IBM Security

Government of British Columbia Security Day

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Cyber Security – There is No Silver Bullet

Sylvia B. Henson
Senior Data Security Sales Specialist

IBM

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Let the right people in
Keep the wrong people out

Challenge: People Can’t Protect What They Can’t See

74%

74% of non-IT executives have incomplete visibility into **data discovery**

- What are our most critical data assets?
- Where is the most critical data?

70%

70% of non-IT executives have incomplete visibility into **threat and vulnerability management**

- What will be the impact on the organization of losing data?
- What are the current risks to Data repositories?

70%

70% of non-IT executives have incomplete visibility into who is the **data owner**?

- What are our crown jewels?
- Who has access to data and who can approve access to data?

73%

73% of non-IT executives have incomplete visibility into **third party risk**

- Should we encrypt all data?
- Can the data be shared outside the bank?

Source: A commissioned study conducted by Forrester Consulting on behalf of Agile 3 Solutions, an IBM company

Challenge: Security Pros, Executives Speak Different Languages

IT Security Pros struggle to communicate **business relevant, security insights** to Non-IT Executives

67%

Of Security Pros struggle to **identify** the most useful data security and risk metrics for non-IT executives

66%

Of Security Pros struggle to **translate** data security and risk into business risk for non-IT executives

65%

Of Security Pros struggle to **communicate** real-time insight into critical data for non-IT executives

People Need ***business context*** to Improve Data Security

Common phrases we hear from People

Lead, Security Operations

"The FS-ISAC alert this morning reported on a Windows vulnerability that affect Windows Server 2012 and SQL Server 2015 with CVE-123456"

Chief Security Officer

"Our patch management process is mature. Every quarter, we patch 98% of our databases, 95% of our Web Applications, and 90% on Windows and Linux OS. I'm sure our data security practices are effective"

The missing context

- How critical are the Windows systems to the business?
- What is the business impact ($$) of the vulnerability reported?
- Who owns the applications?
- What is the criticality of the data on databases or applications not patched?
- Where do the applications reside?
- Are there any regulatory implications?

3 Guiding Principles of IBM Data Security

Dynamic Defense

- Can’t protect what you’re unaware of
- Volume of data makes manual threat hunting impossible
- Need dynamic and right-time data protection

Customer Trust

- Data Privacy increasingly important to organizations
- Regulatory requirements getting increasingly complex
- Need to be empowered to deliver on compliance and customer trust

Business Agility

- Need faster and more focused decision making
- Demonstrate greater ROI
- Require greater infrastructure flexibility

Empowering Human Interaction

Data Privacy Regulations

CISOs responsible for enforcing privacy controls

75%

consumers will not buy a product from a company if they don't trust the company to protect their data[1]

$2.6B

GDPR Spending on Security in 2019 - IDC

1.https://newsroom.ibm.com/Cybersecurity-and-Privacy-Research

Data Privacy Orchestration and Automation

1. Build a strong privacy program
2. Gain risk-based privacy insights
3. Automate privacy controls

Promote privacy, build trust, differentiate and grow

1

Build a strong privacy program

Implement a holistic, continuous, dynamic privacy foundation

- Assess risk and privacy controls
- Develop privacy readiness roadmap
- Conduct executive reviews
- Implement privacy and security measures

Risk and privacy assessment
Privacy readiness
Regulatory expertise

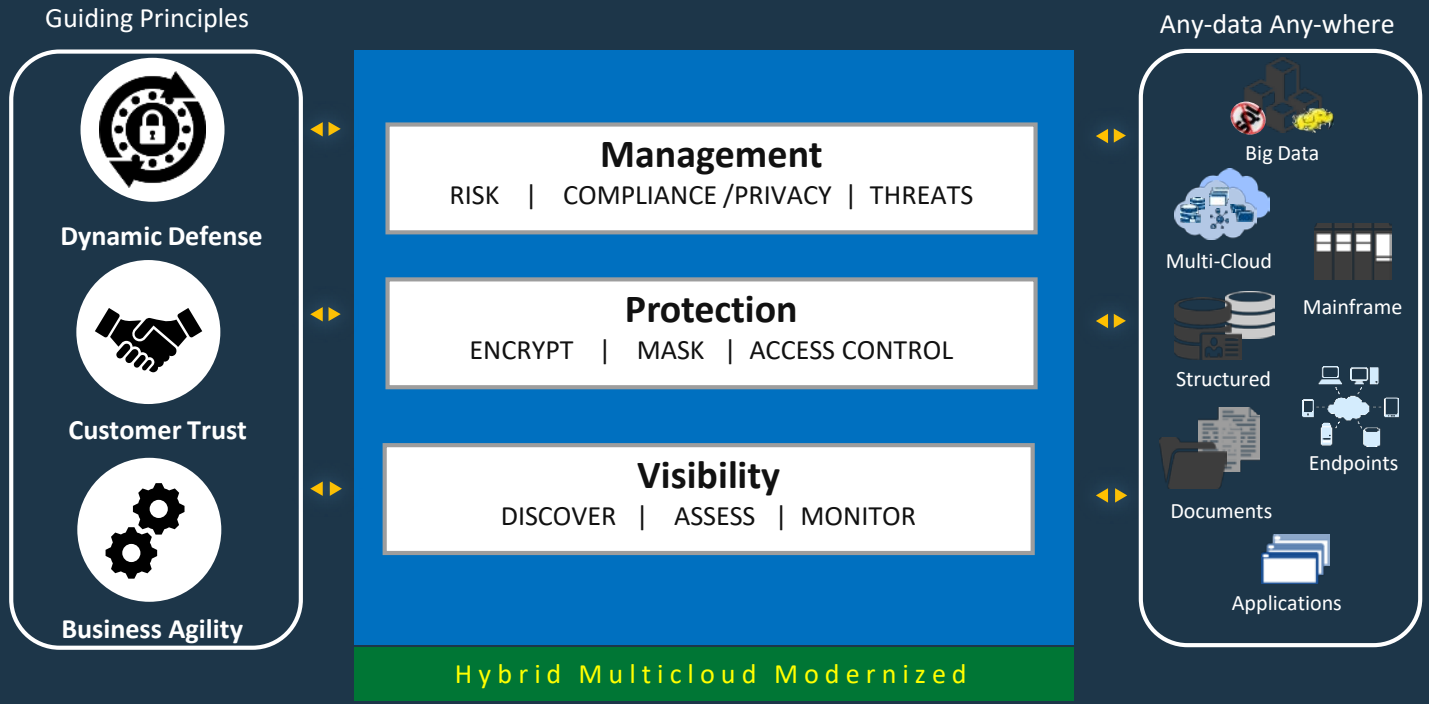
2 Gain risk-based privacy insights

Leverage risk-based visibility and privacy insights for actionable business impact

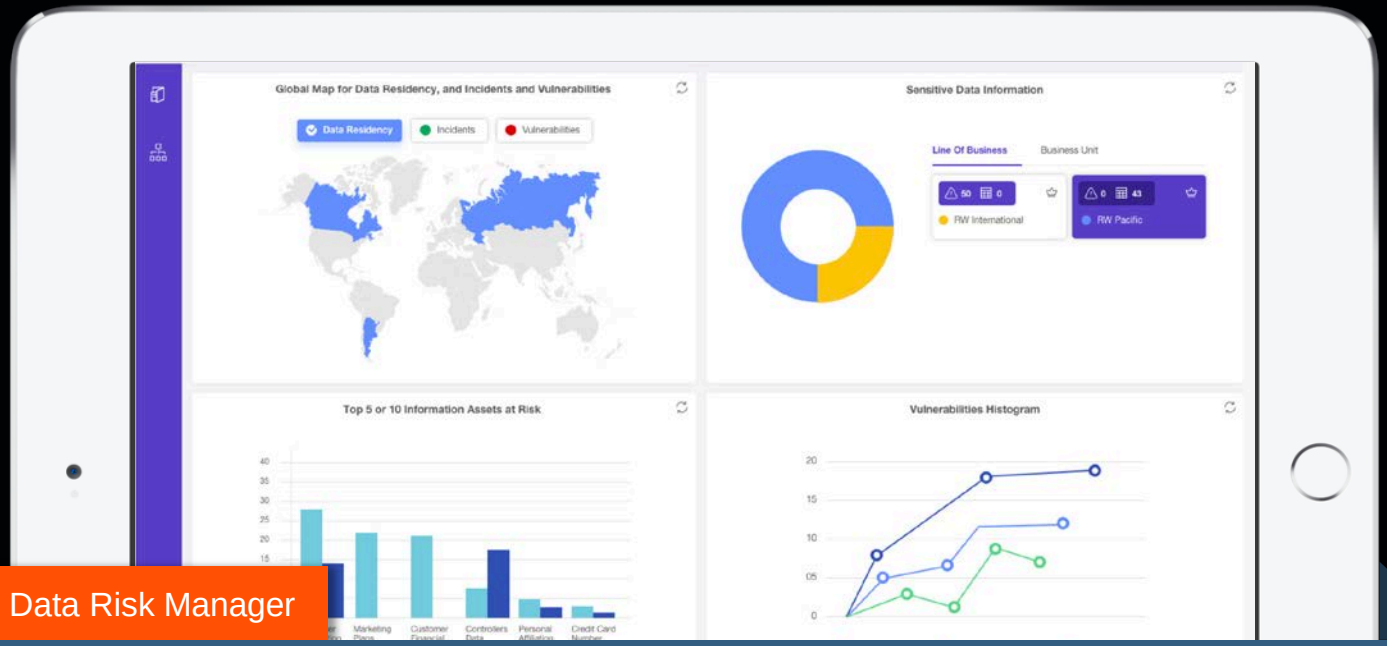
- View privacy and risk from a single dashboard
- Prioritize actions for risk mitigation
- Govern and control access to personal data
- Apply necessary security and privacy controls
- Prepare for privacy incident response

Data protection and compliance	Identity and access management	Incident Response Orchestration	IBM Services

NextGen IBM Data Security Platform



Get Closer to the Silver Bullet : Data Risk Manager



IBM Data Risk Manager

Uncover, analyze and visualize data-related business risks

- Identify specific, high-value, business-sensitive information assets
- Gain early visibility into potential risks to data and processes
- Inform executives with a business-consumable data risk control center

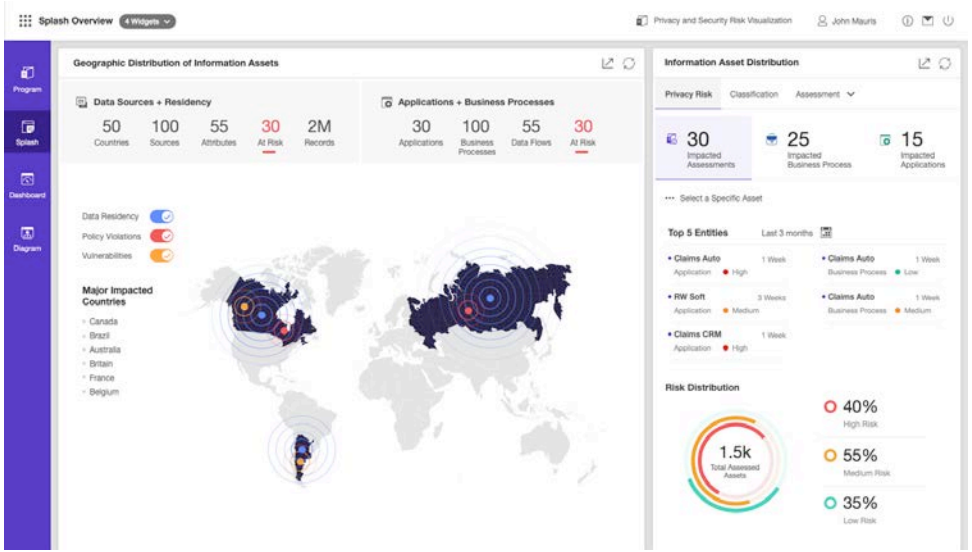
IBM Security Data Risk Manager

Identify – Visualize – Communicate

Data Risk Manager provides executives and their teams with a business-consumable data risk control center that helps to uncover, analyze, and visualize data-related business risks so they can effectively collaborate and take action to protect their business.

KEY BENEFITS

- **Identify high-value, business-sensitive information assets** that are at risk from internal and external threats, and provide an end-to-end view of business metadata associated with crown jewel data via an interactive data risk control center
- **Visualize potential risks with business risk evaluation modeling** that correlates threats, vulnerabilities, controls, and business attributes across information assets to highlight where the business is at risk & provides remediation recommendations
- **Communicate data risk information** across teams, business units, and technologies to your board of directors with an executive ready dashboard and reports



The missing business context addressed by DRM

Decision-enabling insights around critical data

What?

- Categories of data critical to the business
- Data subjected to regulatory and compliance requirements

How?

- Protection measures implemented for safeguarding data
- Effectiveness of data monitoring, encryption, vulnerability management and others

Where?

- Physical and logical location of the data store
- Location of users and applications accessing data from

Security?

- Security controls for data protection
- Assessment for evaluating data risk

Who?

- Stakeholders responsible for safeguarding the data
- Organization units involved in the data lifecycle

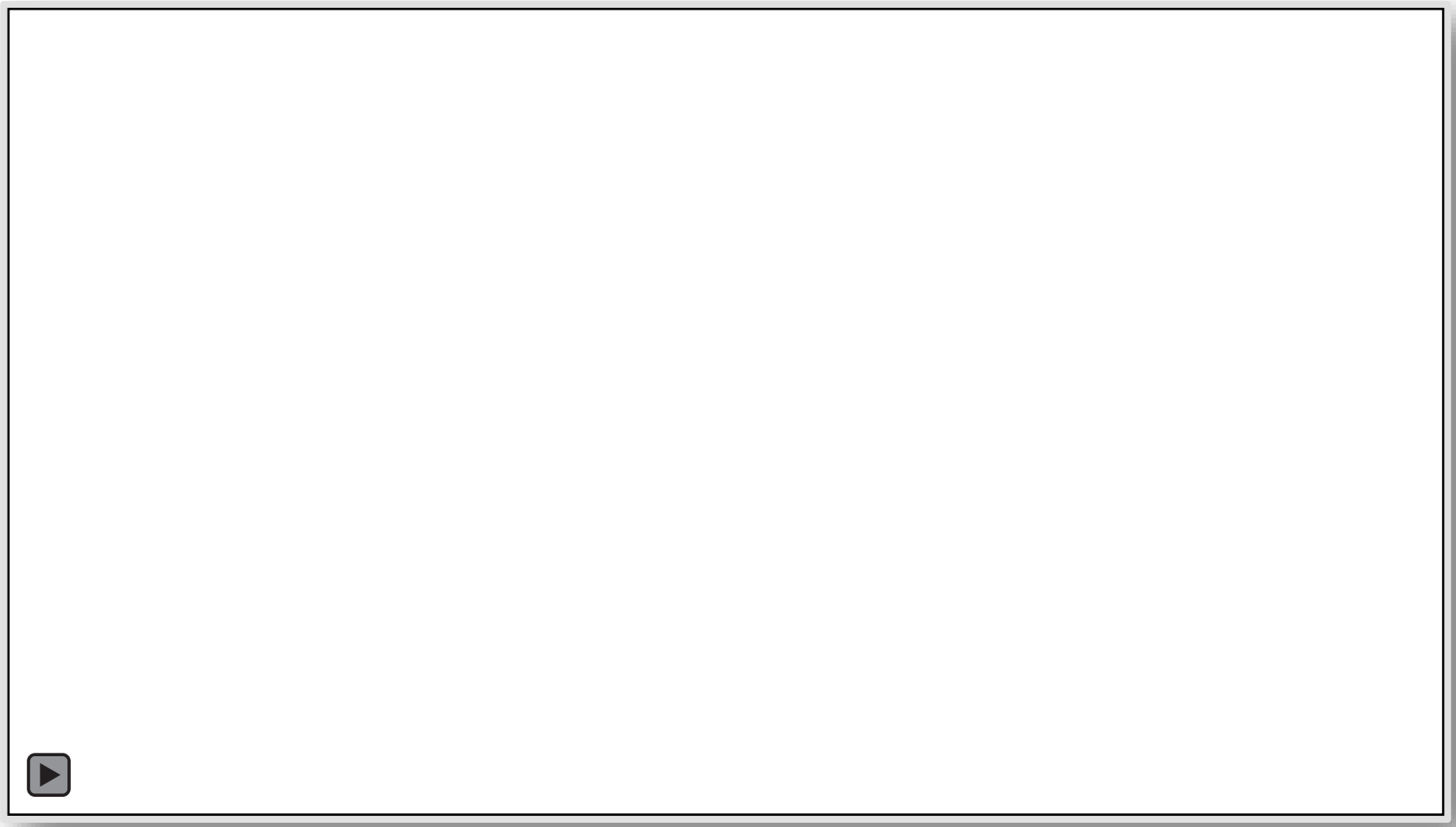
Governance?

- Risk and mitigation for identified data risk
- Action management for risk reduction

Why?

- Applications and Business Processes that rely on critical business data
- Business or compliance need for data usage, storage, retention

DRM Video



Q&A

IBM Security – a leader in its category:

Analyst Reviews

FORRESTER®

A leader in Forrester Wave report on Data Security Portfolio vendors

kuppingercole ANALYSTS

A leader in the Leadership Compass on Database and Big Data Security

Peer Reviews

G2

A leader for Summer 2019 in Data-Centric Security Software

IT Central Station

Ranked #1 in Database Security

IBM Security

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