

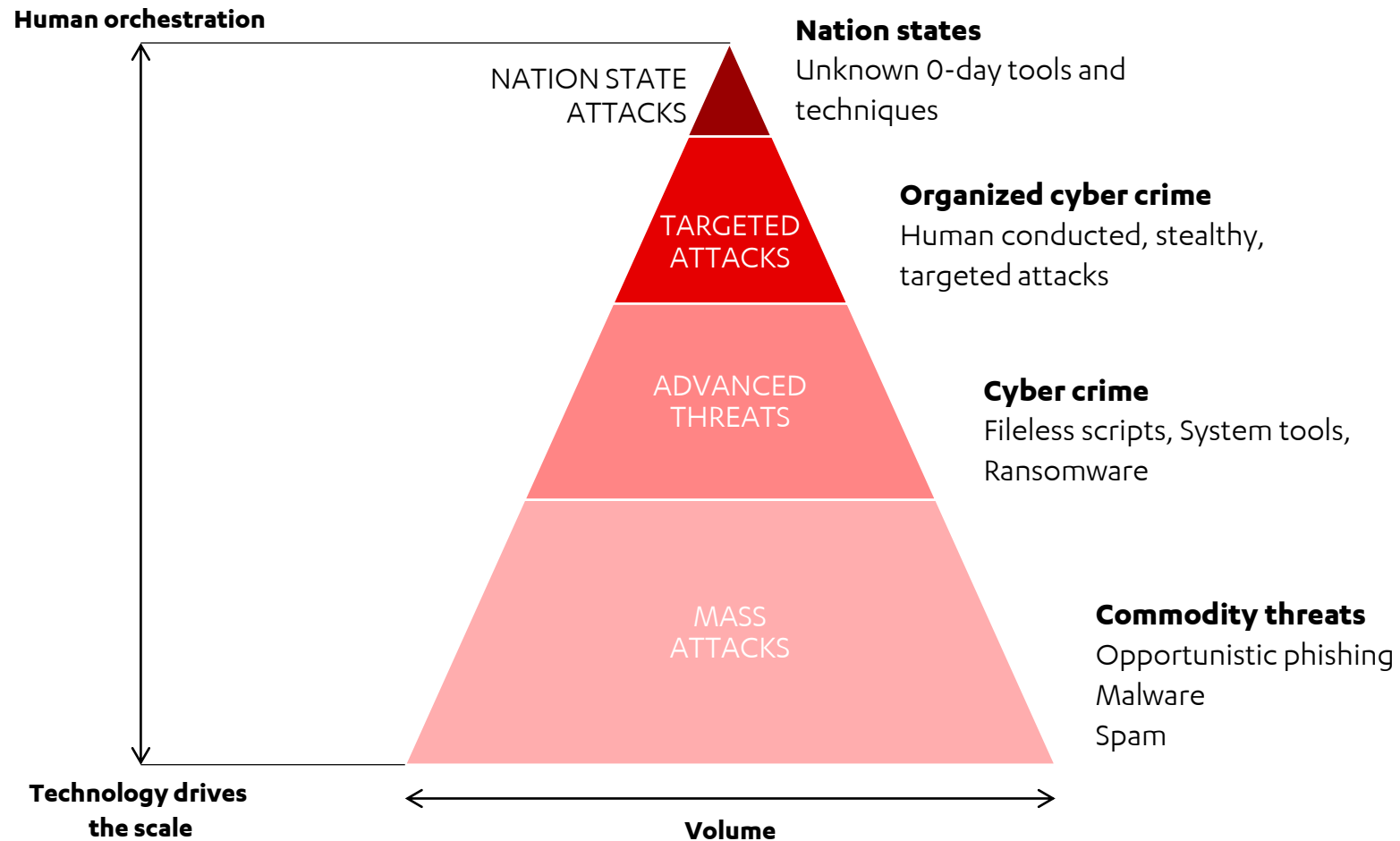
TECHNOLOGY

F-SECURE'S UNIQUE CAPABILITIES IN DETECTION & RESPONSE

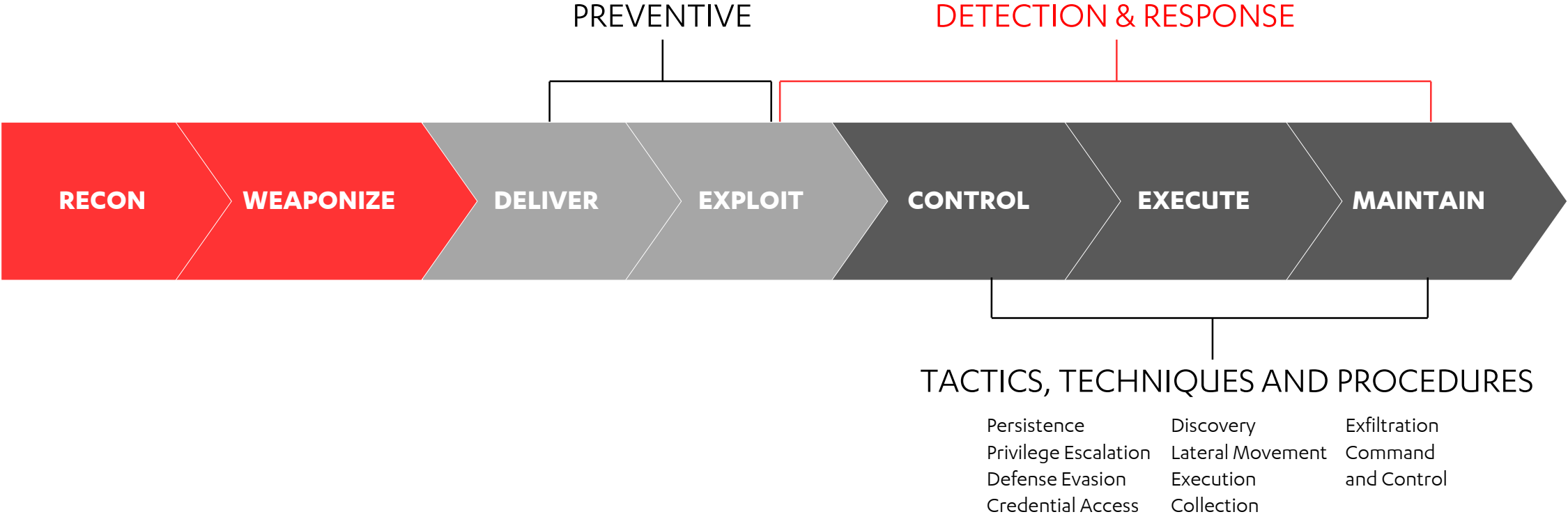
Jyrki Tulokas, EVP, Cyber security products & services

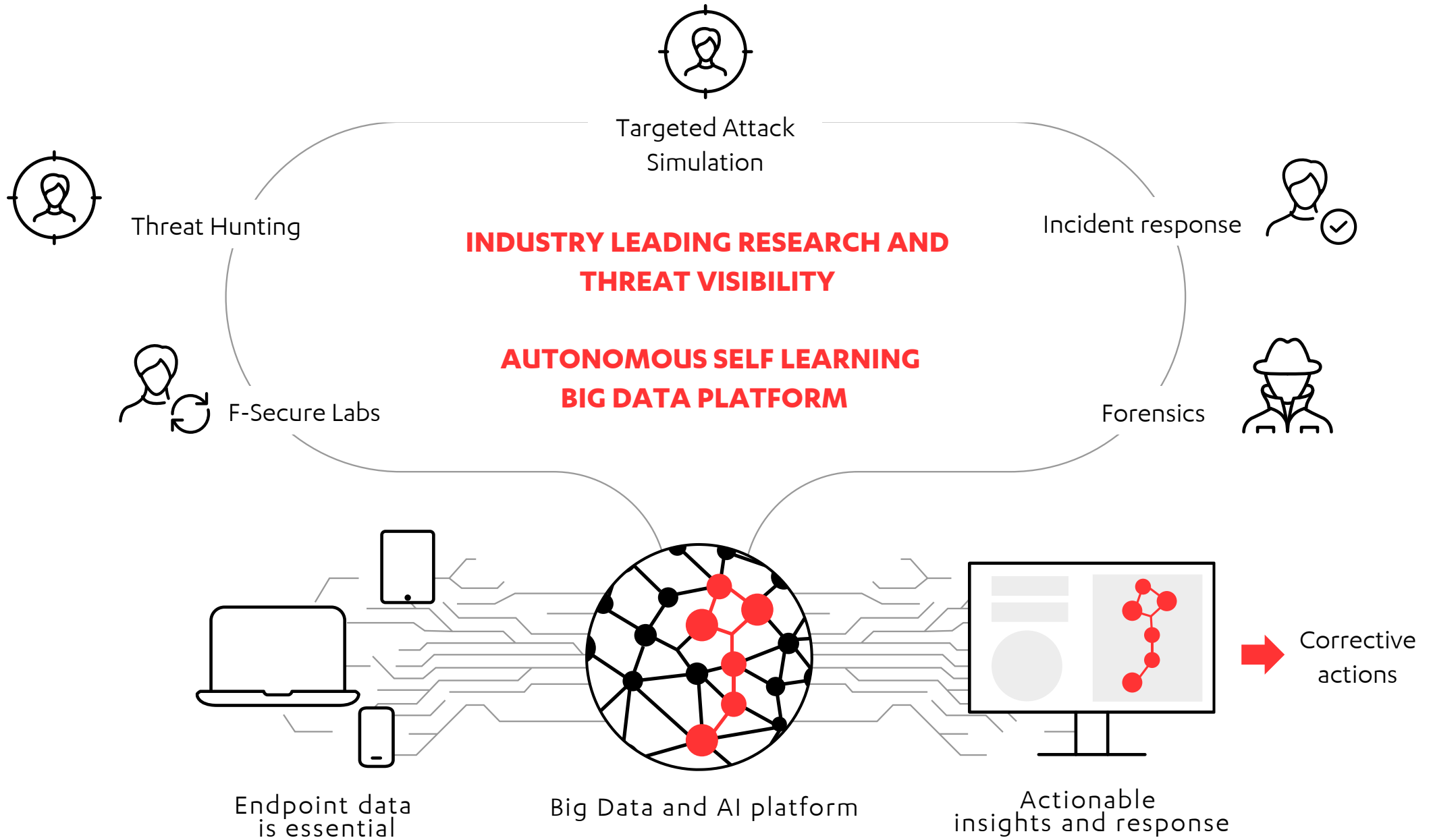


UNDERSTANDING THE THREAT LANDSCAPE



CUSTOMERS CONTINUE TO NEED BOTH PREVENTIVE AND REACTIVE CAPABILITIES



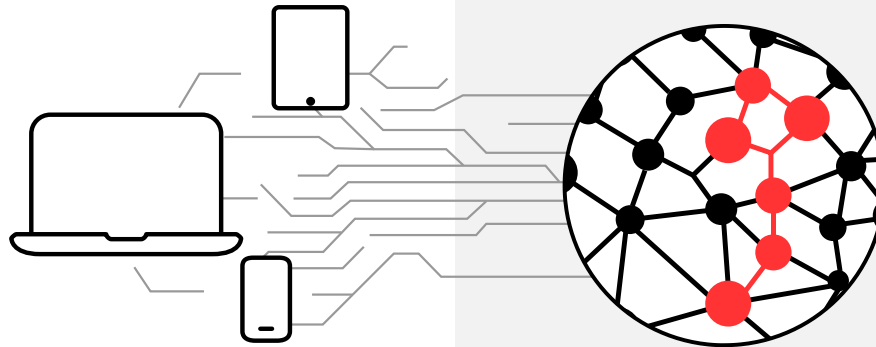


AUTONOMOUS BIG DATA DETECTION & RESPONSE PLATFORM BUILT FOR MASSIVE SCALE

DATA COLLECTION SENSORS

The endpoint sensors collect :

- ✓ file accesses;
- ✓ process creations;
- ✓ network connections;
- ✓ registry writes;
- ✓ system log entries relevant to detecting security breaches;
- ✓ extracts of scripts derived from run-time execution;



66 BN
EVENTS/MONTH

REAL-TIME ANALYTICS IN THE CLOUD

Cloud used for analytics:

- ✓ Machine learning
- ✓ Broad Context Detection™
- ✓ Automatic analysis, categorization and detection creation
- ✓ Telemetry of the attacks shared in real-time with our security cloud
- ✓ Long-term view to threat propagation

A SELF-LEARNING AI PLATFORM ALREADY PROVEN ON THE MARKET

SUPERVISED ML MODULES

- Detecting threats based on training data
- Learning from expert feedback

UNSUPERVISED ML MODULES

- User/host profiling
- Anomaly detection

DATA TRANSFORMATION

- Advanced visualization
- Intelligently clusters anomalies



RESULT: INDUSTRY'S FASTEST AND MOST ACCURATE DETECTIONS

2 billion
DATA EVENTS/MONTH

900,000
SUSPICIOUS EVENTS

- Event enrichment
- Host & User Profiling
- Anomaly Detection
- Detection Significance Analysis

25
DETECTIONS

Detections of
which customer
was notified.

15
REAL THREATS

Customer confirmed
that these were
real threats

F-SECURE COUNTERCEPT: HUMAN AUGMENTED TECHNOLOGY, DEEP INSIGHT TO TARGETED ATTACKS

The screenshot displays the F-Secure Countercept interface. On the left is a navigation sidebar with options like EXPLORE, ASSISTED HUNTS, SUSPICIOUS ACTIVITY, TAG CONFIGURATION, INVESTIGATE/RESPOND, ENDPOINTS, and CONFIG. The main area is titled 'EXPLORE' and shows a search for 'ZABBIX-WIN10-X6' for 'This month'. A table of results is displayed with columns for Host Name, Scan Result Type, Event Type, Process Name, First Seen Agent, and Last Seen Agent. The table contains 10 rows of data.

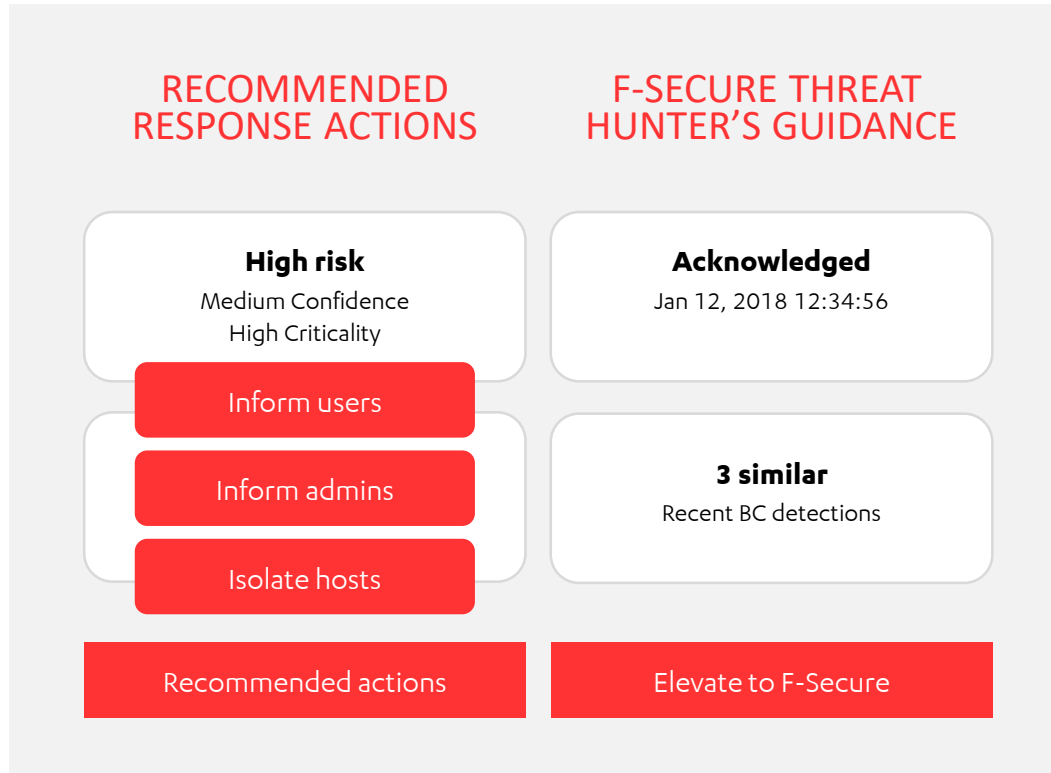
Host Name	Scan Result Type	Event Type	Process Name	First Seen Agent	Last Seen Agent
ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	
ZABBIX-WIN10-X6	ProcessInfo	Deleted	WmiPrvSE	2018-08-01T11:39:45.6508703	2018-08-01T11:21:10
ZABBIX-WIN10-X6	ProcessInfo	Created	WmiPrvSE	2018-08-01T11:39:45.6508703	
ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	
ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	
ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	
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ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	
ZABBIX-WIN10-X6	ProcessInfo	Changed	Idle	2018-07-09T08:30:23.1821288	

The **hunt team** use 'Explore' and 'Investigate/Respond'. They create new 'assisted hunts' and tags which propagate to all other instances of THP including those used by our clients and our own 24/7 detection and response team.

AVAILABLE IN THREE MODELS:

- As a service
- Assisted
- Customer specific

TOWARD SELF-HEALING SYSTEMS AND GUIDED RESPONSE



- Recommends **response actions** of informing users, or **isolating hosts**
- Get help on tough investigations from F-Secure experts with **Elevate to F-Secure**
- Constantly improves recommendations and detections with **machine learning**

SUMMARY

- Aiming to be a key player in detection and response technology and services
- Best-in-class integrated cyber security suite
- Scalability through managed services partners
- Security for the cloudified world

