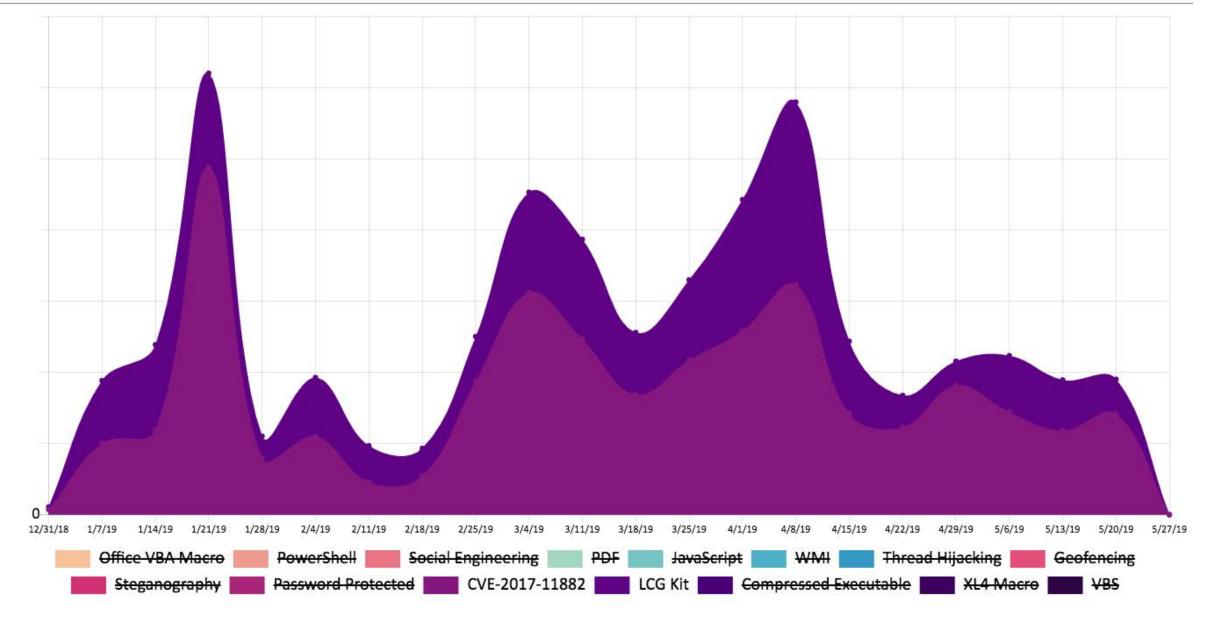
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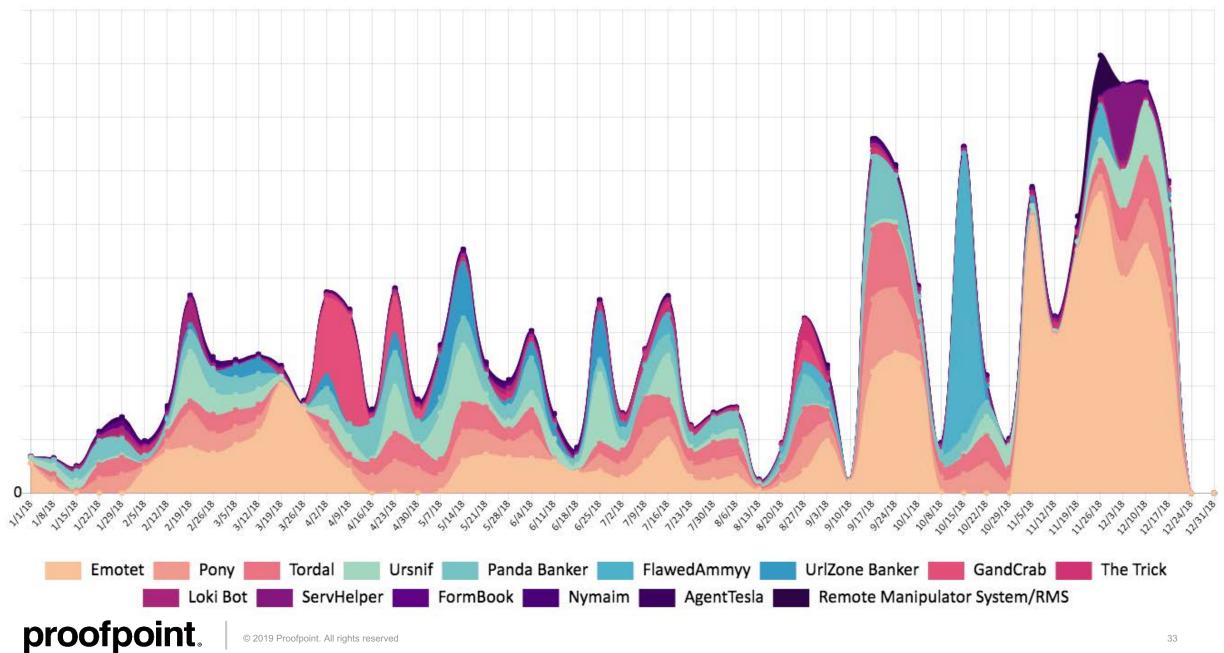
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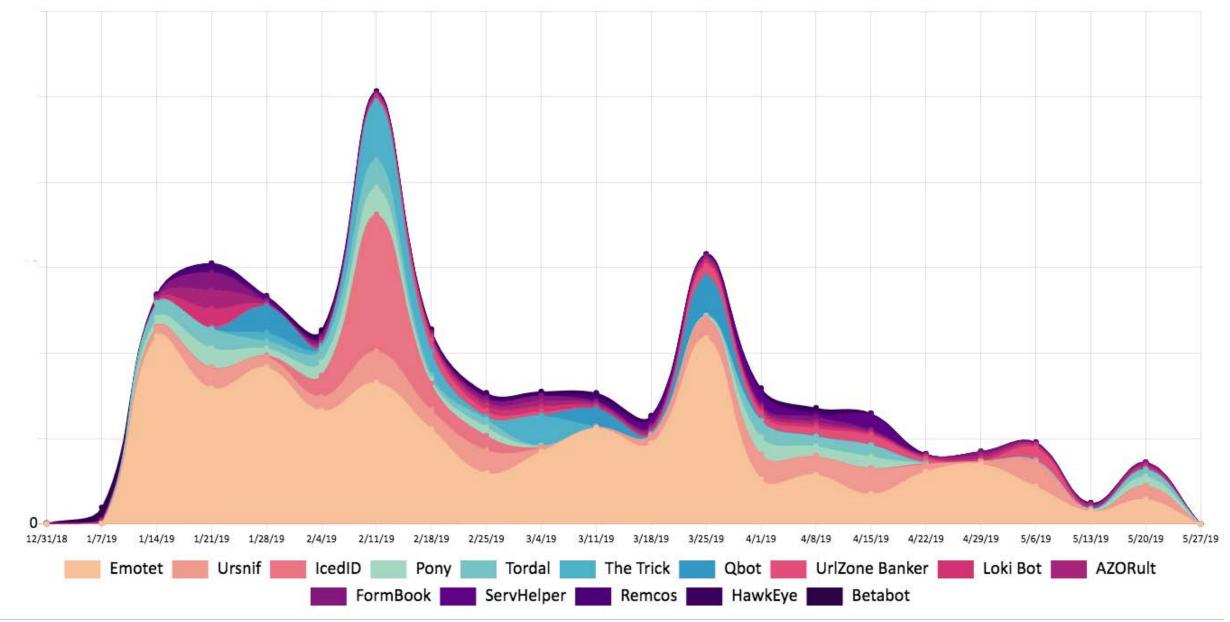
#### **Malware**

- Stealers and Downloaders
  - Dominated 2018
  - 2019 not looking any different
- Top malware 2018
  - Emotet
  - Pony
  - Tordal
- Top Malware 2019
  - Emotet
  - Ursnif
  - IcedID



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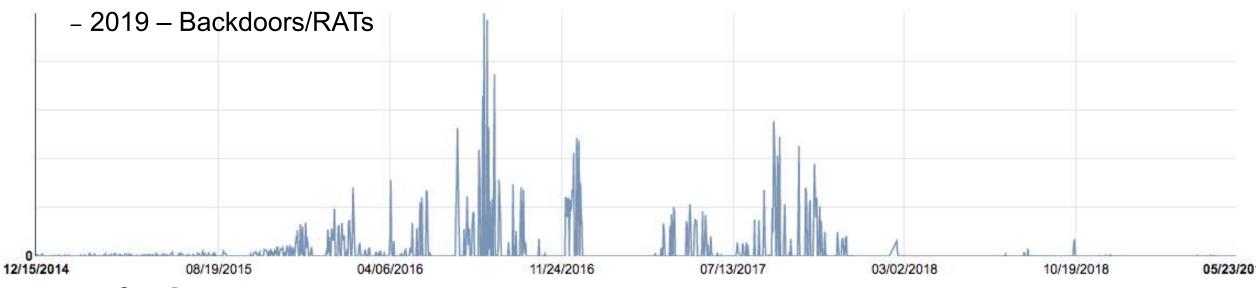


## **TA Designations**

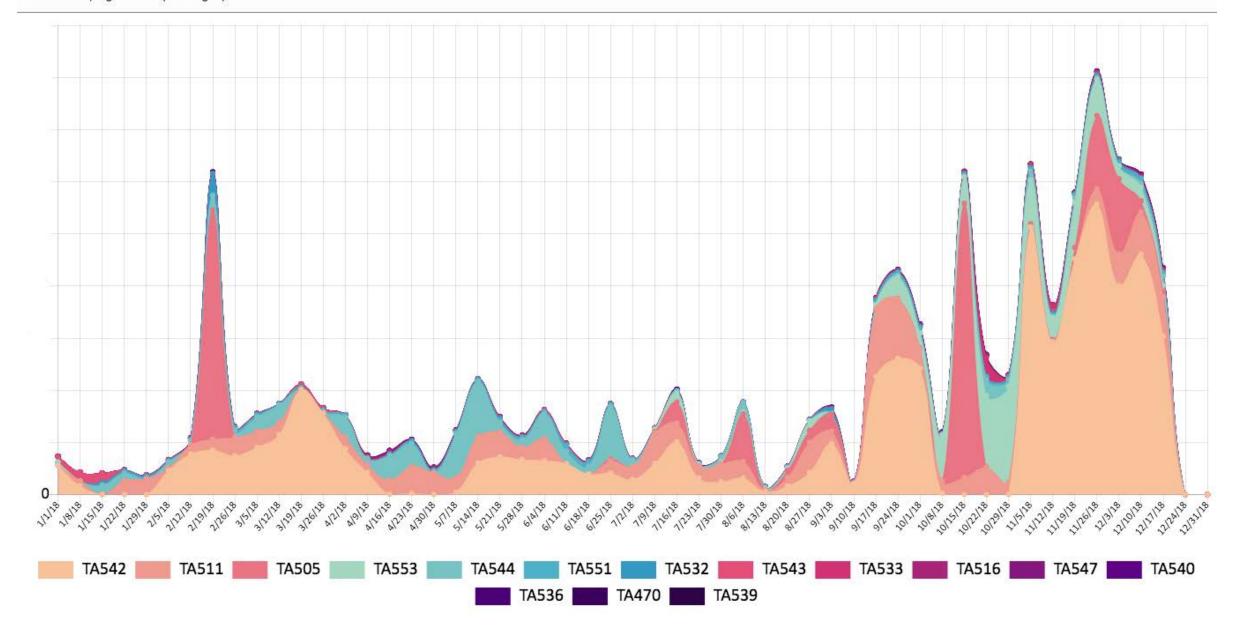
- 000 499: APT
- 500 1999: Crime large
  - large campaigns like those distributing Locky / Dridex bankers and ransomware
- 2000 2999: Crime small
  - more targeted like certain small BEC groups
- 3000 3999: Crime sophisticated
  - Cobalt, Fin7
- 4000 4999: Unknown/Sophisticated/Specialists
  - interesting groups that we are not sure where else to put

#### **TA505**

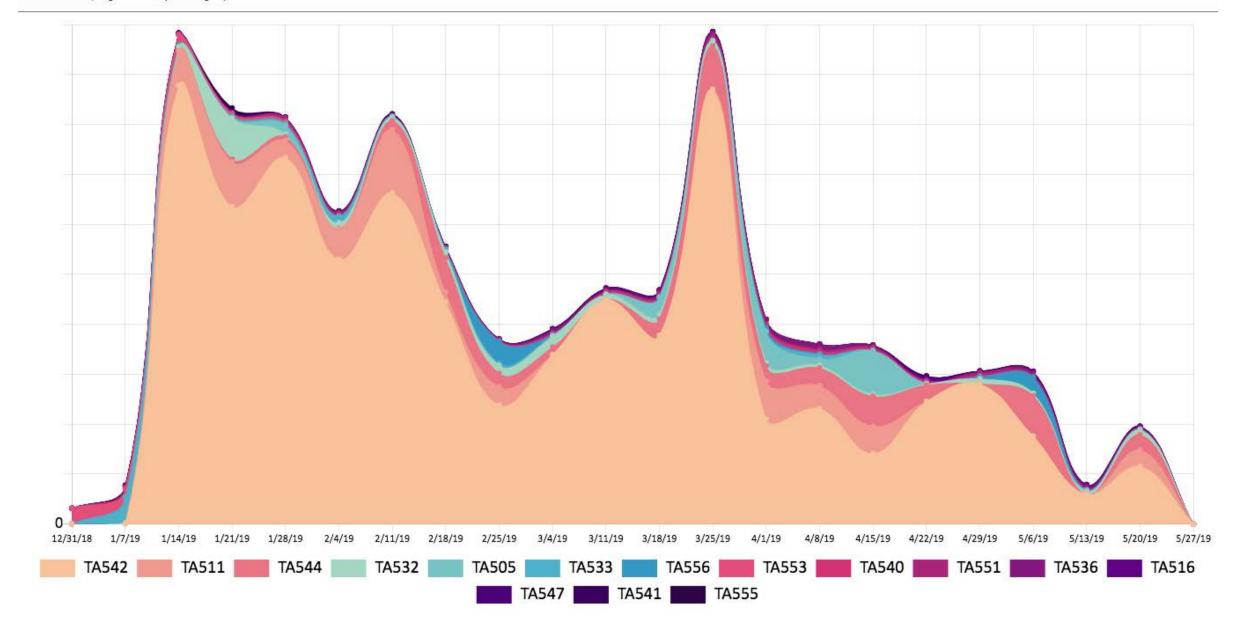
- TA505 tends to lead trends
  - 2014 Banking Trojan
  - 2015 Banking Trojan
  - 2016 Ransomware
  - 2017 Ransomware
  - 2018 RATs



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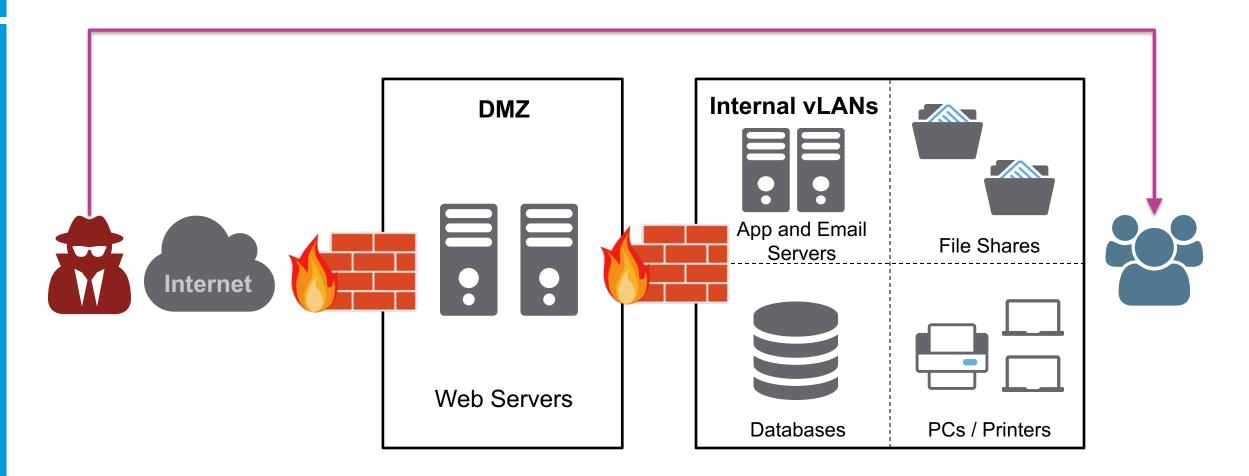


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# People Centric Security Analytics (PCSA)

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#### The Defender's POV



**O**365?

#### The Attacker's POV

#### jbarker@bank.co



Jack Barker • 3<sup>rd</sup>

Executive at Bank Co 500+ connections

#### lbream@bank.co



**Laurie Bream •** 2<sup>nd</sup>

Financial Advisory at Bank Co 500+ connections

#### rhendricks@bank.co



**Richard Hendricks • 3rd** 

Senior Systems Administrator 55 connections

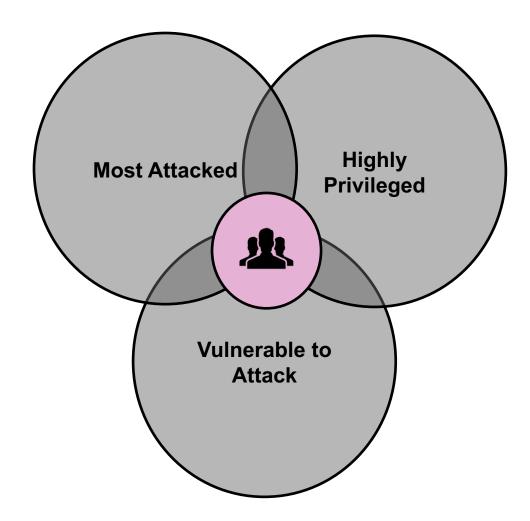
Featured Skills & Endorsements

**Microsoft Exchange** · 49



# **People-Centric Security Analytics**

Leverage our *unique* data top identify individuals or groups within an organization that might present a previously unknown security risk.



## **Proofpoint Attack Index**

**Actor Sophistication** 

**Attack Targeting** 

Type of Attack

**Volume of Attacks** 



- 0-1000 score per threat **sent**
- Weighted composite score
- Score explanations

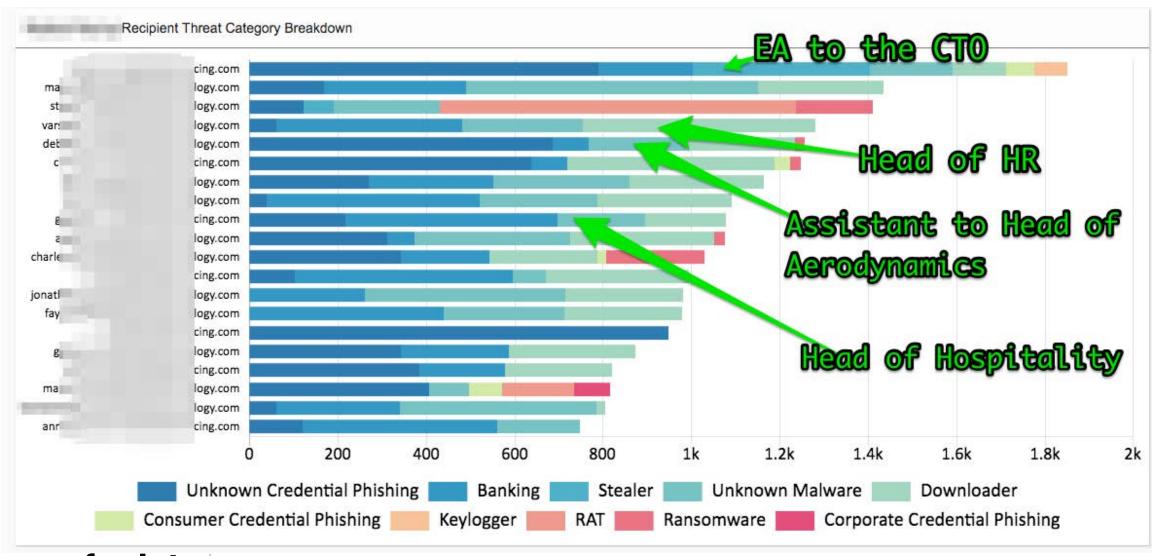


Understand the risk your users face and prioritize the most effective compensating controls



Receive reporting and metrics on the threats your users face

#### **Attack Index Results**



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