

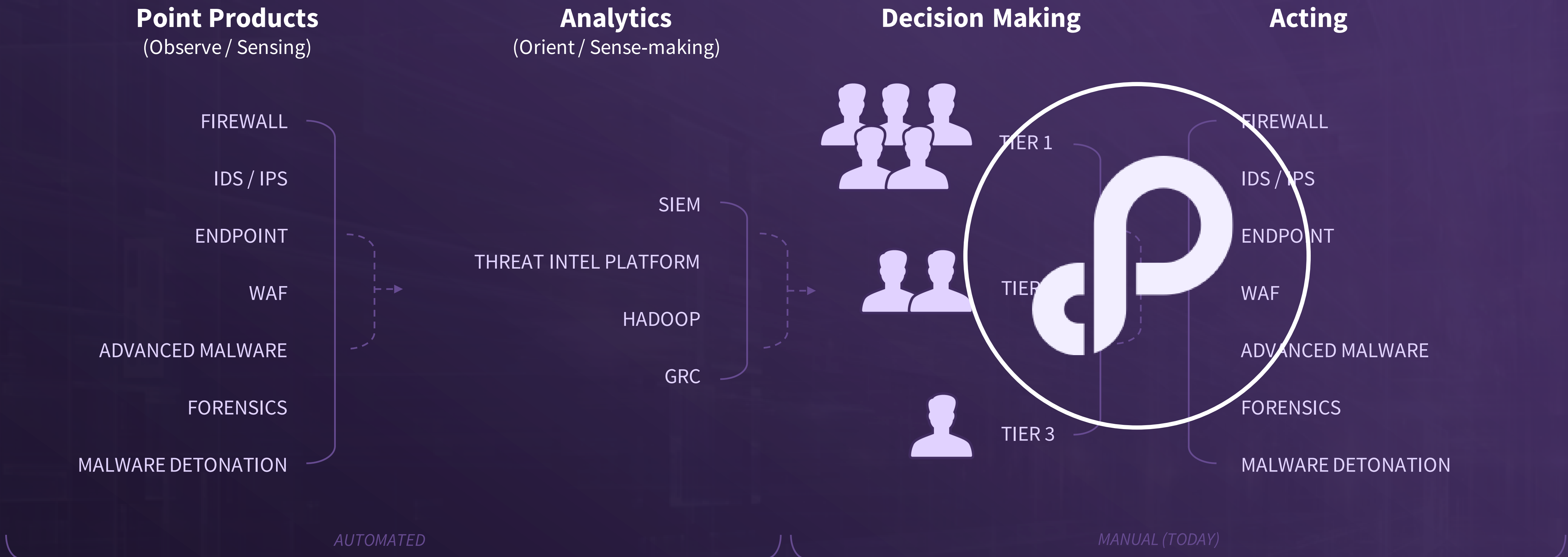


Purpose and Use of Message Fabric

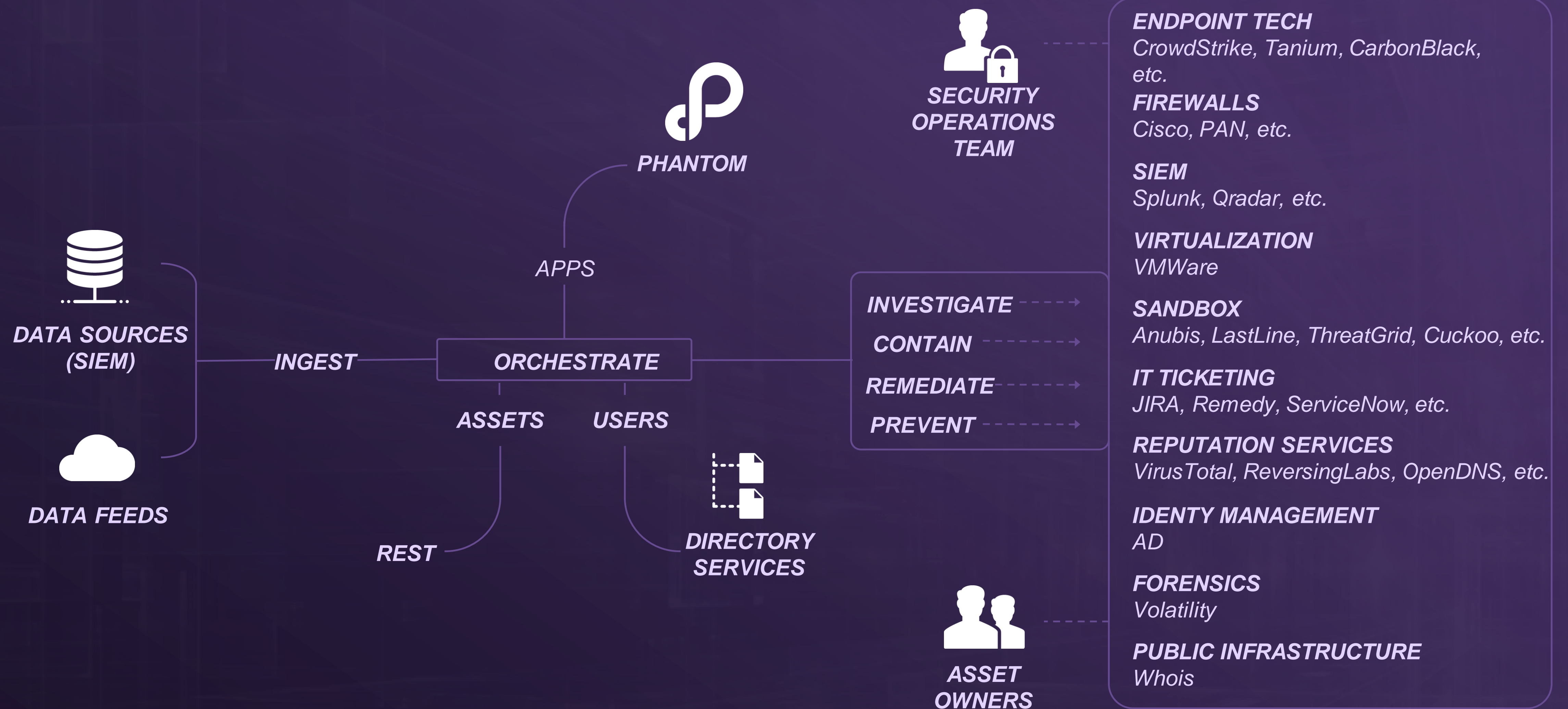
Sourabh Satish
Co-Founder and CTO

sourabh@phantom.us

Automating Security Operations



Phantom Key Concepts



Data Movement in Security Automation

Reasons and ways in which data moves in Security Automation and Orchestration platforms

1. Ingestion

- Data is either pulled from data sources
- Data is posted to the platform

2. Response Actions

- Investigate, Contain, Remediate, Other
 - Authorizations and Approvals

3. Action Results and Resolution

Role of Message Bus and Services

1. Scalability

2. Resiliency

- Large scale deployments and performance/reliability demands require **componentized** and **hierarchical** deployments.
- In most enterprises there are hundreds of control points, security products and complex overlay networks that must be connected to orchestrate a comprehensive response.

Message Bus Architectures present a very unique opportunity for orchestration platforms to overcome these challenges

e.g. – mutual authentication, scalability, et.

Message Bus for Security Automation

Attributes of a Message Bus Solution for Security Automation:

- **SECURITY / TRUST**

- Authenticated Publisher and Subscribers
 - Who can publish and who can subscribe what kinds of messages?
- Integrity and Verification of messages
 - signed messages

- **SENSITIVITY / CONFIDENTIALITY**

- Full support for Traffic Light Protocol (TLP)
 - Not all subscribers should be able to see all levels of messages

Message Bus – other ‘desired’ attributes

- **Severity for prioritization of Messages**
 - Security events are often very time sensitive and response needs can vary in urgency (depending on phase of an attack aka. ‘Kill chain’)
- **Message TTL (life span)**
 - Certain Messages (especially response actions) need to have ‘life span’ specified since they are only valid for a limited time span

Challenges

- Security vendors/products are sensitive (and hence passive-aggressive) to features that lead them down the path of commoditization!
- Enterprises will not upgrade to latest and best version overnight and hence a heterogeneous environment will exist and will need protection meanwhile
- Message Format (IOCs, COA, etc.) standardization will take a while to materialize from standards to implementations.

Connect with Phantom

blog.phantom.us



[@TryPhantom](https://twitter.com/TryPhantom)



announce+subscribe@phantom.us

Thank you!
Sourabh Satish
sourabh@phantom.us