MISP WORKSHOP

INTRODUCTION INTO INFORMATION SHARING USING

TEAM CIRCL TLP:CLEAR

MISP PROJECT



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2024-04-15

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PLAN FOR THIS SESSION

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 \square Plan for this session

 Explanation of the CSIRT use case for information sharing and what IGRL does
 Building an information sharing community and best practices¹
 Quick demo of MISP capabilities

'We published the complete guidelines in https://www.x-isac.org/ sets/images/guidelines_to_set-up_an_ISAC.pdf

- Explanation of the CSIRT use case for information sharing and what CIRCL does
- Building an information sharing community and best practices¹
- Quick demo of MISP capabilities

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Communities operated by CIRCL

 As a CSIRT, CIRCL operates a wide range of communities
 We use it as an internal tool to cover various day-to-day activities

- Whilst being the main driving force behind the development we're also one of the largest consumers
- Different communities have different needs and restriction

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-Communities operated by CIRCL

- Private sector community (fall-back con
- Over +1500 organisation +4000 users

- etc

Private sector community (fall-back community)

- Our largest sharing community
- Over +1500 organisations
- +4000 users
- Functions as a central hub for a lot of sharing communities
- Private organisations, Researchers, Various SoCs, some CSIRTs, etc
- CSIRT community
 - Tighter community
 - National CSIRTs, connections to international organisations, etc

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Communities operated by CIRCL

- Financial sector community
- Banks, payment processors, etc.
 Sharing of mule accounts and non-cyber threat information
 X-ISAC²
- Bridging the gap between the various sectorial and
- Goal is to bootstrap the cross-sectorial sharing along wi
- building the infrastructure to enable sharing when neede

https://www.x-isac.

Financial sector community

- Banks, payment processors, etc.
- Sharing of mule accounts and non-cyber threat information

X-ISAC²

- Bridging the gap between the various sectorial and geographical ISACs
- Goal is to bootstrap the cross-sectorial sharing along with building the infrastructure to enable sharing when needed
- Provide a basic set of threat intelligence for new ISACs

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Communities operated by CIRCL

COMMUNITIES OPERATED BY CIRCL

- The ATT&CK EU community³
- Work on attacker modelling
- With the assistance of NITRE themselves
 Unique opportunity to standardise on TTPs
 - Increasing the use of TTPs⁴ especially in sharing commu-
 - Major increase of MITRE ATT&CK context in sharing

³https://www.attack-community.org/ *Tactics, Techniques and Procedures

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COMMUNITIES SUPPORTED BY CIRCL

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└─Communities supported by CIRCL

COMMUNITIES SUPPORTED BY CIRCL

- ISAC / specialised community MISPs
 Topical or community specific instances host
- co-managed by CIRCL
- Examples, GSMA, FIRST.org, CSIRTs network, etc.
 Often come with their own taxonomies and domain specific
- object definitions
- Telecom and Mobile operators' such as GSMA T-ISAC
- community
- Various ad-hoc communities for cyber security exercise
 - The ENISA exercise (Cyber Europe)
 NATO Locked Shields exercise

■ ISAC / specialised community MISPs

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Sharing Scenarios in MISP

- Sharing can happen for many different reasons. Let's see
- what we believe are the typical CSIRT scenarios
- We can generally split these activities into 4 main group
- Core services
 - Proactive services
 Advanced conjugat
- Advanced services
 Sharing communities managed by CSIRTs for variou

- Sharing can happen for many different reasons. Let's see what we believe are the typical CSIRT scenarios
- We can generally split these activities into 4 main groups when we're talking about traditional CSIRT tasks:
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 - Proactive services
 - Advanced services
 - Sharing communities managed by CSIRTs for various tasks

CSIRT CORE SERVICES

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Incident response
 Hoteland dragge of incident response dus
 Constanting data control and using the instruments
 Constanting and a control and using the instruments
 Constanting and a control and using the instruments
 Constanting of information links (instruments with Rut)

%https://www.ail-project.o

Incident response

- Internal storage of incident response data
- Sharing of indicators derived from incident response
- Correlating data derived and using the built in analysis tools
- **Enrichment** services
- **Collaboration** with affected parties via MISP during IR
- **Co-ordination** and collaboration
- Takedown requests
- Alerting of information leaks (integration with AIL⁵)

⁵https://www.ail-project.org/

CSIRT PROACTIVE SERVICES

- **Contextualising** both internal and external data
- Collection and dissimination of data from various sources (including OSINT)
- Storing, correlating and sharing own manual research (reversing, behavioural analysis)
- Aggregating automated collection (sandboxing, honeypots, spamtraps, sensors)
 - MISP allows for the creation of internal MISP "clouds"
 - Store large specialised datasets (for example honeypot data)
 - MISP has interactions with a large set of such tools (Cuckoo, Mail2MISP, etc)
- Situational awareness tools to monitor trends and adversary TTPs within my sector/geographical region (MISP-dashboard, built in statistics)

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-CSIRT proactive services

CSIRT PROACTIVE SERVICES

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CSIRT ADVANCED SERVICES

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-CSIRT advanced services

- Supporting forensic analysts
 Collaboration with law enforcement
- Vulnerability information sharing
- Notifications to the constituency about relevant velocrabilities
- Co-ordinating with vendors for notifications (*)
- Internal / closed community sharing of pentest rer

Supporting forensic analysts

- Collaboration with law enforcement
- Vulnerability information sharing
 - Notifications to the constituency about relevant vulnerabilities
 - **Co-ordinating** with vendors for notifications (*)
 - Internal / closed community sharing of pentest results

CSIRTS' MANAGEMENT OF SHARING COMMUNITIES FOR CONSTITUENT ACTIONS:

- Reporting non-identifying information about incidents (such as outlined in NISD)
- Seeking and engaging in collaboration with CSIRT or other parties during an incident
- Pre-sharing information to request for help / additional information from the community
- Pseudo-anonymised sharing through 3rd parties to avoid attribution of a potential target
- Building processes for other types of sharing to get the community engaged and acquainted with the methodologies of sharing (mule account information, disinformation campaigns, border control, etc)

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A QUICK NOTE ON LEGAL COMPLIANCE...

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└─A quick note on legal compliance...

- Collaboration with legal advisors as part of a CEF project for
- creating compliance documents
 Information sharing and cooperation such as GDPR
- How MISP enables stakeholders identified by the NISD to
- perform key activities
 AlL and MISP
- For more information:
- https://github.com/CIRCL/compliance about DOR GDPR. ISO 27010 and MISP compliance

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BRINGING DIFFERENT SHARING COMMUNITIES TOGETHER

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together

-Bringing different sharing communities

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 Division is either sectorial or geographical
 So why even bother with trying to bridge these communities?

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- Division is either sectorial or geographical
- So why even bother with trying to bridge these communities?

ADVANTAGES OF CROSS SECTORIAL SHARING

- Reuse of TTPs across sectors
- Being hit by something that **another sector has faced before**
- Hybrid threats how seemingly unrelated things may be interesting to correlate
- Prepare other communities for the capability and culture of sharing for when the need arises for them to reach out to CSIRT
- Generally our field is ahead of several other sectors when it comes to information sharing, might as well spread the love



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Advantages of cross sectorial sharing

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GETTING STARTED WITH BUILDING YOUR OWN SHARING COMMUNITY

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Getting started with building your own sharing community

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 Many moving parts and most importantly, you'll be dealing with a diverse group of people
 Understanding and working with your constituents to help them face their challenges is key

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GETTING STARTED WITH BUILDING YOUR OWN SHARING COMMUNITY

When you are starting out - you are in a unique position to drive the community and set best practices...



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Getting started with building your own sharing community

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RUNNING A SHARING COMMUNITY USING MISP - HOW TO GET GOING?

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Running a sharing community using MISP -How to get going? RUNNING A SHARING COMMUNITY USING MISP - HOW TO GET GOING?

- Different models for constituents
- Connecting to a MISP instance hosted by a CSIRT
- Hosting their own instance and connecting to CSIRT's MISP
 Becoming member of a sectorial MISP community that is
- connected to CSIRT's community
- Planning ahead for future growth
 Estimating requirements
- Deciding early on common vocabularies
- Offering expansion, analysis and intelligence services the service of the service o

Different models for constituents

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 - **Estimating requirements**
 - Deciding early on common vocabularies
 - Offering expansion, analysis and intelligence services through MISP

Rely on our instincts to immitate over expecting adherence to rules

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 Rely on our instincts to immitate over expecting adherence to rules RELY ON OUR INSTINCTS TO IMMITATE OVER EXPECTING ADHERENCE TO RULES

- Lead by example the power of immitation
 Encourage improving by doing instead of blocking sharing
 with use lists and the sector.
- with unrealistic quality controls

 What should the information look like?
- How should it be contextualise
 What do you consider as useful information?
- What do you consider as doubt information?
 What tools did you use to get your conclusions?
- Side effect is that you will end up raising the capabilities of your constituents

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WHAT COUNTS AS VALUABLE DATA?

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└─What counts as valuable data?

- Sharing comes in many shapes and sizes
- Sharing results / reports is the classical example
- Sharing enhancements to existing data/intelligence
 Validating data / flagging false positives (slepting)
- Asking for support and collaboration from the communi-
- Embrace all of them. Even the ones that don't make sens right new you never income they come bandy.

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HOW TO DEAL WITH ORGANISATIONS THAT ONLY "LEECH"?

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How to deal with organisations that only "LEECH"?

- From our own communities, only about 30% of the organisations actively share data
- We have come across some communities with sharing
 requirements
 - In our experience, this sets you up for failure because:
 - Organisations losing access are the ones who would possibily benefit the most from it
 - Organisations that want to stay above the thresholds will start sharing junk / fake data
 - You lose organisations that might turn into valuable contributors in the future

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SO HOW DOES ONE CONVERT THE PASSIVE ORGANISA-TIONS INTO ACTIVELY SHARING ONES?

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—So how does one convert the passive organisations into actively sharing ones? SO HOW DOES ONE CONVERT THE PASSIVE ORGANISA-TIONS INTO ACTIVELY SHARING ONES?

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 Help them increase their capabilities
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 Give credit have credit is due, never statist the contributions

- Rely on organic growth and it takes time (+2 years is common)
- **Help** them increase their capabilities
- As mentioned before, lead by example
- Rely on the inherent value to one's self when sharing information (validation, enrichments, correlations)
- Give credit where credit is due, never steal the contributions of your community (that is incredibly demotivating)

DISPELLING THE MYTHS AROUND BLOCKERS WHEN IT COMES TO INFORMATION SHARING

- Sharing difficulties are not really technical issues but often it's a matter of **social interactions** (e.g. **trust**).
 - You can play a role here: organise regular workshops, conferences, have face to face meetings
- Legal restrictions
 - "Our legal framework doesn't allow us to share information."
 - "Risk of information leak is too high and it's too risky for our organization or partners."

Practical restrictions

- "We don't have information to share."
- "We don't have time to process or contribute indicators."
- "Our model of classification doesn't fit your model."
- "Tools for sharing information are tied to a specific format, we use a different one."

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CONTEXTUALISING THE INFORMATION

Sharing technical information is a great start

- However, to truly create valueable information for your community, always consider the context:
 - Your IDS might not care why it should alert on a rule
 - But your analysts will be interested in the threat landscape and the "big picture"
- Classify data to make sure your partners understand why it is important for you, so they can see why it could be useful to them
- Massively important once an organisation has the maturity to filter the most critical subsets of information for their own defense

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CHOICE OF VOCABULARIES

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└─Choice of vocabularies

CHOICE OF VOCABULARI

- MISP has a verify versatile system (taxonomies) for classifying and marking data
- However, this includes different vocabularies with obvious overlaps
- MISP allows you to pick and choose vocabularies to use and enforce in a community
- Good idea to start with this process early
 More deals find what works leading for
- If you don't find what you're looking for:
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 - Create your own (JSON format, no coding skills required)
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SHARED LIBRARIES OF META-INFORMATION (GALAXIES)

The MISPProject in co-operation with partners provides a curated list of galaxy information

- Can include information packages of different types, for example:
 - Threat actor information (event different models or approaches)
 - Specialised information such as Ransomware, Exploit kits, etc
 - Methodology information such as preventative actions
 - Classification systems for methodologies used by adversaries
 ATT&CK
- Consider improving the default libraries or contributing your own (simple JSON format)
- If there is something you cannot share, run your own galaxies and share it out of bound with partners
- Pull requests are always welcome

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└─Shared libraries of meta-information (Galaxies) SHARED LIBRARIES OF META-INFORMATION (GALAXIE

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FALSE-POSITIVE HANDLING

└─False-positive handling

FALSE-POSITIVE HANDLIN

- You might often fall into the trap of discarding seemingly
 "junk" data
- Besides volume limitations (which are absolutely valid, fear of false-positives is the most common reason why people discard data) - Our recommendation:
- Be lenient when considering what to keep
 Be strict when you are feeding tools.
- MISP allows you to filter out the relevant data on demand when feeding protective tools
- What may seem like junk to you may be absolutely critical to other users

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MANY OBJECTIVES FROM DIFFERENT USER-GROUPS

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└─Many objectives from different user-groups

MANY OBJECTIVES FROM DIFFERENT USER-GROUPS

- Sharing indicators for a detection matter.
 'Do I have infected systems in my infrastructure or the one:
- Sharing indicators to block.
- I use these attributes to block, sinkhole or divert traffic.
- Sharing indicators to perform intelligence.
 'Gathering information about campaiens and attacks. Are
- they related? Who is targeting me? Who are the adversaries ■ → These objectives can be conflicting (e.g. False-positives have different impacts)

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Sharing indicators to **block**.

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 - 'Gathering information about campaigns and attacks. Are they related? Who is targeting me? Who are the adversaries?'
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FALSE-POSITIVE HANDLING

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—False-positive handling

Analysts will often be interested in the modus operandi of threat actors over long periods of time Even cleaned up infected hosts might become interesting again (embedded in code, recurring reuse) I ten the toole required to climicate obviour file activities

instead and limit your data-set to the most relevant sets

Warning: Potential false positives

- Analysts will often be interested in the modus operandi of threat actors over long periods of time
- Even cleaned up infected hosts might become interesting again (embedded in code, recurring reuse)
- Use the tools provided to eliminate obvious false positives instead and limit your data-set to the most relevant sets

Warning: Potential false positives

List of known IPv4 public DNS resolvers

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└─Managing sub-communities

- Often within a community smaller bubbles of information sharing will form
- For example: Within a national private sector sharing community, specific community for financial institutions
 - Sharing groups serve this purpose mainly
- As a CSIRT running a national community, consider bootstraping these sharing communities
- Organisations can of course self-organise, but you are the ones with the know-how to get them started

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MANAGING SUB-COMMUNITIES

Consider compartmentalisation - does it make sense to move a secret squirrel club to their own sharing hub to avoid accidental leaks?

- Use your **best judgement** to decide which communities should be separated from one another
- Create sharing hubs with **manual data transfer** if needed
- Some organisations will even have their data air-gapped -Feed system
- Create guidance on what should be shared outside of their bubbles - organisations often lack the insight / experience to decide how to get going. Take the initiative!

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└─Managing sub-communities

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Use your best judgement to decide which communities should be separated from one another

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 Some organisations will even have their data air-gapped -

reed system
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GET IN TOUCH IF YOU NEED SOME HELP TO GET STARTED

Getting started with building a new community can be daunting. Feel free to get in touch with us if you have any questions!

- Contact: info@circl.lu
- https://www.circl.lu/ https://www.misp-project.org/
- https://github.com/MISP https://gitter.im/MISP/MISP https://twitter.com/MISPProject

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