

The New Security Frontier:

Threat Hunting, Augmented Intelligence, and Automated Response

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"We need help analyzing huge amounts of information in real-time to identify trends and useful information for more actionable insights."



Detect & Stop Advanced Threats



Orchestrate
Incident Response



Master
Threat Hunting





Josh L1 Threat Analyst

- Monitor incoming incidents detected by the organization's SIEM
- Initial threat investigation
- Detect and close false positive or erroneous incidents
- Escalate potentially serious security incidents to tier 2 analysts for triage using incident response system



Saima L2 Triage Analyst

- Triage threats, analyzing incidents passed from tier 1 analysts
- Promote security incidents for response and additional escalation
- Determine threat root cause using advanced analytics skills



James L3 Analyst

- * Incident Response Automate/orchestratin g workflows, notifications and reporting
- * Forensics
 Further analyze finding from L2 Analyst to better determine causation.
- * Threat Hunting
 Use threat intelligence,
 analysis of anomalous
 log data and results of
 brainstorming sessions
 to detect threat actors



IT / Ops

- Blocks inbound attack traffic and disables user IDs used in attack
- Threat hunting: No internal users involved
- Forensics: no data lost through exfiltration



Sue Sec Ops Manager

- Run smooth security operations
- Reduce false positives, improve productivity
- Plan and supervise the execution of technical security controls to counter identified threats
- Handle high priority situations
- Provide dashboards and metrics that show the security risk posture

Workflow



Advanced Analytics







Cognitive



ENRICH

Threat Hunting





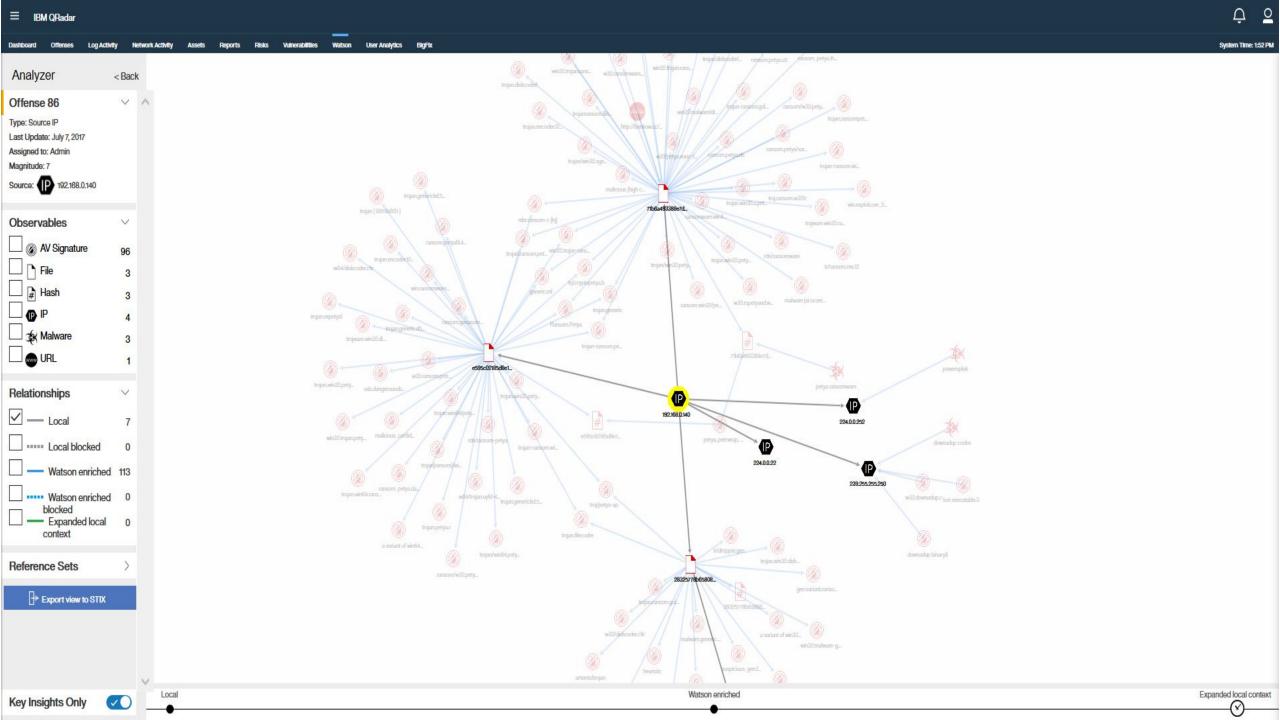
INVESTIGATE

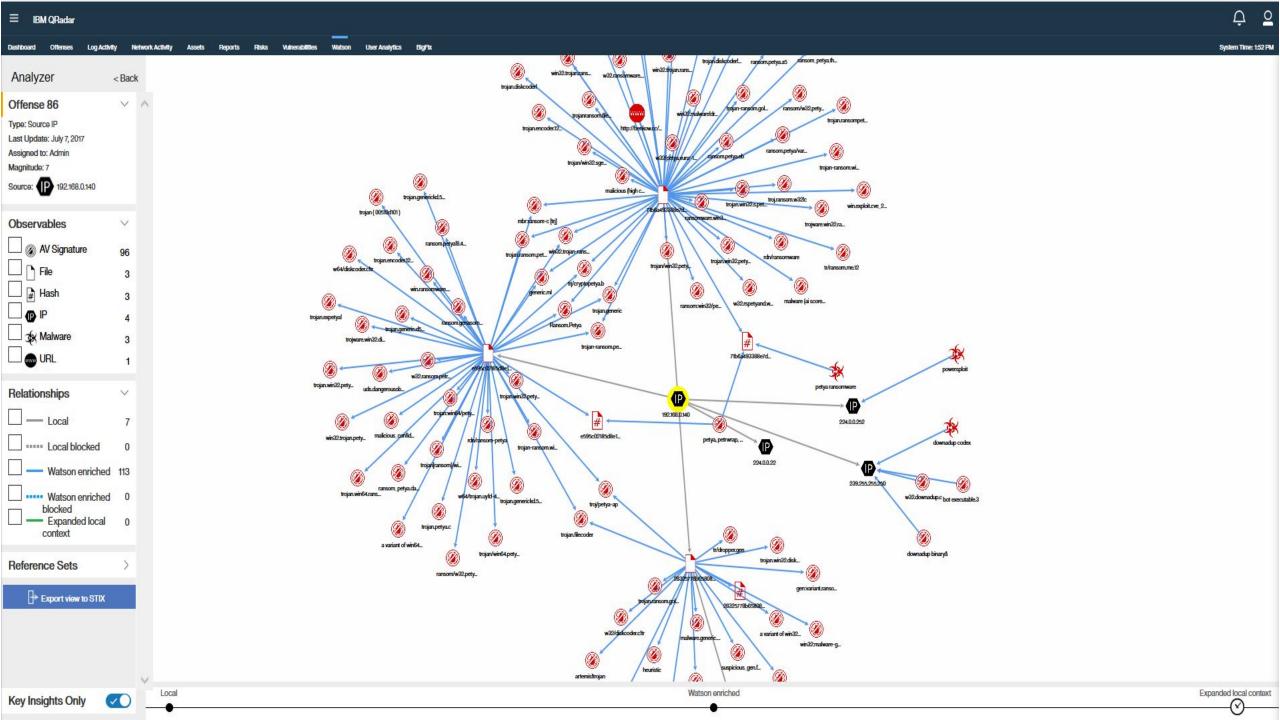


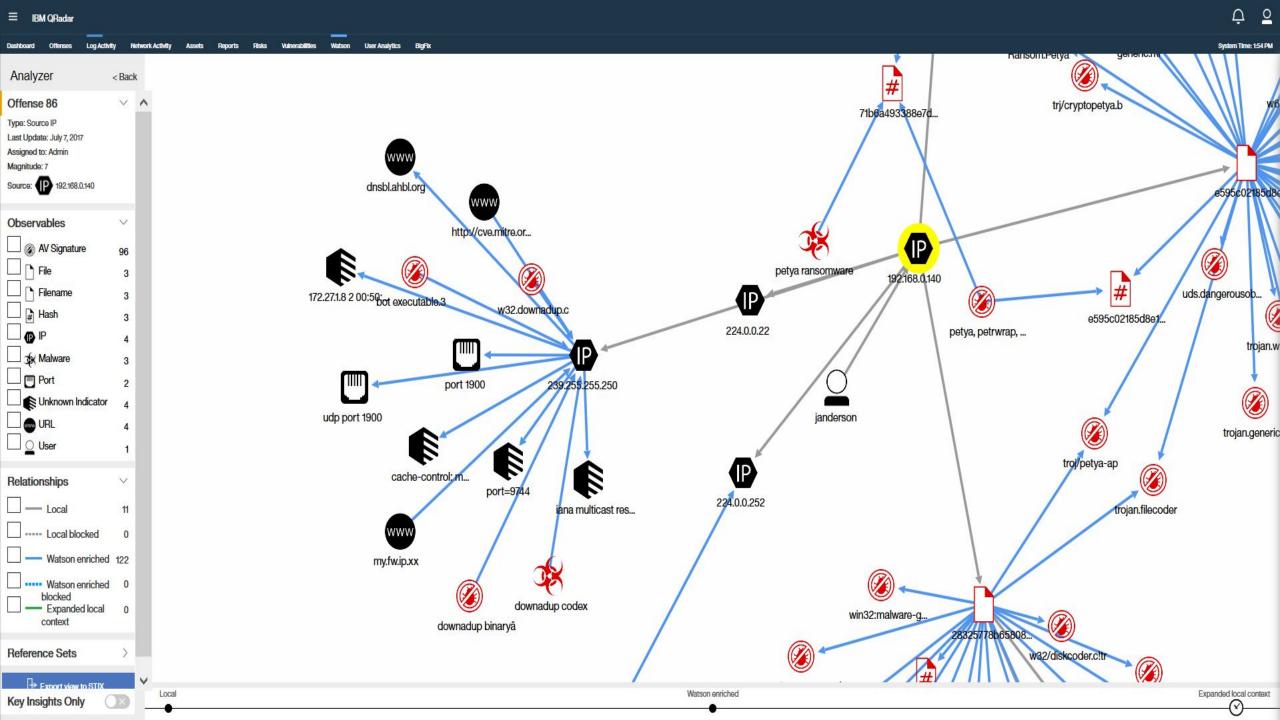
ORCHESTRATE



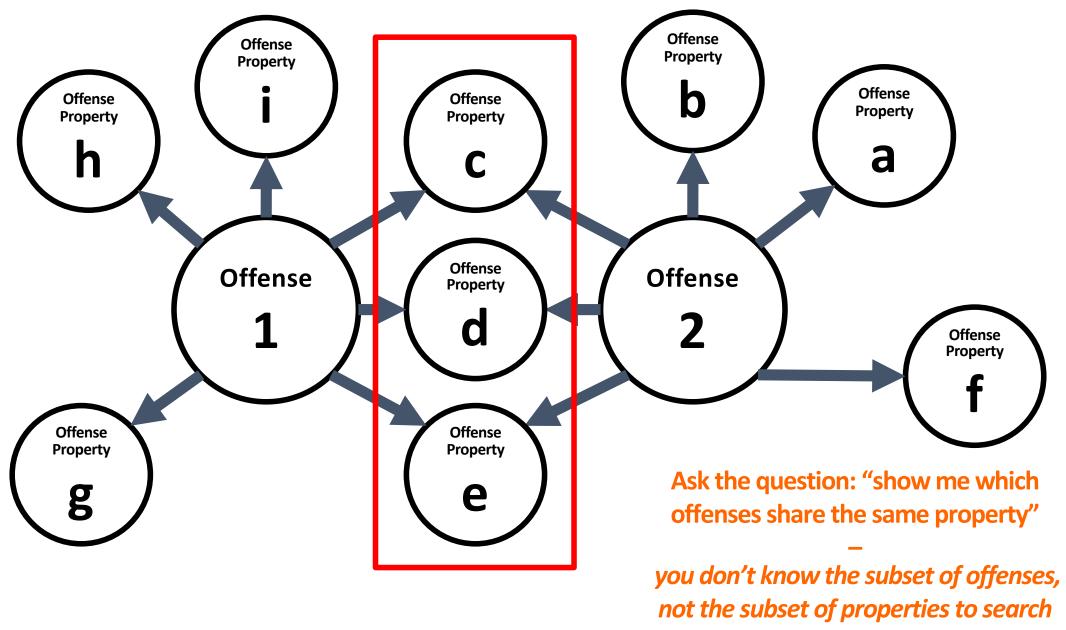


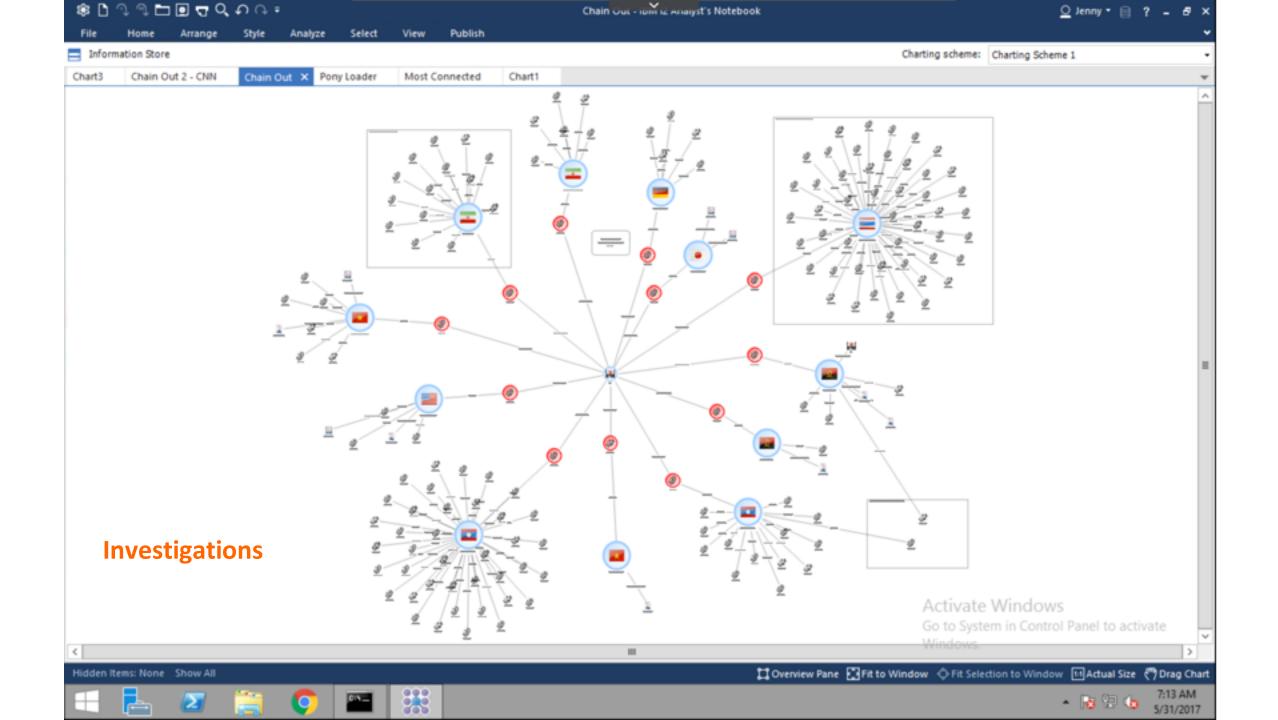


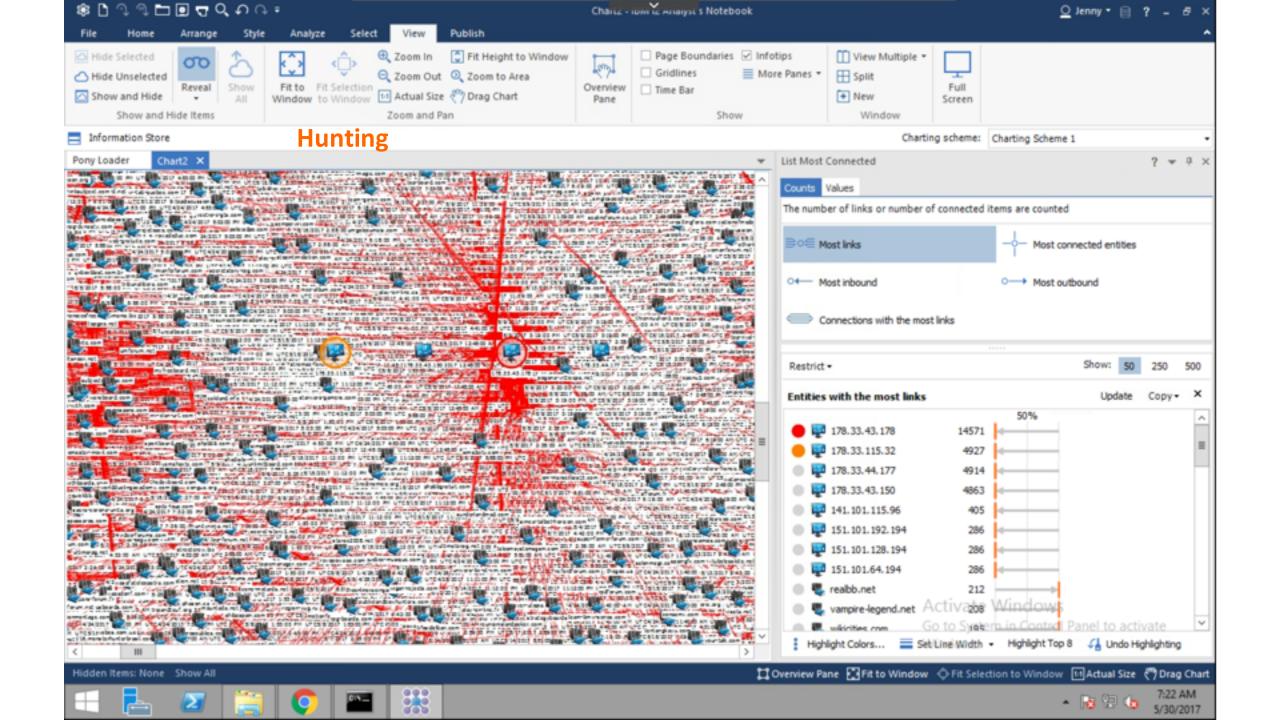




What is an Unknown Unknown Search







Incident Response





Find, fix, and secure endpoints

Prevent advanced network attacks

Use analytics to discover and eliminate threats

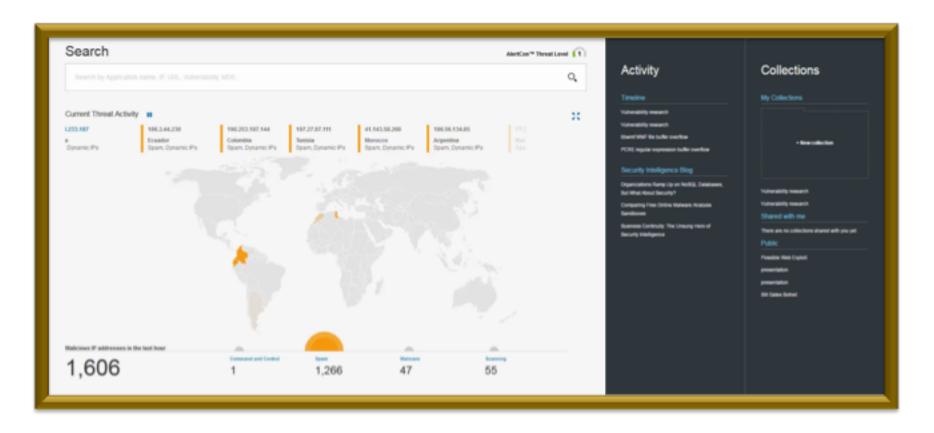
Coordinate response activity

Understand the lates threat actors

Get help from security experts

Gain integrated, real-time threat intelligence

IBM X-Force Exchange



Crowd-sourced information sharing based on 700+TB of threat intelligence https://exchange.xforce.ibmcloud.com



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Shared with me

No Collections are shared with you yet.

Gain integrated, real-time threat intelligence

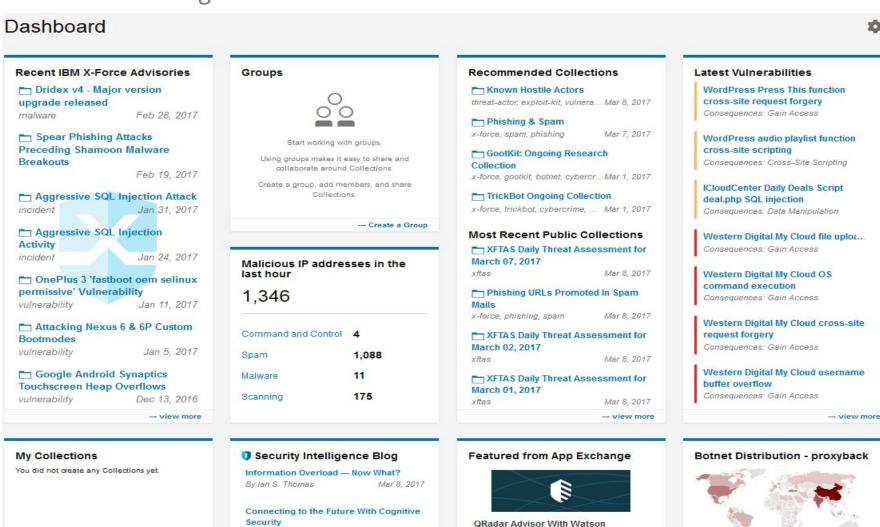
IBM X-Force Exchange – Tailored Dashboards

By David Jarvis

By Vikalp Nagori

Step Toward Innovati...

Hybrid Cloud Adoption: The Logical Next



Mar 8, 2017

Mar 8, 2017

Enrich security incidents with insights from

Watson to rapidly respond to threats.

Affected Countries

Trend

Peak

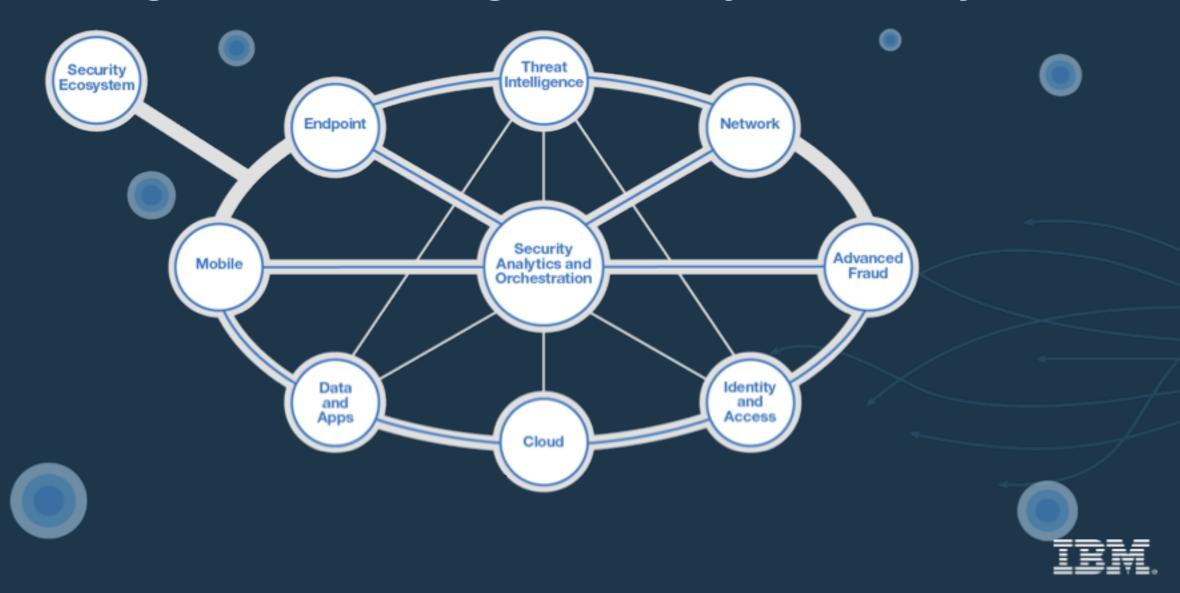
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Mar 6, 2017



An integrated and intelligent security immune system





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