Delivering Integrated Cyber Defense in the Cloud Generation

Davor Perat

Senior Technology Consultant

Symantec:
A History of Industry Leadership

1982

Symantec is founded by **Gary Hendrix** with a focus on **artificial intelligence**

1988

Symantec enters the **Antivirus market** with a focus on **Macintosh** computers

1989

Symantec achieves **profitability**

1989

NASDAQ IPO of **Symantec**

1990

Symantec acquires **Peter Norton Computing**

1991

Symantec launches **Norton Antivirus**

1999

John Thompson is hired to become **CEO** of **Symantec**

2004

Symantec acquires **Veritas** and **Brightmail** to enter into **storage** and **email security**

2007

Acquisition of **Vontu** is completed to enter into the **data protection space**

2010

Verisign Identity and **Authentication** Business acquired by **Symantec**

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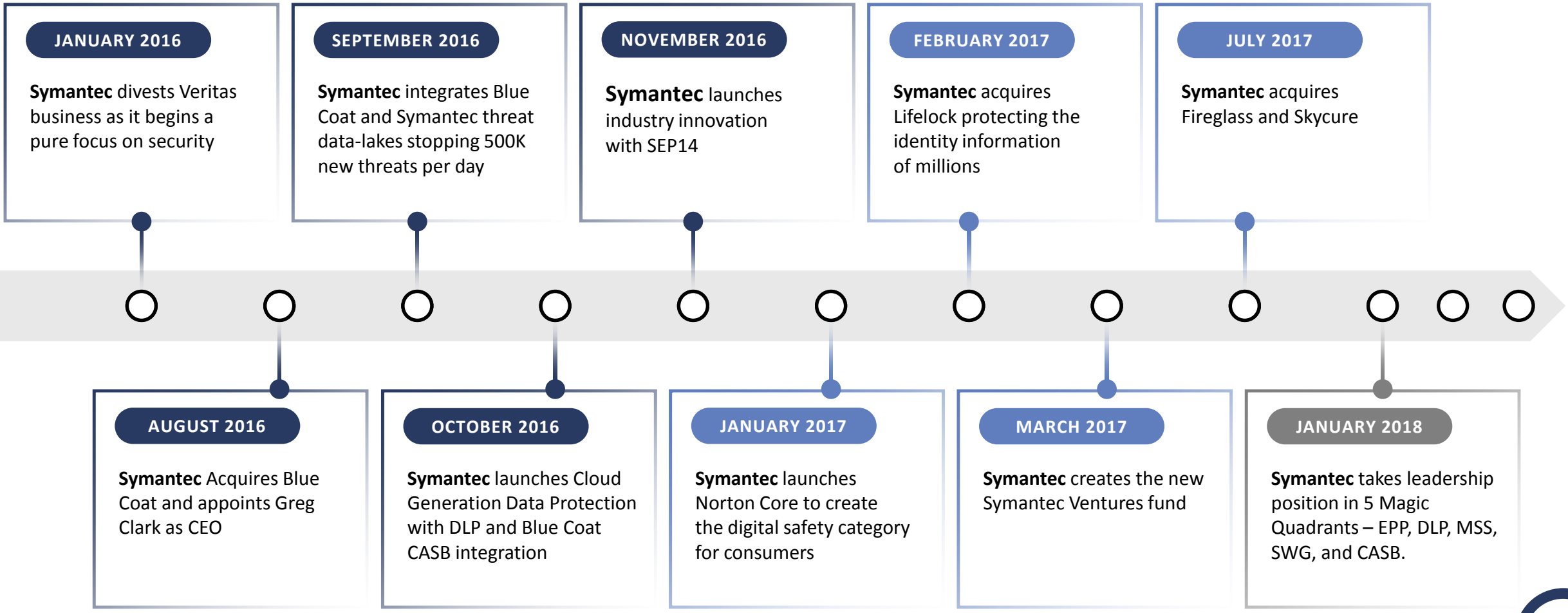
Symantec:
Celebrating The Past Two Years of Advanced Innovation



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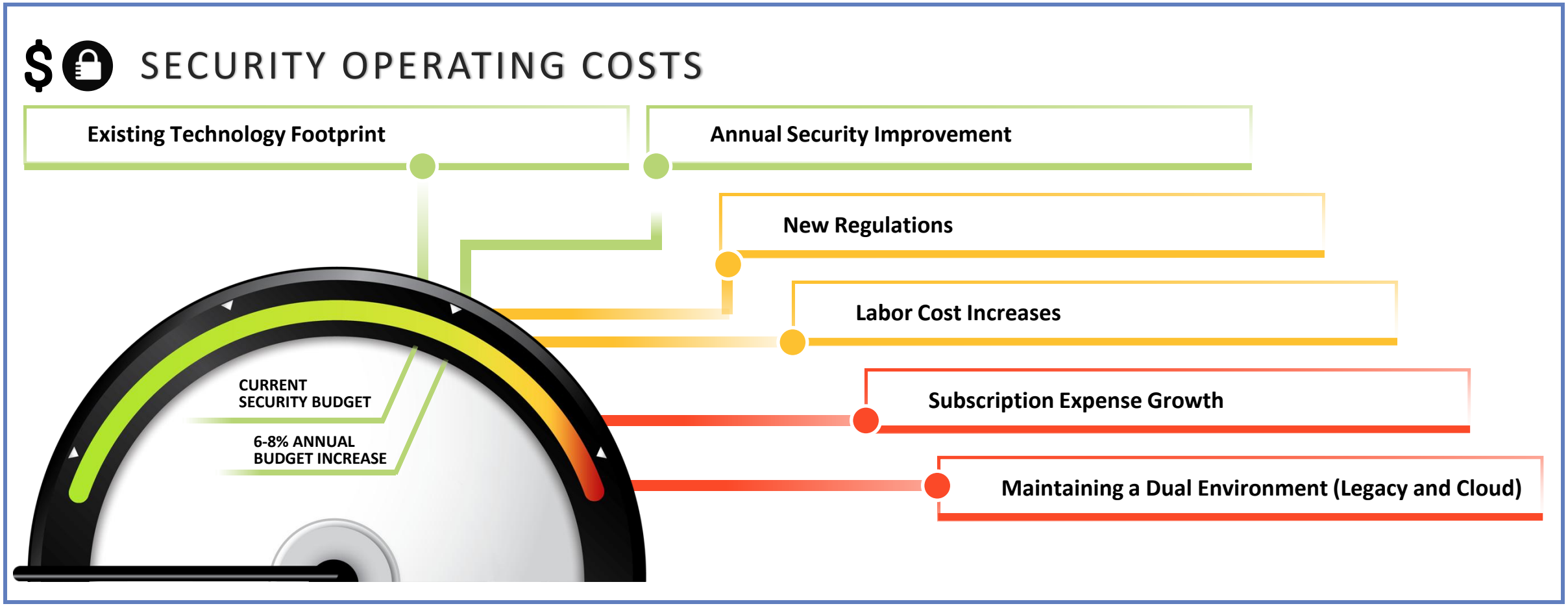
Fiscal Crisis

The Industry Faces a Looming Fiscal Spending Crisis



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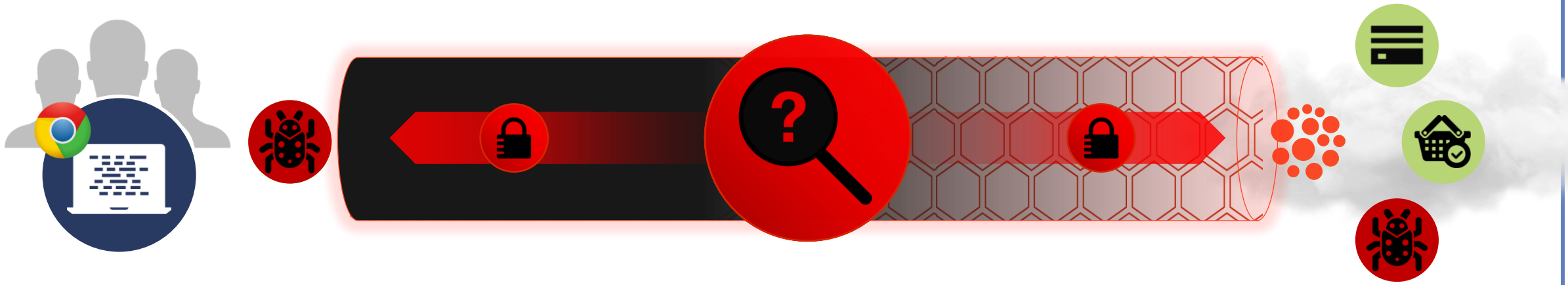
The Cloud Generation Dilemma

A Dark Internet Will Require Presence at Key Termination Points



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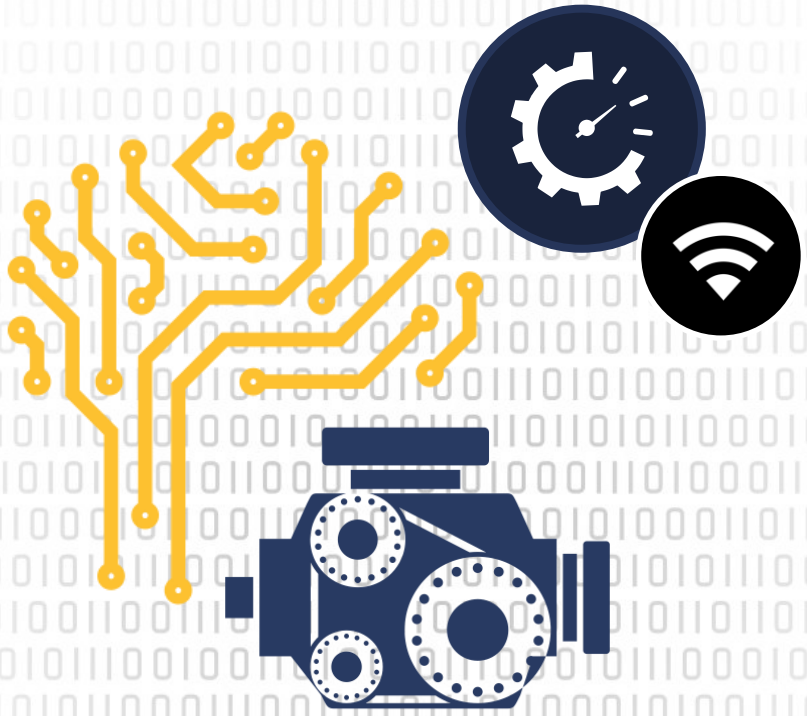
The Cloud Generation Dilemma

Organizations Will Need to Depend on Automatic Security Capabilities



ARTIFICIAL INTELLIGENCE

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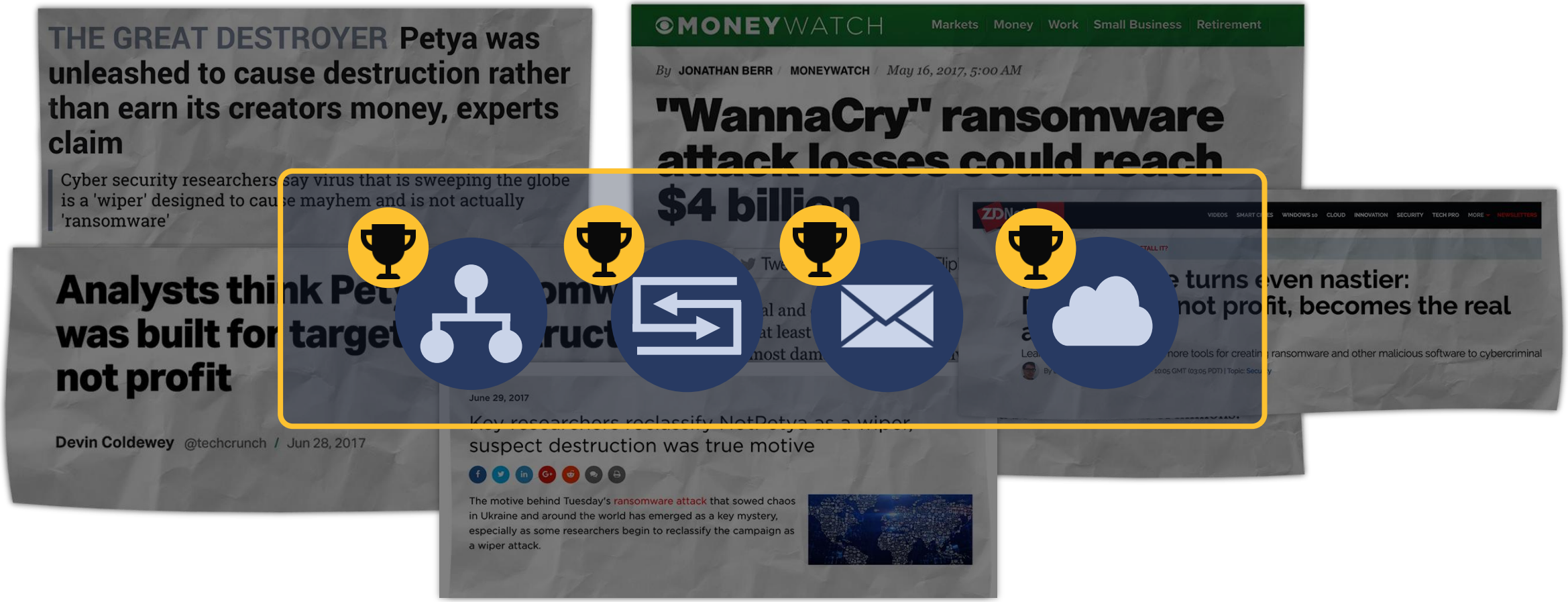
The Cloud Generation Dilemma

Industry Refocused on the Criticality of Prevention



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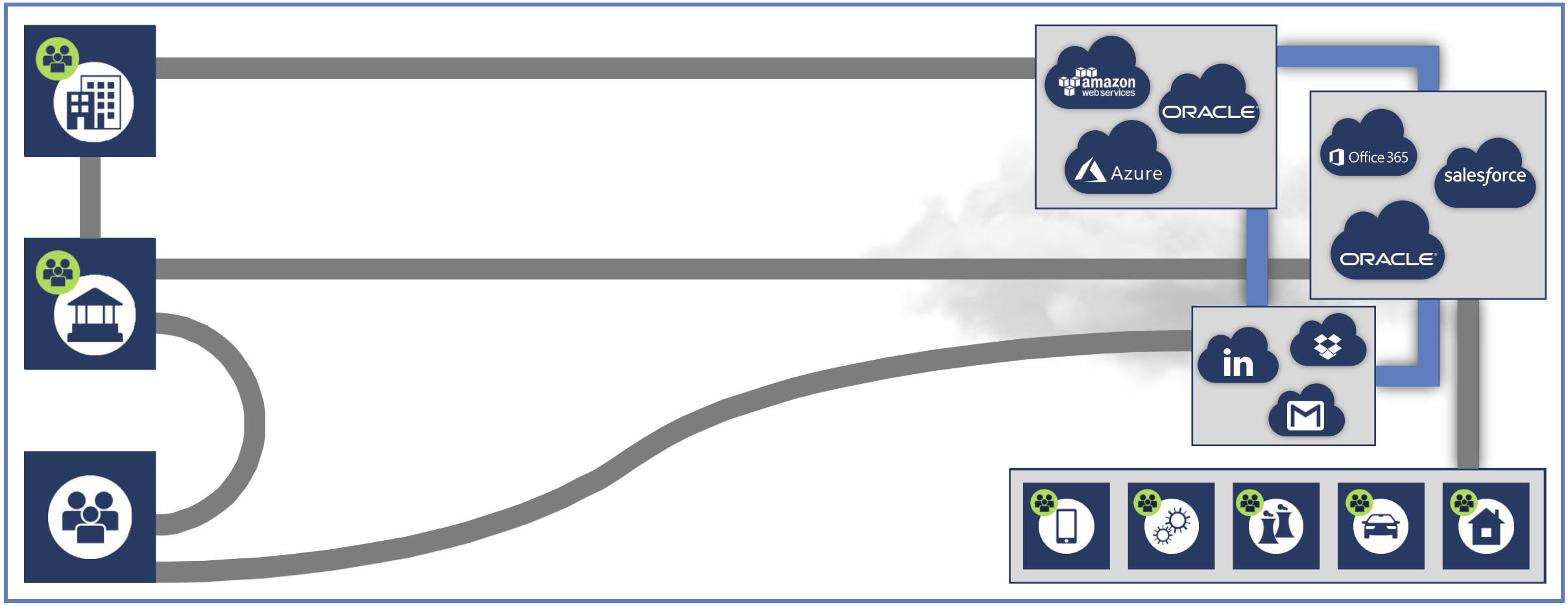
The Cloud Generation Dilemma

Changing Usage Models Will Mandate Cloud Generation Architecture



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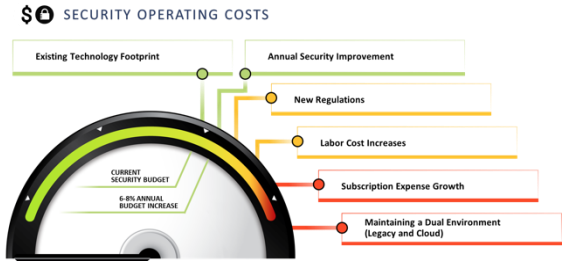
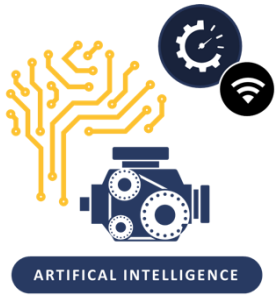
The Cloud Generation Dilemma

Changing Usage Models Will Mandate Cloud Generation Architecture

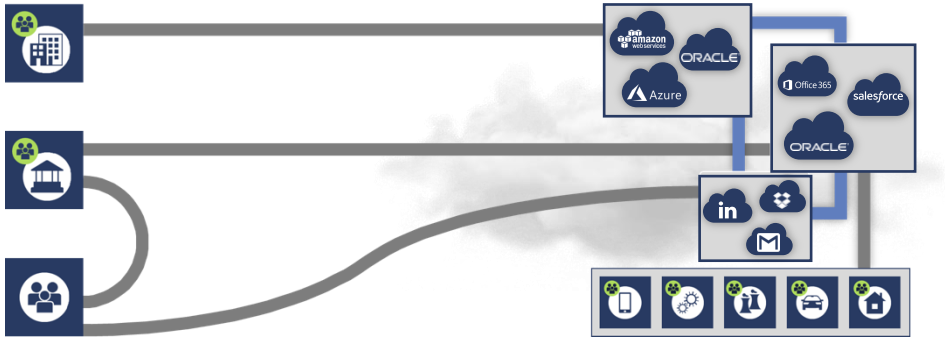
THE COMING FISCAL CRISIS



DEEP ARTIFICIAL INTELLIGENCE & AUTOMATION



CLOUD GENERATION ARCHITECTURE & PLATFORMS



A DARK INTERNET

BEST IN CLASS TERMINATION POINTS & PROTECTION

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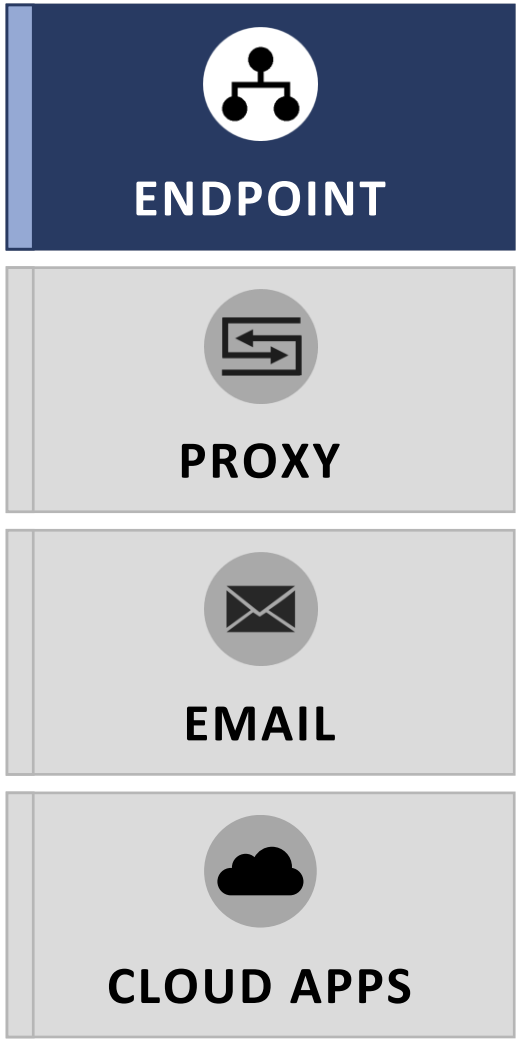

Endpoint Requirements

- Best in Class Protection
- Machine Learning / Artificial Intelligence
- Single Agent / Efficient Architecture
- Cloud Aware / Enabled
- Supports all Endpoints

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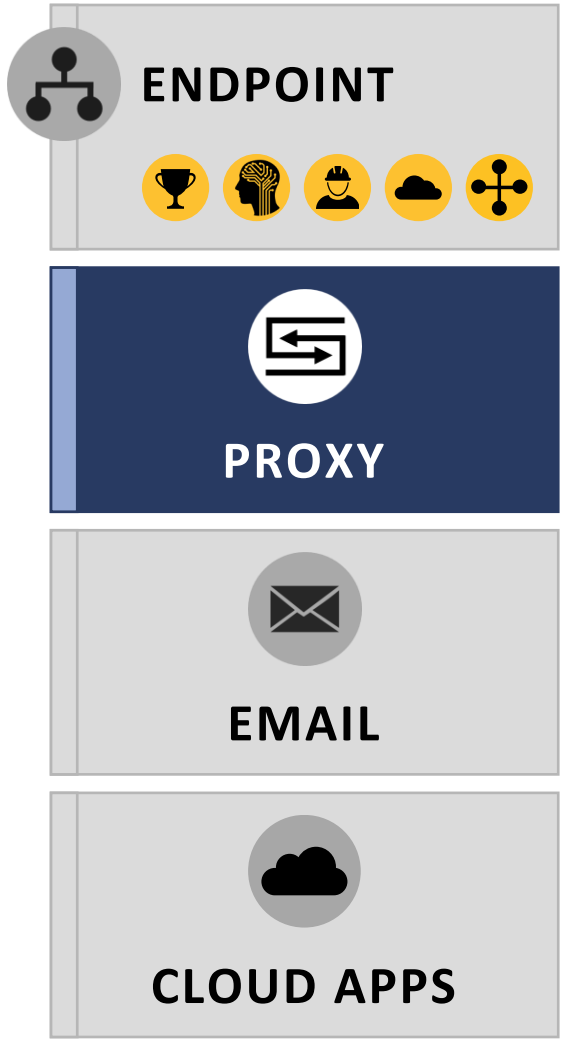
Delivering Protection in The Cloud Generation



Proxy Requirements

- Best in Class
- Strong Encrypted Traffic Management
- Cloud, On-Premises & Virtual Form Factors
- Integrated CASB
- Network Browser Isolation

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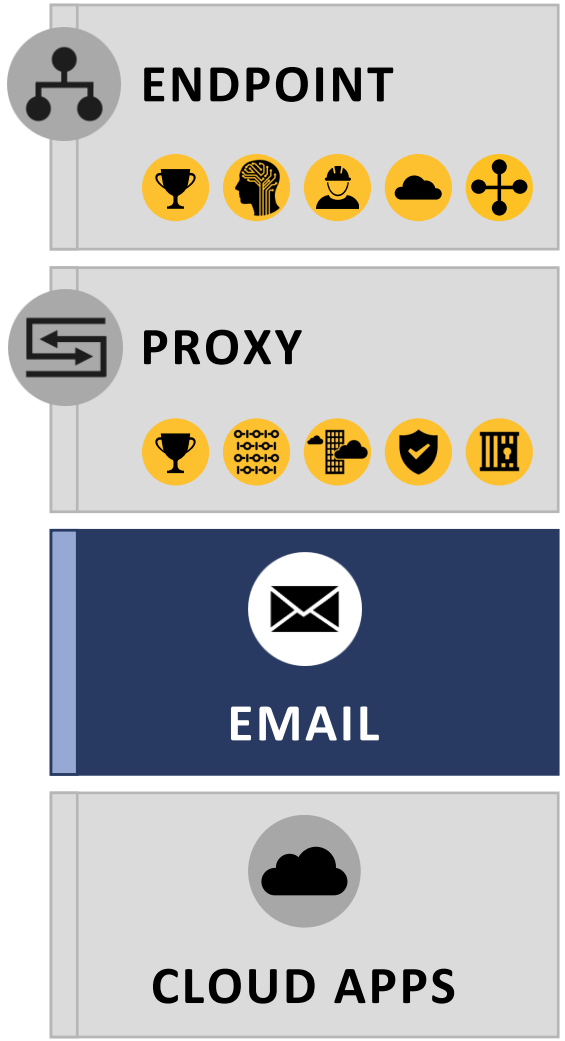

Email Requirements

- Best-In-Class Spam and Malware Defense
- Integrated Content Isolation
- Protects Intra-Company, Outbound & Inbound
- Flexible Form Factor
- Machine Learning / Artificial Intelligence

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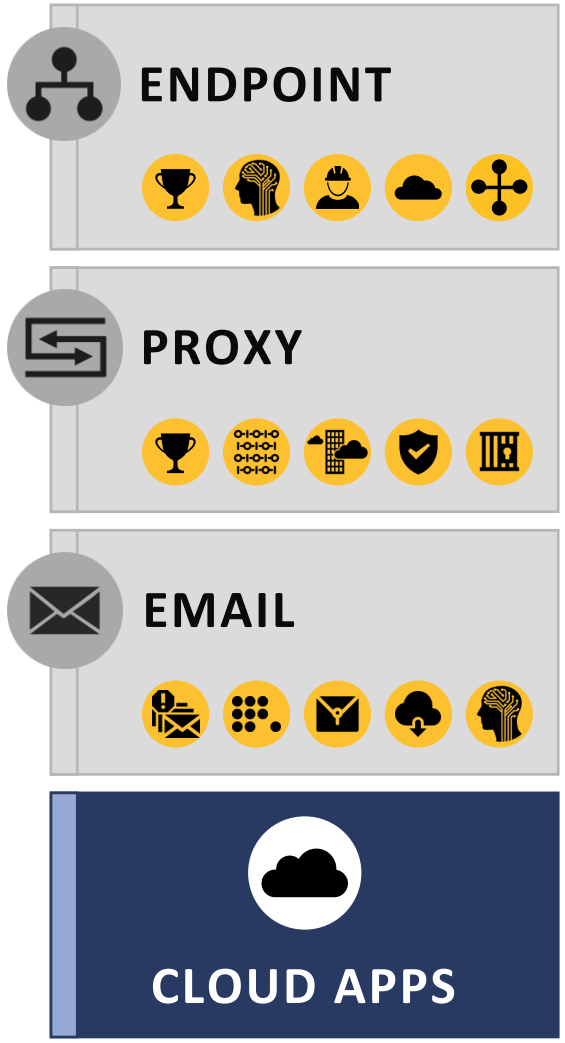

Cloud Application Requirements

- Visibility Over Cloud User Behavior
- Control Across all Cloud Applications
- User and User-Action Based Authentication
- Protections Against Malicious Content
- Extends Data Protection to the Cloud

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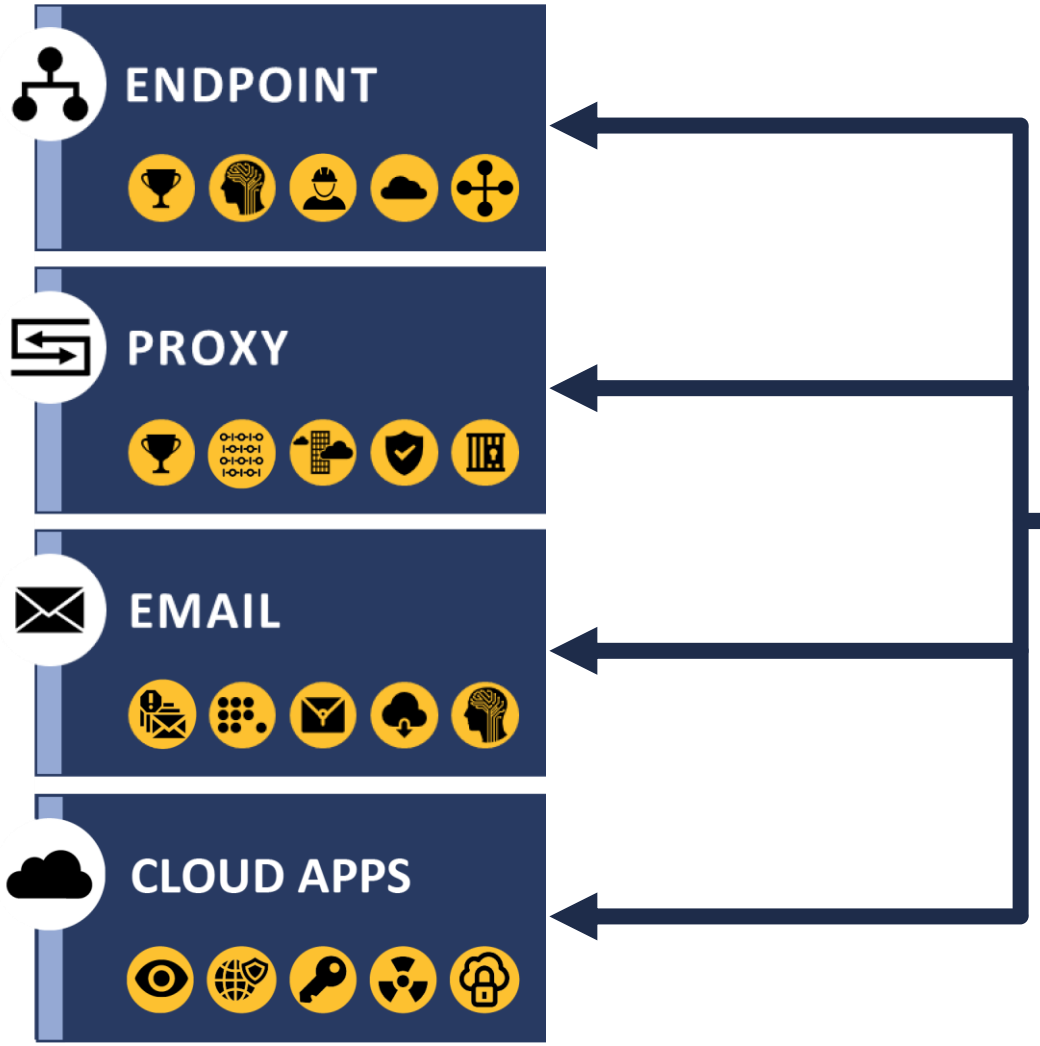

API BASED

- One-to-One Integration Mechanics
- Heavy Programmatic Skills
- Support Intensive
- Painful Innovation Consumption

VS

INTEGRATION FABRIC

- Codified Integration Model
- Simple Innovation Consumption
- Enterprise-Class Workflows
- Empowers Third-Party Participation

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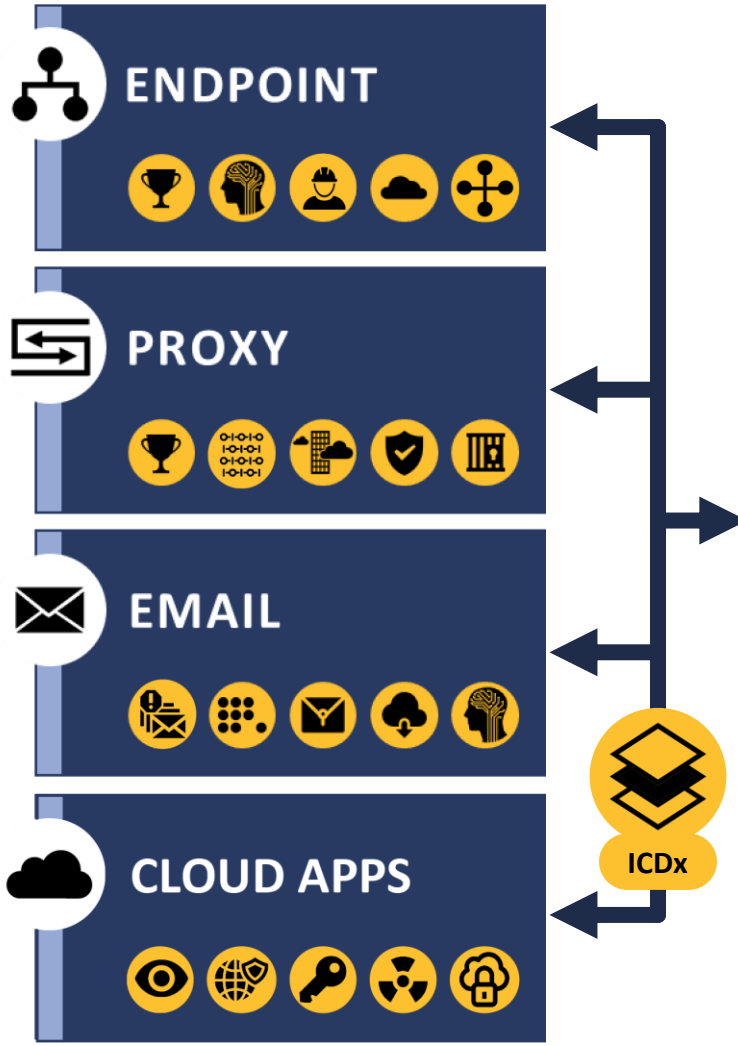

INTEGRATED CYBER DEFENSE EXCHANGE (ICDx)

- Open Interface to Symantec and Third-Party Technologies
- Structures and Unifies Telemetry
- Control of Event Information for Regulatory Adherence
- Long-Term Correlation of Event and Telemetry Data
- Provides Automated Actions for Control Points
- Integration Point for External Control Structures
  - MSP
  - Artificial Intelligence / Machine Learning
  - Orchestration

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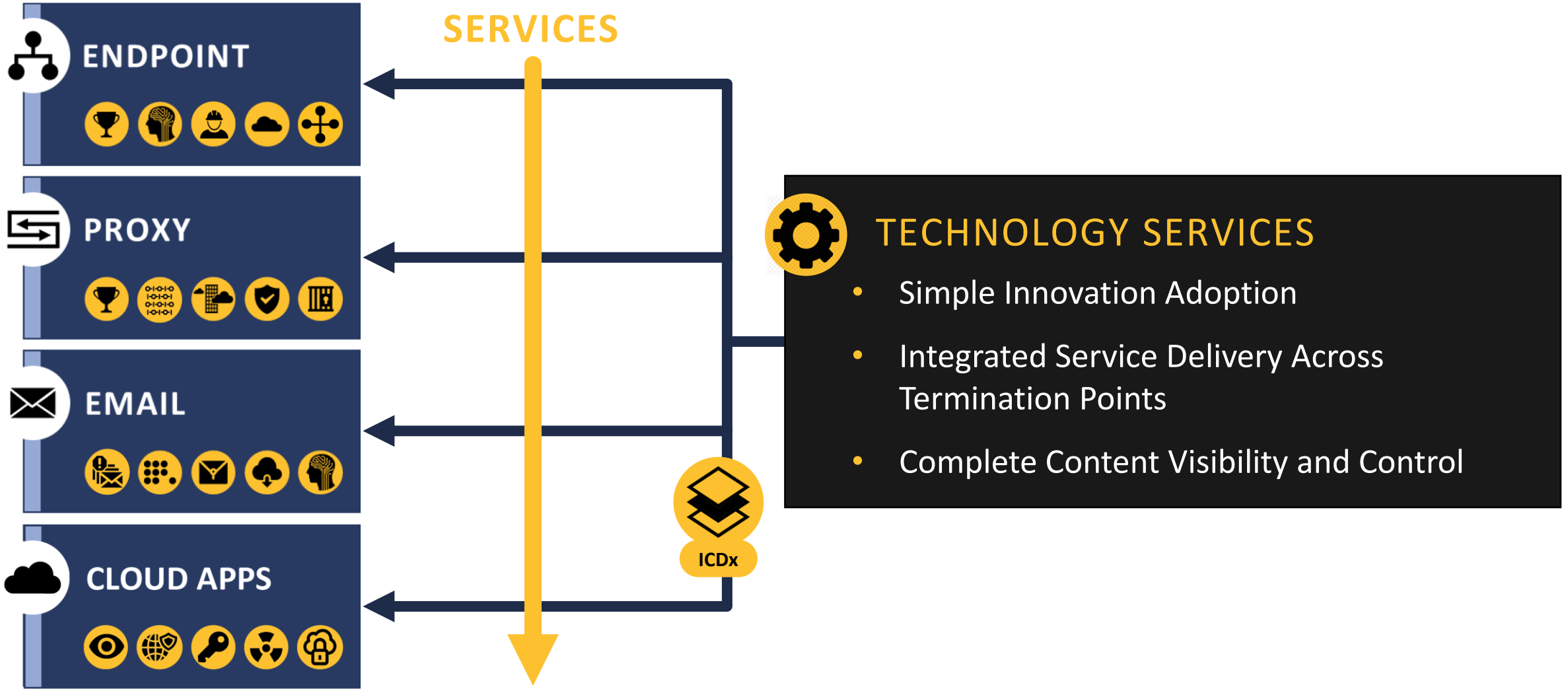
Delivering Technology Services in The Cloud Generation



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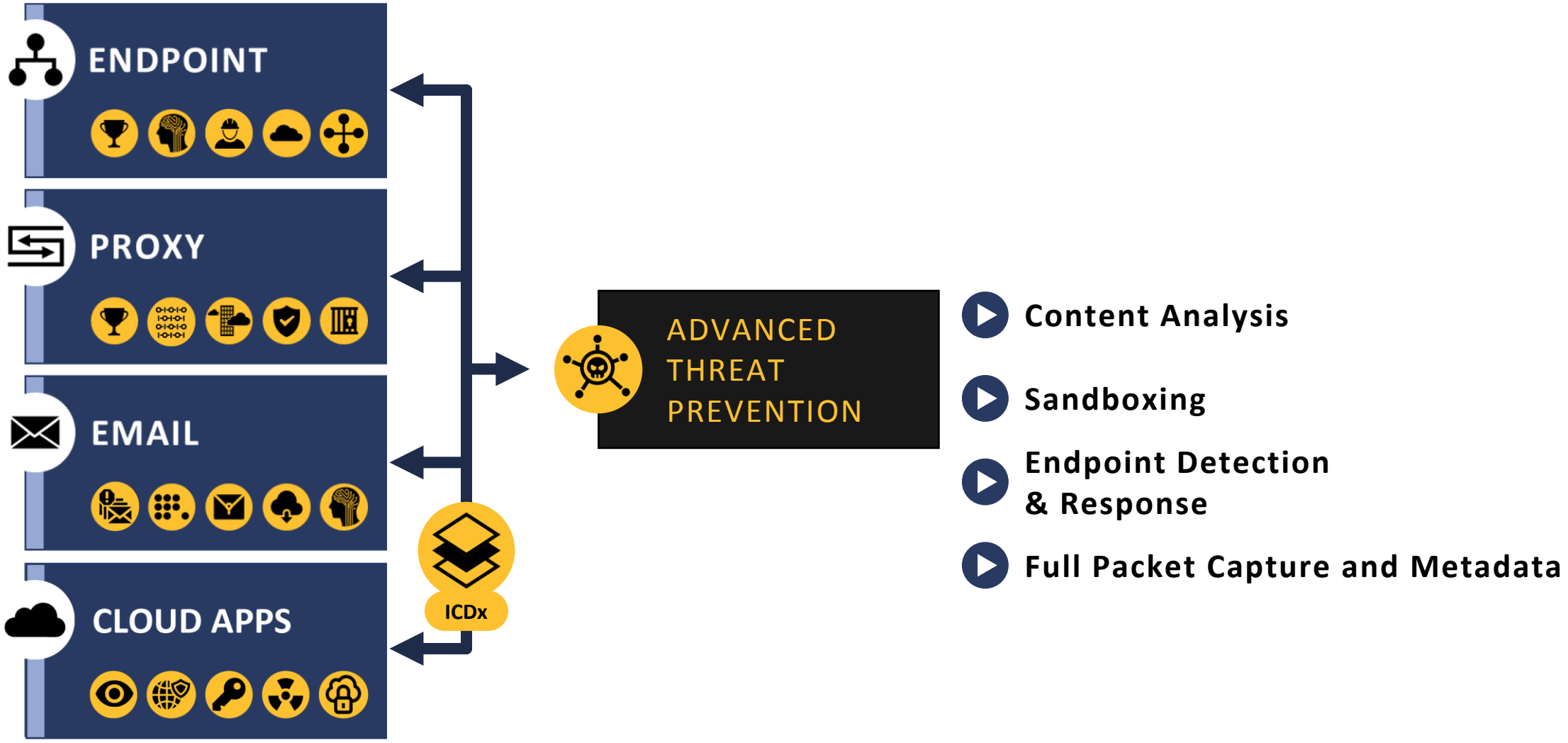

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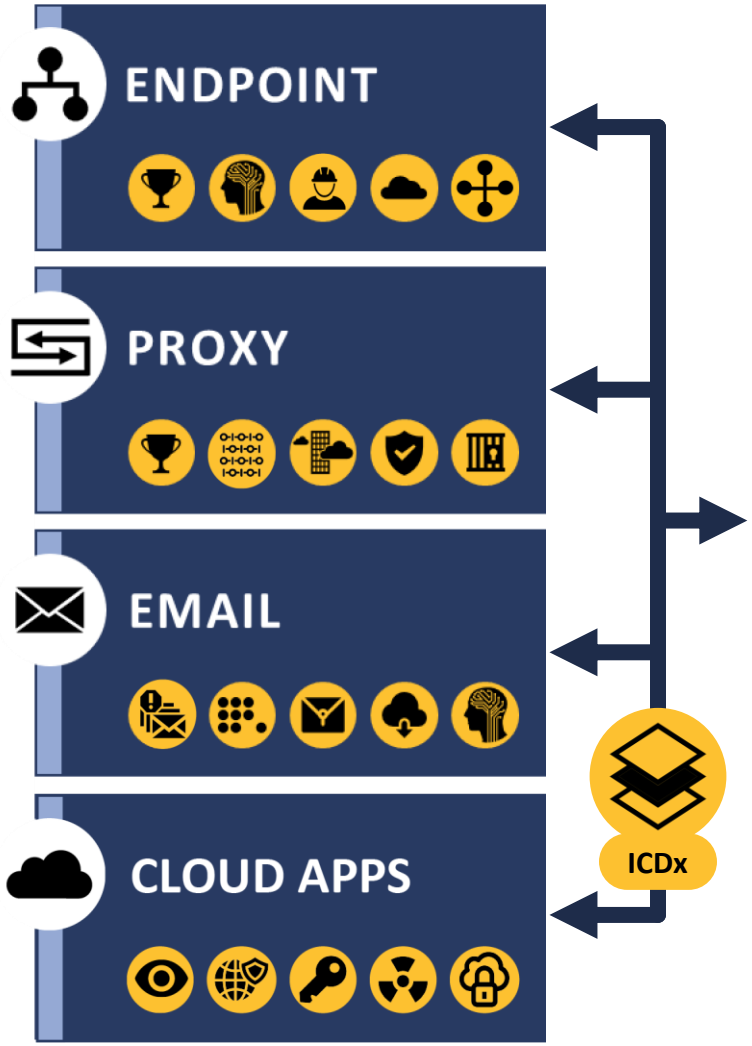

- DLP
- Multifactor Authentication
- Encryption
- Information Centric Analytics
- Discovery and Compliance

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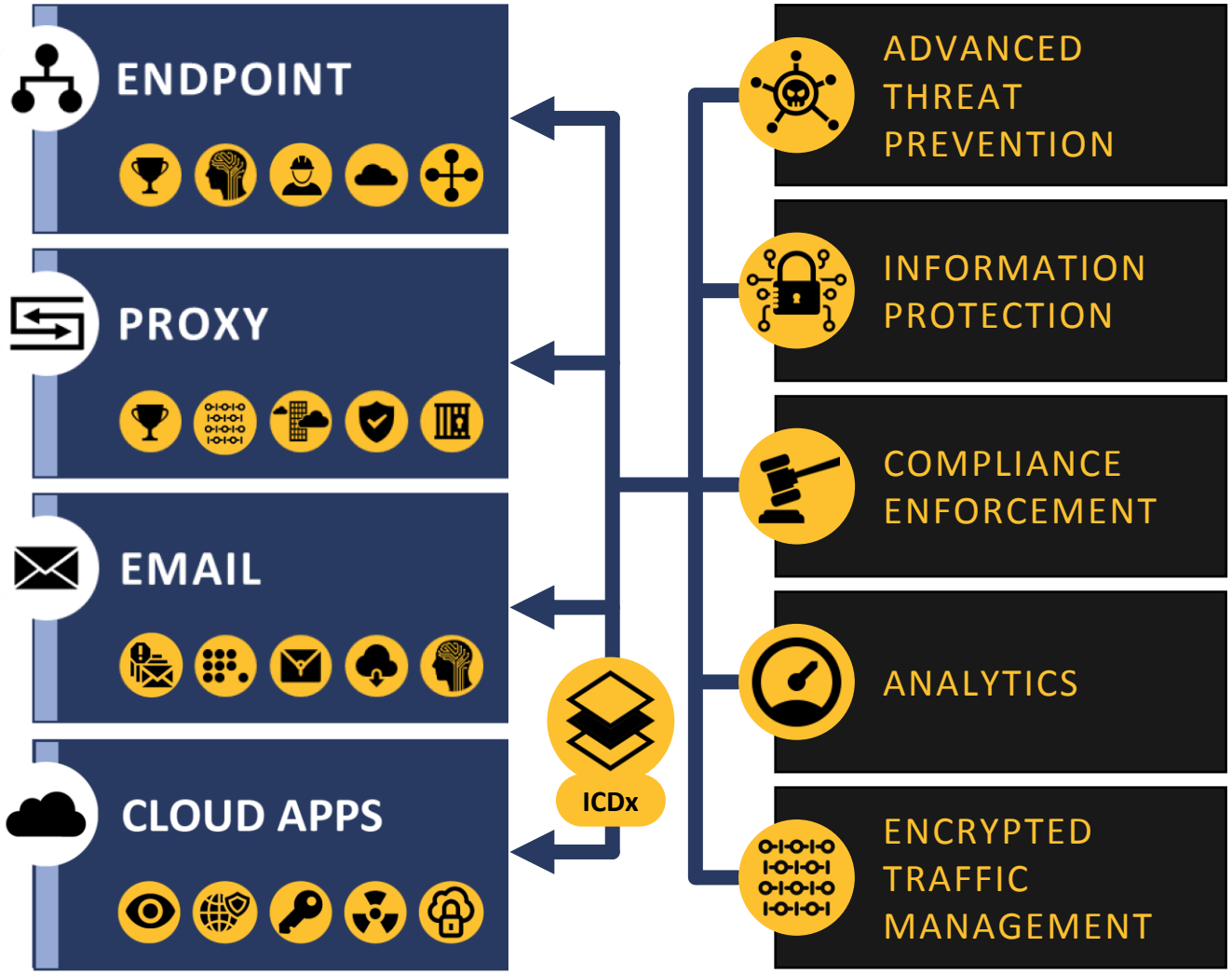

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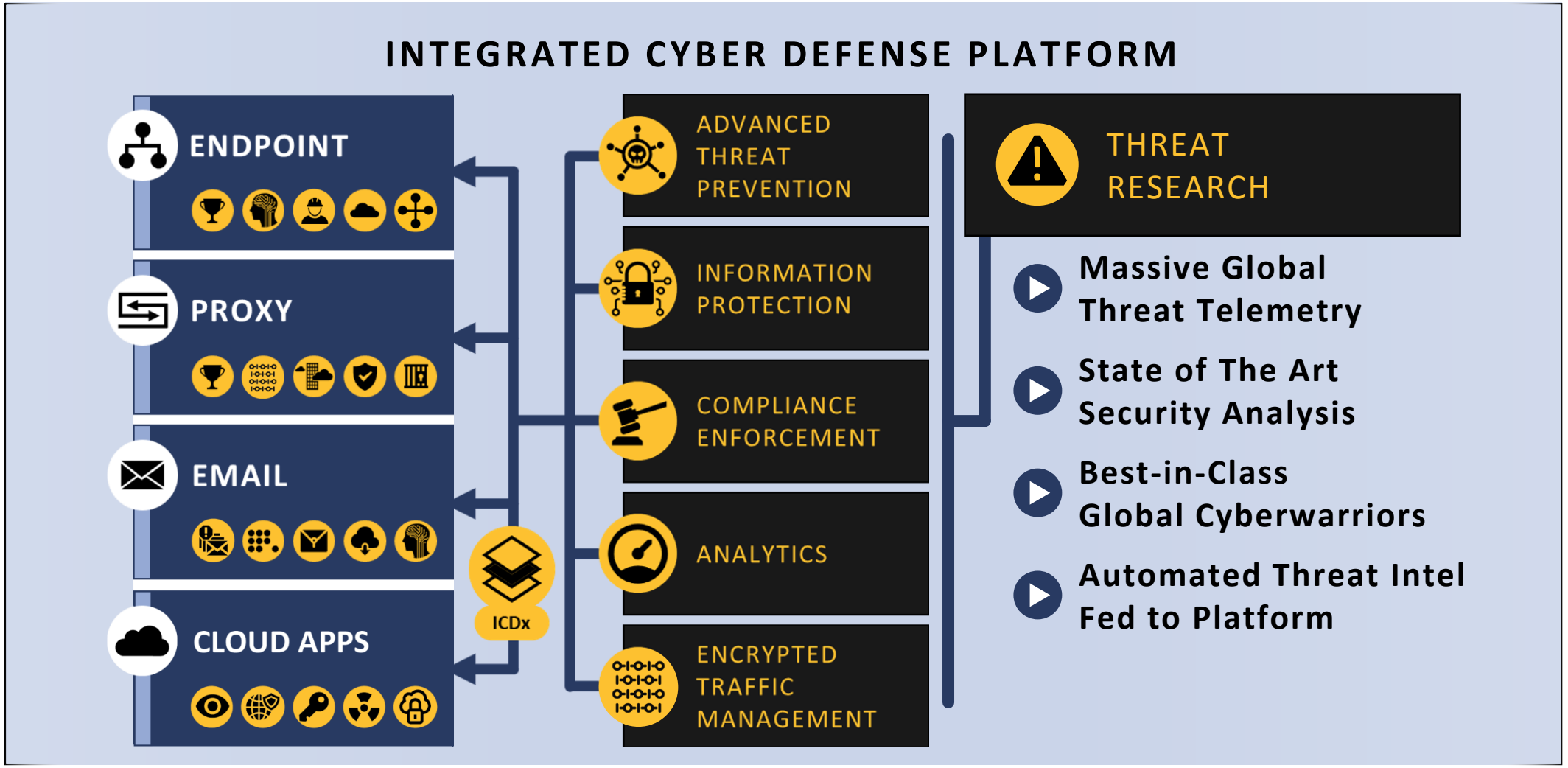

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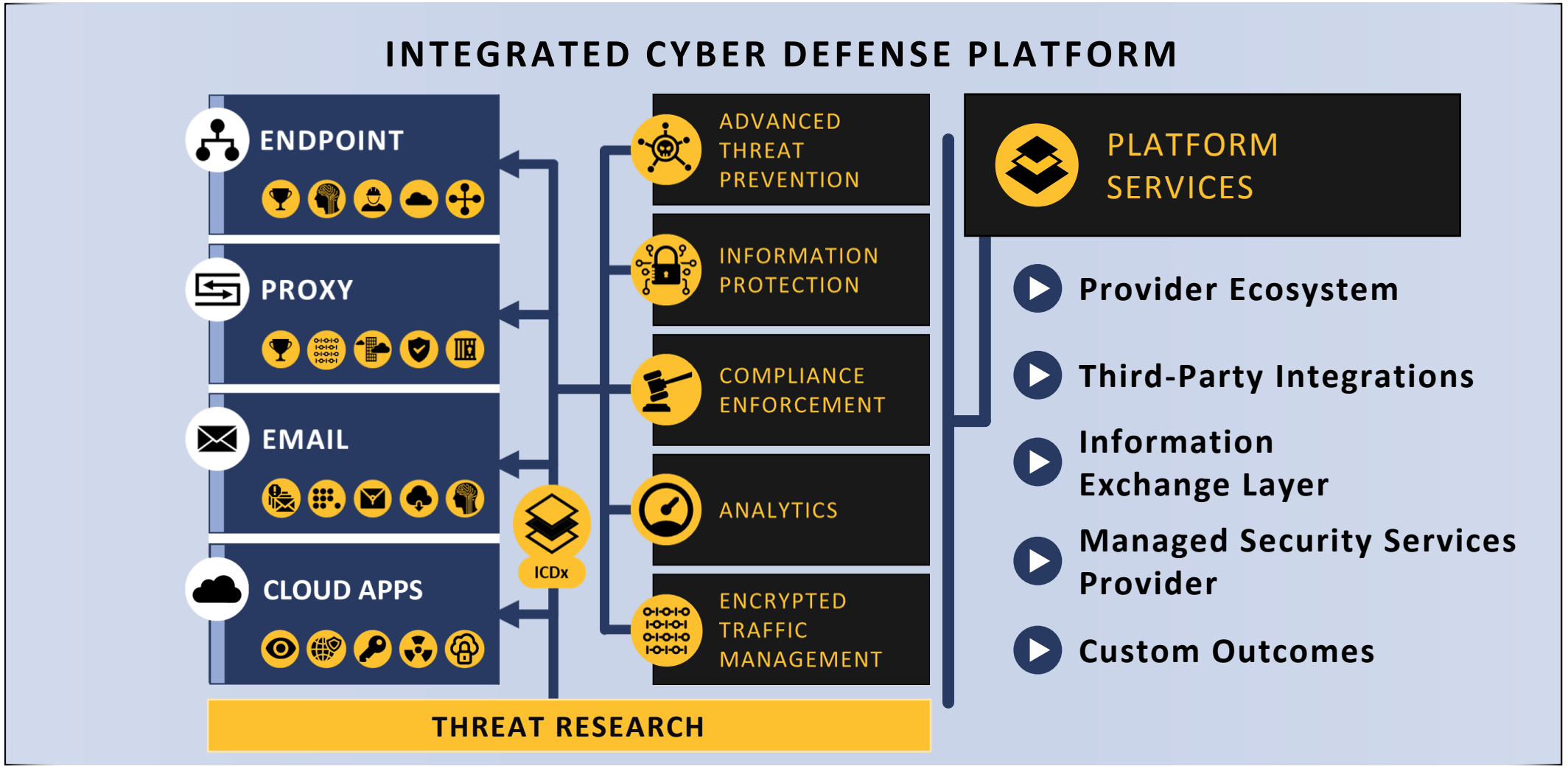

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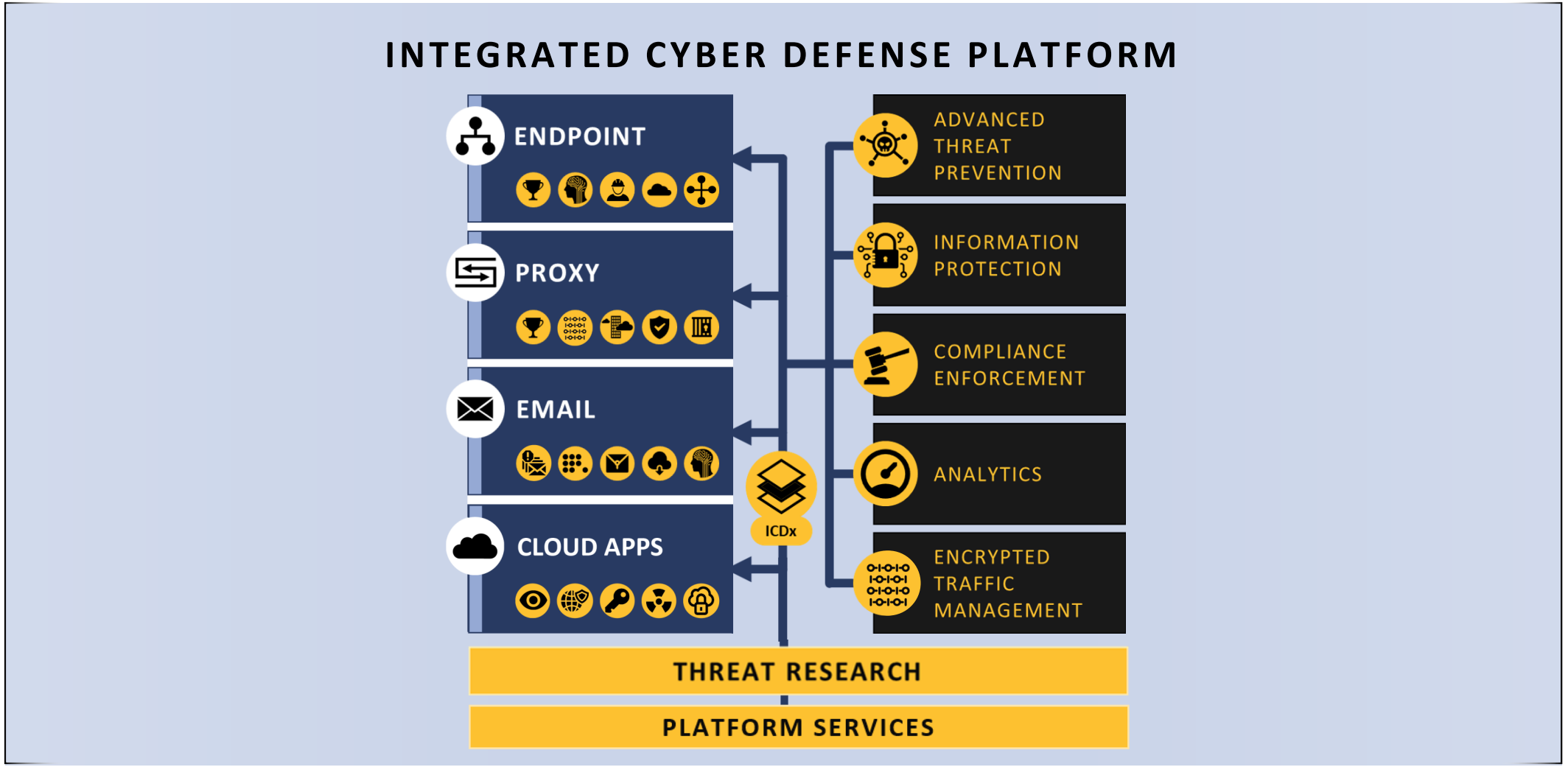

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600+ PARTNERS INQUIRIES → **94** TECHNOLOGY PARTNERS → **178** INTEGRATIONS

A10 | AASHTO | Symantec TIP PROGRAM ACCESS | Intsights | ipswitch

Accellion | AGARI | ixia | LogRhythm

AGAT | ALLURE | McAfee | MetaNetworks

AREA 1 | Banco de Bogotá | Bay Dynamics | vmware | MobileIron | napatech

Attivo NETWORKS | boldonjames | CISCO | VENAFI | NETSCOUT | NCR

Centrify | Compuverde | CounterTack | REVERSINGLABS | NET DIALOG | NUTANIX

CITRIX | CLOUDGENIX | DEMISTO | radware | opentext | redhat

ctera | cyber OBSERVER | Dropbox | Qualys | RSA | Pulse Secure

cpacket NETWORKS | CYBERSPONSE | FireEye | Phantom | SAP | salesforce

CYMULATE | DB NETWORKS | ForeScout | ORACLE | silver peak | slack

DELL EMC | docker | FORTINET | amazon web services | splunk> | lastline | SOPHOS | SWIMLANE

ECHOWORX | exabeam | gemalto | servicenow | NetApp | SYMPHONY | THALES

f5 | Fidelis Cybersecurity | Google | box | IBM | MICROFOCUS | thycotic | TITUS

FLEXERA SOFTWARE | HITACHI | Microsoft | tufin | VARONIS

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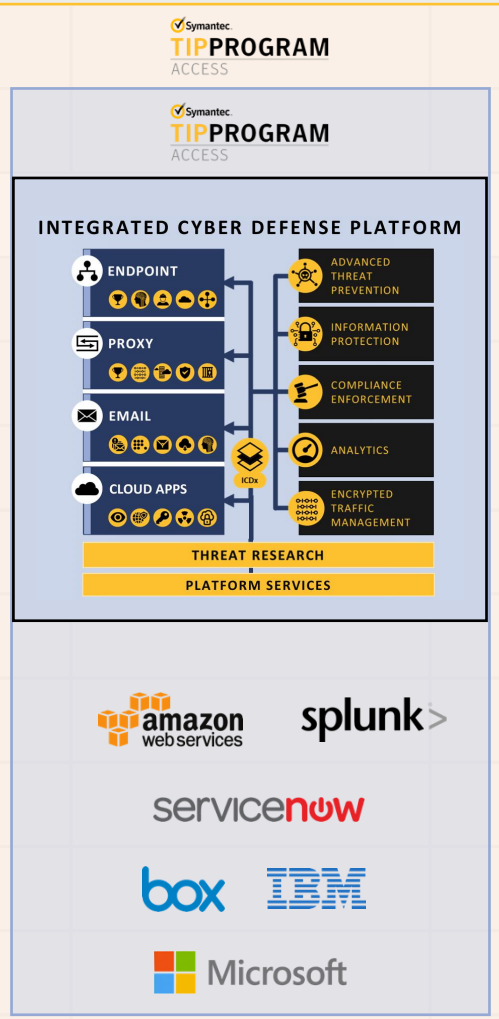

The Cloud Generation Dilemma

Changing Usage Models Will Mandate Cloud Generation Architecture

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Cloud Security Chaos

Challenges of Disparate Cloud Security Providers

COMPLICATIONS OF CLOUD ADOPTION

1. Connect to Cloud Proxy
2. Authenticate the connection
3. Validate user access to cloud application
4. Inspect document upload for sensitive material
5. Encrypt document due to sensitivity
6. Document uploaded into cloud app
7. Content is classified and tagged inside of cloud app
8. Email sent to user confirming document receipt
9. Threat inspection performed on email content
10. Full packet capture forensics
11. Endpoint activity telemetry

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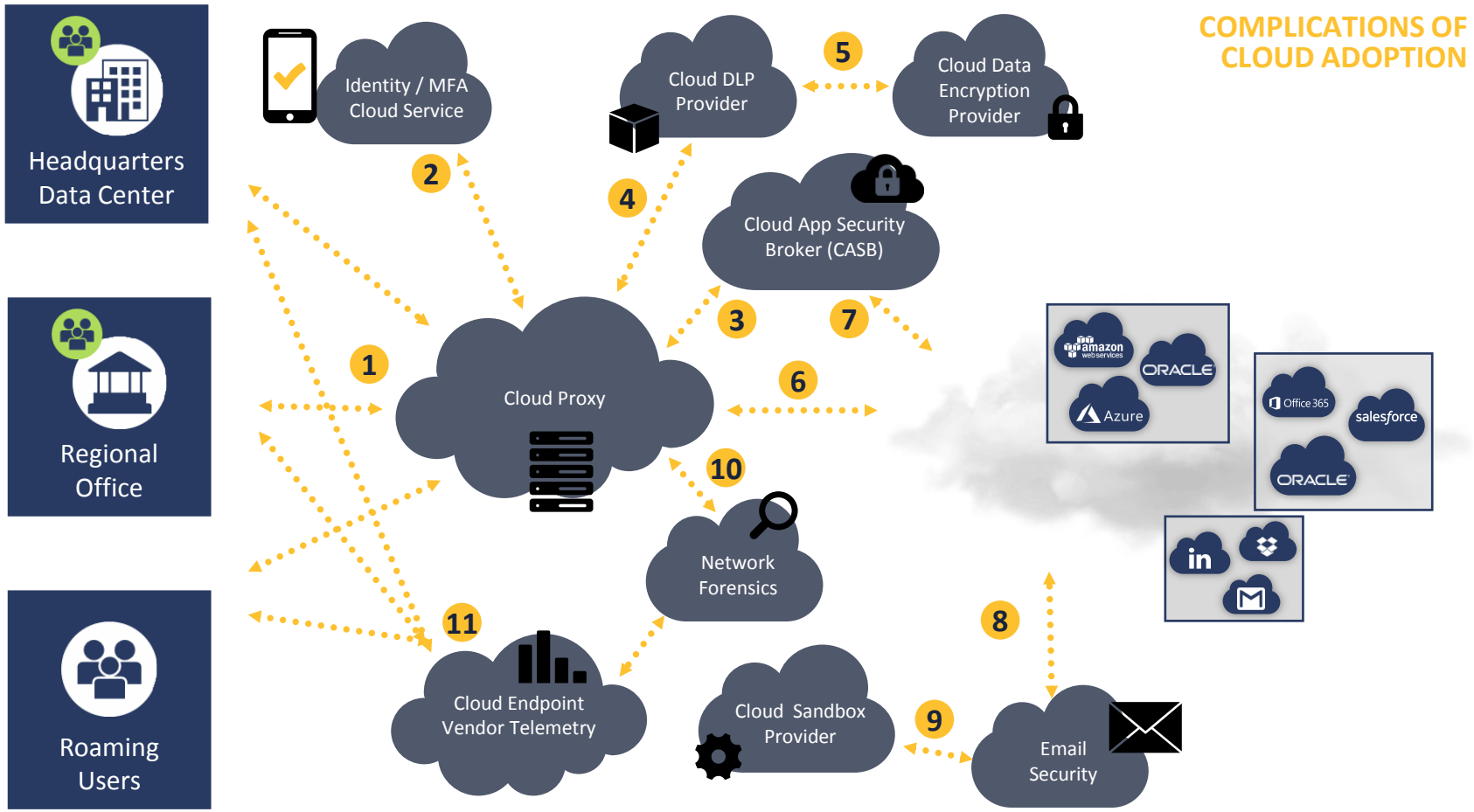
Challenges of Disparate Cloud Security Providers



COMPLICATIONS OF CLOUD ADOPTION

- Who Owns the Comprehensive Service Level Agreements?
- Single Pane of Glass?
- Redundancy & High-Availability?
- Vendor Compatibility?

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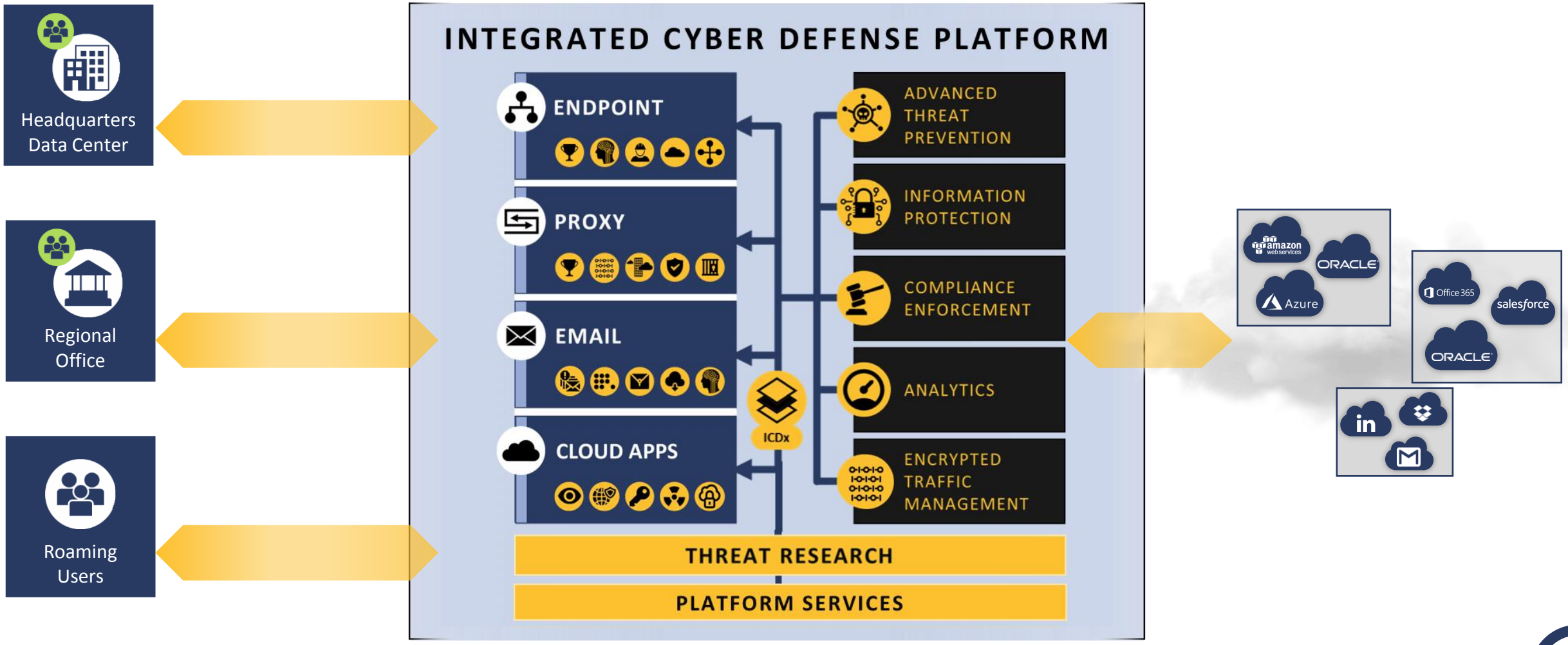
Symantec Integrated Cyber Defense

Delivering a Simplified Security Model for the Cloud Generation



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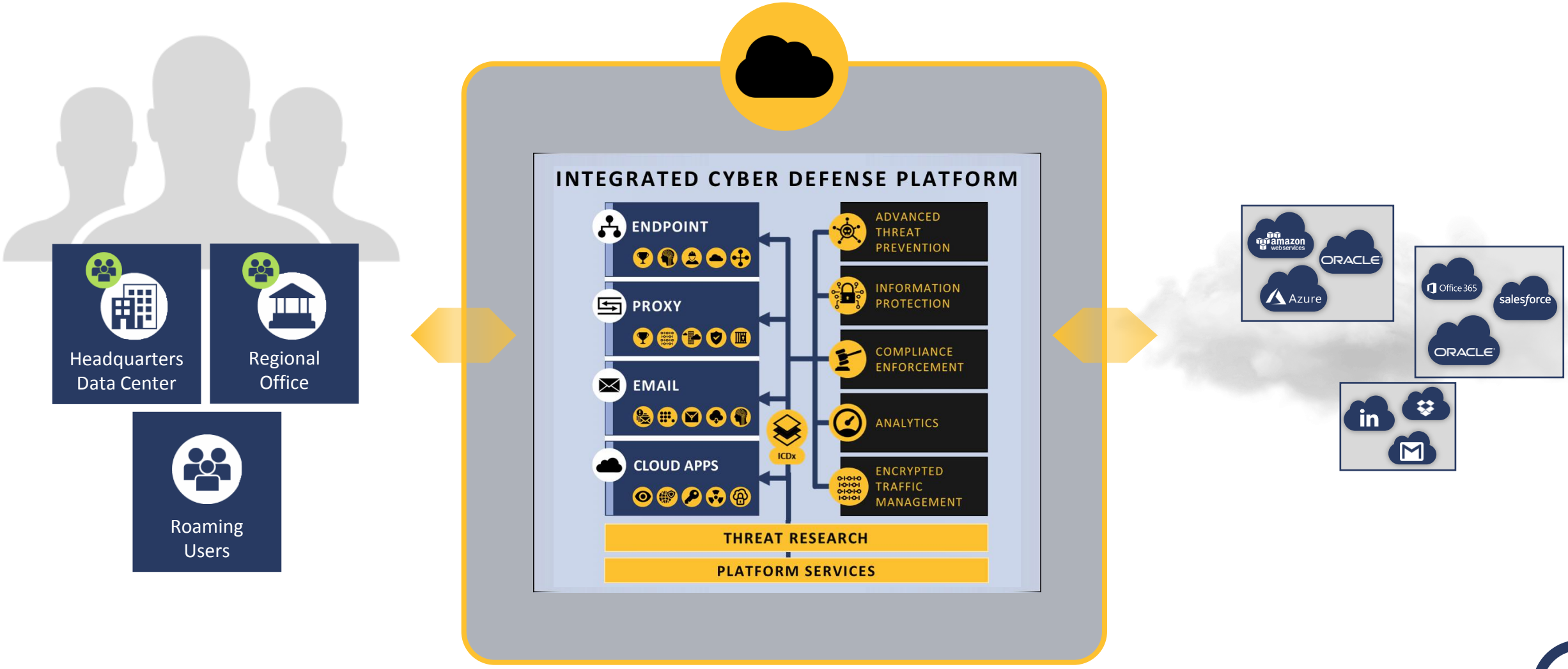

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