



AUGUST 10-11

MANDALAY BAY / LAS VEGAS



Streamlining and Automating Threat Hunting With **Kestrel**

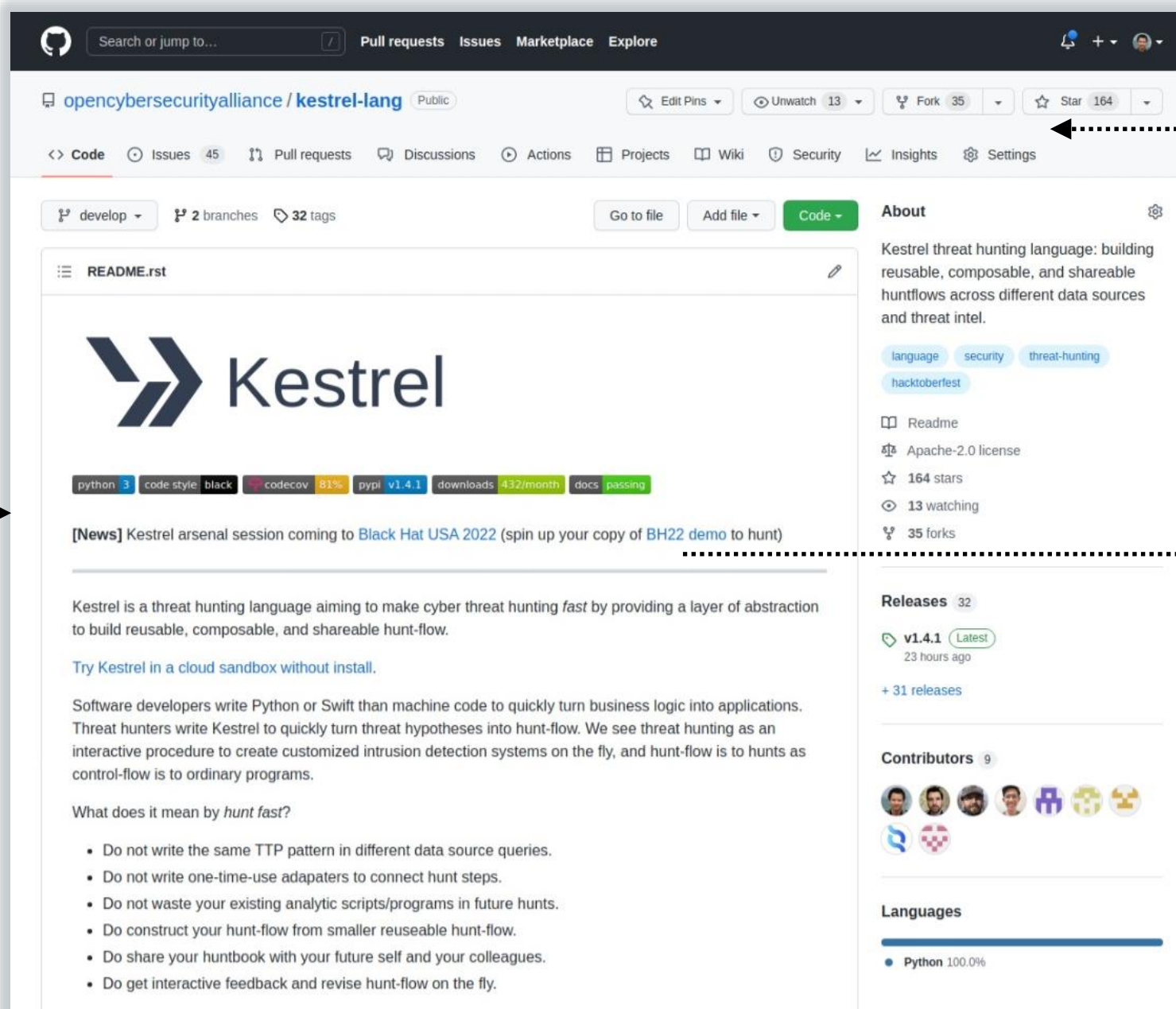
Xiaokui Shu, Paul Coccoli, Ian Molloy, Jiyong Jang

IBM Research & IBM Security

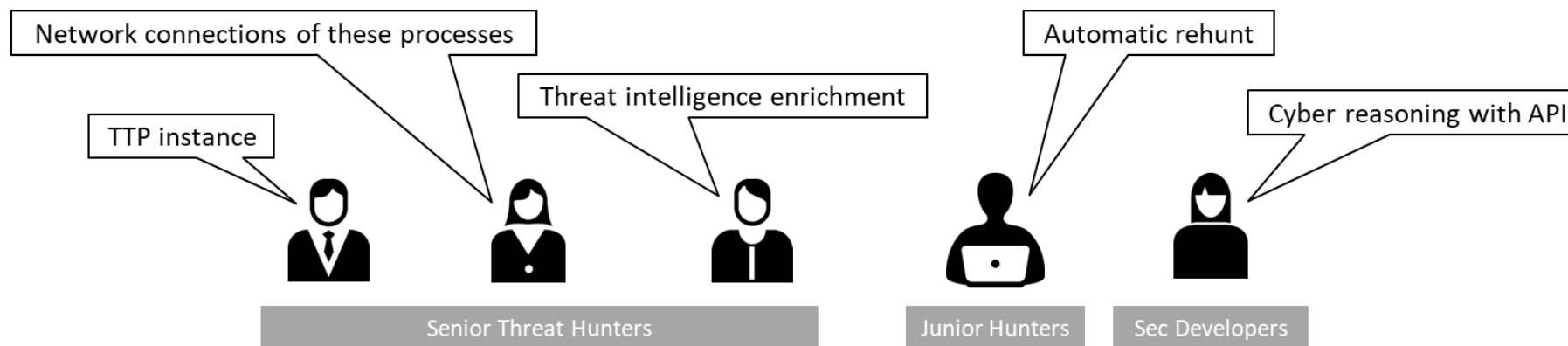
<https://github.com/opencybersecurityalliance/kestrel-lang>

1. search *kestrel lang*

3. **star** us



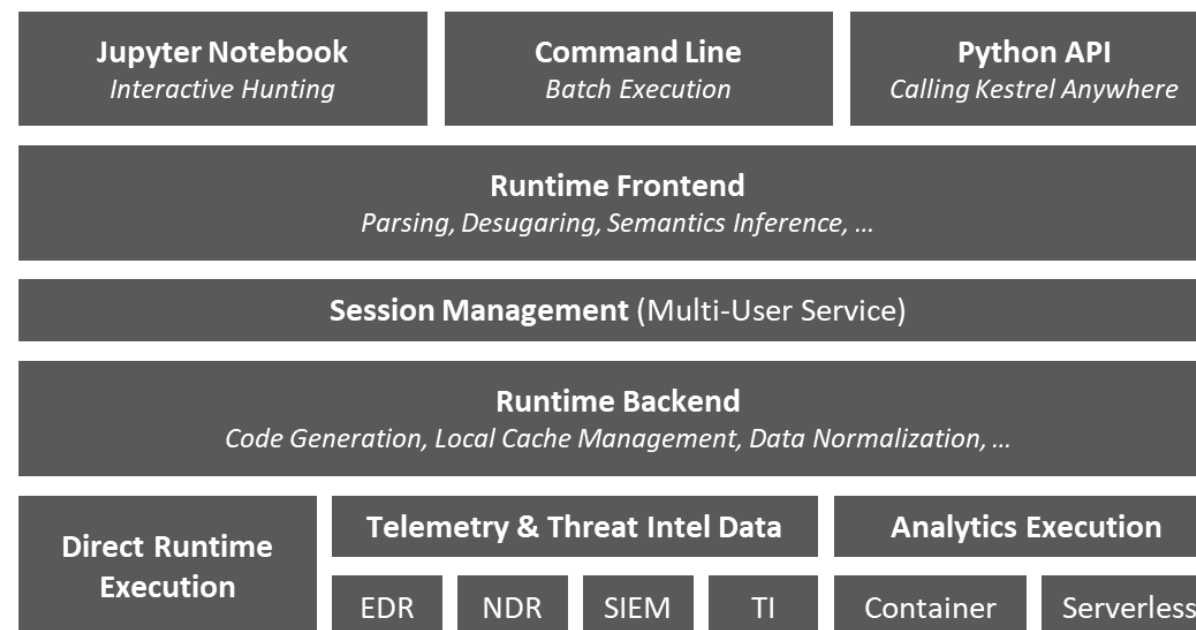
2. **launch** your demo



Hunters talk

WHAT
to hunt

in Kestrel



Kestrel runtime

figures out

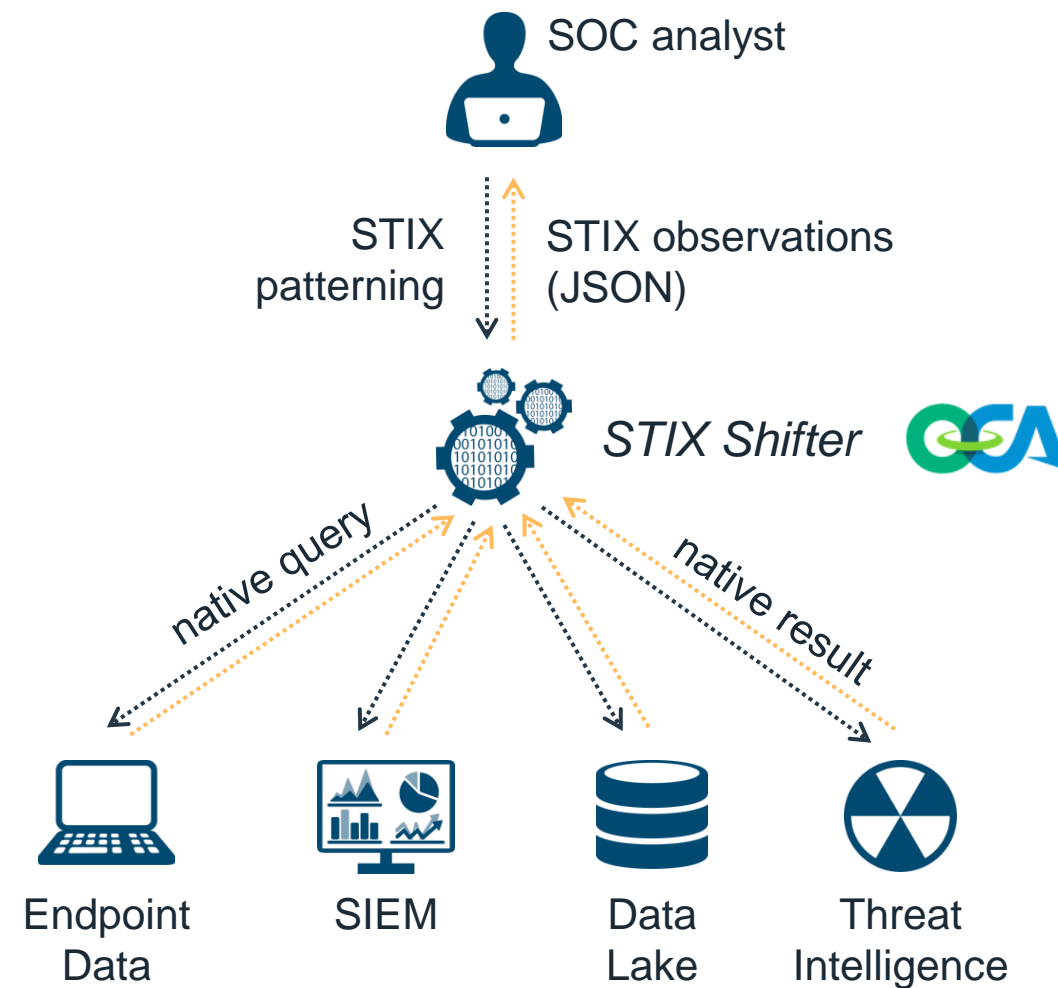
HOW
to hunt

for hunters

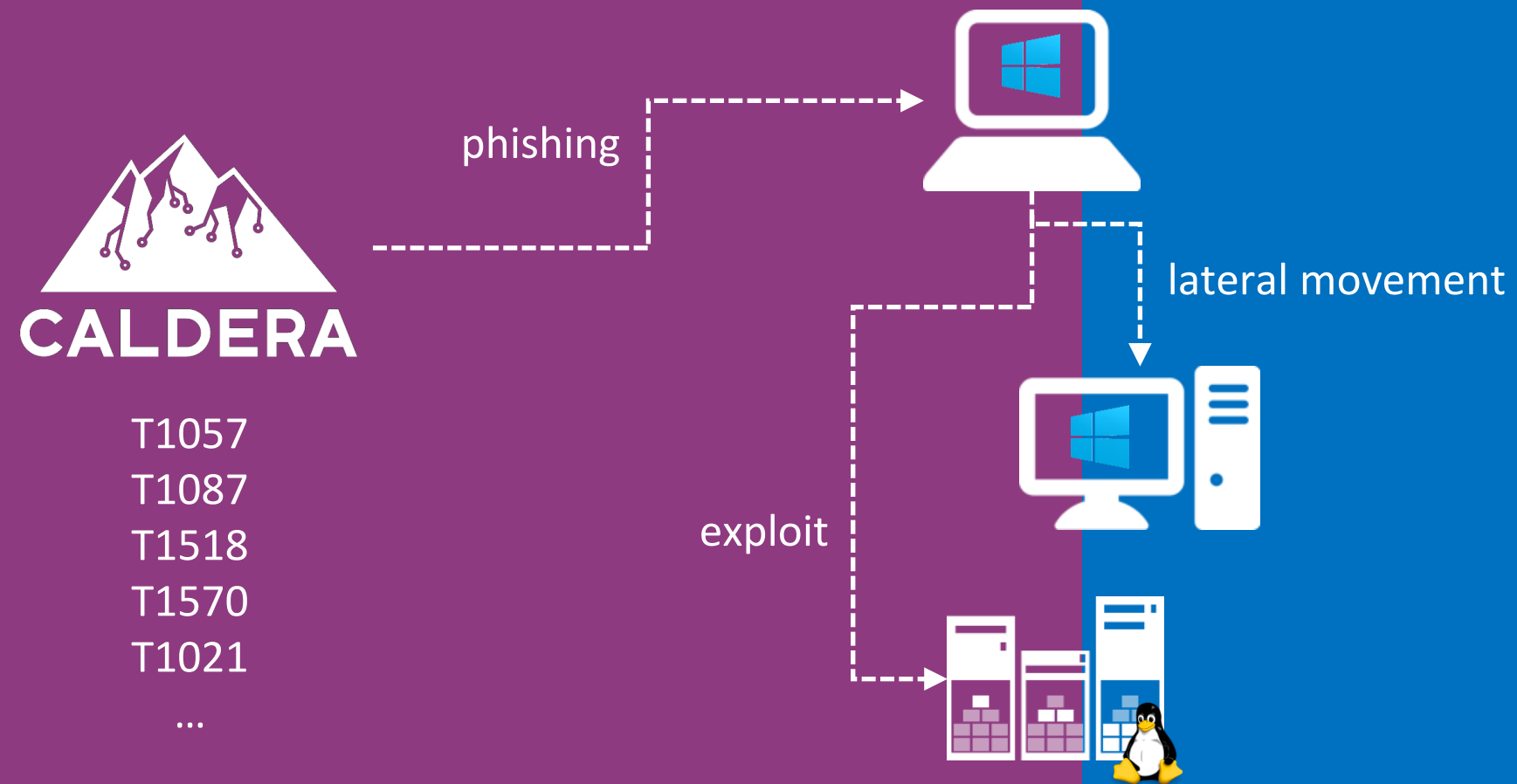
STIX Shifter: a federated search engine

Supported connectors:

Elasticsearch ECS	Microsoft Defender ATP
IBM QRadar	Microsoft Azure Sentinel
IBM Cloud Security Advisor	AWS CloudWatch Logs
IBM Guardium	Amazon Athena
Splunk Enterprise Security	HCL BigFix
Carbon Black Response	Alertflex
Carbon Black Cloud	Micro Focus ArcSight

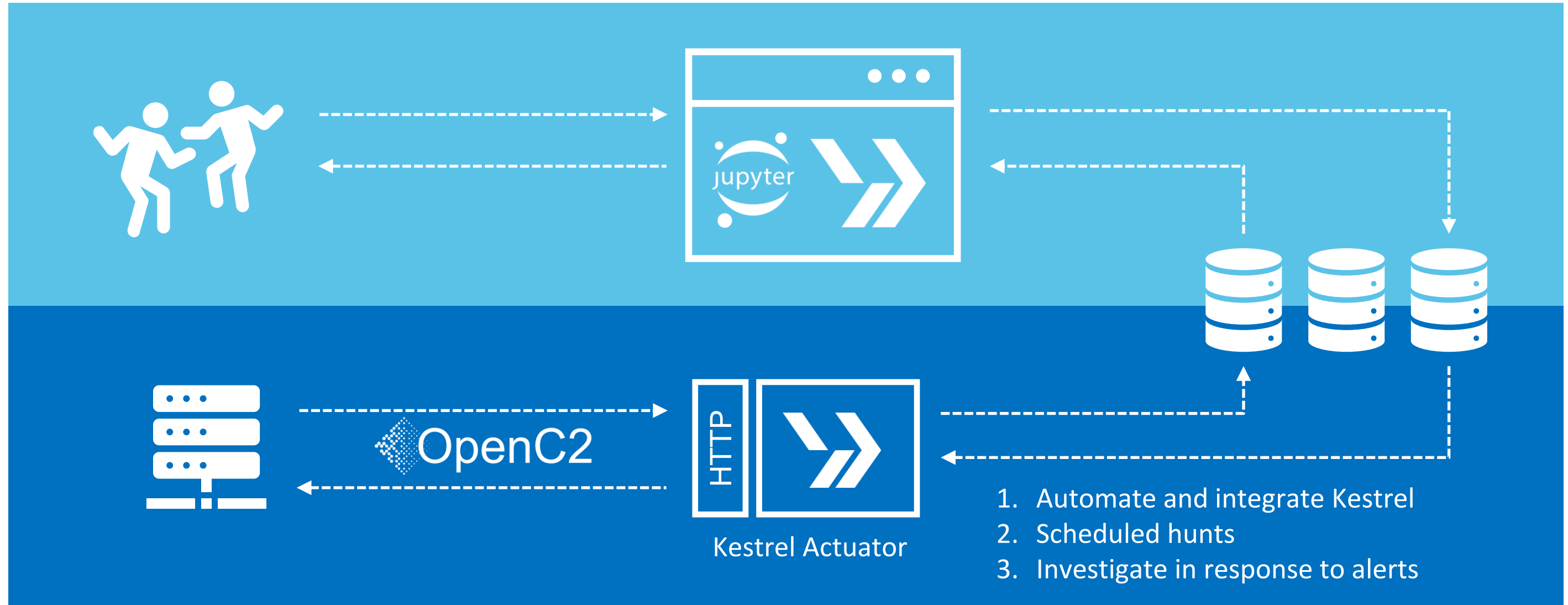


<https://github.com/opencybersecurityalliance/stix-shifter>



Blue team tasks

1. Search for TTPs
2. Discover campaign
3. Apply analytics
4. OpenC2 automation



Thank you!

Jamie Clark
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- DARPA Transparent Computing (TC)²
- DARPA Cyber Hunting at Scale (CHASE)³

¹ <https://opencybersecurityalliance.org/>

² <https://www.darpa.mil/program/transparent-computing>

³ <https://www.darpa.mil/program/cyber-hunting-at-scale>