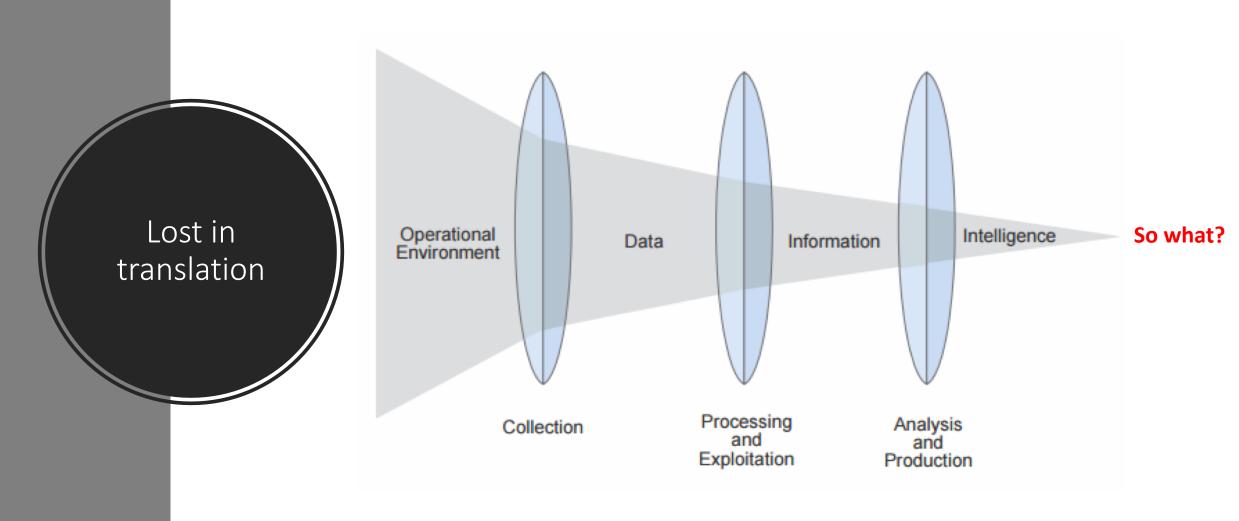
Building blocks for CTI (on a budget)

Swetha Balla, April 2019

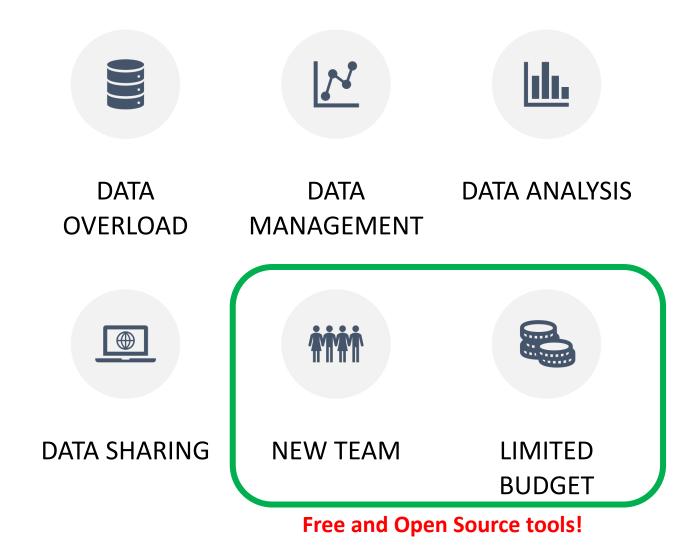
Agenda





Reference: Recorded Future





Opinions are my own and not the views of my employer.

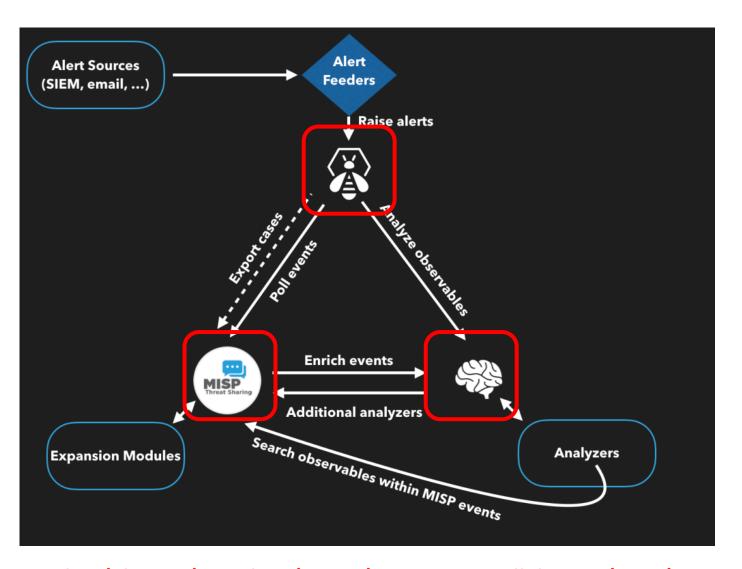


Why not?

Quick starter

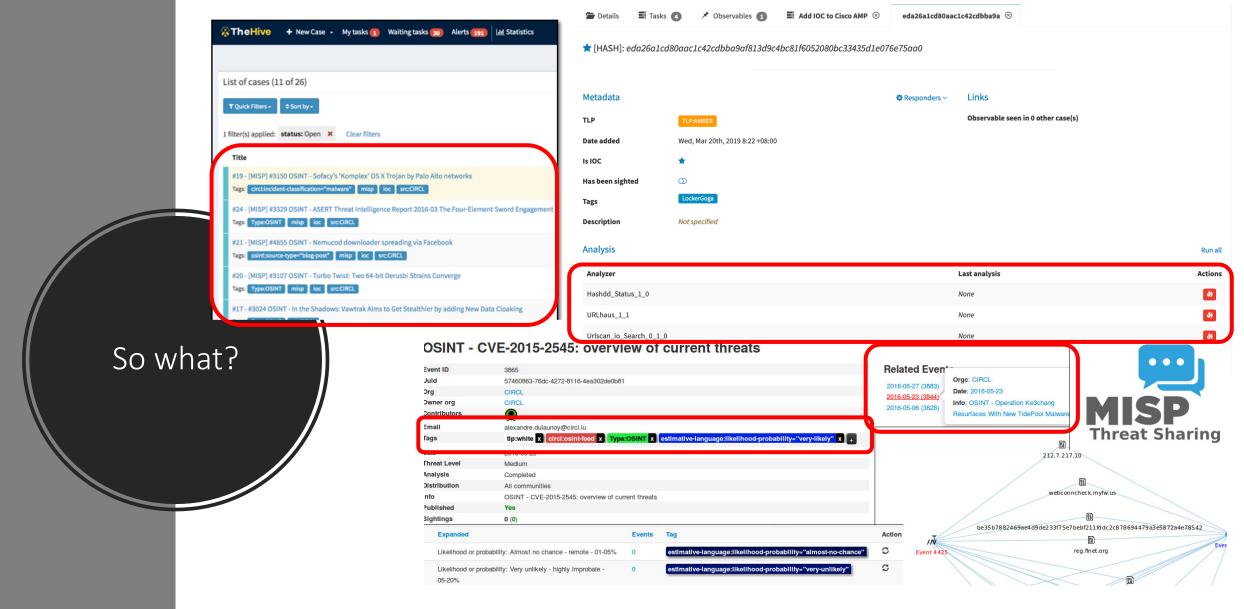
Shared & used by many mature security teams





Gather (TheHive), Analyze (Cortex), Process & Collaborate (MISP)

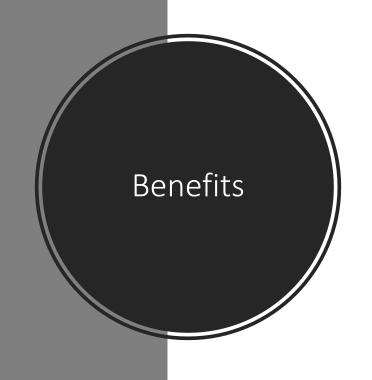
Opinions are my own and not the views of my employer.



TheHive -> MISP: Internal Observables -> Enrichment & (maybe) sharing

TheHive -> Cortex: Internal Observables -> Enrichment
MISP -> TheHive: External Observables -> Alerts -> Incidents

Opinions are my own and not the views of my employer.









GATHERING

COLLECTION

ENRICHMENT

Kick-started the ability to build an internal threat database





TLC

TheHive doesn't have RBAC and this would require spinning up multiple instances



Security testing

The tools have to be tested by a Penetration Testing team to ensure that there are no critical vulnerabilities



One isn't enough

MISP on its own might not work; need to complement with other technologies like STAXX

Active community helps with lack of vendor support

TL;DR



Lay the building blocks

Planning and requirements

Data collection and processing Processes: Analysis, Production



Crawl, walk, run

Implement the building blocks using FOSS tool

Identify potential gaps in using FOSS tools

Contribute to the community (key *tenet* of CTI)



Continuous evolution

New technologies & tools
Constant change

Questions?