DATA MINING TOR, SOCIAL NETWORKS, OSINT WITH AIL PROJECT

E.102

CIRCL COMPUTER INCIDENT RESPONSE CENTER LUXEMBOURG

MISP PROJECT https://www.misp-project.org/



MARCH 30, 2022 - VO.7

Data mining Tor, social networks, OSINT with AIL Project

OSINT WITH AIL PROJECT

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Threat Shar
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CONCEPTS - DEEP WEB

- **Deep Web** is the part of World Wide Web not indexed or directly accessible by standard web search-engines;
- This can be content hidden from **crawlers** by requiring a specific access and this can includes private social media, password-protected forums or content protected by different measures such as paywalls or specific security interface to access the information;
- A large portion of content accessible via Internet is part of the deep web¹.

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Introduction

-Concepts - Deep Web

1. There is a huge misconception about the difference between the darknet and deep web. The differences are important because it's two different aspects which can be related to each other.

¹also called invisible web, hidden web or non-indexed web

CONCEPTS - DARKNET

- **Darknet** is an overlay network running on top of Internet requiring specific software to access the network and its services;
- Tor, I2P and Freenet are the most commonly used ones. Many are used for hidden services access and some for proxy access to the Internet;
- There are **legitimate use-cases** for such network but also many **illegal or criminal usage**.

Data mining Tor, social networks, OSINT with AIL Project
—Introduction

-Concepts - darknet

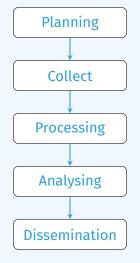
2022-03-3

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LIFECYCLE OF COLLECTION AND ANALYSIS



Data mining Tor, social networks, OSINT with AIL
Project
Introduction
Lifecycle of collection and analysis

Planning
Planning
Planning
Planning
Planning
Processing
Processing
Analysing
Executionsins

COLLECTING, PROCESSING AND ANALYSING CONTENT - WEB PAGES

- Building a search engine on the web is a challenging task because:
 - ► it has to crawl webpages,
 - ▶ it has to to make sense of **unstructured data**.
 - ▶ it has to **index** these data.
 - ► it has to provide a way to retrieve data and structure data (e.g. correlation).
- Doing so on Tor is even more challenging because:
 - services don't always want to be found.
 - parts of the dataset have to be discarded.
- in each case, it requires a lot of bandwidth, storage and computing power.

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-Collecting, processing and analysing content

TING, PROCESSING AND ANALYSING CONTENT -IGES

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COLLECTING, PROCESSING AND ANALYSING CONTENT -STRUCTURED DATA

- Some data are structured and are easy to process:
 - metadata!
 - ► API responses.
- Some even provide cryptographic evidences:
 - authentication mechanisms between peers.
 - OpenGPG can leak a lot of metadata
 - kev ids.
 - subject of email in thunderbird,
 - ► Bitcoin's Blockchain is public,
 - pivoting on these data with external sources yields interesting results.

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03-30

AIL DESIGN OBJECTIVES

OBJECTIVES OF THE SESSION

- Show how to use and extend an open source tool to monitor web pages, pastes, forums and hidden services
- Explain challenges and the design of the AIL open source framework
- Review different collection mechanisms and sources
- Learn how to create new modules
- Learn how to use, install and start AIL
- Supporting investigation using the AIL framework and including it in cyber threat intelligence lifecycle

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-Objectives of the session

-AIL design Objectives

Supporting investigation using the AIL framework and

From a requirement to a solution: AIL

History:

- AIL initially started as an **internship project** (2014) to evaluate the feasibility to automate the analysis of (un)structured information to find leaks.
- In 2019, AIL framework is an **open source software** in Python. The software is actively used (and maintained) by CIRCL and many organisations.
- In 2020, AIL framework is now a complete project called **ail project**².

²https://github.com/ail-project/

CAPABILITIES OVERVIEW

COMMON USAGE

- **Check** if mail/password/other sensitive information (terms tracked) leaked
- **Detect** reconnaissance of your infrastructure
- **Search** for leaks inside an archive
- Monitor and crawl websites

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Capabilities Overview

Common usage

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SUPPORT CERT/CSIRTS AND LAW ENFORCEMENT **ACTIVITIES**

- Proactive investigation: leaks detection
 - List of emails and passwords
 - Leaked database
 - AWS Keys
 - Credit-cards
 - ► PGP private kevs
 - Certificate private keys
- Feed Passive DNS or any passive collection system
- CVE and PoC of vulnerabilities most used by attackers

Data mining Tor, social networks, OSINT with AIL Project Capabilities Overview

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-Support CERT/CSIRTs and Law Enforcement

SUPPORT CERT/CSIRTS AND LAW ENFORCEMENT ACTIVITIES

- Website monitoring
 - monitor booters
 - ► Detect encoded exploits (WebShell, malware encoded in Base64...)
 - ► SQL injections
- Automatic and manual submission to threat sharing and incident response platforms
 - ► MISP
 - ► TheHive
- Term/Regex/Yara monitoring for local companies/government

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Capabilities Overview

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-Support CERT/CSIRTs and Law Enforcement

SUPPORT CERT/CSIRTS AND LAW ENFORCEMENT ACTIVITIES

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- ► MISP ► TheHive
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Sources of Leaks: Paste monitoring

- Example: https://gist.github.com/
 - ► Easily storing and sharing text online
 - ► Used by programmers and legitimate users
 - \rightarrow Source code & information about configurations

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Capabilities Overview

Sources of leaks: Paste monitoring

RCES OF LEAKS: PASTE MONITORING

rample: https://gist.github.com/

Fasily storing and sharing text online

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Sources of Leaks: Paste Monitoring

- Example: https://gist.github.com/
 - ► Easily storing and sharing text online
 - ► Used by programmers and legitimate users
 - → Source code & information about configurations
- Abused by attackers to store:
 - ► List of vulnerable/compromised sites
 - ► Software vulnerabilities (e.g. exploits)
 - Database dumps
 - → User data
 - \rightarrow Credentials
 - → Credit card details
 - ► More and more ...

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Capabilities Overview

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-Sources of leaks: Paste monitoring

Example: https://gist.github.com/

WHY SO MANY LEAKS?

- Economical interests (e.g. Adversaries promoting services)
- Ransom model (e.g. To publicly pressure the victims)
- Political motives (e.g. Adversaries showing off)
- Collaboration (e.g. Criminals need to collaborate)
- Operational infrastructure (e.g. malware exfiltrating information on a pastie website)
- Mistakes and errors

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Capabilities Overview

-Why so many leaks?

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information on a pastie website)

• Mistakes and errors

Mistakes and errors

ARE LEAKS FREQUENT?

Yes!

and we have to deal with this as a CSIRT.

- Contacting companies or organisations who did specific accidental leaks
- **Discussing with media** about specific case of leaks and how to make it more practical/factual for everyone
- Evaluating the economical market for cyber criminals (e.g. DDoS booters³ or reselling personal information - reality versus media coverage)
- Analysing collateral effects of malware, software vulnerabilities or exfiltration

 \rightarrow And it's important to detect them automatically.

3https://github.com/D4-project/

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-Are leaks frequent?

Capabilities Overview

and we have to deal with this as a CSIRT

Analysing collateral effects of malware, software

2022-(

PASTE MONITORING AT CIRCL: STATISTICS

- Monitored paste sites: 27
 - ► gist.github.com
 - ▶ ideone.com
 - **.**

	2016	2017	08.2018
Collected pastes	18,565,124	19,145,300	11,591,987
Incidents	244	266	208

Table: Pastes collected and incident⁴ raised by CIRCL

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Capabilities Overview

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Paste monitoring at CIRCL: Statistics

⁴http://www.circl.lu/pub/tr-46

AIL FRAMEWORK: CURRENT CAPABILITIES

- Extending AIL to add a new **analysis module** can be done in 50 lines of Python
- The framework supports multi-processors/cores by default. Any analysis module can be started multiple times to support faster processing during peak times or bulk import
- Multiple concurrent data input
- Tor Crawler (handle cookies authentication)

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Project
Current capabilities

—AIL Framework: Current capabilities

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L Framework: Current capabilities

m Extending AlL to add a new analysis module can be don

The state of Python
 The state of Python

support faster processing during peak times or

Tor Crawler (handle cookies authenticat

AIL FRAMEWORK: CURRENT FEATURES

- **■** Extracting credit cards numbers, credentials, phone numbers, ...
- Extracting and validating potential **hostnames**
- Keeps track of **duplicates**
- Submission to threat sharing and incident response platform (MISP and TheHive)
- Full-text indexer to index unstructured information
- **Tagging** for classification and searches
- Terms, sets, regex and YARA tracking and occurences
- Archives, files and raw submission from the UI
- PGP, Cryptocurrency, Decoded (Base64, ...) and username Correlation
- And many more

Data mining Tor, social networks, OSINT with AIL Project **Current capabilities**

-AIL Framework: Current features

And many more

TERMS TRACKER

- Search and monitor specific keywords/patterns
 - ► Automatic Tagging
 - ► Email Notifications
- Track Term
 - ► ddos
- Track Set
 - booter,ddos,stresser;2
- Track Regex
 - ► circl\.lu
- YARA rules
 - https://github.com/ail-project/ail-yara-rules

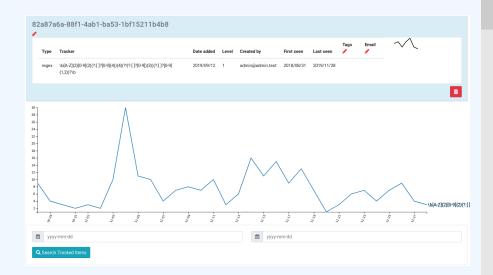
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— Current capabilities

— Terms Tracker

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TERMS TRACKER

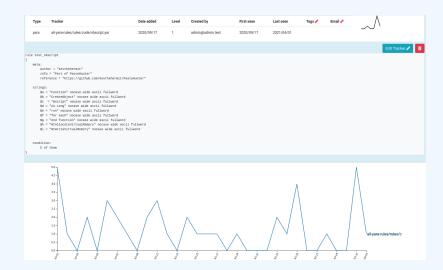


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YARA TRACKER



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YARA Tracker



TERMS TRACKER - PRACTICAL PART

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Current capabilities
Terms Tracker - Practical part



■ Create and test your own tracker

•	Tags (optional, space separated)	Show tracker to all Users
@	E-Mails Notification (optional, space separated)	
S	Tracker Description (optional)	
- S	elect a tracker type –	
_		
+ A	dd Tracker	

RECON AND INTELLIGENCE GATHERING TOOLS

- **■** Attacker also share informations
- Recon tools detected: 94
 - ▶ sqlmap
 - ► dnscan
 - whois
 - msfconsole (metasploit)
 - ► dnmap
 - ► nmap
 - **...**

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Current capabilities

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Recon and intelligence gathering tools

Attacker also chare informations
Recon tools detected: 94
* signay
* discan
* micronois (metaspiok)
* dimap
* namp
* namp

RECON AND INTELLIGENCE GATHERING TOOLS

```
Hostname
              www.pabloquintanilla.cl
                                                         Wix.com Ltd.
Continent
              North America
                                   Flag
Country
              United States
                                   Country Code
                                                US
                            Local time
                                           19 Nov 2019 07:59 CST
Region Unknown
                            Postal Code
       Unknown
                                           Unknown
              185.230.60.195
                                                  37.751
TP Address
                                   Latitude
                     Longitude
                                    -97.822
> www.pabloquintanilla.cl
              38.132.106.139
Server:
              38.132.106.139#53
Address:
Non-authoritative answer:
www.pabloquintanilla.cl canonical name = www192.wixdns.net.
                     canonical name = balancer.wixdns.net.
www192.wixdns.net
      balancer.wixdns.net
Address: 185,230,60,211
Domain name: pabloquintanilla.cl
Registrant name: SERGIO TORO
Registrant organisation:
Registrar name: NIC Chile
Registrar URL: https://www.nic.cl
Creation date: 2018-11-21 14:34:34 CLST
```

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—Current capabilities

Recon and intelligence gathering tools

RECON AND INTELLIGENCE GATHERING TOOLS

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DECODER

- Search for encoded strings
 - ► Base64
 - ► Hexadecimal
 - ► Binary
- Guess Mime-type
- Correlate paste with decoded items

Data mining Tor, social networks, OSINT with AIL
Project
Current capabilities
Decoder

DECODER

Search for encoded strings

* Boarch

* Hozardscimal

* Binary

Guess Minn-type

Correlate past with decoded items

DECODER:

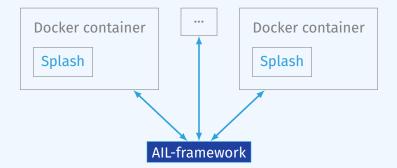
estimated type	hash	first seen	last seen	nb item	size []	Virus Total	Sparkline 1
application/x-dosexec	c11c2be8d9ba4e86c8effaa411aa6b867ba75abe	2019/11/28	2019/11/28	1	191	✓ Send this file to VT ✓	
application/x-dosexec	a50cba731204ecce193b40178399a250b5ce6f67	2019/11/28	2019/11/28	1	32768	✓ Send this file to VT	
application/x-dosexec	cc5f2f0da71f443ec12ae1b3cb6ab8bad80f22c4	2019/11/28	2019/11/28	1	203	✓ Send this file to VT	
application/x-dosexec	eed67e8fa9cb9a43fea21ae653983a8e0a174f63	2019/11/26	2019/11/28	6	83	✓ Send this file to VT	_/

Data mining Tor, social networks, OSINT with AIL
Project
Current capabilities
Decoder:



CRAWLER

- Crawlers are used to navigate on regular website as well as .onion addresses (via automatic extraction of urls or manual submission)
- Splash ("scriptable" browser) is rending the pages (including javascript) and produce screenshots (HAR archive too)



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Project
Current capabilities
Crawler

are used to navigate on regular website as well as difference (via automatic extraction of ortic or manual recruitation for the commandation and the commandation of t

CRAWLER

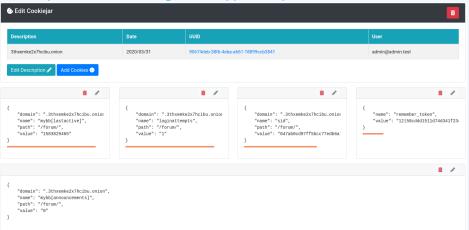
How a domain is crawled by default

- 1. Fetch the first url
- 2. Render javascript (webkit browser)
- 3. Extract all urls
- 4. Filter url: keep all url of this domain
- 5. crawl next url (max depth = 1)

Data mining Tor, social networks, OSINT with AIL 2022-03-30 Project -Current capabilities -Crawler

CRAWLER: COOKIEJAR

Use your cookies to login and bypass captcha



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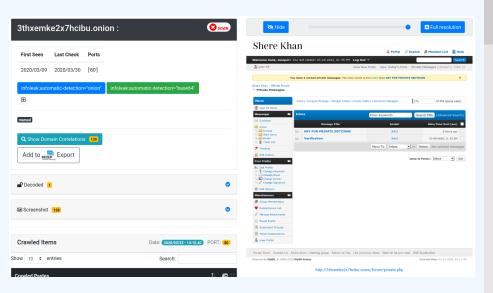
— Current capabilities

-Crawler: Cookiejar

2022-(



CRAWLER: COOKIEJAR



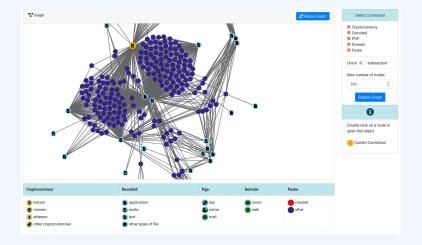
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Current capabilities

CRAWLER COORDINATE

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└─Crawler: Cookiejar

CORRELATIONS AND RELATIONSHIP



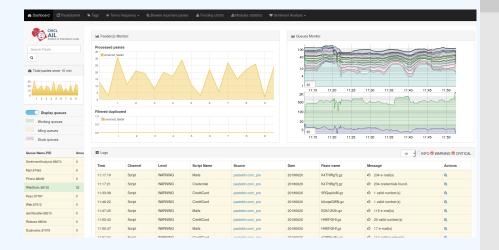
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—Current capabilities

—Correlations and relationship

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EXAMPLE: DASHBOARD



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Live demo!

—Example: Dashboard

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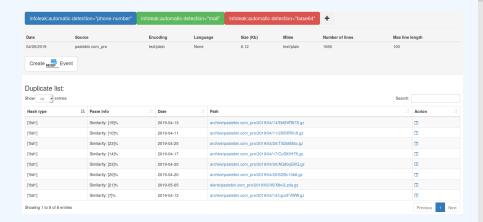
EXAMPLE: TEXT SEARCH



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Live demo!
Example: Text search



EXAMPLE: ITEMS METADATA (1)



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Live demo!
Example: Items Metadata (1)



EXAMPLE: ITEMS METADATA (2)

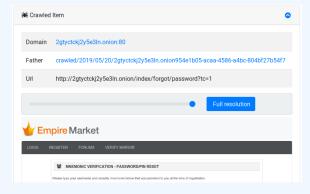
Hach files

Show 5 entries Search:			
estimated type	hash J±	saved_path	Virus Total
application/octet- stream	3975f058bb0d445b60c10a11f1a5d88e19e4fa84 (1)	HASHS/application/octet-stream /39/3975f058bb0d445b60c10a11f1a5d88e19e4fa84	✓ Send this file to VT
application/octet- stream	fed93c1753270fc849a4db37027b569cdd9a6108 (1)	HASHS/application/octet-stream /fe/fed93c1753270fc849a4db37027b569cdd9a6108	✓ Send this file to VT
Showing 1 to 2 of 2 entries			Previous 1 Next

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Live demo!
Example: Items Metadata (2)



EXAMPLE: ITEMS METADATA (3)



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Live demo!

-Example: Items Metadata (3)



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EXAMPLE: BROWSING CONTENT

```
Content:
 http://members2.mofosnetwork.com/access/login/
 somosextremos:buddy1990
 brazzers_glenn:cocklick
 brazzers61:braves01
 http://members.naughtyamerica.com/index.php?m=login
 gernblanston:3unc2352
 Janhuss141200:310575
 igetalliwant:1377zeph
 pwilks89:mon22key
 Bman1551:hockey
 MoFos IKnowThatGirl PublicPickUps
 http://members2.mofos.com
 Chrismagg40884:loganm40
 brando1:zzbrando1
 aacoen:1q2w3e4r
 1rstunkle23:my8self
 BraZZers
 http://ma.brazzers.com
 qcjensen:qcj21pva
 skycsc17:rbcdnd
                                  >| Get Daily Update Fresh Porn Password Here |<
                                           => http://www.erg.io/4mF1
```

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Live demo!

Example: Browsing content

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EXAMPLE: BROWSING CONTENT

Content: Over 50000+ custom hacked xxx passwords by us! Thousands of free xxx passwords to the hottest paysites! >| Get Fresh New Premium XXX Site Password Here |< => http://www.erq.io/4mF1 http://ddfnetwork.com/home.html eu172936:hCSBgKh UecwB6zs:159X0\$!r#6K78FuU http://pornxn.stiffia.com/user/login feldwWek8939:RObluJ8XtB dabudka:17891789 brajits:brajits1 http://members.pornstarplatinum.com/sblogin/login.php/ gigiriveracom:xxxjay jayx123:xxxjay69 http://members.vividceleb.com/ Rufio99:fairhaven ScHiFRvi:102091 Chaos84:HOLE5244 Riptor795:blade7 Domi80:harkonnen GaggedUK:a1k0chan http://www.ariellaferrera.com/

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Live demo!

-Example: Browsing content

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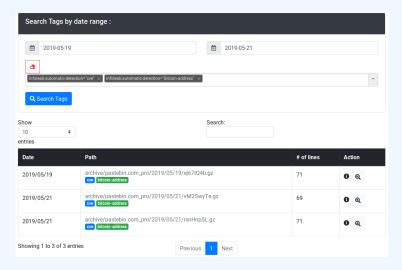
COMMITTEE SECURITIES CONTENT

OPEN

TO SECURITIES CONTENT

TO SECURITIES

EXAMPLE: SEARCH BY TAGS



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Project
Live demo!
Example: Search by tags





MISP Taxonomies

- **Tagging** is a simple way to attach a classification to an event or anattribute.
- Classification must be globally used to be efficient.
- Provide a set of already defined classifications modeling estimative language
- Taxonomies are implemented in a simple JSON format ⁵.
- Can be easily cherry-picked or extended

5https://github.com/MISP/misp-taxonomies

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MISP

MISP

MISP Taxonomies

MISP Taxonomies

TAXONOMIES USEFUL IN AIL

- **infoleak**: Information classified as being potential leak.
- **estimative-language**: Describe quality and credibility of underlying sources, data, and methodologies.
- **admiralty-scale**: Rank the reliability of a source and the credibility of an information
- **fpf**⁶: Evaluate the degree of identifiability of personal data and the types of pseudonymous data, de-identified data and anonymous data.

⁶Future of Privacy Forum

Data mining Tor, social networks, OSINT with AIL 2022-03-3 Project Taxonomies useful in AIL

infoleak: Information classified as being potential leak m estimative-language: Describe quality and credibility of

m admiralty-scale: Rank the reliability of a source and the

fpff: Evaluate the degree of identifiability of personal data

TAXONOMIES USEFUL IN AIL

- **tor**: Describe Tor network infrastructure.
- **dark-web**: Criminal motivation on the dark web.
- **copine-scale**⁷: Categorise the severity of images of child sex abuse.

⁷Combating Paedophile Information Networks in Europe

ter Describe Tor network infrastructure. Bath-web: Oriminal motivation on the dark web. Origina-casie: Categorise the severity of Images of child sec above.

-Taxonomies useful in AIL

THREAT SHARING AND INCIDENT RESPONSE PLATFORMS





Goal: submission to threat sharing and incident response platforms.

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MISP

-threat sharing and incident response

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THREAT SHARING AND INCIDENT RESPONSE PLATFORMS





- 1. Use infoleak taxonomy⁸
- 2. Add your own tags
- 3. Export AIL objects to MISP core format
- 4. Download it or Create a MISP Event⁹

Data mining Tor, social networks, OSINT with AIL Project -MISP

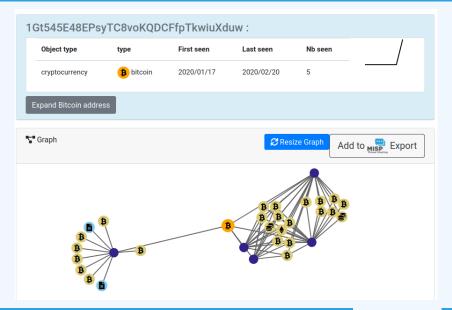
-threat sharing and incident response

2022-03-30

⁸https://www.misp-project.org/taxonomies.html

⁹https://www.misp-standard.org/rfc/misp-standard-core.txt

MISP EXPORT

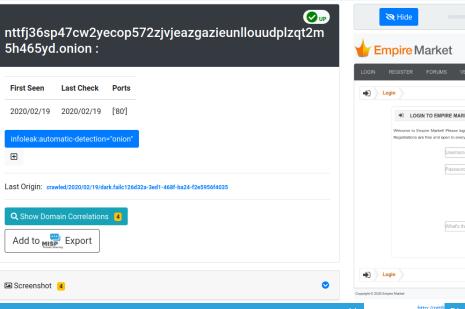


Data mining Tor, social networks, OSINT with AIL
Project
MISP
MISP Export



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MISP EXPORT



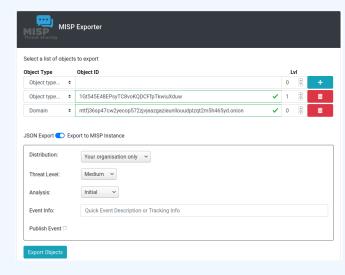
Data mining Tor, social networks, OSINT with AIL Project

MISP Export

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-MISP Export

MISP EXPORT



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Project
—MISP
—MISP Export

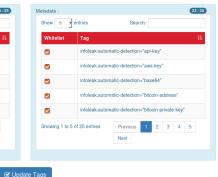


AUTOMATIC SUBMISSION ON TAGS







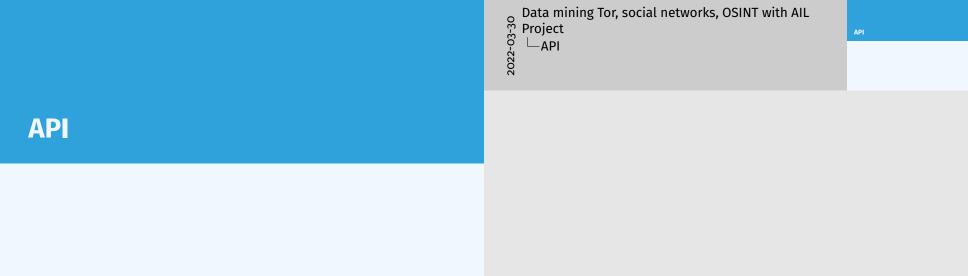


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MISP

The Hive

-Automatic submission on tags



2022-03-30

AIL exposes a ReST API which can be used to interact with the back-end¹⁰.

■ AIL API is currently covering 60% of the functionality of back-end.

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Project

All exposes a ReST API which can be used to interact with the back-end[®].

curl https://127.0.0.1:7000/api/v1/get/item/defau
—header "Authorization: iHcl_ChZxjnaXmiFii
—H "Content-Type: application/json"
—data @input.json —X POST

—data @input.json —X POST
 B Alt API is currently covering 60% of the functionality of back-end.

"https://github.com/ail-project/ail-framework/blob, master/doc/README.md

¹⁰https://github.com/ail-project/ail-framework/blob/
master/doc/README.md

SETTING UP THE FRAMEWORK

SETTING UP AIL-FRAMEWORK FROM SOURCE

```
2022-03-30
```

Data mining Tor, social networks, OSINT with AIL Project

—Setting up the framework

—Setting up AIL-Framework from source

```
Setting up All-Framework from source

# 15 | Clean
| http://github.com/all-project/all-framework.git
| of All-Framework | of All-project/all-framework.git
| of All-Project|
|
```

```
Setting up AIL-Framework from source
```

FEEDING AIL

There are different way to feed AIL with data:

- 1. Setup pystemon and use the custom feeder
 - pystemon will collect items for you
- 2. Use the new JSON Feeder (twitter)
- Feed your own data using the API or the import_dir.py script
- 4. Feed your own file/text using the UI (Submit section)

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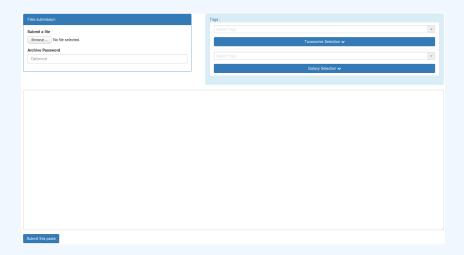
Feeding AIL

G AIL

here are different way to feed AIL with data:

- pystemon will collect items for you
- 3. Feed your own data using the API or the import_dir
- 4. Feed your own file/text using the UI (Submit section)
 - . Feed your own me/text us

VIA THE UI (1)



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—Feeding the framework

└─Via the UI (1)



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VIA THE UI (2)



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Project
Feeding the framework

Via the UI (2)



FEEDING AIL WITH YOUR OWN DATA - API

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-Feeding the framework

—Feeding AIL with your own data - API

spirelimporifiem

("type", "test",
 "spirelimporifiem")
 "figure, "test",
 "spirelimporifiem")
 "figure, "test",
 "figure, "test to import"

FEEDING WITH YOUR OWN DATA import_dir.py(1)

/!\ requirements:

- Each file to be fed must be of a reasonable size:
 - ightharpoonup ~ 3 Mb / file is already large
 - ► This is because some modules are doing regex matching
 - ► If you want to feed a large file, better split it in multiple ones

Data mining Tor, social networks, OSINT with AIL Project Feeding the framework

Each file to be fed must be of a reasonable size: ➤ ~ 3 Mb / file is already large

-Feeding AIL with your own data -

2022-03-3

FEEDING AIL WITH YOUR OWN DATA - import dir.py(2)

- 1. Check your local configuration configs/core.cfg
 - ► In the file configs/core.cfg,
 - ► Add 127.0.0.1:5556 in ZMQ_Global
 - ► (should already be set by default)
- 2. Launch import_dir.py with de directory you want to import
 - ▶ import_dir.py -d dir_path

