



50TH TF-CSIRT MEETING AND FIRST REGIONAL SYMPOSIUM FOR EUROPE

TLP:GREEN

# A SCALABLE, OPEN SOURCE AND FREE INCIDENT PLATFORM

Saâd Kadhi  
TheHive Project

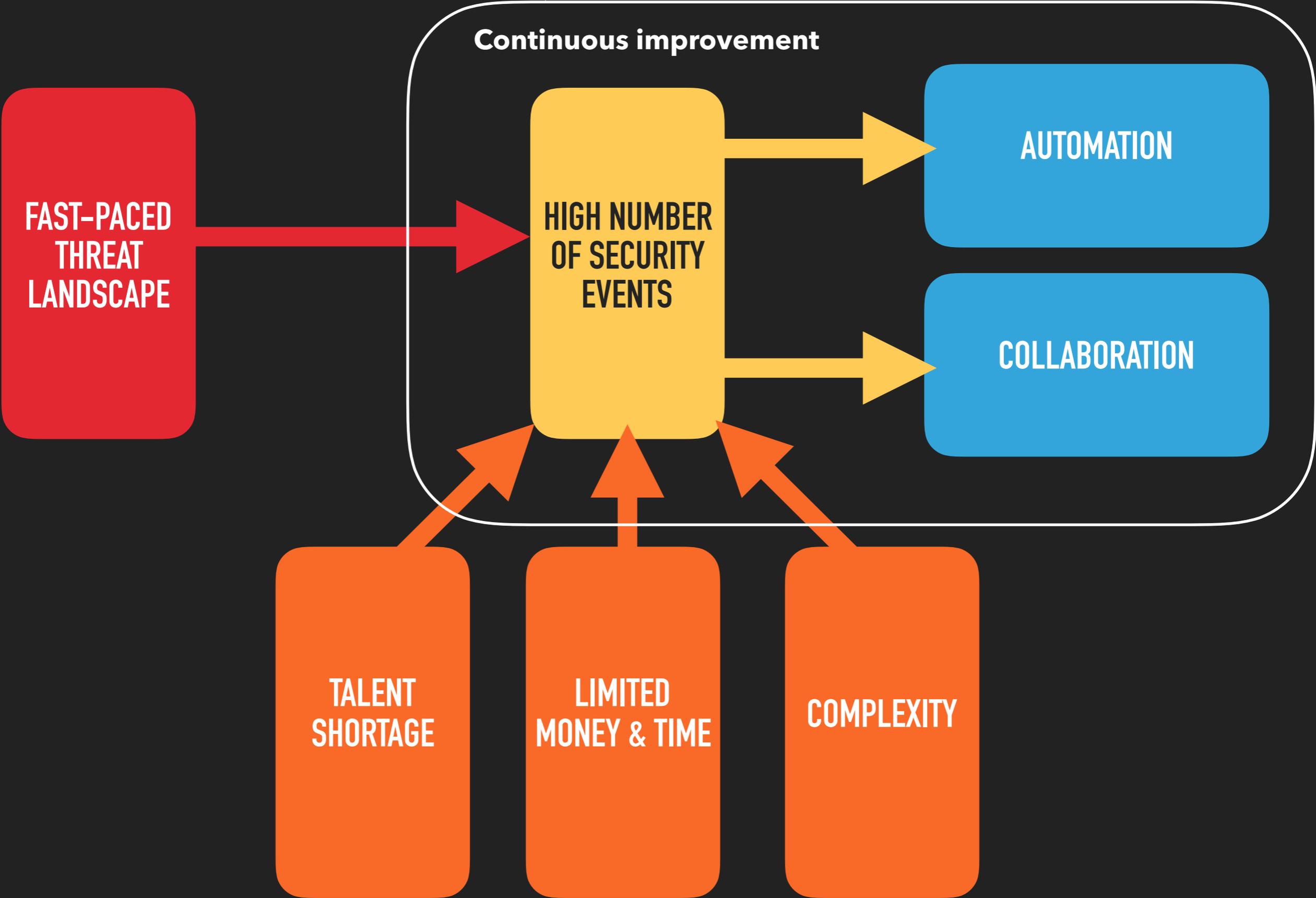


THREATS & REACTION

---

**FINDINGS**

# DRIVING DOWN THE TIME TO REACT



## WORK AS A TEAM

---

- ▶ DFIR is a **team** work
- ▶ FOSS mantra: 'with enough eyeballs, all bugs are shallow'
- ▶ DFIR mantra: 'with enough eyeballs, skills and mindsets, all threats are shallow'

## SHARING IS CARING

---

- ▶ And here we are, tired but happy
- ▶ The case has been investigated, IOCs found and proper response done
- ▶ Wouldn't they be **useful** to peers to defend themselves?
- ▶ And they will come up hopefully with **complementary** IOCs that were unbeknownst to us

- ▶ All observables are not created equal
- ▶ Their **TLP**, among other attributes, may vary
- ▶ A single case may involve observables from **multiple sources**
- ▶ TLP **drive** analysis and sharing
- ▶ Ex. a TLP:AMBER file must not be submitted to VT
- ▶ But its hash may be

## KEEP MANAGEMENT HAPPY

---

- ▶ Since donuts & pie charts are ~~eye-candy~~ essential management tools...
- ▶ Operational, meaningful **statistics** should be produced
- ▶ To **drive** the DFIR activity and continuously **improve** it



SEEKING SOLUTIONS

---

**SPECS**

- ▶ Let many analysts **work** on multiple cases, sometimes **simultaneously**
- ▶ Store observables, mark some as IOCs, make their **analysis** as simple as possible
- ▶ **Index** observables, cases and any noteworthy evidence or reference
- ▶ Let analysts **search** through them

## AUTOMATION & COLLABORATION

---

- ▶ Maintain **history** & an audit trail
- ▶ Change behavior according to the **TLP**
- ▶ Offer open, documented **API** to extract IOCs or create cases out of **MISP** events or **SIEM** alerts
- ▶ Generate statistics to drive and **improve** the activity
- ▶ **Facilitate** report writing

## WE ARE HUMANS

---

- ▶ Human **interaction** with the constituency may be negatively impacted by a ticketing system
- ▶ Do not expose tickets to the constituency
- ▶ Automation is good... until it strips away the **social** aspects of our work

## WHAT'S ON THE MARKET

---

- ▶ Hunting for a solution started in early **2014**
- ▶ Solutions existed but **partially** fulfilled the requirements
- ▶ Office (\*cough\*), AbuseHelper, RTIR, MISP, CIF and Resilient Systems (commercial)...
- ▶ Build vs. buy: given the requirements and our skills, we decided to **build**



LEARNING FROM BEES

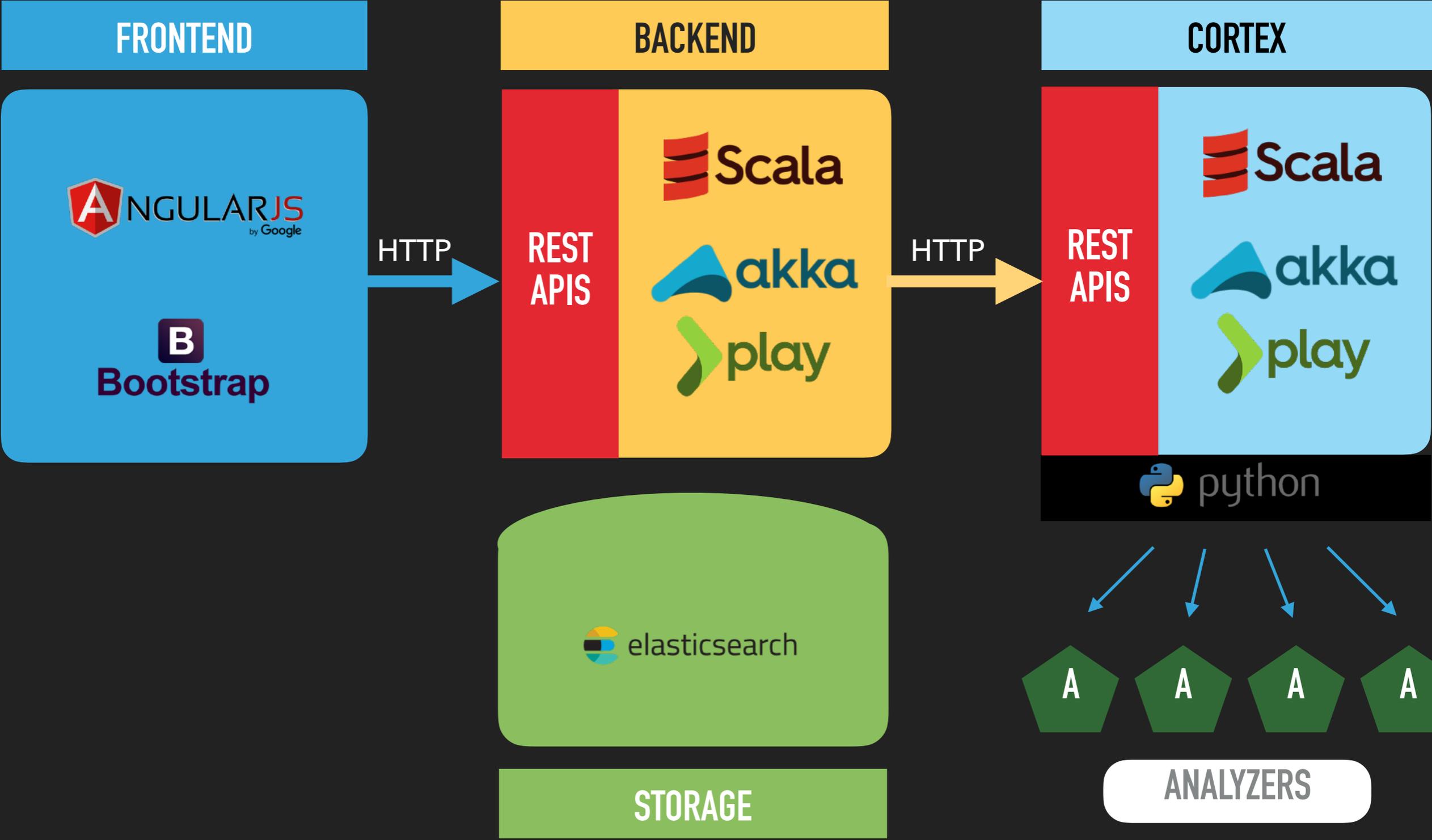
---

**THEHIVE**

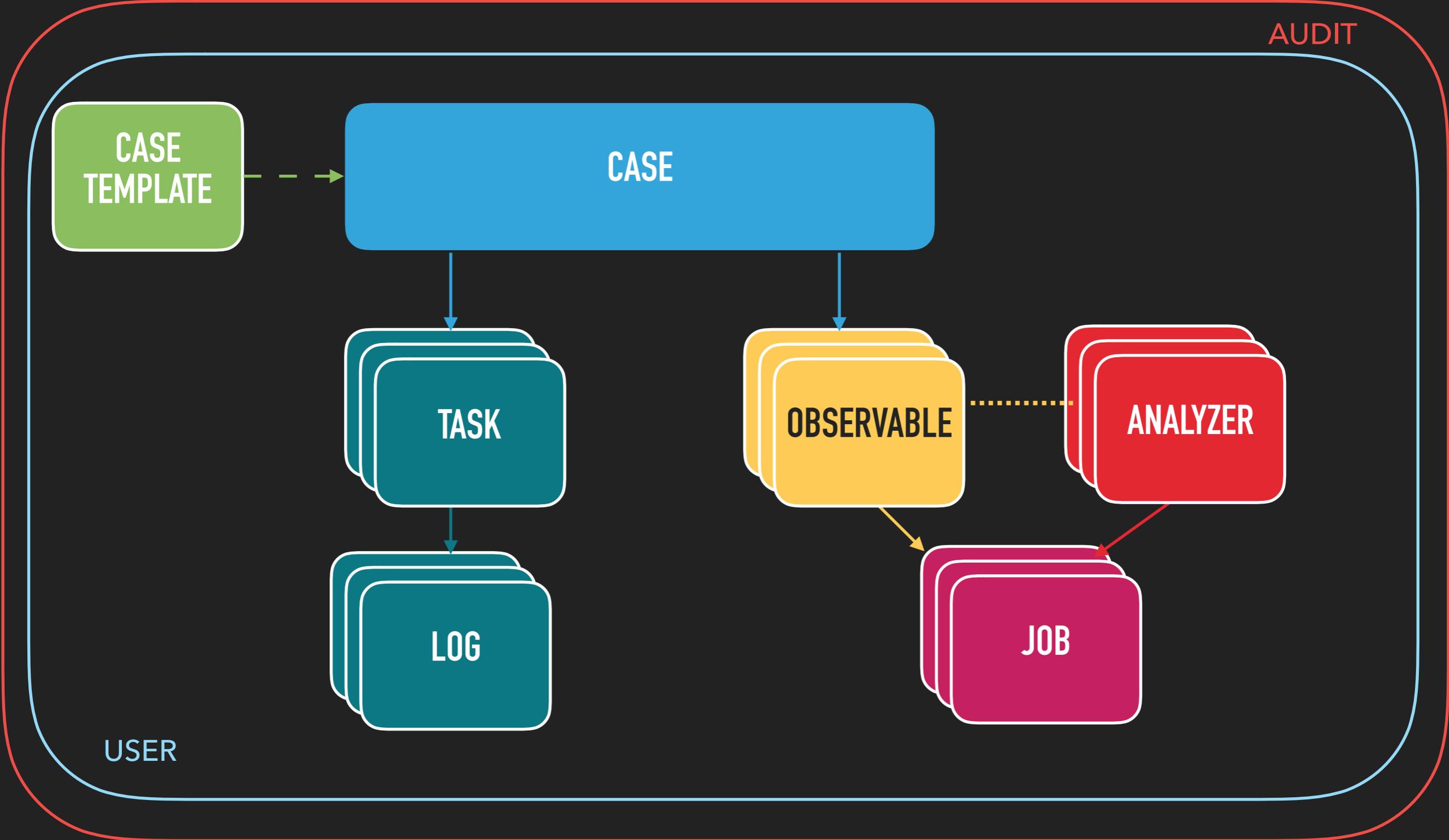


- ▶ 3-IN-1
  - ▶ **Collaboration** platform
  - ▶ Task & work **log**
  - ▶ **Analysis** and storage platform
- ▶ Used by a CERT team of 12 analysts on a daily basis since Oct 2014
- ▶ LDAP & Active Directory support for authentication

# ARCHITECTURE



# WORKFLOW



## USE CASES (EXAMPLES)

---

- ▶ Have we **already seen** these observables somewhere else?
- ▶ Have we already handled a **similar case** in the past? What was the outcome?
- ▶ Is there something we do on a regular basis that we can **automate**?
- ▶ We have a set of heterogenous observables that we need to **analyze**

## MAIN FEATURES

---

- ▶ **Import** and synchronize events from several **MISP** instances
- ▶ **Analyze** observables through one or several **Cortex** instances
- ▶ Leverage powerful **statistics** to **drive** the activity
- ▶ **Stay up-to-date** and get information about new cases, tasks, ... thanks to the **flow**
- ▶ **Handle** cases the way you want using **templates**

## CORTEX - STANDALONE ANALYSIS ENGINE

---

- ▶ **Automate** bulk observable **analysis** through a REST API
- ▶ Query analyzers through a **Web UI** to quickly **assess** the malicious nature of observables
- ▶ Analyzers can be developed in **any programming language** that is supported by Linux

# 11 ANALYZERS

---

**FILEINFO**

**OUTLOOK MSG  
PARSER**

**VIRUSTOTAL**

**JOE SANDBOX**

**DOMAINTOOLS**

**DNSDB**

**PASSIVE TOTAL**

**SPLUNK**

**FORTIGUARD  
URL CATEGORY**

**OTXQUERY**

**PHISHING  
INITIATIVE**

**PHISHTANK**

**HIPPOCAMPE**

**MAXMIND**

**MISP**

- ▶ TheHive and Cortex are **horizontally scalable**
- ▶ Add more Elastic nodes and let them dance together
- ▶ Their REST APIs are **stateless**
- ▶ Add more back-ends / Cortex instances if there are load issues
- ▶ Currently missing: shared flow among back-ends through Apache kafka

## PRE-REQUISITES

---

- ▶ Linux with JRE 8+
- ▶ Chrome, Firefox, IE (11)
- ▶ A decent computer

## GET THE SOFTWARE

---

- ▶ TheHive is available under an **AGPL** license
- ▶ Source code hosted on **GitHub** by CERT-BDF
- ▶ Available as **binary** packages and **Docker** images
- ▶ **Buckfast** (2.10) and **Cortex** release scheduled for 3rd week of January



SHOW TIME

---

DEMO?

# MAIN VIEW



+ New Case ▾

My tasks **0**

Waiting tasks **11**

MISP **7**

Statistics

Case, user, URL, hash, IP, domain .. ▾

Admin ▾

TF

Quick Filters ▾

Sort by ▾

Stats

Filters

15

per page

## List of cases (18 of 1976)

1 filter(s) applied: **status: Open** ✕ Clear filters

Title	Tasks	Observables	Assignee	Date
#1958 - [OSINT] EyePyramid - [redacted] Tags: [redacted] eyepyramid [redacted]	4 Tasks	62	[redacted]	01/11/17 14:40
#1946 - Trafic suspect provenant d'un adresse IP [redacted] Tags: None	2 Tasks	0	[redacted]	01/06/17 16:37
#1845 - [TEST RED] Analyse forensics [redacted] Nov 2016 Tags: TEST RED	5 Tasks	0	[redacted]	12/12/16 14:48
#1260 - [TEST RED] Analyse forensics [redacted] Juillet 2016 Tags: TEST RED	8 Tasks	0	[redacted]	08/02/16 15:16
#1976 - [deblocage-mail] [redacted] Tags: deblocage-mail	2 Tasks	0	NL	01/18/17 12:20
#1975 - [MISP] #5311 "You asked me fb " password-protected .doc malspam Tags: misp ioc src:[redacted]	2 Tasks	11	[redacted]	01/18/17 8:33
#1974 - [MISP] #5309 UNKNOWN-CVE-2016-7200 & CVE-2016-7201 (Edge) in Sundown Exploit Kit Tags: Cybercrime MALICIOUSACTIVITY MALWARE misp ioc src:[redacted]	1 Task	179	[redacted]	01/17/17 17:40

Open in new window

Hide

✓ Closed by [redacted] 6 minutes

### [MISP] #5300 EyePiramid additional IOCs

status: Resolved  
resolutionStatus: Indeterminate  
metrics: {"nbDeliveredEmails":0,"nbReceivedEmails":0,"nbC2Calls":0,"nbSuccessfulC2Calls":0}  
summary: Recherche dans [redacted] => RAS  
impactStatus: NotApplicable

#1967 - [MISP] #5300 EyePiramid additional IOCs

Updated by [redacted] 39 minutes

### Mails envoyés non intentionnellement

owner: [redacted]

#1964 - Mails envoyés non intentionnellement

✓ Closed by [redacted] an hour

### [PHISHING] Document de reference :: [redacted]

status: Resolved  
resolutionStatus: TruePositive  
summary: Plusieurs personnes ont reçu un mail de phishing Free. Aucun POST sur le site. RAS.  
impactStatus: NoImpact

#1970 - [PHISHING] Document de reference : [redacted]

Updated by [redacted] an hour

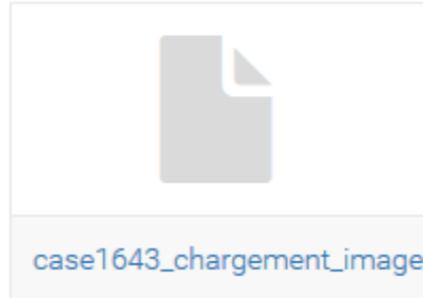
### 3. Identification

description: Plusieurs personnes ont

Updated by [redacted] 30 minutes

[redacted]

Mr [redacted] : a transféré le mail qu'il a reçu (cf [redacted]) à [redacted] Dans Splunk, (cf task identification) on voit des connexions de [redacted] sur l'url "" [redacted] newslettertool2.1und1.de NOT user=- user=' [redacted] ""



#1643 - [MALSPAM] Chronopost 3 transfert de mail vu comme connexion

Added by [redacted] 32 minutes

[redacted]

Tracking Splunk depuis début de la semaine "" index=[redacted] newslettertool2.1und1.de NOT user=- | table user | uniq 484 événements (01/10/16 00:00:00, 000 à 21/10/16 12:05:13,000) ""



#1643 - [MALSPAM] Chronopost 3 3. Identification

Added by [redacted] 35 minutes

[redacted]

Tracking [redacted] Generated: 21 Oct 2016 11:22 (GMT +02:00) Subject contains : suivi de l'envoi Période : 16/10/16 0h00 to 21 Oct 2016 11:19 (GMT +02:00)



# CASE VIEW

## Case # 1638 - [MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam

Thu, Oct 20th, 2016 10:04 +02:00 (Closed at Thu, Oct 20th, 2016 14:08 +02:00 as Indeterminate)

19 Related cases

Summary

Tasks 2

Observables 10

### Basic information

Severity

L

TLP

TLP:GREEN

Title

[MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam

Date

Thu, Oct 20th, 2016 10:04 +02:00

Close date

Thu, Oct 20th, 2016 14:08 +02:00

Resolution Status

Indeterminate

Summary

Tracking sous => RAS tracking sous => RAS

Tags

misp ioc src: .6403

Description

Imported from MISP Event #4832, created at Thu Oct 20 02:30:48 CEST 2016

Links attributes :

- https://www.virustotal.com/en/file/7f8158c8b683790322aaee9afe2694d3315585b049f05d1/analysis/1476866015/
- https://www.hybrid-analysis.com/sample/7f8158c8b683790322aaee9afe2694d3315585b049f05d1/

### Related cases

Newest (Case # 1640 - [MISP] #4828 Malspam with Reserve Bank of Australia lure)

Created on 2016-10-20

Shares 1 observable

Tagged as misp ioc src: .6403

Oldest (Case # 1193 - [MISP] #4078 "Bid" infostealer malspam)

Created on 2016-07-12

Shares 1 observable

Tagged as misp ioc src: .6403

See all (19 related cases)

### Metrics

+ Add metric

Number of unique and successful C2 calls 0

Number of received emails 0

Number of unique C2 calls 0

Number of delivered emails 0

Closed by [User] a day

### [MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam

status: Resolved  
resolutionStatus: Indeterminate  
metrics: {"nbDeliveredEmails":0,"nbReceivedEmails":0,"nbC2Calls":0,"nbSuccessfulC2Calls":0}  
summary: Tracking sous => RAS tracking sous => RAS  
impactStatus: NotApplicable  
endDate: Thu, Oct 20th, 2016 14:08 +02:00

#1638 - [MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam

Added by [User] a day

Arnaud [User]

Tracking sur les FQDN sous "" 1830977@varan:~\$ search\_es.py -f test -i logs-serai-201\* --field FQDN -t 1000 --show {'sort': [{'Date': {'order': 'desc', 'ignore\_unmapped': True}}], 'query': {'filtered': {'filter': {'terms': {'FQDN': ['mopol.m ...

#1638 - [MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam Tracking SERAI

Completed by [User] a day

Tracking [User]

status: Completed  
endDate: Thu, Oct 20th, 2016 14:05 +02:00  
flag: false

#1638 - [MISP] #4832 "Barclays Foreign Transaction (SWIFT)" LuminosityLink RAT malspam Tracking SERAI

Added by [User] a day

# CASE VIEW

## Close Case #1642

**!** You are about to close Case #1642. Are you sure you want to continue ?

**Status \*** Incident

True Positive False Positive **Indeterminate** Other

**?** There is not enough elements to tell that there is something malicious (original message has been delete and not transmitted, IOC lookup with 0 hit ...)

**Summary \*** Tracking [redacted]: 0 HIT. Tracking [redacted]: 0 HIT. RAS.

**Number of unique and successful C2 calls \*** 0

**Number of received emails \*** 0

**Number of unique C2 calls \*** 0

**Number of delivered emails \*** 0

Cancel \* Required field Close case

# LOG VIEW

**M** Case # 1590 - Faux compte [https://www.facebook.com/fr\[redacted\]](https://www.facebook.com/fr[redacted])  
[redacted] Sat, Oct 8th, 2016 16:00 +02:00 (Closed at Mon, Oct 10th, 2016 9:25 +02:00 as **True Positive**)



Summary Tasks **3** Observables **2** Eradication **0** Vérification **0** Détection **0**

## Eradication ✓

+ Add new task log

### Owner

[redacted]

### Date

Mon, Oct 10th, 2016 9:23 +02:00

[redacted] Mon, Oct 10th, 2016 9:24 +02:00

### Close date

Mon, Oct 10th, 2016 9:25 +02:00

### Description

Compte signalé à puis fermé par Facebook.

Facebook nous informe que le compte a été fermé :

We removed the profile you reported

Oct 8

We reviewed the profile you reported for pretending to be someone they're not. Since it violated our Community Standards, we removed it. Thanks for your report. We let [redacted] know that their profile has been removed, but not who reported it.

[redacted] Mon, Oct 10th, 2016 9:23 +02:00

Le faux compte a été signalé à Facebook en suivant la procédure habituelle depuis le compte Facebook du CERT-BDF.

+ Added by [redacted] 11 days

url: [hxxps://www\[.\]facebook\[.\]com/profile.php?id=11\[redacted\]](https://www.facebook.com/profile.php?id=11[redacted])

2 other observables have also been added [See all](#)

description: Faux compte FVdG

#1590 - Faux compte

[https://www.facebook.com/fr\[redacted\]](https://www.facebook.com/fr[redacted])

[https://www.facebook.com/profile.php?id=11\[redacted\]](https://www.facebook.com/profile.php?id=11[redacted])

[https://www.facebook.com/profile.php?id=11\[redacted\]](https://www.facebook.com/profile.php?id=11[redacted])

✓ Closed by [redacted] 11 days

Faux compte [https://www.facebook.com/fr\[redacted\]](https://www.facebook.com/fr[redacted])

status: *Resolved*

resolutionStatus: *TruePositive*

summary: *Le faux compte détecté et signalé le 7 octobre 2016 a été fermé par Facebook le 8 octobre 2016.*

impactStatus: *NoImpact*

endDate: *Mon, Oct 10th, 2016 9:25 +02:00*

#1590 - Faux compte

[https://www.facebook.com/fr\[redacted\]](https://www.facebook.com/fr[redacted])

[https://www.facebook.com/fr\[redacted\]](https://www.facebook.com/fr[redacted])

# OBSERVABLE VIEW

## Case # 1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player Exploit Platform

Created by [redacted] Tue, Oct 18th, 2016 13:37 +02:00 (Closed at Tue, Oct 18th, 2016 14:20 +02:00 as Indeterminate) 16 Related cases

Summary Tasks 1 Observables 24

Action ▾ + Add observable(s)

Stats Filters 15 per page

### List of observables (24 of 24)

Type	Data/File name	Reports	Tags	Date added
hash	f62182cf0ab94b3c97b0261547dfc6cf	Run all analyzers	src:TDC.dk ioc:misp md5	10/18/16 13:37
hash	72b77c011b2ae73a4bb2421250b4d3778e34e14b9b82f357e0cce3a0054df99b	Run all analyzers	src:TDC.dk ioc:misp authentihash	10/18/16 13:37
hash	9f6bed7d7f4728490117cbc85819c2e6c494251b	Run all analyzers	src:TDC.dk ioc:misp sha1	10/18/16 13:37
hash	dc2c3314ef4e6186b519af29a246679caa522acd0c44766ecb9df4d2d5f3995b	Run all analyzers	src:TDC.dk ioc:misp sha256	10/18/16 13:37
hash	cc68ed96ef3a67b156565acbea2db8ed911b2b31132032f3ef37413f8e2772c5	Run all analyzers	src:TDC.dk ioc:misp sha256	10/18/16 13:37
other	CVE-2015-7645	Run all analyzers	src:TDC.dk ioc:misp vulnerability	10/18/16 13:37
hash	af9c1b97e03c0e89c5b09d6a7bd0ba7eb58a0e35908f5675f7889c0a8273ec81	Run all analyzers	src:TDC.dk ioc:misp sha256	10/18/16 13:37
hash	f3805382ae2e23ff1147301d131a06e00e4ff75f	Run all analyzers	src:TDC.dk ioc:misp sha1	10/18/16 13:37
hash	768:V1af7X6TBxX6TB0E86PTT5GSI5y6eYVmpl+cc1Bvk0pt7/2cn8qn/cU1:V1YljiTT5GSI5Rmjmx/2Pu1	Run all analyzers	src:TDC.dk ioc:misp ssdeep	10/18/16 13:37
other	CVE-2016-1019	Run all analyzers	src:TDC.dk ioc:misp vulnerability	10/18/16 13:37
domain	appexsrv[.]net	Run all analyzers	src:TDC.dk ioc:misp	10/18/16 13:37
hash	768:wTz0NCS5AzPaivdnVuDIYFDAmIqDYIc6MblyZ:wP0NsHFnd9IM7MkyZ	Run all analyzers	src:TDC.dk ioc:misp ssdeep	10/18/16 13:37

Closed by [redacted] 3 months

### [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash P layer Exploit Platform

status: Resolved  
resolutionStatus: Indeterminate  
metrics: {"nbDeliveredEmails":0,"nbReceivedEmails":0,"nbC2Calls":0,"nbSuccessfulC2Calls":0}  
summary: Tracking SERAI => R.A.S  
impactStatus: NotApplicable  
endDate: Tue, Oct 18th, 2016 14:20 +02:00

#1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player Exploit Platform

Updated by [redacted] 3 months

### [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash P layer Exploit Platform

#1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player Exploit Platform

Updated by [redacted] 3 months

### [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash P layer Exploit Platform

#1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player Exploit Platform

Completed by [redacted] 3 months

### Tracking [redacted]

status: Completed  
endDate: Tue, Oct 18th, 2016 14:20 +02:00  
flag: false

#1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player Exploit Platform Tracking [redacted]

Updated by [redacted] 3 months

Tracking [redacted] avec Splunk sur les 2 domaines sur les 90 derniers jours

#1629 - [MISP] #4819 OSINT: 'DealersChoice' is Sofacy's Flash Player

## M Case # 432 - doslegacy/ZAccess.QQA détecté

Created by  Wed, Nov 4th, 2015 14:16 +01:00 (Closed at Wed, Nov 4th, 2015 15:45 +01:00 as **True Positive**)

Summary

Tasks **3**

Observables **25**

1234057937[.]exe[.]dr 

[FILE]: 1234057937.exe.dr



1234057937.exe.dr

Zip are protected with password "malware"

VT: 26/53 Scans(53)

## Observable Information

TLP	TLP:AMBER
Hash	<b>SHA256:</b> 47d86d19df67d1e5f96a1f5efd5884ca6acee06ba9020bf3d9b1878ed0f9c086 <b>SHA1:</b> b97fd6ff94546687b3c200916908c2978ad85680 <b>MD5:</b> 60b94649e20196e6893072000dcace0d
Date added	Wed, Nov 4th, 2015 15:19 +01:00
Is IOC	
Labels	PE
Description	 Exe présent dans <code>Your_personal_WT.zip</code>

## Observable Links

Observable seen in 0 other case(s)

## Observable Analyzers

Run all

Analyzer	Last analysis	Action
 VirusTotal_GetReport_2_0 VirusTotal get report: provides the last report of a file, hash, domain or ip	 Wed, Jan 18th, 2017 16:15 +01:00	
VirusTotal_Scan_2_0		

# OBSERVABLE VIEW

VirusTotal\_GetReport\_2\_0 : VirusTotal get report: provides the last report of a file, hash, domain or ip

[Fri, Oct 21st, 2016 13:12 +02:00](#)



Olevba analysis report. Submit a Microsoft Office File.



## Report

### Summary

**Score** 26/53

**Last analysis date** 2015-11-06 10:06:08

### Scans

Scanner	Detected	Result	Details	Update	Version
Bkav	✓			20151105	1.3.0.7383
MicroWorld-eScan	✗	Gen:Variant.Kazy.763863		20151106	12.0.250.0
nProtect	✓			20151106	2015-11-06.01
CMC	✓			20151102	1.1.0.977
CAT-QuickHeal	✓			20151106	14.00
McAfee	✗	Downloader-FAHF!60B94649E201		20151106	6.0.6.653
Malwarebytes	✓			20151106	2.1.1.1115
VIPRE	✗	Trojan.Win32.Generic!BT		20151106	45042

# STATISTICS

From 19-12-2016



To 18-01-2017

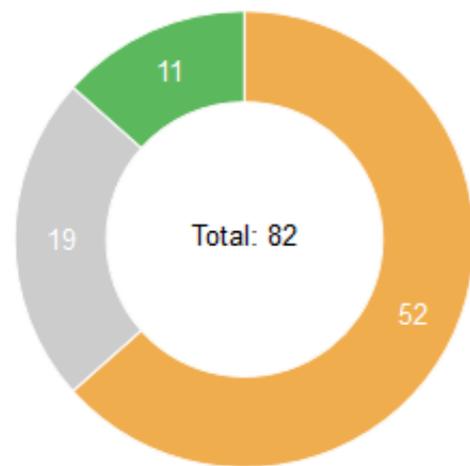


Tags



## Cases by TLP

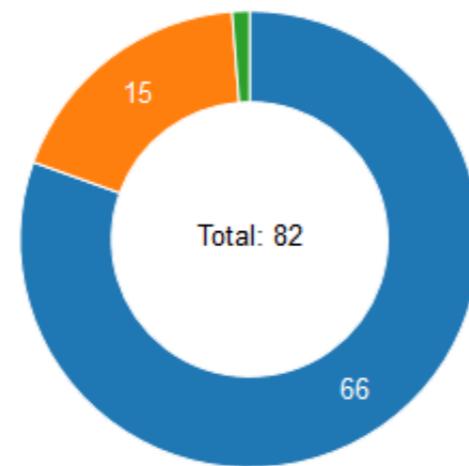
[Save as image](#)



White Green Amber

## Cases by status

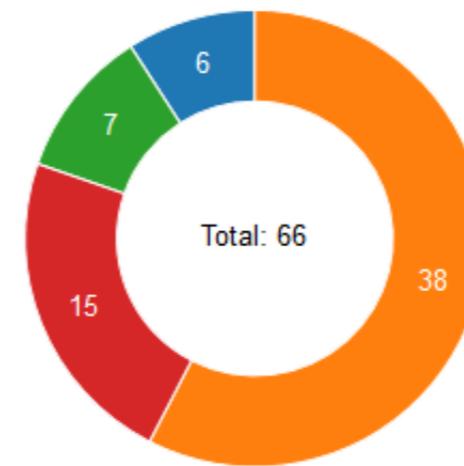
[Save as image](#)



Resolved Open Deleted

## Resolved cases by resolution

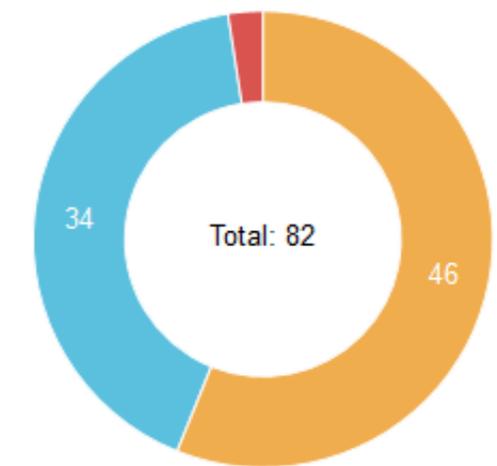
[Save as image](#)



Other Indeterminate  
FalsePositive TruePositive

## Cases by Severity

[Save as image](#)



Low Medium High

## Cases over time

Interval



[Save as image](#)

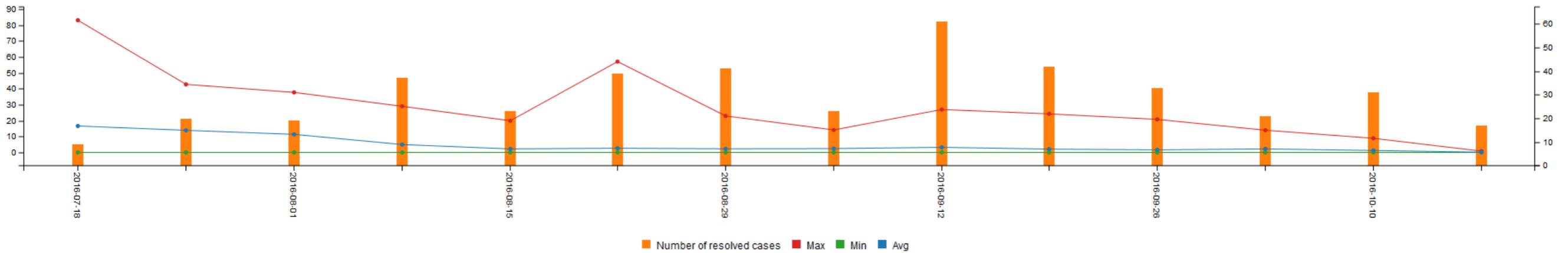


# STATISTICS

## Cases handling over time

Interval

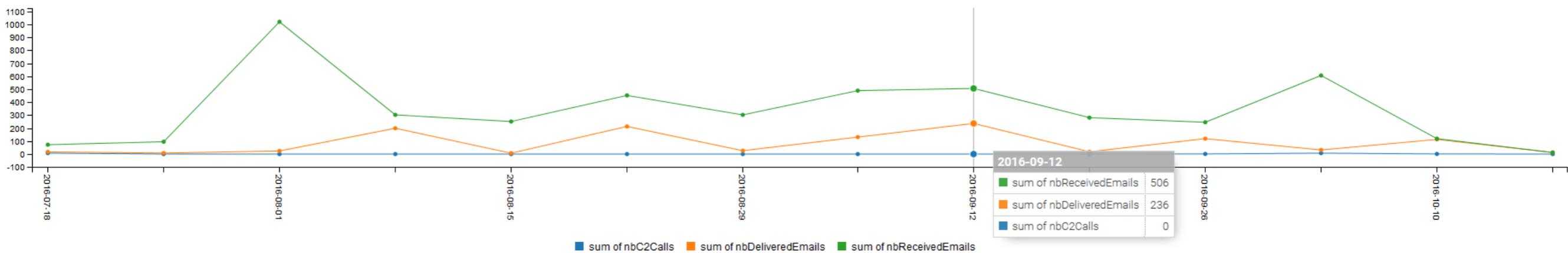
[Save as image](#)



## Case metrics over time

Metrics  Aggregations  Interval

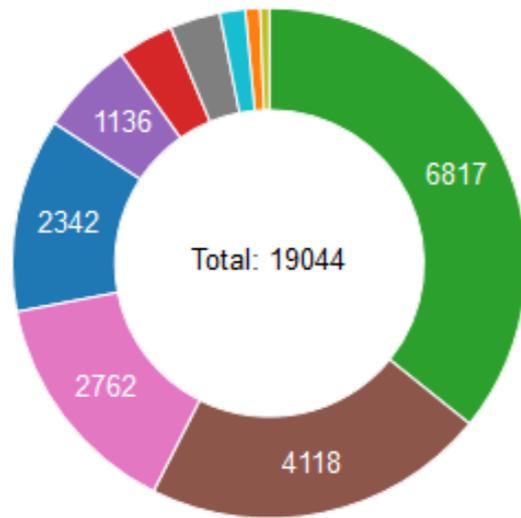
[Save as image](#)



# STATISTICS

## Observables by Type

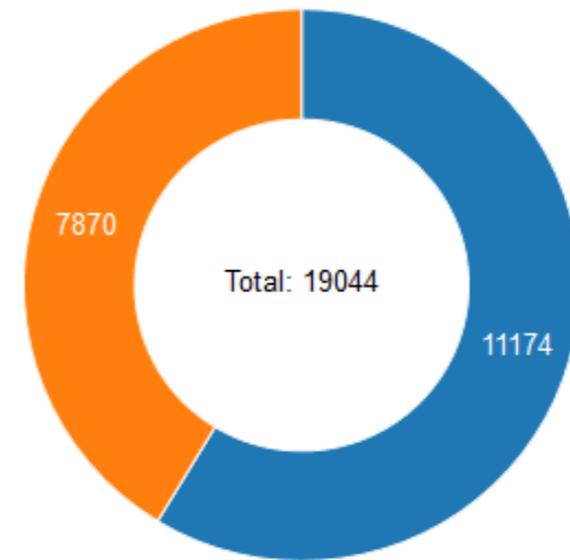
Save as image



ip mail\_subject url domain hash fqdn mail filename file other

## Observables by IOC flag

Save as image

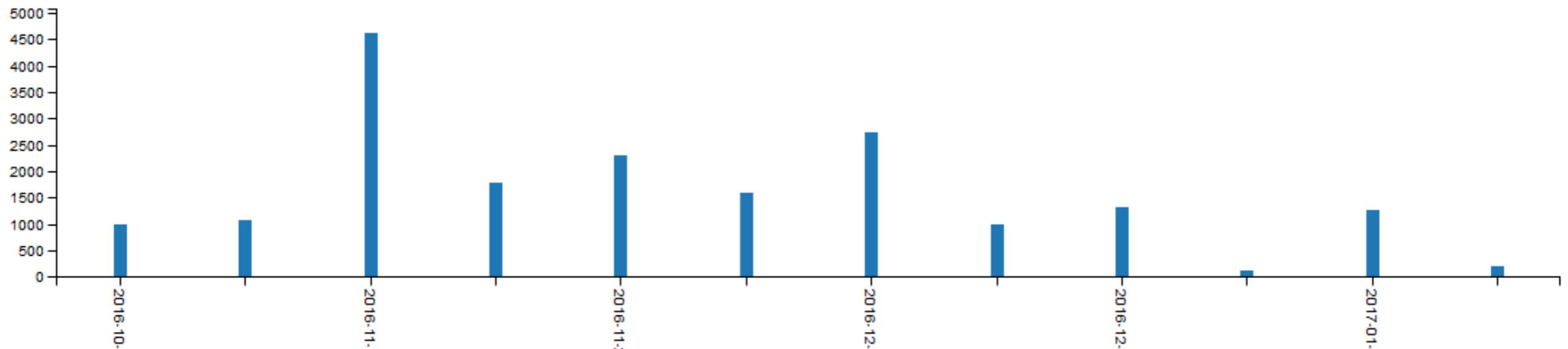


NOT IOC IOC

## Observables over time

Interval By week

Save as image



## Analyzers

## Data types

ip	9
domain	10
fqdn	3
file	5
url	7
mail	1
other	1
hash	2

## DNSDB\_IPHistory (Version: 1.0)

▶ Run

DNSDB Passive DNS query for IP history : Provides history records for an IP

Applies to: ip

## DNSDB\_DomainName (Version: 1.1)

▶ Run

DNSDB Passive DNS query for Domain Names : Provides history records for a domain

Applies to: domain

## DNSDB\_NameHistory (Version: 1.0)

▶ Run

DNSDB Passive DNS query for domain/host name history : Provides history records for an domain/host

Applies to: fqdn

## Msg\_Parser (Version: 1.0)

▶ Run

Outlook .msg file parser

Applies to: file

## Fortiguard\_URLCategory (Version: 1.0)

▶ Run

URL Category by Fortiguard: checks the category of a specific URL or domain

Applies to: domain url

## File\_Info (Version: 1.0)

▶ Run

Technical information about a File.

Applies to: file

## Run new analysis

TLP

AMBER

Data Type

-- choose data type --

Data

Data: 8.8.8.8, test.com

Cancel

Start

DNSDB\_DomainName (Version: 1.1)

DNSDB Passive DNS query for Domain Names : Provides history records for a domain

Applies to: domain

DNSDB\_NameHistory (Version: 1.0)

DNSDB Passive DNS query for domain/host name history : Provides history records for an domain/host

Applies to: fqdn

## Job details

[← Back to list](#)

⚙ PhishingInitiative\_Lookup\_1\_0

### Artifact

[URL] hxxps://www[.]wuichbinbereits-kunde[.]net/

### Date

9 minutes ago

### Status

Success

## Job report

```
{
  "artifacts": [
    {
      "type": "url",
      "value": "https://www.wuichbinbereits-kunde.net"
    },
    {
      "type": "domain",
      "value": "www.wuichbinbereits-kunde.net"
    }
  ],
  "full": {
    "url": "https://www.wuichbinbereits-kunde.net/",
    "tag": 1,
    "tag_label": "phishing"
  },
  "success": true,
  "summary": {
    "status": "phishing"
  }
}
```

## Jobs

Data Types 

ip

domain

fqdn

file

url

mail

other

hash

Analyzers 

DNSDB\_IPHistory

DNSDB\_DomainName

DNSDB\_NameHistory

Msg\_Parser

Fortiguard\_URLCategory

File\_Info

MaxMind\_GeoIP

PhishTank\_CheckURL

PhishingInitiative\_Lookup

DomainTools\_ReverseWhois

## List of existing jobs

Status	Analyzer	Date	Artifact	Data Type	
Success	VirusTotal_GetReport_2_0	9 minutes ago	1234057937[.]exe[.]dr	file	 
Success	DomainTools_WhoisHistory_1_0	a day ago	kingwestvillage[.]com	domain	 
Success	DomainTools_WhoisLookup_1_0	a day ago	kingwestvillage[.]com	domain	 
Success	VirusTotal_Scan_2_0	a day ago	blah[.]txt	file	 
Success	VirusTotal_GetReport_2_0	a day ago	217ffd200fe90c89a06782385fb0615d	hash	 

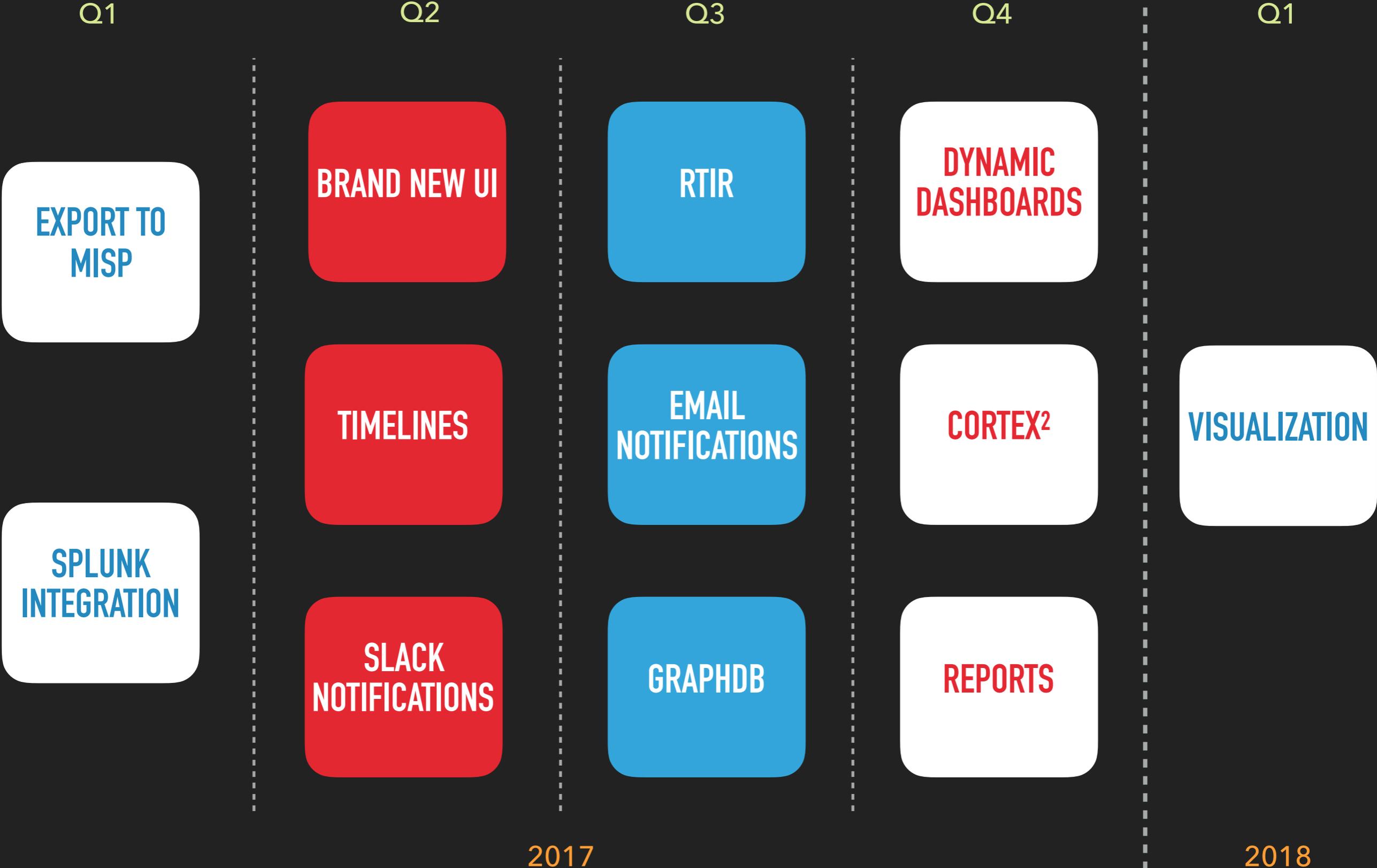


WHERE WE ARE HEADED

---

**ROADMAP**

# MILESTONES



- ▶ **Authentication, subscription** and analyzer **configuration** support
- ▶ **Painless** analyzer development
- ▶ Analyzers will be provided as **dockers**
- ▶ **Rate-limiting**
- ▶ Report **caching**

# UPCOMING CONNECTORS AND ANALYZERS

---

## CONNECTORS

ZEROFOX

DIGITAL SHADOWS

SPLUNK (ALERTS)

MISP (EXPORTS)

SPLUNK (SEARCH)

MISP (SEARCH)

PASSIVETOTAL

JOE SANDBOX

## ANALYZERS

THANK YOU!

---

**THEHIVE PROJECT** / <https://thehive-project.org/>

- ▶ Thomas Franco
- ▶ Saâd Kadhi
- ▶ Jérôme Leonard
- ▶ Contributors
  - ▶ Nabil Adouani
  - ▶ Eric Capuano
  - ▶ CERT-BDF