

#### ICE22

## Activity Clustering: Tracking the Actors Behind the Threats

Josh Davies – Product Manager

### **Project Ice Cream**

#### **Unique Insight**

Into 4000+ Customers producing a 30Pb threat data lake

#### **To Create**

Activity clusters of known threat actors / groups

LOR.SH

LOR.SH LOR.PS1

LOR.SP

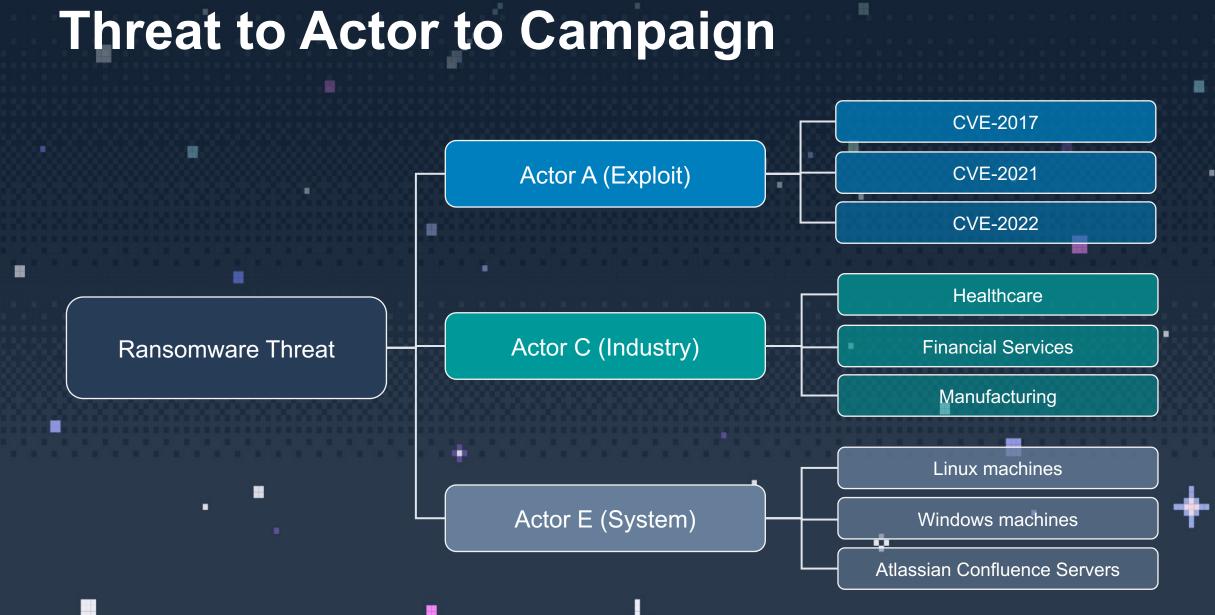
LOR.PS1

## **Threat vs Threat Actor**

#### Threat

The weapon(s) used to achieve objectives

Threat Actor The person(s) behind the threats Who? What? Why? How? Where?





## Analysis Methodology

-

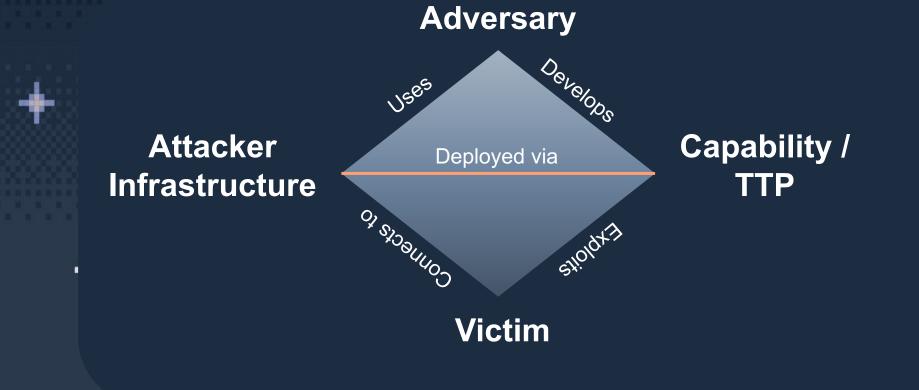


۰.



## **The Diamond Model**

**Clustering activity** under a single threat group or adversary to better **track and detect** their actions.





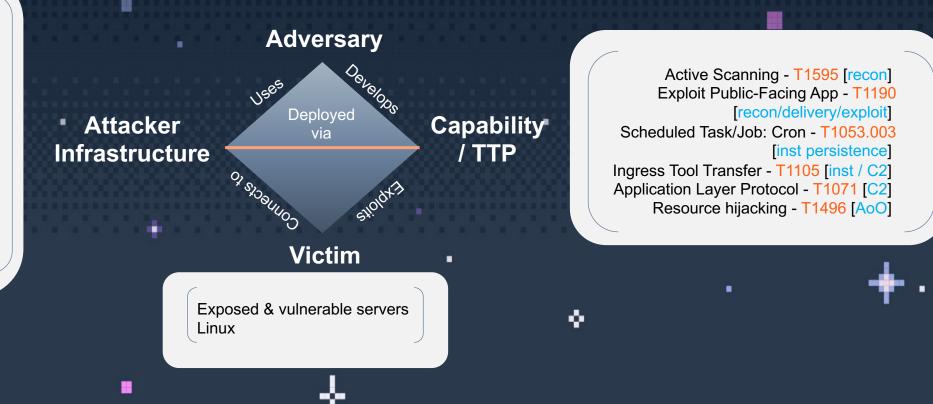




ATT&CK

#### Mint Example





PINDC-AS [recon] RMINJINERING [recon] SELECTEL [recon] EUROBYTE Eurobyte LLC [exp] Hosting vpsville[.]ru [exp] IHOR-AS [exp] BEST-HOSTER [inst] EUROBYTE Eurobyte LLC [inst] ITLAS [inst] EUROBYTE Eurobyte LLC [C2] GREENFLOID-AS [C2] ITEXPRESS-AS [C2] ASBAXET [AOO] FLYNET-AS [AOO]

## Mint's Campaigns

PHP Eval CVE-2017-9841

Citrix RCE CVE-2019-19781 Think PHP CVE-2019-9082

 SaltStack Authentication

 Bypass

 CVE-2020-11651

 Liferay

 CVE-2020-7961

 BIG-IP TMUI RCE

 CVE-2020-5902

 MobileIron Core & Connector

 CVE-2020-15505

 Web Logic

 CVE-2020-14882/CVE-2020 

 14750

 Micro Focus

 CVE-2020-11854

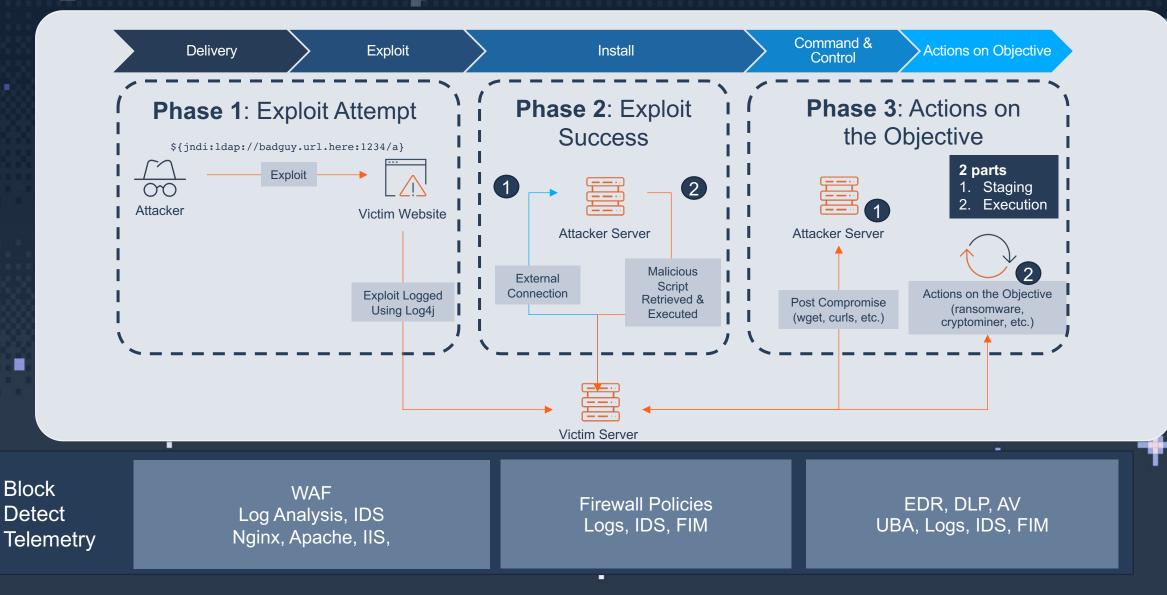
Laravel Ignition CVE-2021-3129 Confluence CVE-2021-26084 Apache RCE CVE-2021-41773

٠

Confluence CVE-2022-26134 F5 BIG-IP CVE-2022-1388 Spring4Shell CVE-2022-22965



## Layers of Defense: Log4Shell Attack Flow



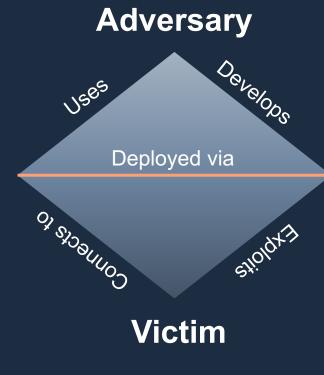
## **Developments to the Diamond**



#### Attacker Infrastructure

20

195.54.195.54.



## **Developments to the Diamond**



## **Activity Clustering Outcomes**

#### **For Alert Logic**

- Understand threat groups behind the threats
- Early warning of zero-days
- Insights of where to look next
- Anticipate next steps

#### For Organizations

- Better detection
- Better remediation advice
- Quicker response
- Comprehensive response

- Limit impact
- Apply lessons learned

### Want to learn more?

#### Search Alert Logic Threat Intelligence Blogs

#### Threat Intelligence



SEP 23, 2022

The Botnet Crypto-mining Conquest



SEP 9, 2022

What's Old is (Sort of) New Again: Bad Actors Continue Their Love of Web Shells



SEP 1, 2022

Shining a Light on Visibility for Enhanced Security Posture

https://www.alertlogic.com/blog/threat-activity-clusters-project-ice-cream/



# Next Steps

Get a technical deep dive of our solution by requesting a demo from one of our security experts

**REAL** Ice Cream delivered



•••