



SUNET
MISP

pettai@sUNET.se

MISP 101

- Åtkomst
- Samlade IOC:er från Threatfeed och det vi bidrar med
 - Statistik på våra egna bidrag
- (Automatisk) korrelering av olika attribut
 - Exempel på det (Historik)
- IOC-lookup
- Automation
 - REST API för att exportera data
 - Äldre API finns för att exportera tex. Zeek-format
- Hur vill ni använda MISP/datat?
- Framtid

MISP åtkomst?

<https://wiki.sunet.se/display/SUNETCERT/MISP>

Åtkomst

För att kunna nyttja tjänsten måste man vara SWAMID-medlem och ha en IdP (det är endast federerad inloggning till MISP-instansen). För att få sitt inloggningskonto aktiverat i MISP-instansen måste du först logga in en gång (via <https://misp.cert.sunet.se>) och sedan meddela din IRT-ansvarige ditt eget EPPN (format: uid@realm), så att hen kan aktivera kontot.

MISP data

Statistics

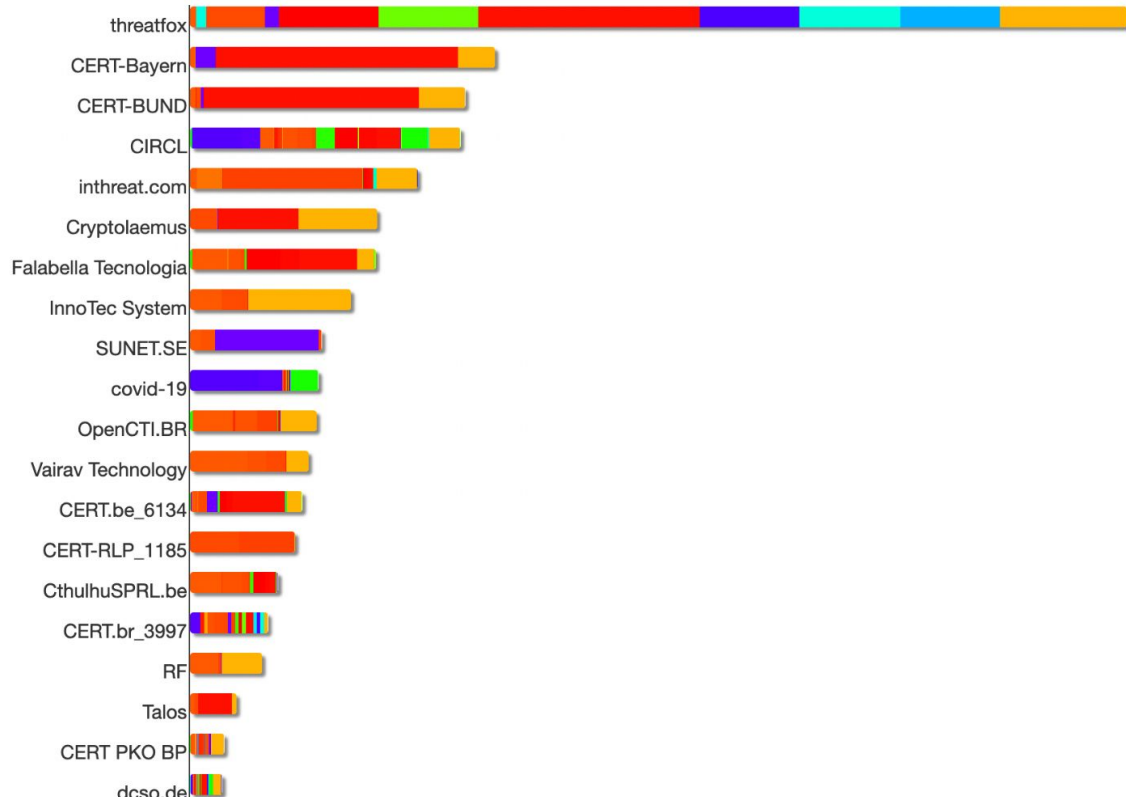
[Usage data](#) [Organisations](#) [User and Organisation statistics](#) [Tags](#) [Attribute histogram](#) [Sightings toplists](#) [Galaxy Matrix](#)

Some statistics about this instance. The changes since the beginning of this month are noted in brackets wherever applicable

Events	90566 (+321)
Attributes	6518186 (+121711)
Attributes / event	72
Correlations found	53422611
Proposals active	1285
Users	131
Users with PGP keys	2 (1.5%)
Organisations	907
Local Organisations	31
Event creator orgs	469
Average Users / Org	4.2
Discussion threads	3 (0)
Discussion posts	3 (0)

MISP data

Attributes per organization



MISP data

Statistics

Usage data **Organisations** User and Organisation statistics Tags Attribute histogram Sightings toplist Galax

Organisation list

Quick overview over the organisations residing on or known by this instance.

Local organisations

Known remote organisations

All organisations

Logo	Name	Users	Events	Attributes	Nationality	Type	Sector	Activity (1 year)
BTH.SE	BTH.SE	1	0	0				
CHALMERS.SE	CHALMERS.SE	6	4	7				
DU.SE	DU.SE	5	0	0				
EDUID.SE	EDUID.SE	1	0	0				
FHS.SE	FHS.SE	2	0	0				
GU.SE	GU.SE	3	0	0				
HB.SE	HB.SE	3	0	0				
HIG.SE	HIG.SE	2	0	0				
HJ.SE	HJ.SE	3	1	20				

HKR.SE	HKR.SE	2	0	0				
IRF.SE	IRF.SE	1	1	1				
KAU.SE	KAU.SE	3	1	3				
KI.SE	KI.SE	4	0	0				
KTH.SE	KTH.SE	6	0	0				
LIU IRT	LIU IRT	1	0	0				
LIU.SE	LIU.SE	7	4	229				
LNU.SE	LNU.SE	3	0	0				
LTU.SE	LTU.SE	12	0	0				
LU.SE	LU.SE	7	77	491				
MDH.SE	MDH.SE	5	0	0				
MIUN.SE	MIUN.SE	2	0	0				
NONE	NONE	2	2	6209				
ORU.SE	ORU.SE	3	0	0				
SLU.SE	SLU.SE	1	0	0				
SMHI.SE	SMHI.SE	1	0	0				
SU.SE	SU.SE	7	6	7				
SUNET.SE	SUNET.SE	18	253	210600				
UMU.SE	UMU.SE	7	0	0				
USER.UU.SE	USER.UU.SE	3	1	8				
UU-CSIRT	UU-CSIRT	1	2	54				
UU.SE	UU.SE	0	0	0				

MISP data

Ex.

Kika på vad LU (Lunds Universitets IRT) rapporterat in i MISP:

<https://misp.cert.sunet.se/organisations/view/77>

Kika på Talos (Cisco) rapporterade data i MISP:

<https://misp.cert.sunet.se/organisations/view/427>

MISP data (historik)

Inrapporterade attributen med flest antal korreleringar:

IP-adress: 185.176.27.26(/24) (sågs senast 2020)

Filnamn: a.exe

Domännamn: ptr.ruvds.com (sågs senast 2018)

Malware-namn: Dridex

CVE: CVE-2012-0158

APT: APT28 (sågs senast 2020)

ASN: AS44901 BELCLOUD (sågs senast 2019)

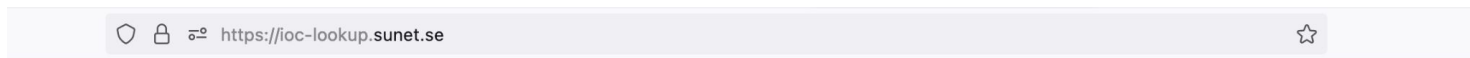
Hash: f34d5f2d4577ed6d9ceec516c1f5a744

IOC-Lookup

“MISP made easy”:

<https://ioc-lookup.sunet.se>

IOC-Lookup



IOC lookup

IOC entity search

Logged in as: pettai@sunet.se

Supported queries: domain name, URL, IP address, hash

Search

Result for ccc.windows-flash.com (domain)

MISP event [90705](#) | 2022-04-21 20:53:13 | ccc.windows-flash.com | On port 880 | Sightings: 0 | False-positives: 0

Note: Event links requires access to MISP.

Add sighting

Mark as false-positive

Related results

Display limit 10 events

- MISP event [90692](#) | 2022-04-21 16:53:28 | http://ccc.windows-flash.com:880/IE9CompatViewList.xml | botnet_cc
- MISP event [90692](#) | 2022-04-21 19:50:59 | https://ccc.windows-flash.com/visit.js | botnet_cc

MISP attribut (sökbara)

md5 sha1 sha256 filename pdb filename|md5 filename|sha1 filename|sha256 ip-src ip-dst hostname domain domain|ip email email-src eppn email-dst email-subject email-attachment

email-body float git-commit-id url http-method user-agent ja3-fingerprint-md5 jarm-fingerprint favicon-mmh3 hassh-md5 hasshserver-md5 regkey regkey|value AS snort bro zeek community-id

pattern-in-file pattern-in-traffic pattern-in-memory filename-pattern pgp-public-key pgp-private-key ssh-fingerprint yara stix2-pattern sigma gene kusto-query mime-type identity-card-number cookie

vulnerability cpe weakness attachment malware-sample link comment text hex other named pipe mutex process-state target-user target-email target-machine target-org target-location

target-external btc dash xmr iban bic bank-account-nr aba-rtn bin cc-number prt n phone-number threat-actor campaign-name campaign-id malware-type uri authentihash vhash ssdeep

imphash telhash pehash impfuzzy sha224 sha384 sha512 sha512/224 sha512/256 sha3-224 sha3-256 sha3-384 sha3-512 tish cdhash filename|authentihash filename|vhash filename|ssdeep

filename|imphash filename|impfuzzy filename|pehash filename|sha224 filename|sha384 filename|sha512 filename|sha512/224 filename|sha512/256 filename|sha3-224 filename|sha3-256 filename|sha3-384

filename|sha3-512 filename|tish windows-scheduled-task windows-service-name windows-service-displayname whois-registrant-email whois-registrant-phone whois-registrant-name whois-registrant-org

whois-registrar whois-creation-date x509-fingerprint-sha1 x509-fingerprint-md5 x509-fingerprint-sha256 dns-soa-email size-in-bytes counter datetime port ip-dst|port ip-src|port hostname|port mac-address

mac-eui-64 email-dst-display-name email-src-display-name email-header email-reply-to email-x-mailer email-mime-boundary email-thread-index email-message-id github-username github-repository

github-organisation jabber-id twitter-id dkim dkim-signature first-name middle-name last-name full-name date-of-birth place-of-birth gender passport-number passport-country passport-expiration

redress-number nationality visa-number issue-date-of-the-visa primary-residence country-of-residence special-service-request frequent-flyer-number travel-details payment-details

place-port-of-original-embarkation place-port-of-clearance place-port-of-onward-foreign-destination passenger-name-record-locator-number mobile-application-id chrome-extension-id cortex boolean anonymised

MISP Automation

Din resa börjar här:

<https://misp.cert.sunet.se/events/automation>

MISP Automation

Sök ut och exportera datat i färdiga format:

- CSV
- JSON
- Snort
- Suricata
- XML

MISP Automation

```
% curl -s -H "Accept: application/json" -H  
"Content-type: application/json" -H  
"Authorization: USER_AUTH_KEY_GOES_HERE" -X POST  
https://misp.cert.sunet.se/attributes/restSearch  
-d  
' {"returnFormat": "csv", "type": ["domain", "hostname",  
"ip-dst|port", "ip-src|port"], "tags": ["!OUTDATED", "Cobalt  
Strike"], "last": "14d", "to_ids": "true" } '
```

MISP Automation

```
"5eea90e2-556b-4250-afa4-12ce2d721240",90590,"Network activity","hostname","cs.qaxqax.xyz","On port 8443",1,1650371931,"","","","",""  
"412e60ac-5f7e-4f15-b52e-f6ee246e8b24",90590,"Network activity","hostname","www.flash-com.tk","On port 8443",1,1650371932,"","","","",""  
"e1821586-bf7c-4a68-85ad-d943948ff3fd",90590,"Network activity","hostname","nsl.d2efeg4h4.com","On port 80",1,1650371932,"","","","",""  
"bb3bce30-bd3b-48e4-baa6-469ba27f95d2",90590,"Network activity","hostname","xyz.moonmu.isasecret.com","On port 99",1,1650371933,"","","","",""  
"fe18f3d7-584b-4cf5-ae01-26435610d0e5",90590,"Network activity","hostname","update.releasemyapps.com","On port 1443",1,1650371933,"","","","",""  
"06a4e55c-67c7-4a09-9acb-0d63ea53321c",90590,"Network activity","hostname","abc.flash-com.tk","On port 8443",1,1650371933,"","","","",""  
"d7657187-0734-4ec4-9847-58a95a3ebefb",90590,"Network activity","hostname","cc.peakyblinders.uk","On port 8080",1,1650371933,"","","","",""  
"8a0b6550-3201-443e-9ed1-4c29a7160a10",90590,"Network activity","hostname","zh.h365sf.tk","On port 443",1,1650371933,"","","","",""  
"b446969b-2130-4ef8-b338-7c1dcbe4b75e",90590,"Network activity","hostname","www.generalconsolidated.com","On port 443",1,1650371933,"","","","",""  
"5937ce98-17ee-4ff1-af4e-121cf74ebbed",90590,"Network activity","hostname","jtt.tnnd.ml","On port 2087",1,1650371933,"","","","",""  
"01ad5e61-27e5-4a7e-b708-296fb9a93ca9",90590,"Network activity","hostname","c2.eduazure.gq","On port 20041",1,1650371933,"","","","",""  
"492786bd-fdf7-4bb7-8a8c-afef18056bd7",90590,"Network activity","hostname","update.chaitin.cc","On port 2087",1,1650371933,"","","","",""  
"540497c6-d454-4bf6-a5c6-d258cee11c01",90590,"Network activity","hostname","combo.sechack.online","On port 443",1,1650371934,"","","","",""  
"0bbf15dc-5f52-4b24-a755-a682325c18ad",90590,"Network activity","hostname","www.klycnmik.com","On port 443",1,1650371934,"","","","",""  
"d22ef603-7448-4677-b6e5-84179a9dae48",90590,"Network activity","hostname","downloads.lastupdatebd.com","On port 1080",1,1650371935,"","","","",""  
"082692e4-d7c0-411b-9c53-6b25267441c4",90590,"Network activity","hostname","zx.mylovelylab.com","On port 443",1,1650371935,"","","","",""  
"5fb1c86a-6390-4603-blaf-adf094b34f42",90590,"Network activity","hostname","xc.mylovelylab.com","On port 443",1,1650371935,"","","","",""  
"3266a456-4944-4b00-a0ca-3651a40d2844",90590,"Network activity","hostname","cv.mylovelylab.com","On port 443",1,1650371935,"","","","",""  
"ae522615-0b73-4312-b333-25009e9b2c77",90590,"Network activity","hostname","cv.sharedresourcesltd.com","On port 443",1,1650371935,"","","","",""  
"e23be8c9-8ec2-40d4-b126-5e63e7fb5ed8",90590,"Network activity","hostname","xc.sharedresourcesltd.com","On port 443",1,1650371935,"","","","",""  
"707ab87b-5857-4895-bff2-b2c2ab6b2660",90590,"Network activity","hostname","zx.sharedresourcesltd.com","On port 443",1,1650371935,"","","","",""
```

MISP Automation

Använd PyMISP

```
pettai@dator:~% pip3 install PyMISP
```


MISP Automation

```
misp_url = 'https://misp.cert.sunet.se/attributes/restSearch'
misp_key = 'USER_TOKEN_GOES_HERE'
misp_verifycert = False
relative_path = ''

body = '{ "returnFormat": "csv", "type": ["domain", "hostname", "ip-dst|port", "ip-src|port"], "tags":
["!OUTDATED", "Cobolt Strike"], "last": "14d", "enforceWarninglist": "true
", "to_ids": "true" }'

from pymisp import PyMISP
misp = PyMISP(misp_url, misp_key, misp_verifycert)
misp.direct_call(relative_path, body)

with open('cobolt-strike.csv', 'w', encoding='UTF-8') as file:
    file.write(str(misp.direct_call(relative_path, body)))
```

MISP Framtid

Vad vill du använda MISP/datat till?

På vilket sätt?

...

MISP Framtid

- Uppdatera nuvarande miljö (nytt DC)
- Ny MISP (striktare intag av data)
 - Mer indata via automation
 - Nya användare
 - Utbyte med bla SIKT
- Nuvarande MISP lever kvar med historiskt data...