DEVELOPING A THREAT INTELLIGENCE MODEL AND FRAMEWORK?

How You Can Promote Its Use in MISP and Other TIPs.

MISP PROJECT

12TH EU MITRE ATT&CK COMMUNITY



WHAT IS A MISP GALAXY?

- MISP Galaxy is a feature in MISP and a MISP standard¹ format to create **contextualization libraries**.
 - ► There are two main types: combined list or matrix-like list.
- The first historical matrix-like galaxy was MITRE ATT&CK².
- Galaxies contain intelligence that can be structured in a matrix-like format. Relationships between models can be created, and implementation such as in MISP allows for the forking and sharing of information. This is typically attached to intelligence in threat intelligence platforms to add context.

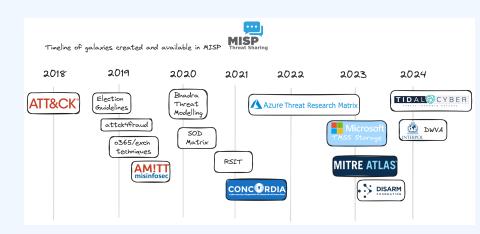
https://www.misp-standard.org/

²Presented at the first EU ATT&CK community meeting in Luxembourg

ORIGINS AND EVOLUTION

- Seeing the success of the ATT&CK framework in MISP gave rise to a host of matrix-based models:
 - ► Inflation? We don't think so. There are different models because there are many different use cases to be represented.
 - We found this to be good as long as those models are maintained.

MISP GALAXIES OVER TIME



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WHAT LEADS TO STARTING NEW FRAMEWORKS?

- New frameworks try to fill gaps.
- New ideas in different areas/domains.
- Small vs. large initiatives.
- **■** Collaboration is not always easy.
 - Small contributors vs. large organizations.
 - Absence of guidance to contribute.
 - Closed models.
- Research & publication vs. practical use.
- Need for timely new data in a continuously evolving threat landscape.

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CONVERSION (OR THE DIRTY PART)

- Understand the topic.
- Understand the users and their use cases.
- Map to Matrix / Kill Chain.
- Handle various formats:
 - ► JSON, XLS, PDF, DOCX, Markdown, CSV, web scraping, Python, etc.
- Reverse engineer the data model.
- Manage UUIDs: existing vs. generating new.
- Handle duplicate values³:
 - Interaction with the framework owner.
- Create the conversion script.

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³In other words, many organizations didn't machine-validate their own model.

GET IN TOUCH IF YOU HAVE ANY QUESTIONS

- MISP galaxy website https://www.misp-galaxy.org/
- Contact MISPProject
 - ► https://github.com/MISP
 - ► https://gitter.im/MISP/MISP
 - ► https://twitter.com/MISPProject