

Proposed Incident Response Methodology For Data Leakage

Presenting the best processes and procedures to safeguard
your business while preventing data leakage

Alex Rabello, Junior Goulart, Marcelo Karam, Marcos Pitanga, Reinaldo Gomes Balduino Filho and Ronaldo Ricioni

IESB University Center – Brasilia, Brazil

alex.rabello@privamax.com.br, jgoulart@vidalink.com.br, karam@unb.br, marcos.pitanga@talkcomm.com.br, reinaldo.balduino@iesb.edu.br and ronaldo@r3force.com



The Sixteenth International Conference on Software Engineering Advances
ICSEA 2021
October 03, 2021 to October 07, 2021 - Barcelona, Spain



Ronaldo Roberto Ricioni

Cybersecurity | Data Protection | Privacy | IT Governance

Sao Paulo, Brazil

MBA in Data Protection - IESB University Center - Brazil, 2021

CISO & RM IT Security Certification - EC-Council - USA, 2021

Executive Certification - SLOAN MIT and Bentley University - USA, 2012

MBA in Technology Innovation & Operations - FIA USP - Brazil, 2011

Telecommunication & Network Engineering - FEI - Brazil, 2000

Career development in Information Security, Risk Management and IT Governance with +20 years of work experience managing IT infrastructure and Cybersecurity services for large organizations in the financial and telecommunications market, such as, Neon, Afinz, Stone Pagamentos, Rede and Convergys Corporation.



ronaldo@r3force.com

Proposed Incident Response Methodology For Data Leakage

Purpose

Provide insights responding properly to any security and privacy incidents in order to safeguard organizations while preventing data leakage

Outline

- Purpose
- Introduction to incident response management
- Challenges & scenarios of data leakage
- Proposed methodology for data leakage approach
- Final considerations



- Purpose
- **Introduction to incident response management**
- Challenges & scenarios of data leakage
- Proposed methodology for data leakage approach
- Final considerations



Introduction

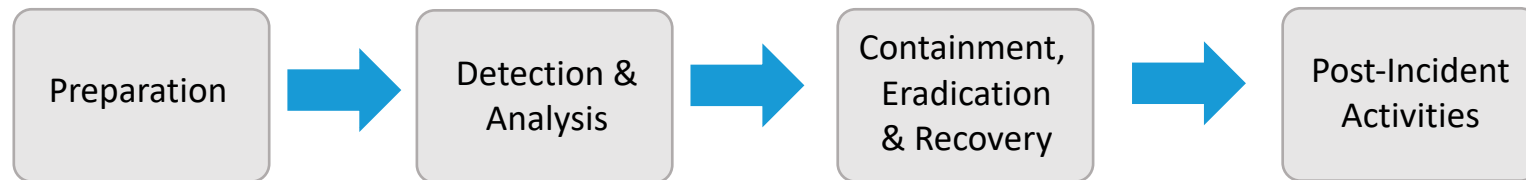
Overview of Incident Response

- ✓ Incident Response Management for security and privacy
- ✓ Risk analysis mapping possible data breaches scenarios
- ✓ Preferred way to handle the security incident lifecycle
- ✓ Frameworks with best practices of Incident Response Management
- ✓ Appropriate communication and notification with transparency

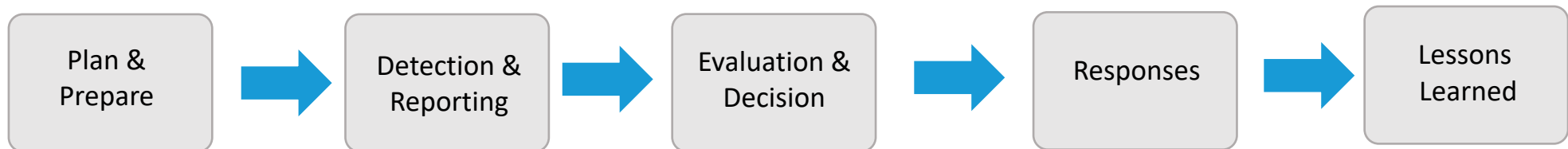
Introduction

Incident Response Processes

NIST 800-61 - Computer Security Incident Handling Guide



ISO 27035 - Information security incident management



- Purpose
- Introduction to incident response management
- **Challenges & scenarios of data leakage**
- Proposed methodology for data leakage approach
- Final considerations



Challenges & scenarios of data leakage

Breach Type of Data Exposed

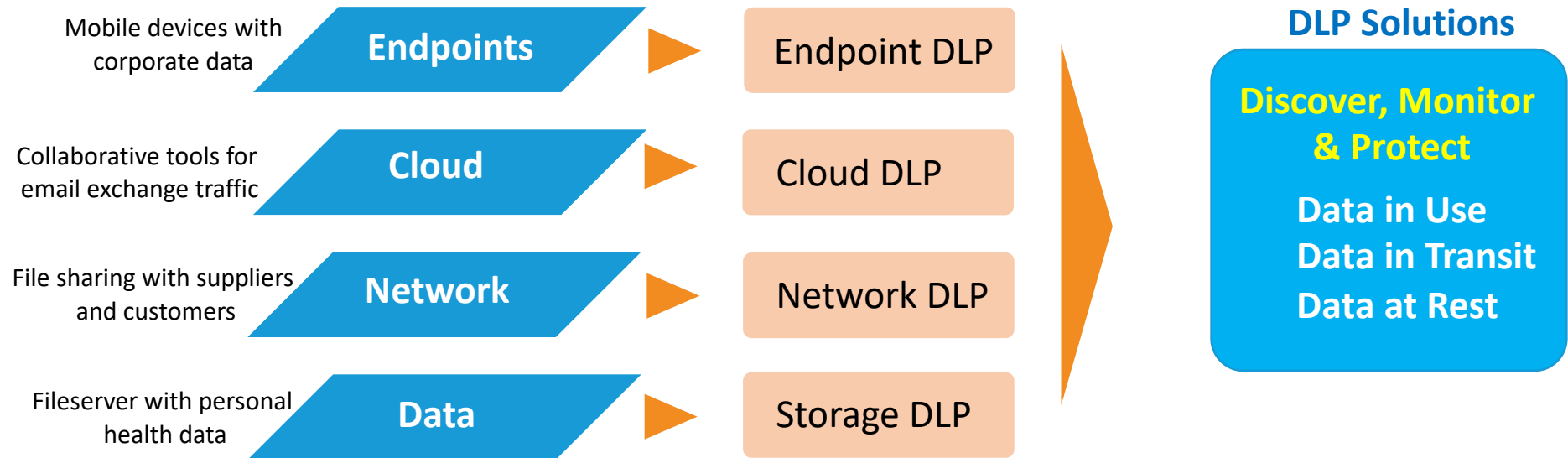
- ✓ Contact & Location information
- ✓ Personal Health Information
- ✓ Financial Identification Number
- ✓ Banking & Payment Information
- ✓ Username & Password

Reasons for Data Loss

- ✓ Software Failure
- ✓ Virus/malware
- ✓ Hardware Failure
- ✓ Human Error
- ✓ Theft/Malicious Employees

Challenges & scenarios of data leakage

Data Loss Prevention

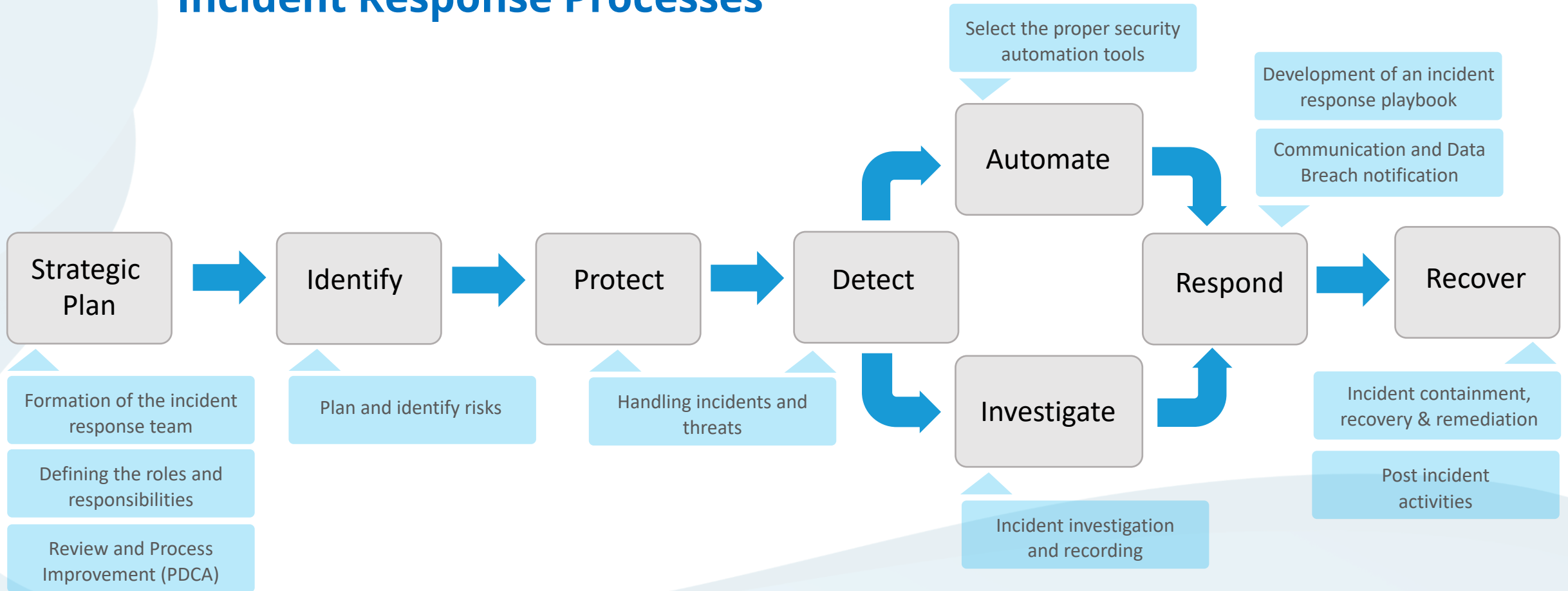


- Purpose
- Introduction to incident response management
- Challenges & scenarios of data leakage
- **Proposed methodology for data leakage approach**
- Final considerations



Proposed methodology for data leakage approach

Incident Response Processes



- Purpose
- Introduction to incident response management
- Challenges & scenarios of data leakage
- Proposed methodology for data leakage approach
- **Final considerations**



Final considerations

Key points

- ✓ Develop a team with diverse abilities (security, privacy, legal, public relations)
- ✓ Proper documentation and chain of custody for the entire incident timeline
- ✓ Use of security automation tools applied to short deadlines for notification
- ✓ Lessons Learned & Continuous Improvement
- ✓ Decision plan for public notification

Thank You for your time



ronaldo@r3force.com