

BEERUMP 17 / 2017-06-22

TLP:WHITE

## HOW AN IOC CAN LEAD TO ANOTHER?

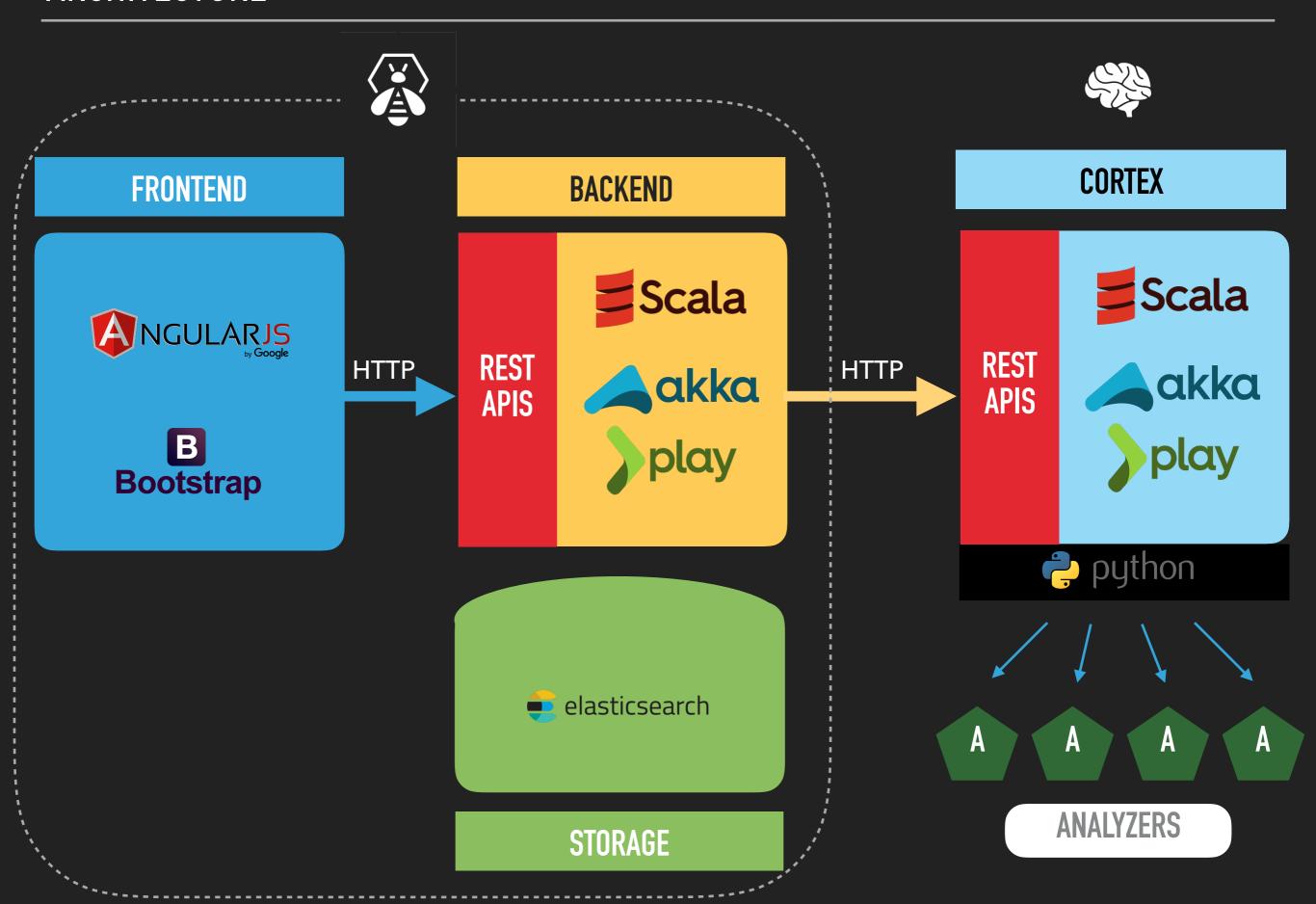
Saâd Kadhi <u>TheHive Project</u>





- Automate bulk observable analysis through a REST API
- Can be queried Web UI
- Analyzers can be developed in any programming language that is supported by Linux
- Two-way MISP integration
- While originally created for Blue Teams, Cortex can be useful for Red Teams too

## ARCHITECTURE



PASSIVETOTAL

FORTIGUARD URL CATEGORY

**HIPPOCAMPE** 

**MAXMIND** 

**SPLUNK SEARCH** 

**CIRCL PSSL** 

**CIRCL PDNS** 

GOOGLE SAFE BROWSING

**JOE SANDBOX** 

**CUCKOO** 

MISP SEARCH

**VIRUSTOTAL** 

**DNSDB** 

**VMRAY** 

**MCAFEE ATD** 

**DOMAINTOOLS** 

**ABUSE FINDER** 

**YARA** 

**FIREHOL** 

**IRMA** 

**FILEINFO** 

**NESSUS** 

PHISHING INITIATIVE

**FAME** 

WHOISXMLAPI

OUTLOOK MSG PARSER

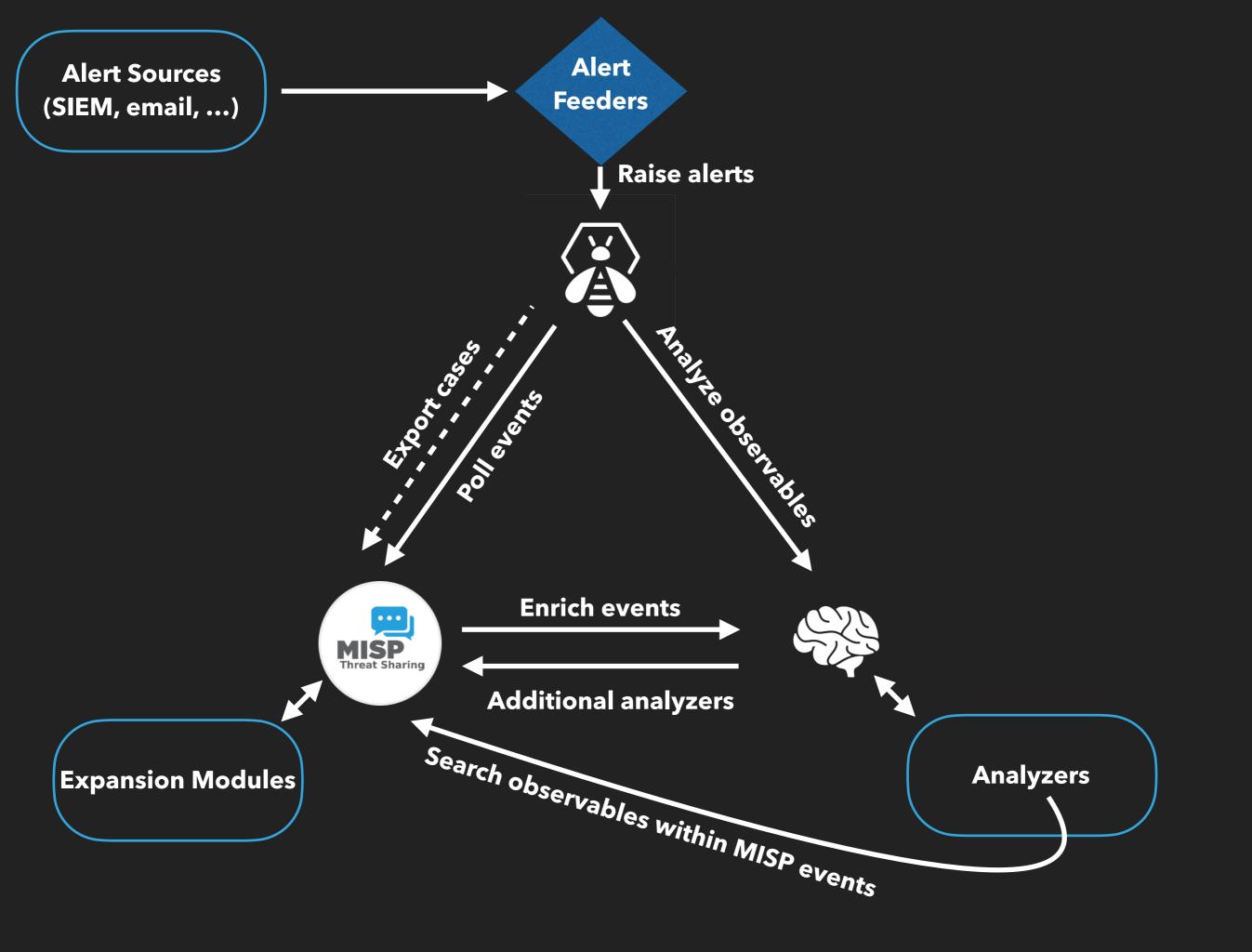
OTXQUERY

**PHISHTANK** 

INTELMQ

**FIREEYE AX** 

**HYBRID ANALYSIS** 



- In February, numerous Polish Fls were infected after visiting the Polish Supervision Authority (www[.]knf[.]gov[.]pl) -> Watering hole attack -> Custom EK with exploits stolen from Neutrino & RIG
- Later on, it was found that other websites were used to carry the same attack: Comisión Nacional Bancaria y de Valores (MX), Banco República (UY)
- https://badcyber.com/several-polish-banks-hackedinformation-stolen-by-unknown-attackers/

- ▶ IOC = www[.]knf[.]gov[.]pl
- How can we pivot to find other IOCs (that are less brittle maybe?)

knf[.]gov[.]pl	MISP Search	1 event
knf[.]gov[.]pl	VirusTotal	hxxp://knf.gov.pl/DefaultDesign/Layouts/ KNF2013/resources/accordian-src.js? ver=11
d4616f9706403a0d5a2f9a872 6230a4693e4c95c58df5c753c cc684f1d3542e2	VirusTotal	47/61
sap[.]misapor[.]ch	MISP Search	Galaxy Lazarus Group, Target Finance

- Cortex is available under an AGPL license
- Can be installed using RPM, DEB, Docker image, binary package or built from the source code
- Pre-requisites: Linux with JRE 8+, Chrome, Firefox, IE (11), and a decent computer
- https://thehive-project.org/