mail_to_misp

MAIL_TO_MISP CONNECT YOUR MAIL INFRASTRUCT CIRCL/TEAM MISP PROJECT



MAIL_TO_MISP

CONNECT YOUR MAIL INFRASTRUCTURE TO MISP TO

CIRCL / TEAM MISP PROJECT

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

13TH ENISA-EC3 WORKSHOP



CONTEXT

- 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
- \blacksquare \rightarrow mail_to_misp

mail_to_misp

"We receive enails with toCs inside
" the receive enails with toCs inside
" the create an enert out of it it

" Context to the create an enail would be side.

" The receiving the manual would be side.
" In receiving the manual would be side.
" In receiving the manual would be side.

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

mail_to_misp

-Features: Support MISP features

JRES: SUPPORT MISP FEATURES

Add tags automatically

Configurable list of attributes not to enable the IDS flag

Automatically create 'external analysis' links based on filte

list (e.g. VirusTotal, malwr.com)

Automatically filter out attributes that are on a serve

warning list

Support for value sighting

■ Support for value sight
■ ... and more

IMPLEMENTATION

Legacy

- ► Email → Apple Mail → Mail rule → AppleScript → AppleScript → mail_to_misp → PyMISP → MISP
- ► Email \rightarrow Thunderbird \rightarrow Mail rule \rightarrow filterscript \rightarrow thunderbird_wrapper \rightarrow mail_to_misp \rightarrow PyMISP \rightarrow MISP
- Postfix and others
 - ► Email → mail_to_misp

mail_to_misp

| togety | I togety

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

```
misp_url = 'http://127.0.0.1/'
misp_key = 's5jPWClud36Z8XHgsiCVI7SaL1XsMTyfEsN45tTe'
misp verifycert = True
body_config_prefix = 'm2m'
```

mail_to_misp mail_to_misp MTA (Postfox or alike) -Installation

EXERCISE: MAIL_2_MISP.PY

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: m2m
   250 OK
   data
   354 End data with <CR><LF>.<CR><LF>
```

mail_to_misp

Brace:
Brace:

2024-09-11