mail_to_misp

Connect your mail infrastructure to MISP to create events based on the information contained within mails

Team CIRCL

http://www.misp-project.org/
Twitter: @MISPProject

ESDC 20200303
You receive emails with IoC’s inside

How to create an event out of it?

Create event manually and copy paste

→ This works once or twice

Forwarding the email would be nice

→ mail_to_misp
Features: Email Handling

- Extraction of URLs and IP addresses and port numbers
- Extraction of hostnames from URLs
- Extraction of hashes (MD5, SHA1, SHA256)
- DNS expansion
- Subject filters
- Refanging of URLs ('hxxp://...')
- ... and more
Features: Support MISP features

- Add tags automatically
- Ignore 'whitelisted' domains
- Configurable list of attributes not to enable the IDS flag
- DNS expansion
- Automatically create 'external analysis' links based on filter list (e.g. VirusTotal, malwr.com)
- Automatically filter out attributes that are on a server side warning list
- Support for value sighting
- ... and more
LEGACY

- Email → Apple Mail → Mail rule → AppleScript → AppleScript → mail_to_misp → PyMISP → MISP

- Email → Thunderbird → Mail rule → filterscript → thunderbird_wrapper → mail_to_misp → PyMISP → MISP

POSTFIX AND OTHERS

- Email → mail_to_misp
**INSTALLATION**

- **mail_to_misp**
  1. git clone
     
     ```
     git://github.com/MISP/mail_to_misp.git
     ```
  2. Install dependencies - See Github site

- **MTA (Postfix or alike)**
  1. Setup a new email address in the aliases file (e.g. `/etc/aliases`)
     
     ```
     misp_handler: "|/path/to/mail_to_misp.py -"
     ```
  2. Rebuild the DB
     
     ```
     sudo newaliases
     ```
  3. Configure mail_to_misp_config.py
     
     ```python
     misp_url = 'http://127.0.0.1/
     misp_key = 's5jPWCld36Z8XHgsiCVI7SAL1XsMTyfEsN45tTe'
     misp_verifycert = True
     body_config_prefix = 'm2m'
     ...
     ```
Bonuses:
- [Exercise File](https://github.com/MISP/mail_to_misp_test)
  - `./mail_to_misp.py` with `./mail_to_misp_test/simple_forward.eml`
- [Fake-SMTPD spamtrap](./fake_smtp.py)

```
telnet 127.0.0.1 2526
  Trying 127.0.0.1...
  Connected to 127.0.0.1.
  Escape character is `^]`
  220 misp Python SMTP 1.1
  helo misp
  250 misp
  mail from: mikel
  250 OK
  rcpt to: m@m
  250 OK
  data
  354 End data with <CR><LF>.<CR><LF>
```