Gartner Security & Risk Management Summit
17 – 20 June 2019 / National Harbor, MD

Top Security and Risk Management Trends for 2019 and Beyond

Peter Firstbrook

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3.5x

Increase in organizations with 50% of their data in the cloud 2018-2020

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93%

are dealing with rogue cloud app usage

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85%

Are interested in replacing passwords with new forms of authentication

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More than **80%**

of enterprise web traffic will be encrypted through 2019

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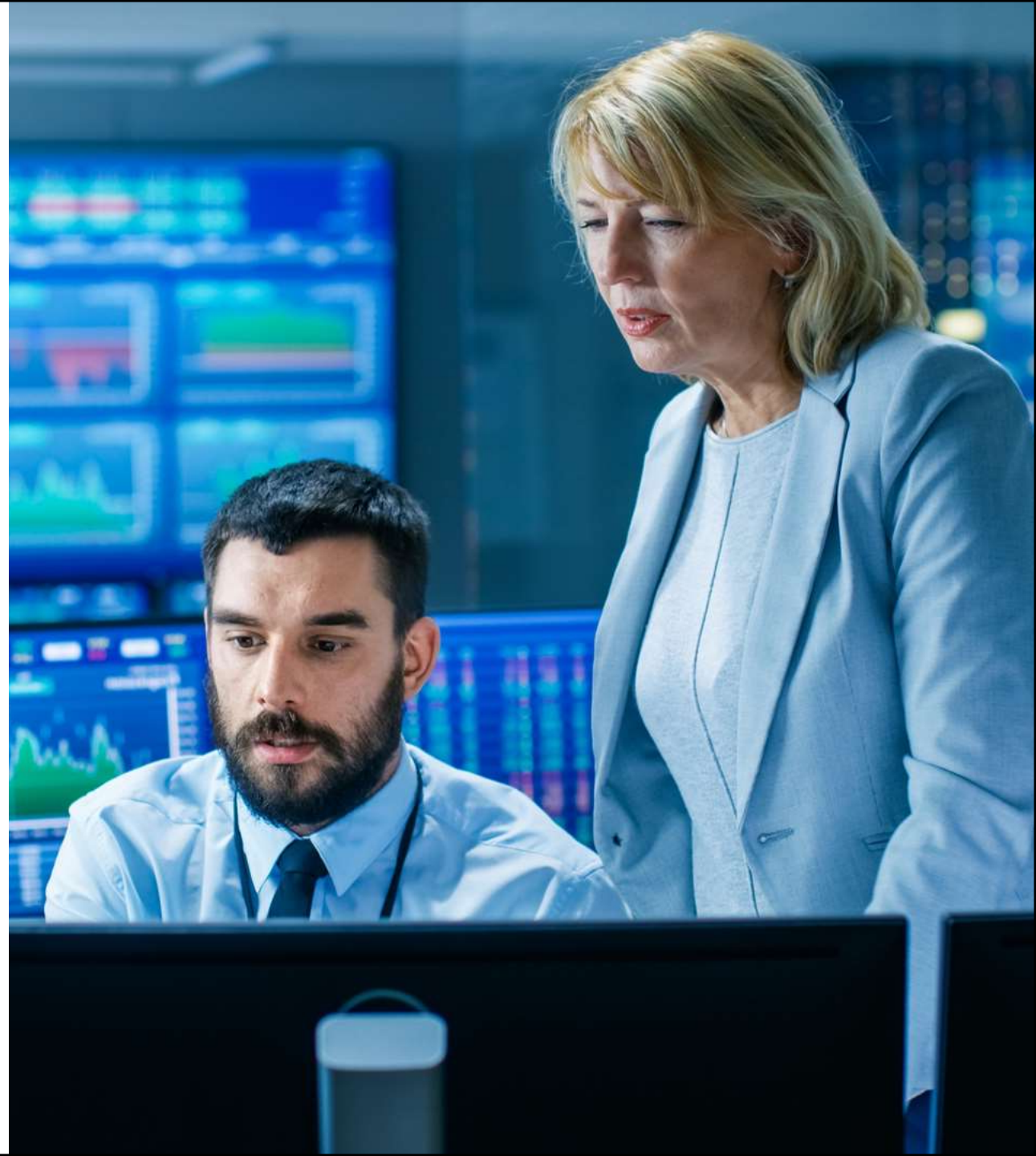
The Controls of Security Are Rapidly Shifting and Your Focus Needs to Shift to New Approaches



External Mega Trends Beyond Your Control

Internal Mega Trends that Support Success

- Perfect prevention and authentication is **not** possible — Plan, Detect, Respond
- Cloud delivery is one way to address the skills and scale gap
- Need to step up our game in communication

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2019 Trends

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Trend 1

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1.5 million

Unfilled global cybersecurity roles expected by 2020

Source: "Solving the IoT Security Talent Gap: Where You Look Matters," (G00347310); "Data Scientist Jobs: Where Does the Big Data Talent Gap Lie?" IT Pro

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Trend 1:

Fusion of Products and Services

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Trend 2

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33% increasing investment in cloud

35% decreasing investments in datacenter

Source: Oracle and KPMG Cloud Threat Report 2019

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Trend 2:

Cloud Center of Excellence Emerges

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Four Primary Areas of Investment

Cloud Security Posture Management (CSPM)

Cloud Workload Protection Platforms (CWPPs)

Cloud Access Security Brokers (CASB)

Chief Cloud Architect & SecDevOps

Infrastructure

Platform

Software

People & Process

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Trend 3

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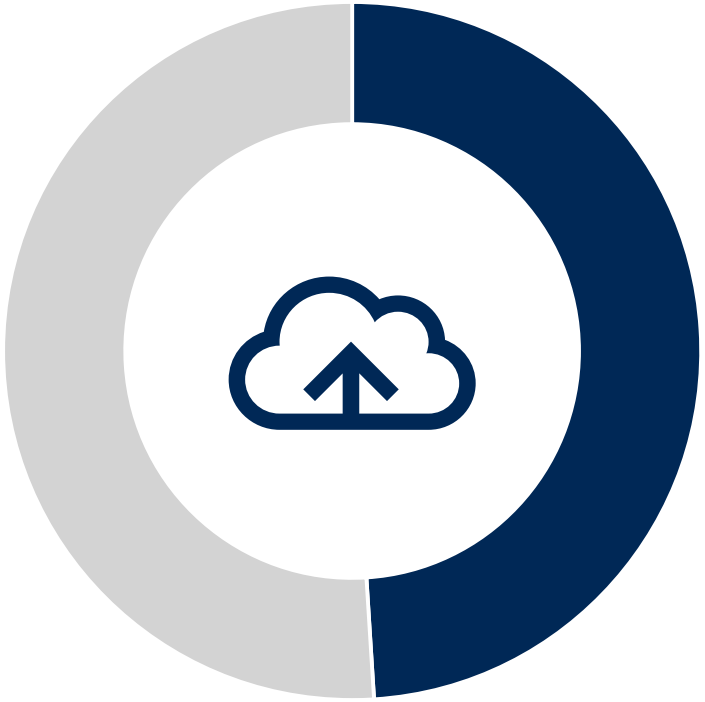

49%

Expect to store the majority of their data in a public cloud by 2020

Source: Oracle and KPMG Cloud Threat Report 2019

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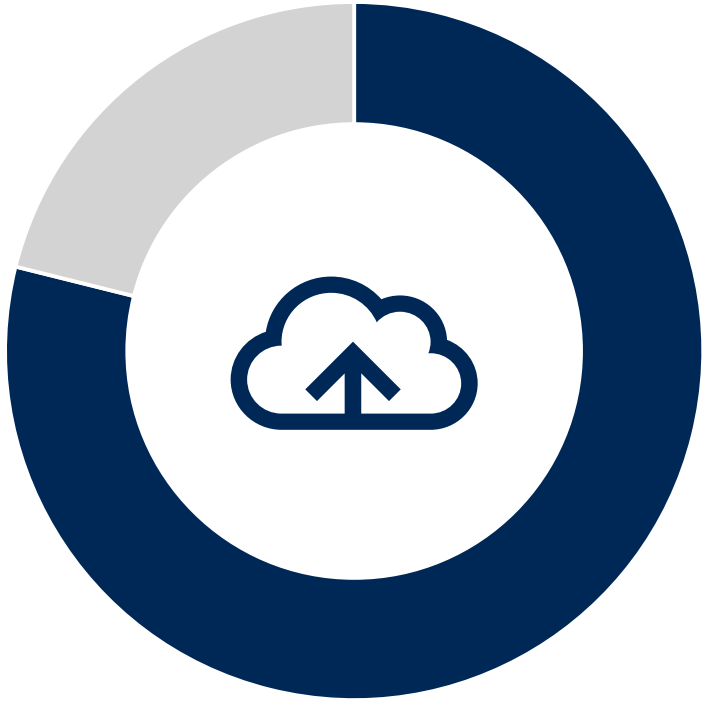

71%

Report that the majority of their cloud-resident data is sensitive

Source: Oracle and KPMG Cloud Threat Report 2019

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Trend 3:

Data Security Governance Framework

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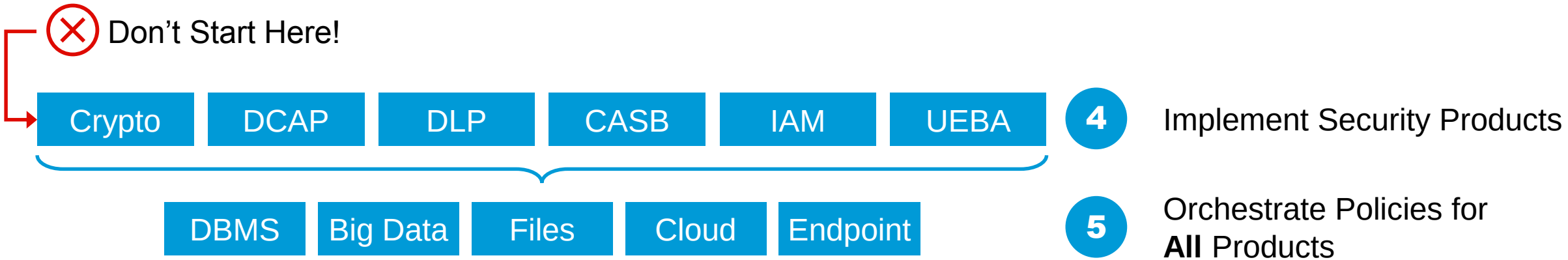
DSG Framework



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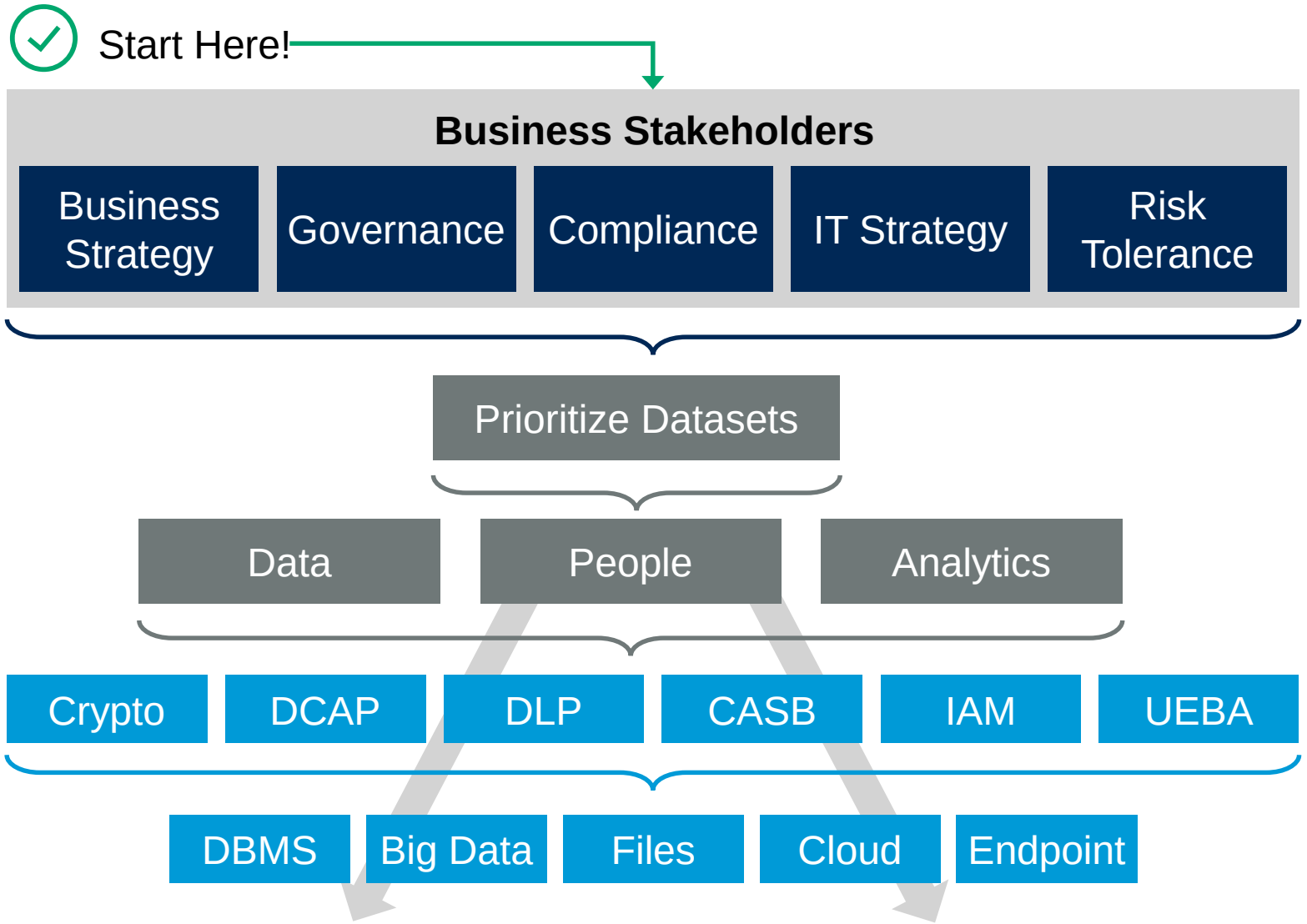
DSG Framework



1. Balance Business Needs Versus Risks
2. Identify, Prioritize and Manage Dataset Life Cycles
3. Define Data Security Policies
4. Implement Security Products
5. Orchestrate Policies for **All** Products

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Trend 4

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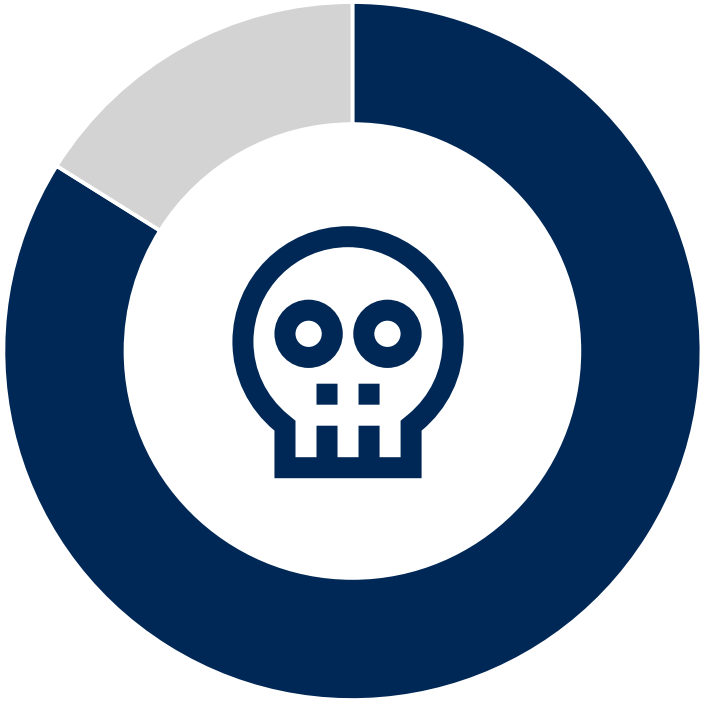

83.9%

of phishing attacks targeted credentials for financial, email, cloud, payment, and SaaS services

Source: "2019 Phishing Trends & Intelligence Report: The Growing Social Engineering Threat," PhishLabs

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Trend 4:

Dawn of Passwordless Authentication

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35%

of smartphones will adopt more than one biometric authentication method by 2022

Source: “2019 Phishing Trends & Intelligence Report: The Growing Social Engineering Threat,” PhishLabs

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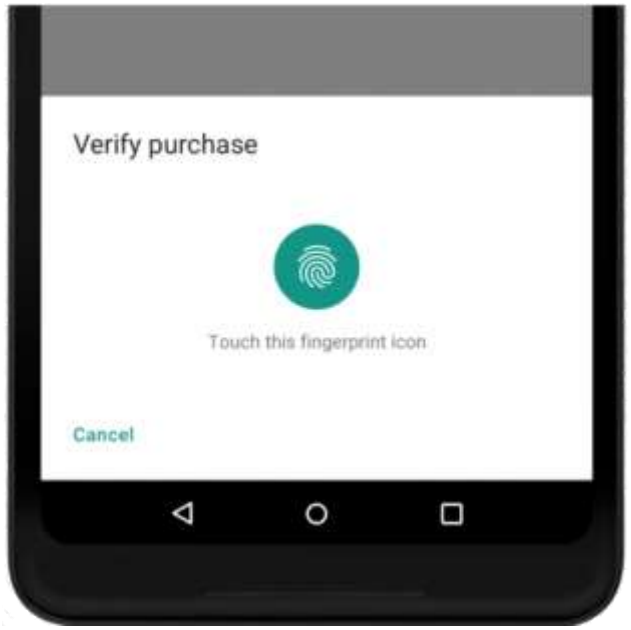
Passwordless Authentication



Windows Hello

Security Key by Yubico

fido ALLIANCE

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Trend 5

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70%

of organizations are unable to process more than 60% of their security event data.

Source: Oracle and KPMG Cloud Threat Report 2019

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Trend 5:

Security Operations Center Revitalization

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50%

of all SOCs will transform into modern SOCs with integrated incident response, threat intelligence and threat hunting capabilities by 2022

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Biggest Challenges

New

- Staffing
- Adopting new tools
- SIEM vs. EDR
- Or Outsource

Renewed

- Integrating threat intel
- Consolidating alerts
- Establishing playbooks
- Automating workflow
- SOAR

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Trend 6

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Trend 6:

Carta Proliferates

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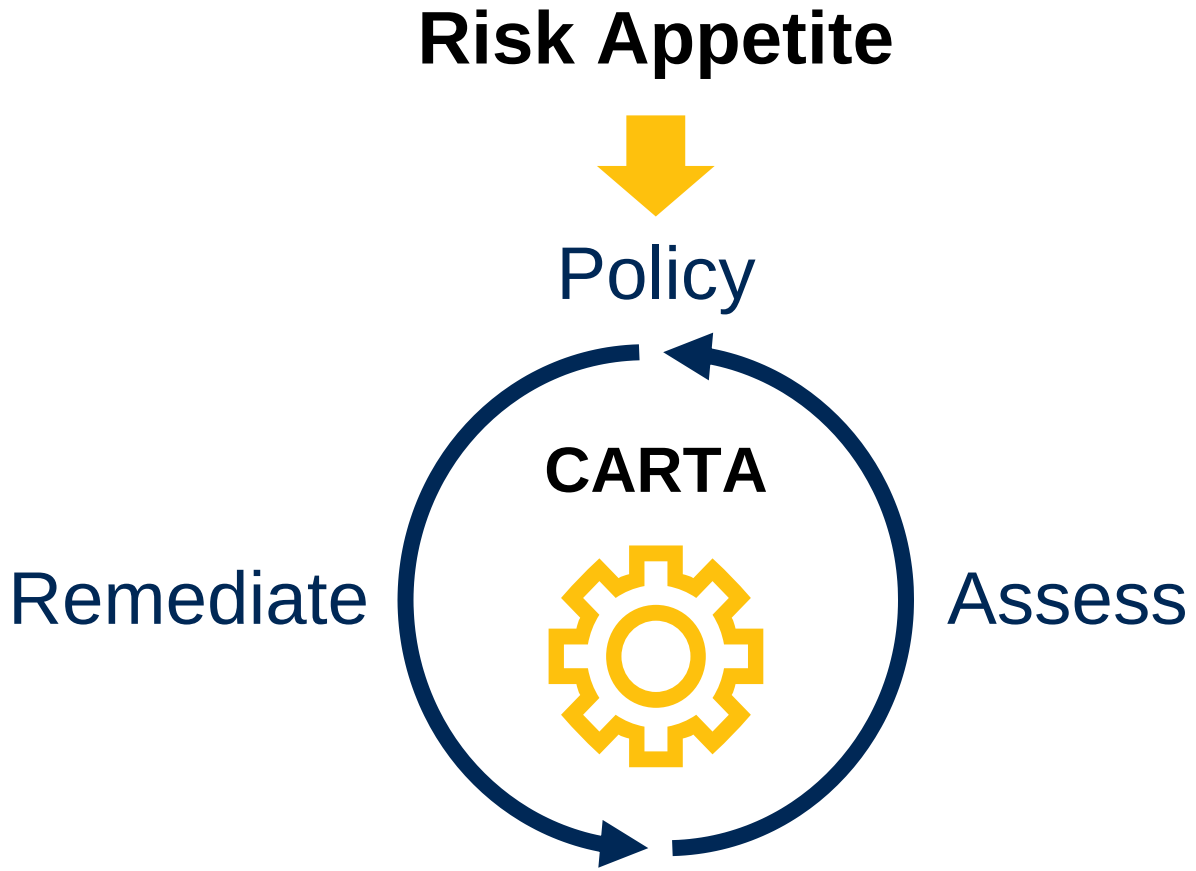
Examples

Intrusions detection inside the LAN

Internal protection for email



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Trend 7

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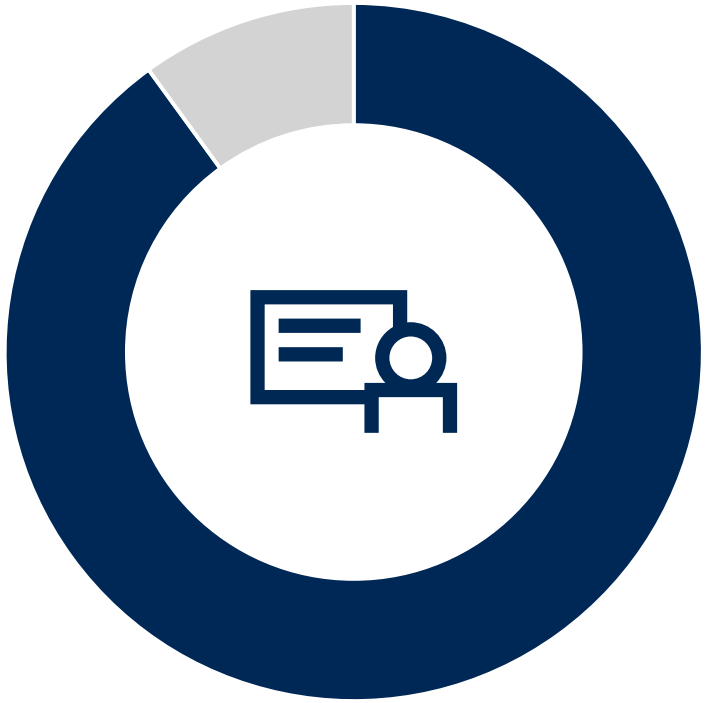

90%

of large enterprises CISOs expected to present security issues to business leaders.

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Trend 7:

Risk Appetite Statements Emerge

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The Simple Story

Sample Risk Appetite Statement

National Rail System has no appetite for safety risk exposure that could result in injury or loss of life to public, passengers and workforce. All safety targets are met and improved year on year. In the pursuit of its growth and modernization objectives, the NRS is willing to accept risks that may result in some financial loss.

- **Think Differently**
- **Explore New Options**
- **Challenge Assumptions**

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Recommendations

- Take advantage of security product vendors that are increasingly fusing products with services.
- Mature cloud security competency and invest in new tools
- Utilize data security governance framework to prioritize data security investments
- Exploit emerging Passwordless authentication techniques
- Adopt a CARTA mindset and augment one-time security gates with internal detection capabilities.
- Engage business stakeholders to create risk appetite statements.

Recommended Gartner Research

- **Top Security and Risk Management Trends**
  Peter Firstbrook, Brian Reed, Sam Olyaei and Others (G00378361)
- **Top 10 Security Projects for 2019**
  Brian Reed, Neil MacDonald and Others (G00378651)

For information, please contact your Gartner representative.

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