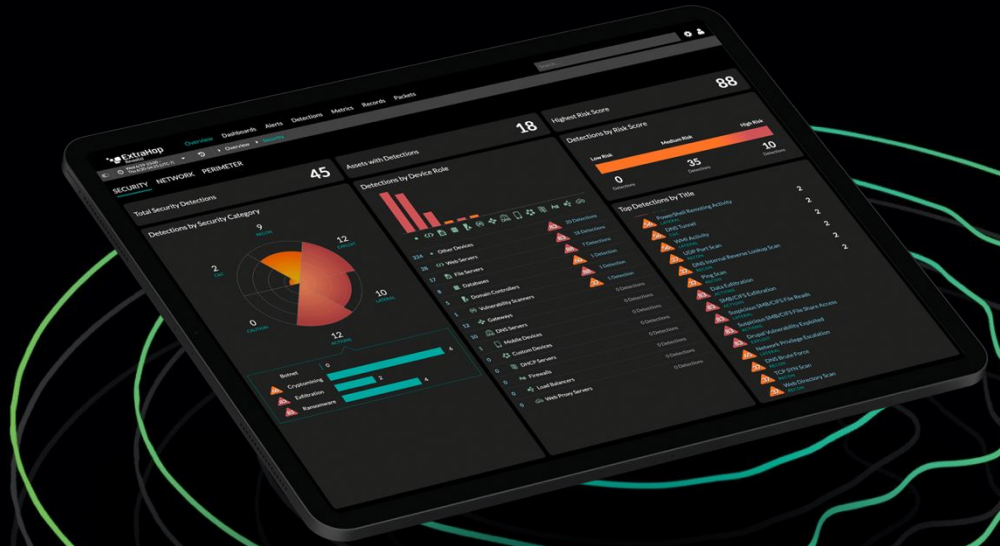
ExtraHop

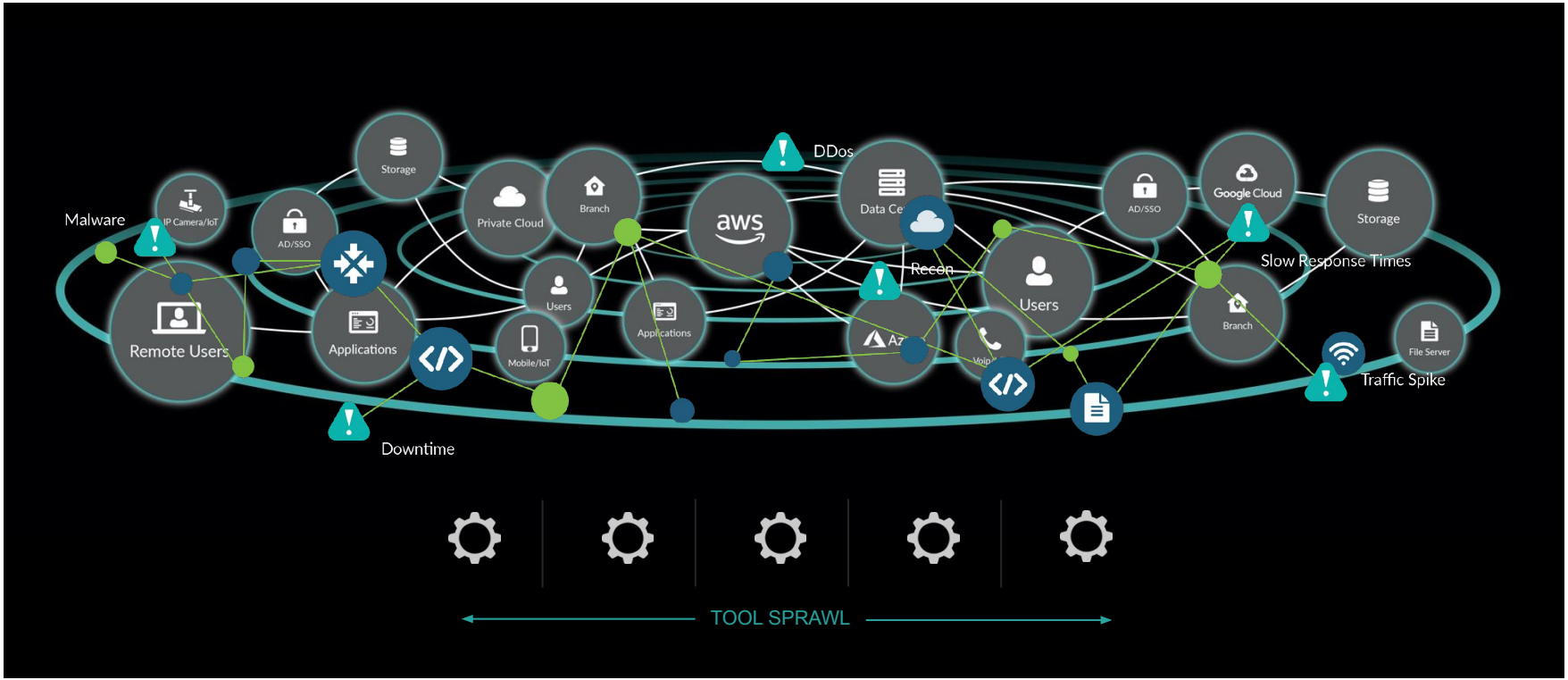
High-Speed Anomalie-Erkennung

mit Network Detection & Response (NDR)



Enterprise Complexity is the New Reality

Noise Doesn't Have To Be



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There is Real Cost to this Complexity

LACK OF VISIBILITY

70%

of the attack surface is opaque and not covered by agents or logging

COSTLY MISCONFIGURATIONS

$5T

estimated cost of cloud misconfigurations in 2018-2019

UNACCEPTABLE DETECTION

78 days

average threat dwell time in the enterprise

LACK OF COLLABORATION

70%

don't share knowledge/resources

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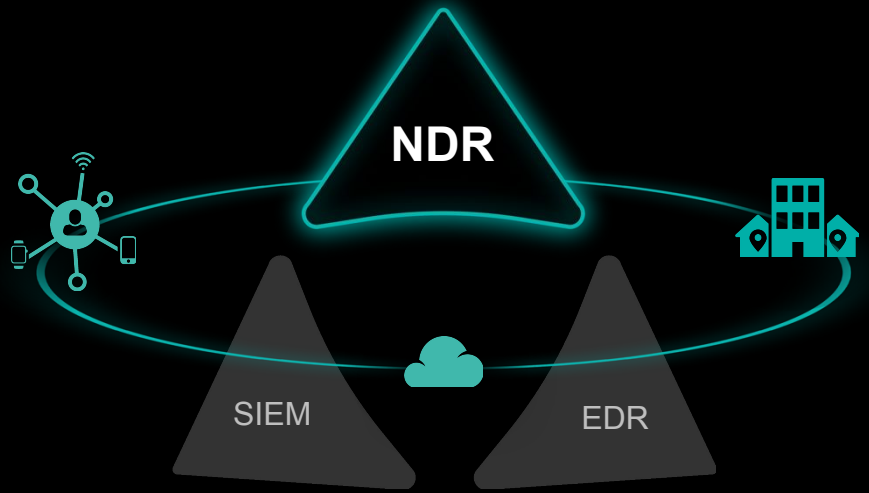
NDR is the Signal in the Noise

Complete Visibility Across East-West and North-South



COMPLETE VISIBILITY

REAL-TIME DETECTION

INTELLIGENT RESPONSE

> Network-based detection tools got the highest levels of satisfaction when compared against other detection approaches.
>
> 2019 SANS SOC SURVEY RESULTS

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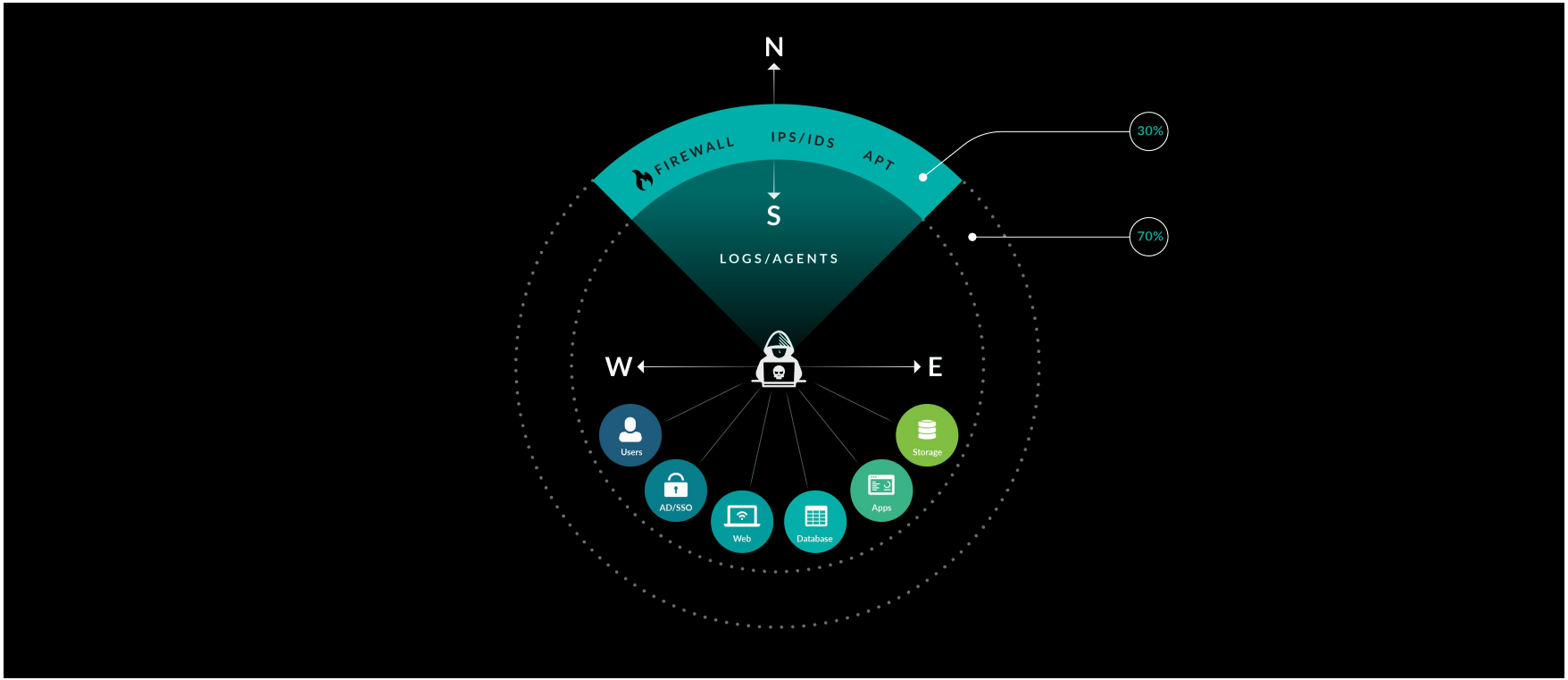
Security in a Post-Compromise World

Covering the Four Corners of the Attack Surface: North, South, East, West



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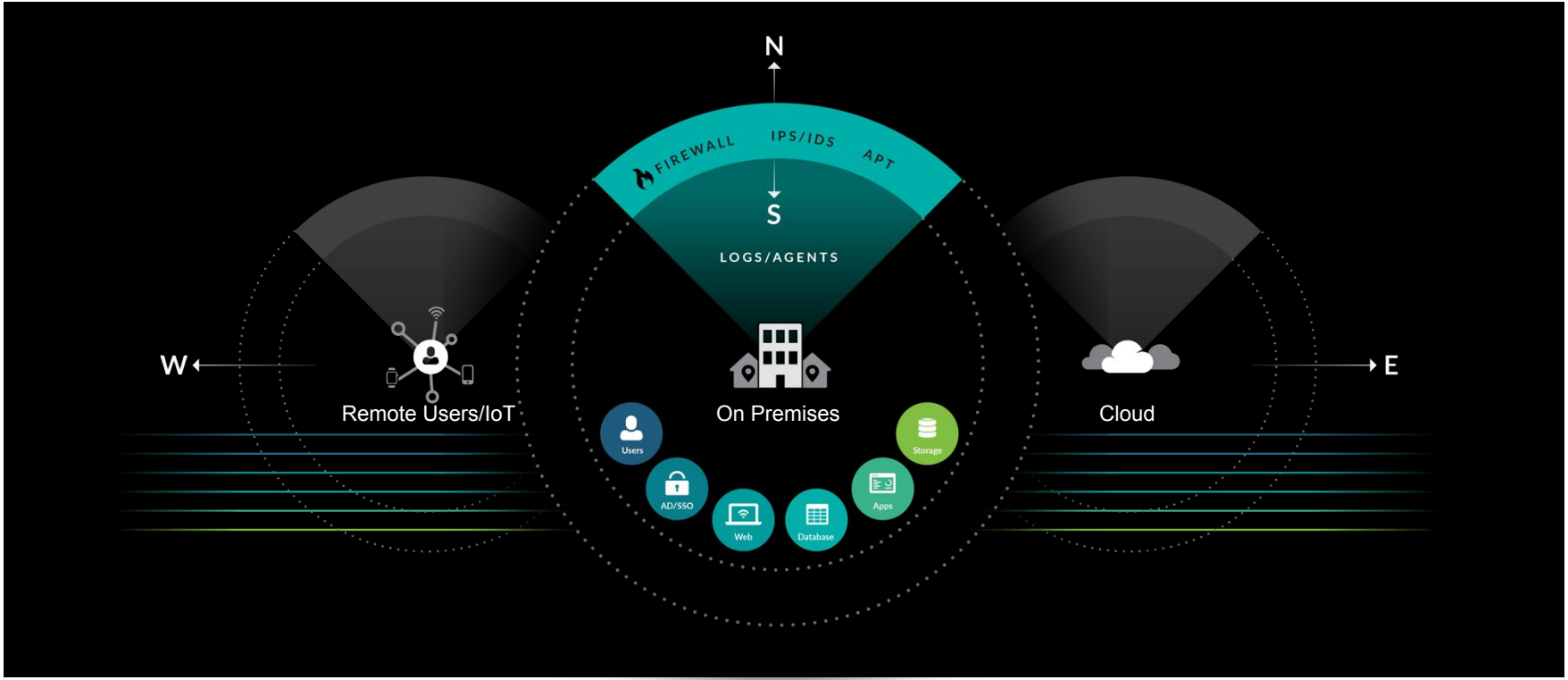

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But Can’t My

“ ”

Do That?

EDR
Not everywhere
Deep expertise
Management Complexity

SIEM
Expensive
Incomplete data
Lack of Context

IDPS
Compliant ≠ Secure
False Pos & Neg
Limited Visibility

FORENSICS
Packet-First Approach
Scalability Issues
Limited Detection

> “Nine times out of ten, we know about a problem before any of our users can call to tell us about it.”
>
> CURO FINANCIAL

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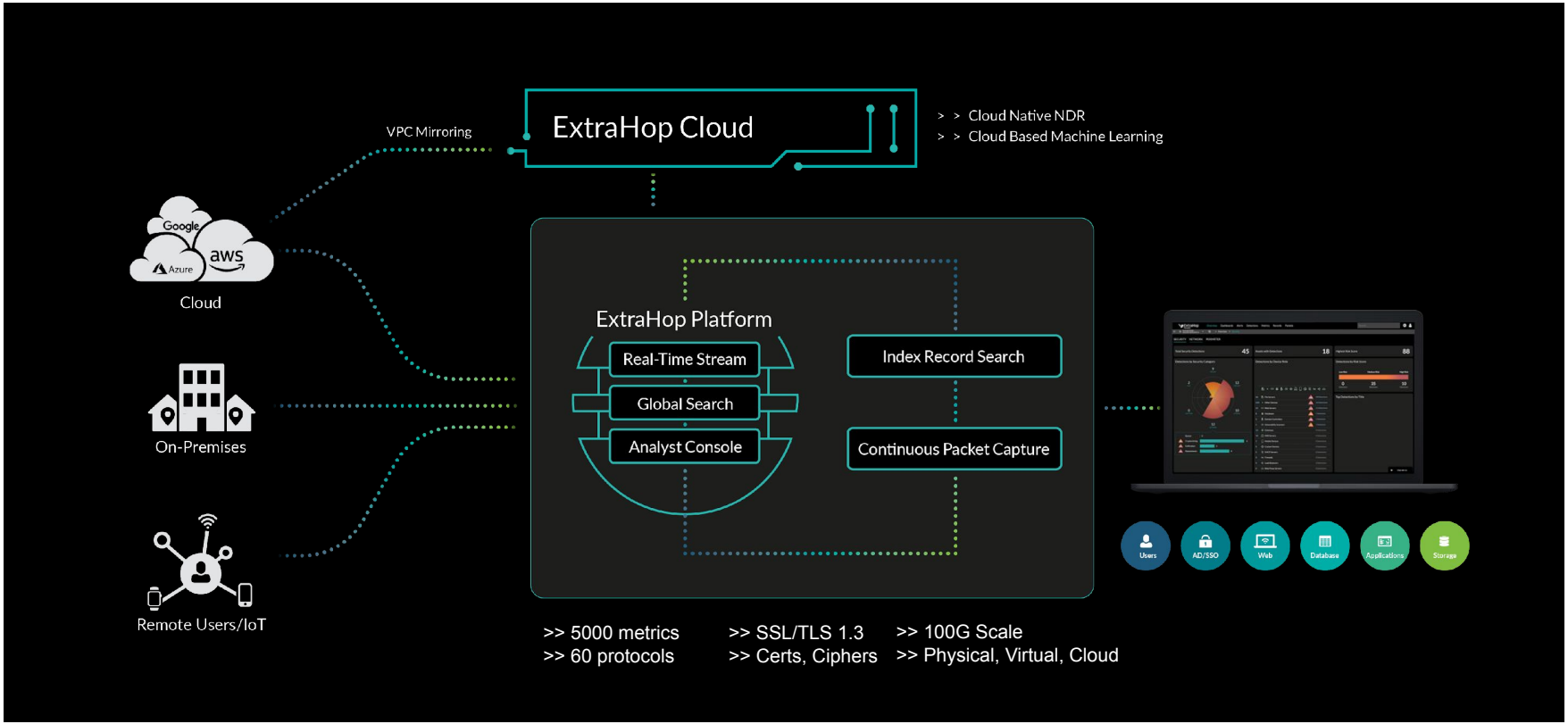
Cloud-Native NDR for the Hybrid Enterprise



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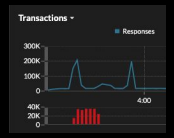
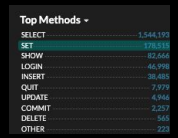
ExtraHop: Depth of Data

Time-Series Metadata
Retention: Months and Years





1,558 Responses

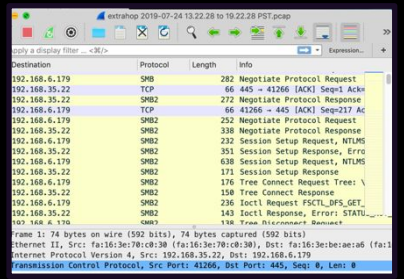
203 Errors

File
\\10.10.10.3\fileshare\accounts\pensions\2014\jan_2014.xls
\\10.10.10.3\fileshare\accounts\pensions\2015\jul_2015.xls
\\10.10.10.3\fileshare\accounts\pensions\2016\jan_2016.xls
\\10.10.10.3\fileshare\accounts\pensions\2016\jul_2016.xls

L7 Protocol	Bytes In	Bytes Out
DNS	108,694	154,526
DHCP	4,264	4,784
udp:161	440	670
RADIUS	96	0

IP	Bytes In ↓	Bytes Out
172.24.1.80	70,420	95,149
172.24.1.81	42,498	64,161
192.168.35.22	2,380	698

Raw Original Packets
Retention: Hours and Days



Transactional Metadata
Retention: Days and Weeks

Time ↓	Record Type	Client IPv4 Address	Server IP...	Server	Status Code	Method	URI
2019-09-10 07:24:59.994	HTTP	196.228.169.122	172.23.1.8	web1.londmz.exan	200	GET	demo.example.com:8080/ecomapp/actions/Catalog.action
2019-09-10 07:24:59.667	HTTP	205.79.181.188	172.22.1.9	VMware B84943	200	POST	orbital.example.com:443/AUTHORIZE
2019-09-10 07:24:59.581	HTTP	209.227.237.14	172.22.1.8	web1.nycdmz.exan	200	GET	demo.example.com:8080/ecomapp/actions/Cart.action
2019-09-10 07:24:59.491	HTTP	163.217.145.62	172.24.1.8	web1.syddmz.exan	200	GET	demo.example.com:8080/ecomapp/admin/

Less Granular

Very Granular

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ML and AI is hard

Chiuahua or Muffin?

Puppy or Bagel?

Labradoodle or Fried Chicken?

Parrot or Guacamole?

Sheepdog or Mop?

Sloth of Pain Au Chocolat?

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ExtraHop Full-Spectrum Detection

HYGIENE

Activity that represents risk: ports, protocols, cryptographic compliance, and vulnerable or non-compliant services.

KNOWN ATTACKS

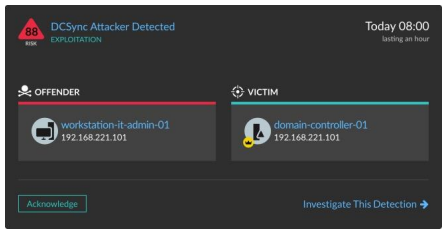
IP addresses, domains, file names, payload strings, or protocol behavior observed in past attacks (including intelligence feeds).

UNKNOWN ATTACKS

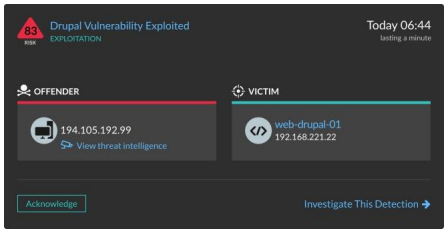
Attacks that do not have a previously known identifier, but exhibit anomalous behavior that can be linked to part of the attack lifecycle.

SPECTRUM OF DETECTION

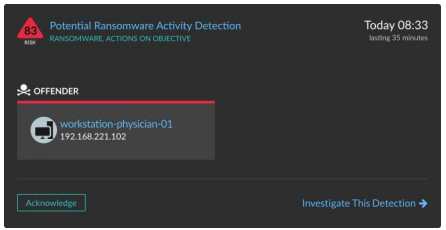
Rule-Based Detection



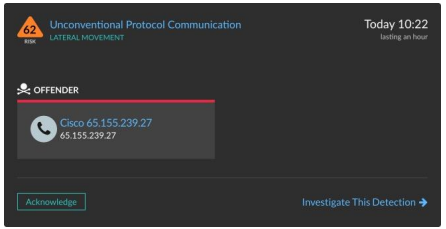
Robust Anomaly Detection



Sophisticated Behavioral Detection



Peer Group Detections



MITRE ATT&CK™ NIST CIS Controls™

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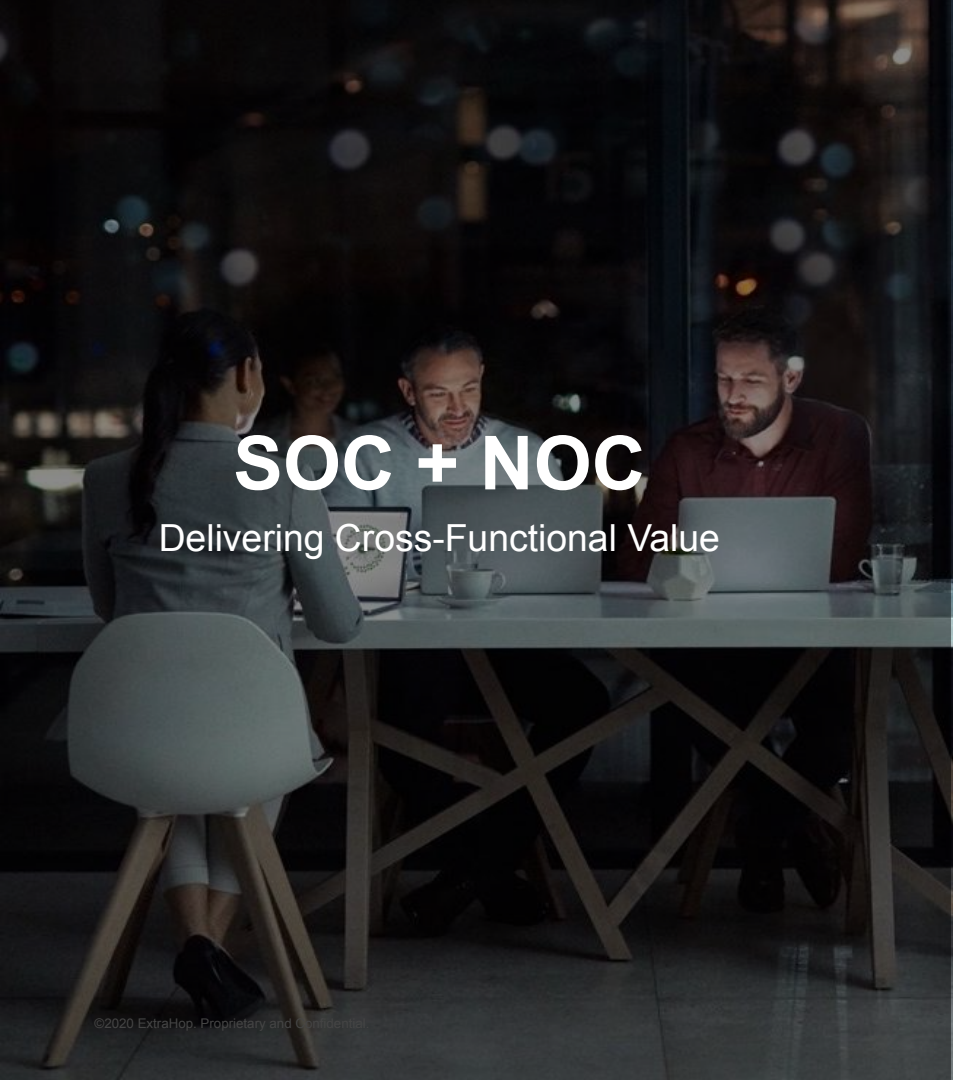

SOC + NOC

Delivering Cross-Functional Value

Better Data, Better Security & IT Operations

Operational Value	Business Value
Visibility	Tool Consolidation
Detections Investigation	Talent
Hygiene	Data Storage
Mitigation	Productivity

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Arming Security and IT Ops Teams to Answer the Tough Questions

In Real time and in Context

SEC OPS

- Are login credentials compromised?
- Is an attacker enumerating my systems?
- Is that encrypted traffic malicious?
- Does unusual activity indicate recon?
- Is an attacker accessing company data?
- Is there unusual access to sensitive files?

IT OPS

- What is the user experience?
- Can users and servers authenticate?
- Which servers are responding slowly?
- Which queries need to be optimized?
- What is the app's performance?
- How much capacity do we need?

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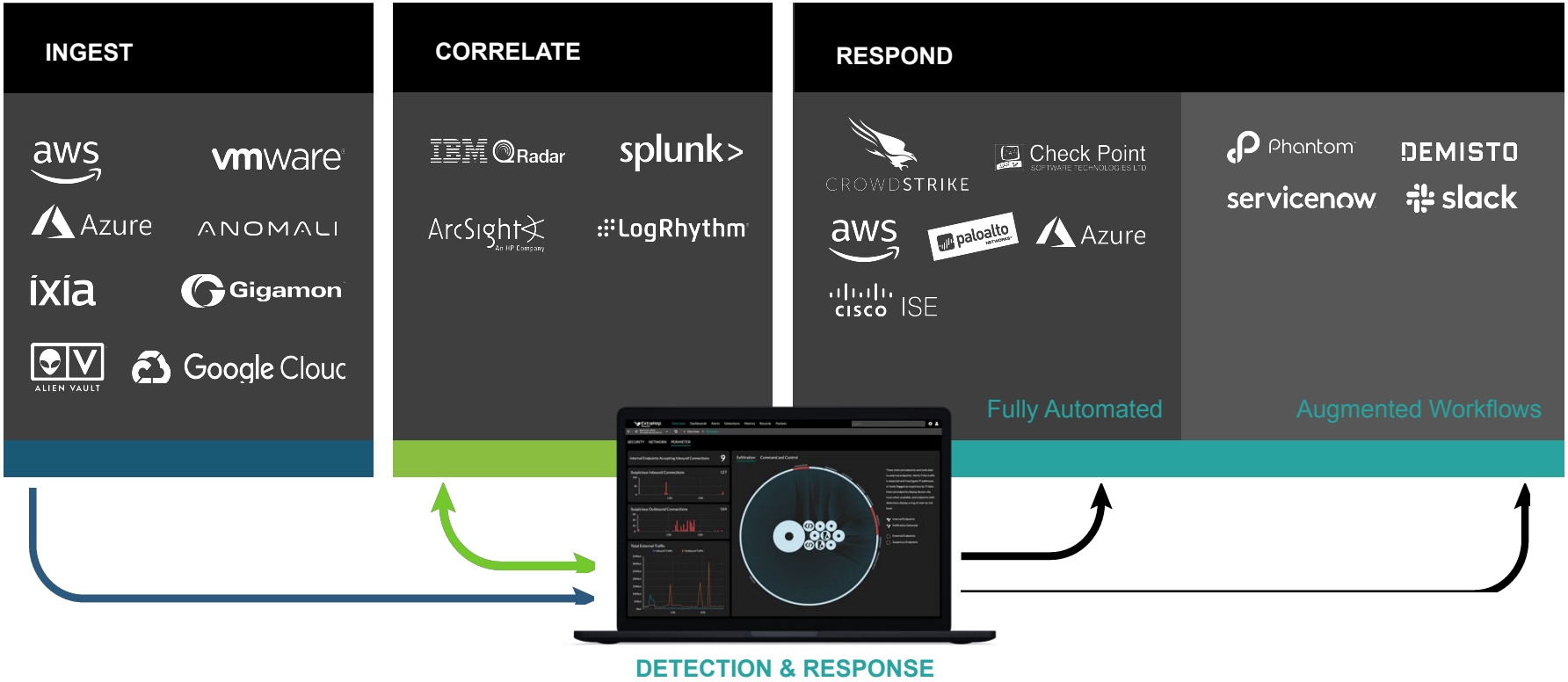
Amplify the Power of Your Enterprise Tools



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Use Case: Visibility & Hygiene

Why Reveal(x)?

Cloud-native NDR provides faster time to value, eliminates blind spots, supports on-prem, hybrid and multi-cloud deployment scenarios

- Automated, continuous device discovery and identification
- Unmatched 100 Gbps of full payload analysis
- Line-rate decryption of SSL/TLS 1.3 encrypted traffic
- Complete, observed visibility of all E-W and N-S traffic
- Built in visibility for CIS controls 1 & 2, MITRE, NIST CSF
- Full spectrum detection and response for security and performance

Case Study

1 Tb

of unauthorized data exfiltration
(“Phoned Home” Security Advisory)

> **Nine times out of ten, we know about a problem before any of our users can call to tell us about it.**

MITCH ROBERSON – CURO FINANCIAL

ExtraHop

Use Case: Incident Response

Why Reveal(x)?

Cloud-native NDR delivers best-in-class incident response with behavioral analysis, data correlation, and detection-record-packet workflows

- Faster forensic investigation with continuous packet capture capabilities
- High-level visualizations, intuitive drill-downs, global search (threat hunting)
- Multi-cloud innovations (AWS, GCP) to support forensics use cases
- Automatic investigation workflows, deep visibility into critical asset activity
- Native remediation capabilities, robust API and integrations with orchestration platforms

IDC

59%

Reduction in staff time to resolve

77%

Improvement in time to resolve

ExtraHop


ExtraHop