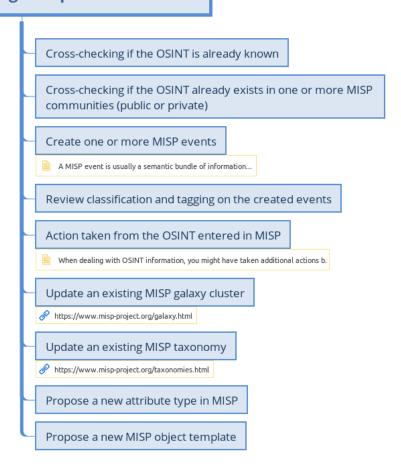
Collecting and analysing OSINT into MISP threat intelligence platform.

Collecting and analysing OSINT into MISP threat intelligence platform	
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Collecting and analysing OSINT into MISP threat intelligence platform.

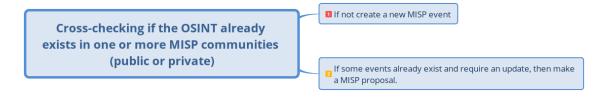




1. Cross-checking if the OSINT is already known



- 1.1. Search in public indexer if already reported in other blog posts, reports or any public sources.
- 2. Cross-checking if the OSINT already exists in one or more MISP communities (public or private)



2.1. If not create a new MISP event

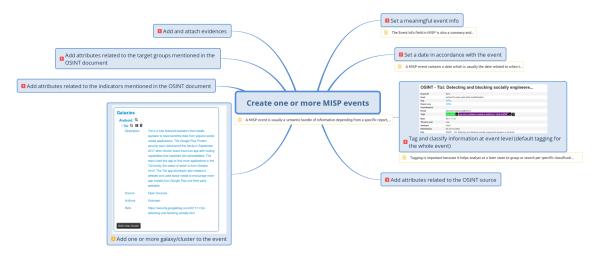
1

See Also: Create one or more MISP events

2.2. If some events already exist and require an update, then make a MISP proposal.

2

3. Create one or more MISP events



See Also: If not create a new MISP event

A MISP event is usually a semantic bundle of information depending from a specific report, event, notes, blog posts or information.

As an example, the following blogpost can be considered as an event:

https://security.googleblog.com/2017/11/tizi-detecting-and-blocking-socially.html

The above example will be used for the overall flow.

3.1. Set a meaningful event info

1

The Event Info field in MISP is also a summary and a title of the event. It's important to set a meaning and concise summary.

Based on the above example, the title of the blog post:

Tizi: Detecting and blocking socially engineered spyware on Android

It's meaningful and concise. Some analysts like to prefix immediately in the title that the information is OSINT and do the following title:

OSINT - Tizi: Detecting and blocking socially engineered spyware on Android

3.2. Set a date in accordance with the event



A MISP event contains a date which is usually the date related to when the activity happens or detected. It's often easier and clearer to set the publishing date of the OSINT information even if the event happened in the past.

For the above case, the date is

November 27, 2017 as this is the date mentioned in the blog post.

3.3. Tag and classify information at event level (default tagging for the whole event)



OSINT - Tizi: Detecting and blocking socially engineere...

Event ID	9513
Uuid	5a23a972-e6a0-4a05-b505-4e8f02de0b81
Org	CIRCL
Owner org	CIRCL
Contributors	
Email	alexandre.dulaunoy@circl.lu
Tags	tlp:white x ms-caro-malware:malware-platform="AndroidOS" x +
Date	2017-11-27
Threat Level	Low
Analysis	Initial
Distribution	All communities
Info	OSINT - Tizi: Detecting and blocking socially engineered spyware on Android

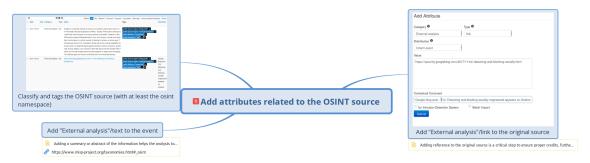
Tagging is important because it helps analyst at a later state to group or search per specific classification or categories.

We strongly recommend to tag as tlp:white classification for information collected from OSINT source and especially add a distribution to "All communities". This allows everyone to get your structured information via MISP sharing. And especially to benefit from correction, improvement or updates from other analysts.

If you create or share your event in MISP CIRCL communities, feel free to add circl:osint-feed to add your event in the default OSINT export available in default MISP installation. This allows a larger diffusion of your work within MISP communities.

3.4. Add attributes related to the OSINT source





3.4.1. Add "External analysis"/link to the original source

Add Attribute

Category 6	Type 3
External analysis	link
Distribution 6	
Inherit event	
Value	
Contextual Comment	
Google blog post - Tizi: Detecting	and blocking socially engineered spyware on Androic
for Intrusion Detection System	☐ Batch Import
Submit	

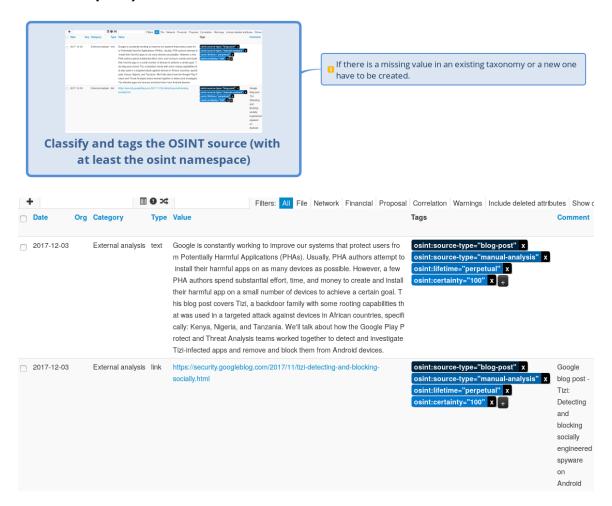
Adding reference to the original source is a critical step to ensure proper credits, further analysis or set a confidence/credibility level of the OSINT source.

An additional benefit of adding a source is the ability to track existing one with the built-in correlation in MISP.

3.4.2. Add "External analysis"/text to the event

Adding a summary or abstract of the information helps the analysts to find back later information without the need to check external resources.

3.4.3. Classify and tags the OSINT source (with at least the osint namespace)



If there is a missing value in an existing taxonomy or a new one have to be created.

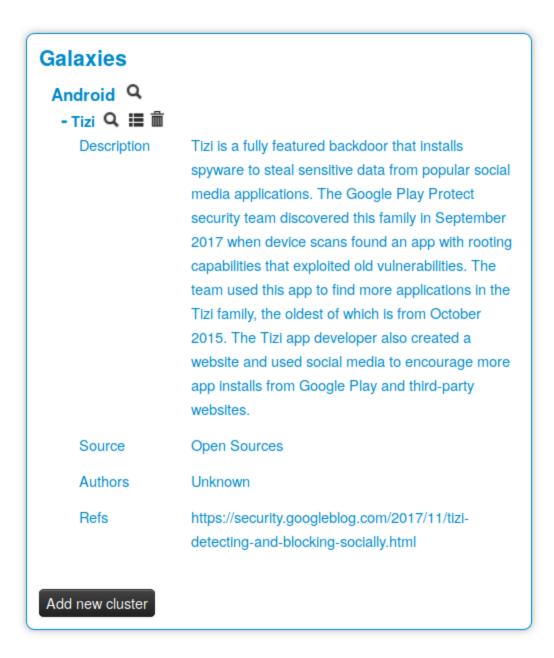


See Also: Update an existing MISP taxonomy

3.5. Add one or more galaxy/cluster to the event







3.5.1. If there is no related galaxy/cluster/value, add a new one.



See Also: Update an existing MISP galaxy cluster

3.6. Add attributes related to the indicators mentioned in the OSINT document





3.6.1. If there is any files mentioned in the OSINT information, add corresponding file object(s).



- 3.6.2. If there is any missing objects or attributes type in MISP to describe this OSINT, propose a new one.
- 3.7. Add attributes related to the target groups mentioned in the OSINT document



3.7.1. If there is any target groups, pick the right attribute types in the "Targeting data" category.

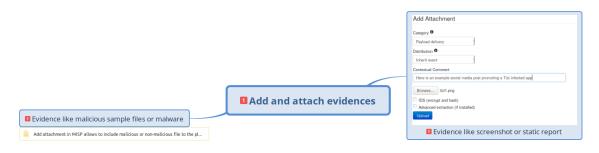


Add Attribute

Category 6	Type 3
Targeting data	target-location
Distribution 6	
Inherit event	
Value	
Kenya Nigeria Tanzania Contextual Comment	
for Intrusion Detection System	Batch Import that is of a classified nature. Make sure that you are authorised to share this.
Submit	

3.8. Add and attach evidences





3.8.1. Evidence like screenshot or static report



Add Attachment

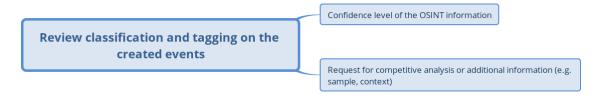
Category 3		
Payload delivery		
Distribution 6		
Inherit event		
Contextual Comment		
Here is an example social media post promoting a Tizi-infected app		
Browse tizi1.png		
□ IDS (encrypt and hash)		
Advanced extraction (if installed)		
Upload		

3.8.2. Evidence like malicious sample files or malware

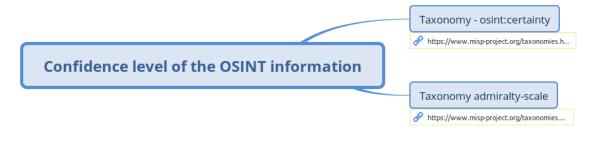


Add attachment in MISP allows to include malicious or non-malicious file to the platform. The difference is a matter of flag "IDS (encrypt and hash" where the evidence will be encrypted with a default password "infected" to avoid any human-error to execute malicious binaries.

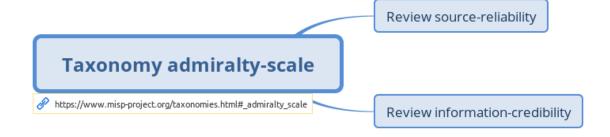
4. Review classification and tagging on the created events



4.1. Confidence level of the OSINT information



- 4.1.1. Taxonomy osint:certainty
- 4.1.2. Taxonomy admiralty-scale



Review source-reliability

Review information-credibility

4.2. Request for competitive analysis or additional information (e.g. sample, context)



- 4.2.1. Taxonomy collaborative-intelligence
- 5. Action taken from the OSINT entered in MISP



When dealing with OSINT information, you might have taken additional actions beside entering a MISP event. An example can be the notification of an ISP if a system is compromised or the notification of a registrar because a domain is abused. This kind of information should be also added in MISP to support other analysts.

5.1. Notified or informed a third-party



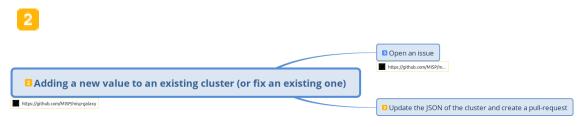
5.1.1. Add tagging and classification regarding the OSINT where actions were taken

6. Update an existing MISP galaxy cluster



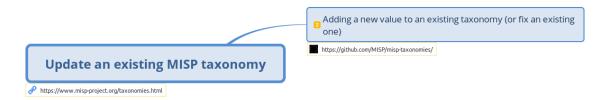
See Also: If there is no related galaxy/cluster/value, add a new one.

6.1. Adding a new value to an existing cluster (or fix an existing one)



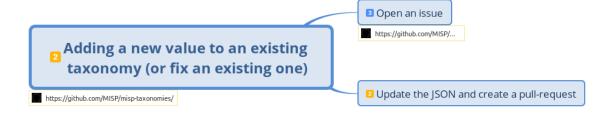
6.1.1. Open an issue

- 3
- 6.1.2. Update the JSON of the cluster and create a pull-request
- 2
- 7. Update an existing MISP taxonomy

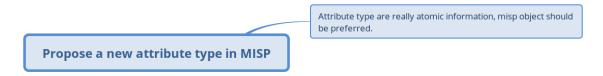


See Also: If there is a missing value in an existing taxonomy or a new one have to be created.

- 7.1. Adding a new value to an existing taxonomy (or fix an existing one)
- 2

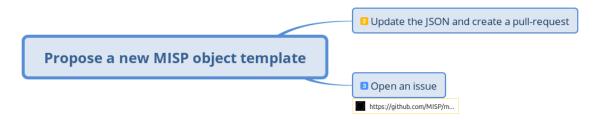


- 7.1.1. Open an issue
- 3
- 7.1.2. Update the JSON and create a pull-request
- 2
- 8. Propose a new attribute type in MISP



8.1. Attribute type are really atomic information, misp object should be preferred.

9. Propose a new MISP object template



- 9.1. Update the JSON and create a pull-request
- 2
- 9.2. Open an issue
- 3