



What If?

From crazy ideas to more reasonable approaches to improve daily TI practice. (No TI staff were harmed during the making of this presentation!)

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Lift our overall abilities?

LEVEL UP

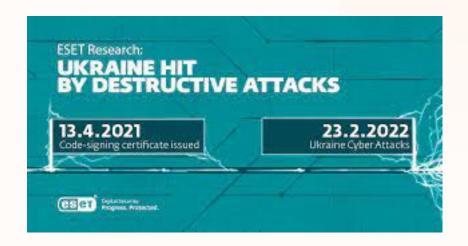
- Not an effort of one but of many
- The example of community CERT / First IRC
- Emergency response Ukraine—rapid sharing and collaboration
- Rapid response vs IP concerns sharing is the key, and being first lends advantage
- Joint up lift share better data together consolidation AV market –consequences /







Had more samples





DAMN ESET (pronunciation matters)

- NCSCs doesn't have malware res. / analyst
- Open platform submitting samples
- Triage ** AND** feedback incl. eta



Could Collaborate easier

Stronger together

- Amazing what you can achieve when no one cares who gets credit
- Not just technical
- Marketing & PR
- Open aegis // CTA
- WERKSPOT // Dividing work -supply & demand







Could Automate IOCs/ TTPs

Automate all the things!

- AUTOMATE IOC HITS and report for enrichment
- AND TAKE TTPS (DLL SIDE LOADING) as threat hunting objectives

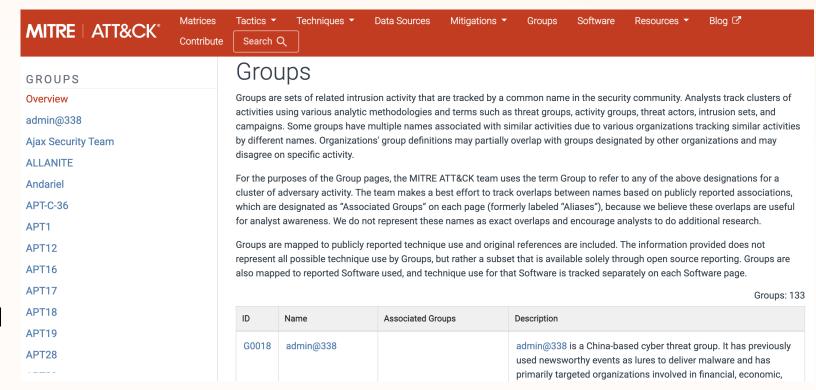






Could agree on threat actor/campaign naming

- SO OLD—I know
- AKA all the things historically
- Agree on Mitre naming convention and add any new reports to existing groups or request new.
 Right now – Best Effort from Mitre
- Confidence level for new IOCs and TTPs





Organizing the data

Drowning in data...

- We are now not able to use all the data we have from our sensors and products -> We have more data than we are processing
- Easy query data / connections?
- Quickly compare samples at scale? (Not just SSDEEP)
- Sometimes we are missing context but are we missing context because of volume or pipeline?
 - If volume -> maybe ML is here to help to cherry pick what is interesting
 - Use it to cherry pick anomalies from huge volume of unclassified data then researcher needs to validate







Improve collaboration between Al /Malware research teams

- Communication Gap

 Statistically versus Deterministic sample detection
 BOOSTING

 learn and look at mistake, rinse and repeat

 Take a Boosting approach
- Knowledge Gap /Graphs

 Security knowledge required to understand different strains/ mutexs etc.
 And make decisions
- Seemingly inconsistent information hard to encode constraints ie / also predicting times and sequence and ordering
- Explainability understand why certain outputs are achieved from a certain model—better to move to a contract mechanism – where you know how to predict behavior 99% of the time

Andrew Gardner on Efficacy— "We're just not measuring what matters. Our focus is on efficacy when we

need to go beyond it with enrichment, context, and cost. '

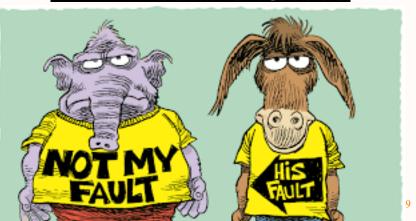




Context building with OSINT easier

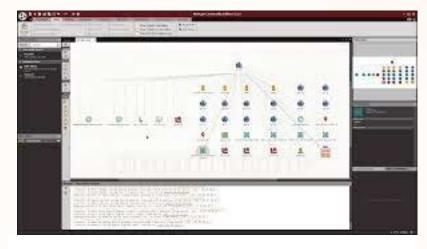
- Context
- Structural use of OSINT/ Directed Hunting
- OSINT & MALWARE RESEARCH teams







Improve investigation basis — tooling and structural availability







MOTHERBOARD

Revealed: US Military
Bought Mass Monitoring
Tool That Includes
Internet Browsing, Email
Data

The "Augury" platform includes highly sensitive network data that Team Cymru, a private company, is selling to the military. "It's everything.



Disruption requires democratization

- Better cross border collaboration
- Law Enforcement Relationship building
- Transparancy of the process and better usability of the results

