



Strategies to Safeguard Sensitive Information




Rose Lally - CISO and VP, Governance & Controls at Altisource

October 17, 2024






Agenda

- Brief intro
 - Personal data protection
 - Assess your risk posture first
 - Strategies for Safeguarding Sensitive Information
 - Wrap Up and Questions
- 
- 



Brief Intro – Rose Lally

Rose began her career as a software engineer in customer support and implementations for healthcare information systems then went on to leadership positions in eCommerce, data center hosting, operations, business continuity and disaster recovery. She then led a Technology Services organization, responsible for the service desk, infrastructure, vendor management and information security at a global manufacturing company. Upon joining Altisource in 2014 she built the technology Governance & Controls program, began leading information security in 2018, vendor management and facilities management since 2020. Rose received her MBA from Bentley University and lives near Boston with her family



Personal Data Protection



What personal data do you want protected?

social security,
and other
government
issued numbers

geo location
data

address
book

Medical
records

photos &
videos

logins &
passwords for
online accounts

credit card
numbers

Email
addresses

home
address

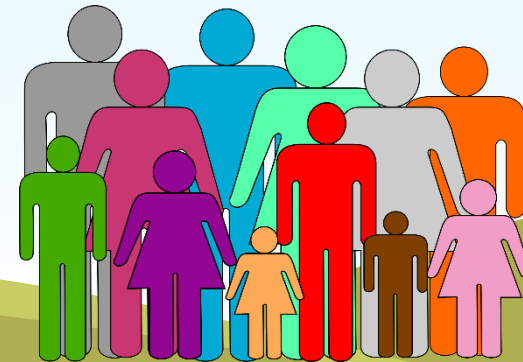
vehicle
registration
number

Date of
birth

passport
information

financial
credentials

Mother's
maiden
name



What's happening out in the world of data breaches

Company / Organization	Year	Impacted Users
MGM Grand	2020	10 million
LinkedIn	2021	700 million
T-Mobile	2023	37 million
23andMe	2023	20 million
National Public Data	2024	Millions of social security numbers, Billions including the deceased
AT&T	2024	7.6 million current customers, 65.4 million former customers
Ticketmaster	2024	560 million
Dell	2024	49 million

Data security risk statistics

64% of Americans have never checked to see if they were affected by a data breach

44% of users report recycling passwords across personal and business related accounts

In 2022, the Federal Trade Commission received more than 1.1 million reports of identity theft



94% of malware is delivered via email

~60% of data leaks occur due to exploited, unpatched vulnerabilities

95% of cybersecurity incidents are ***due to human error***

Over 75% of targeted cyberattacks start with an email in 2024, making phishing a primary vector for cybercrime

78% of people claim to know the risks that come with clicking unknown links in emails and ***yet still click these links***

Source: <https://www.varonis.com/blog/cybersecurity-statistics/>

All rights reserved. These materials may not be reproduced without written permission. This publication is designed to provide general information prepared in regards to the subject matter covered and should not be utilized as a substitute for professional service in specific situations.

What bad things can happen with stolen personal data?

**SCAM YOUR
CONTACTS**

**HACK YOUR
DEVICE**

**STEAL YOUR
IDENTITY AND
MONEY**

BURGLARY

**INSURANCE &
BANK LOAN
FRAUD**



All rights reserved. These materials may not be reproduced without written permission. This publication is designed to provide general information prepared in regard to the subject matter covered and should not be utilized as a substitute for professional service in specific situations.

Assess your risk posture



Assess your personal risk posture

What is risk?

The potential for uncontrolled exposure to danger, harm or loss

What is your risk tolerance level?

Think about your home security

What are you protecting yourself from?

Are you trying to protect anything inside the house from getting out?

What is the likelihood of these different risks occurring?

What is your appetite for risk?

What are your known vulnerabilities?

What compensating controls have you put in place to get to a tolerable level of risk?





Assess your company's risk posture

What are your hard guard rail requirements?

- Audits, regulations, contractual obligations, other?

How aware/educated are employees on data security?

Do you know your vulnerabilities?

Estimate the potential damage if your company is hit with a major data breach, phishing incident or ransomware attack

How aligned is your security budget, including resources?

What level of risk is your company willing to tolerate?

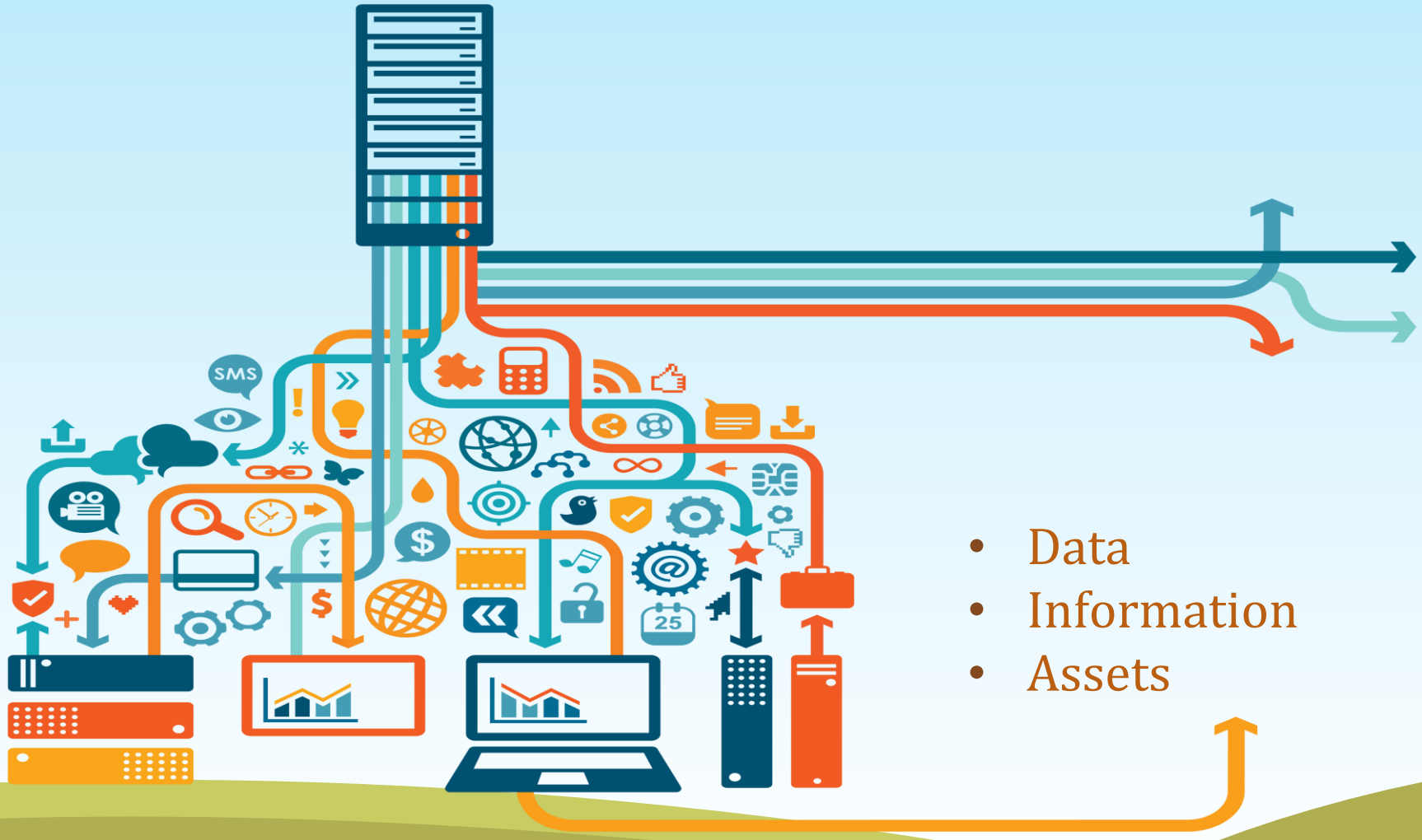
Strategies for Safeguarding Sensitive Information



What are you safeguarding?

- Data
- Information
- Assets

All rights reserved. These materials may not be reproduced without written permission. This publication is designed to provide general information prepared in regard to the subject matter covered and should not be utilized as a substitute for professional service in specific situations.



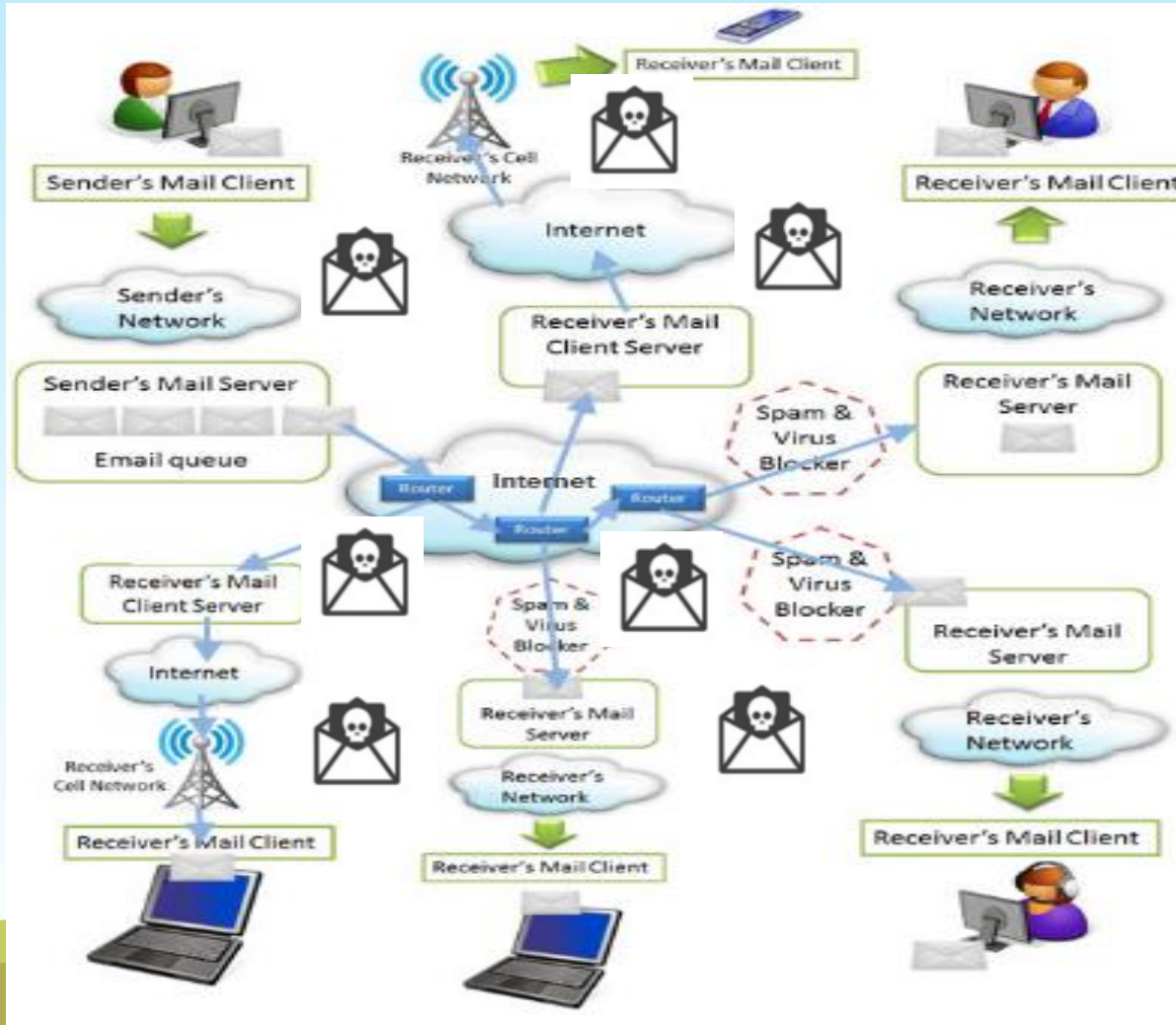
- Data
- Information
- Assets



-
- A stylized tree where the trunk is a large orange circle with a white lowercase 'i' (information), and the branches are filled with various colorful icons representing technology, communication, and media.



How Emails Travel – Riskier And More Complex Than It May Seem



Think about how many emails do you send and receive in a day

How many recipients are on those emails?

How many times do they go back and forth?

Information security risk increases with the # of recipients involved, the number of times the email goes back and forth, lack of encryption of sensitive information, and use of personal email addresses

Information Security Maturity Model

Level 0 – Blissfully Unprepared

- No policies or standards
- No information security tools
- Lacking necessary information to take effective action
- Unaware or unable to respond to issues
- Stakeholders oblivious – no employee education on security

Level 1 – Reactive, starting to reduce risk

- Established Information Security Policies & Standards
- Have basic tools and structures to react to business requirements
- Cannot proactively prevent problems from arising
- Vulnerability backlog
- Educating employees
- Stakeholder reluctance

Level 2 – Defined, compliance focused

- Data is encrypted in transit and at rest
- Data Loss Prevention tools in place
- Established controls for Policies & Standards
- Role based, least privilege access
- Have tools, structure, processes to proactively address current issues and challenges
- Managing vulnerabilities effectively
- Employees educated
- Stakeholder buy-in

Level 3 – Risk based, Anticipatory

- Have tools, structure, organizational processes to proactively address future issues and challenges
- AI & Automation
- Hunt threats
- Behavior trending
- Understand current and future risks tied to business strategy
- Risk based decisions
- Stakeholders autonomous and proactive

Level 4 – Continuous Improvement

- Optimal security program
- All security risk areas continuously monitored, initial responses to security incidents automated
- All information classified and labeled



Strategizing - It's all about risk

1. Determine what risk areas are applicable to your company and assess risk posture
2. Get internal agreement on your current cybersecurity maturity level and what level of maturity the company wants to strive for
3. Prioritize compensating controls implementation
4. Roadmap the game plan by year at a reasonable pace, considering budget and resource constraints



2024



2025



2026



202?



Level 0
Blissfully unaware

Level 1
Reactive, starting to
reduce risks

Level 2
Defined, compliance
focused

Level 3
Risk based & anticipatory

Level 4
Aligned with business and
continuously improving



Wrap Up and Questions

Ensure you have reasonable situational risk awareness

Understand what your security requirements are



Right-size your cybersecurity protection at work and at home

