mail_to_misp

MAIL TO MISP

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

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

■ Support for value sighting

... 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

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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.o.o.1/'
misp_key = 'ssjPWClud36Z8XHgsiCVI7SaL1XsMTyfEsN45tTe'
misp_verifycert = True
body_config_prefix = 'm2m'
...
```

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>
```

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