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

MISP Training @ FIRST.org 2019
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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
- Refangning 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
Implementation

- 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 = 's5jPWC1ud36Z8XHgsiCVI7SaL1XsMTyfEsN45tTe'
misp_verifycert = True
body_config_prefix = 'm2m'
...
```
Bonus:
https://github.com/MISP/mail_to_misp_test

```
./mail_to_misp.py -r mail_to_misp_test/simple_forward.eml
```

Bonus: 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>
```