



Why DLP is Critical to Protect Your Institution

March 30, 2022

Viviana Campanaro – CISSP

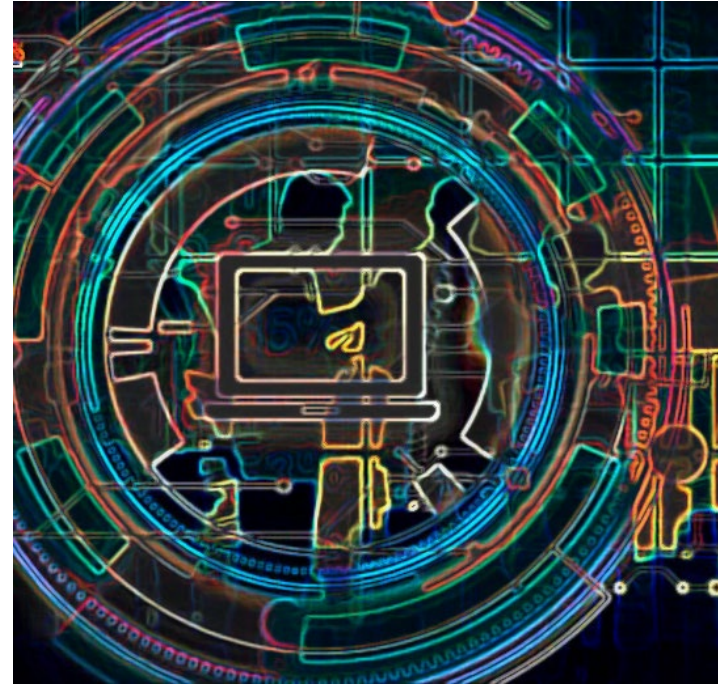
Security & GRC Solutions Specialist – Gladiator® at Jack HenrySM

Scott Dale

Technical Product Manager – Gladiator at Jack Henry

What we'll cover

- Today's Threat Landscape
- What is DLP
- DLP Best Practices
- Key Takeaways



Today's Threat Landscape

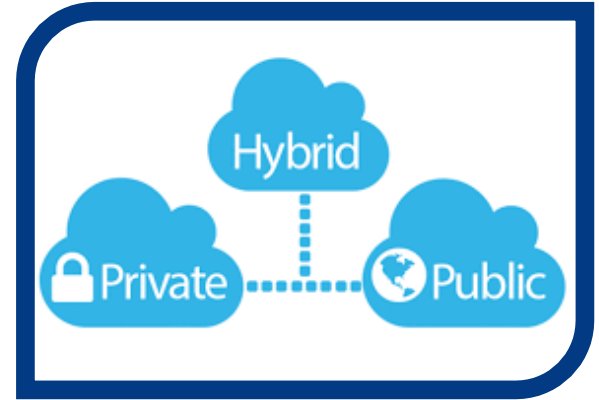
Sophisticated Threats



Geopolitical Conflict



Complex Environments



Decrypt0r 3.0

 **OOPS!** 

Your files have been Encrypted

To recover your files, send \$750,000 worth of Bitcoins to the following Address:

12fjps0932mksJPksd184Mfd01ajsoamf

TIME LEFT

-23:59:28:00



Source: <https://theguardian.com>

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Sanction Implications for US Financial Institutions

Global cyber threat level was raised to ELEVATED.

Overall cyber hygiene is the best protection.

Is your institution:

- Preparing now for a potential cyber-attack?
- Validating that your third-party service providers are meeting your information security standards?



Executive Risk Report

18 March 2022 | EP - 02 - 2022



More Cyber Threats...

- Sanction-related Phishing
- Target US banking executives
- Vulnerability exploits
- Malware
- Data Exfiltration



2021 had the highest average cost in 17 years



Data breach costs rose from USD 3.86 million to USD 4.24 million, the highest average total cost in the 17-year history of this report.

Data breaches are expensive!

Source: <https://www.ibm.com/security/data-breach>

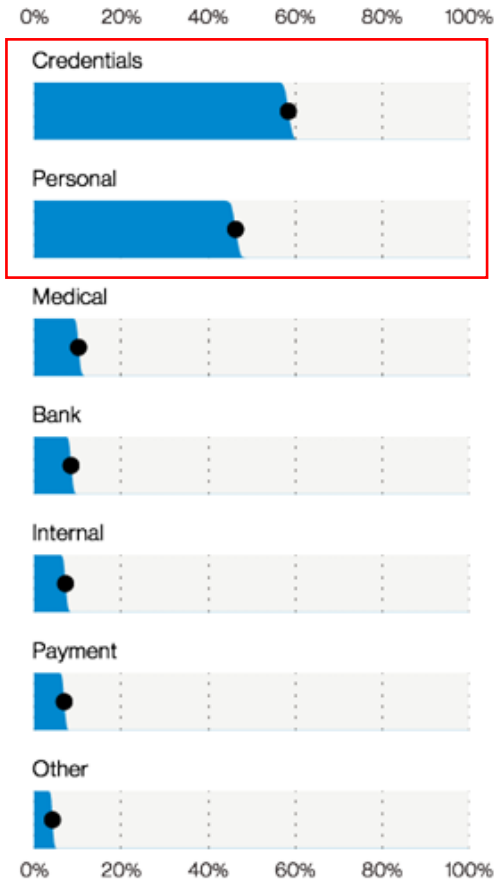


Figure 35. Top data varieties in breaches (n=4,552)



Source: 2021 Verizon Data Breach Investigations Report



Your Objective is to Ensure:



Data Security

- Confidentiality, Integrity

System Availability

- 24x7 access

Regulatory Compliance

How to Gain Total Visibility?

Modern-day security approach

- Integration of
 - People
 - Applied Threat Intelligence
 - SIEM/SOAR/SOC
 - Modern Security Technology





What is Data Loss Prevention (DLP)

“A comprehensive approach (covering people, processes, and systems) of implementing policies and controls designed specifically to discover, monitor, and protect confidential data wherever it is stored, used, or in transit over the network and at the perimeter.” - FFIEC



Data Loss Prevention (DLP) in Audits

Support and Delivery - Procedure 12 (FDIC InTREx Program)

Determine the adequacy of security monitoring for the network, critical systems and applications. Also determine whether sufficient controls are in place to protect against malware. Consider the following:

□ ...

□ Ability to detect and prevent the unauthorized removal of data from the network (e.g. data loss prevention)

Source: FDIC, Information Technology Risk Examination Program



Data Loss Prevention (DLP) in Audits

FFIEC IT Examination Booklets

Information Security - II.C.9 Network Controls

Tools used to enforce and detect perimeter protection include... data loss prevention (DLP) systems.

Architecture, Infrastructure & Operations – IV.B Design Objectives

Management should include the following aspects in its architecture design:

- *Security and privacy throughout the entity's network (e.g., IAM controls and data loss prevention).*

Source: FFIEC, IT Examination Handbook InfoBase



What is Data Loss Prevention (DLP)



- Objective: Ensure data protection
- Identify sensitive information across your organization
- Prevent the unauthorized transfer of data outside your organization



Why Data Loss Prevention (DLP)



Data Loss Prevention

- Better Visibility
- Enforce Data Classification
- Protect Confidential Data
- Regulatory/Legal Compliance

Data Loss Prevention (DLP)

Network DLP

- Monitors data in motion
- Implemented at network egress points (web/mail gateway, firewall)

Endpoint DLP

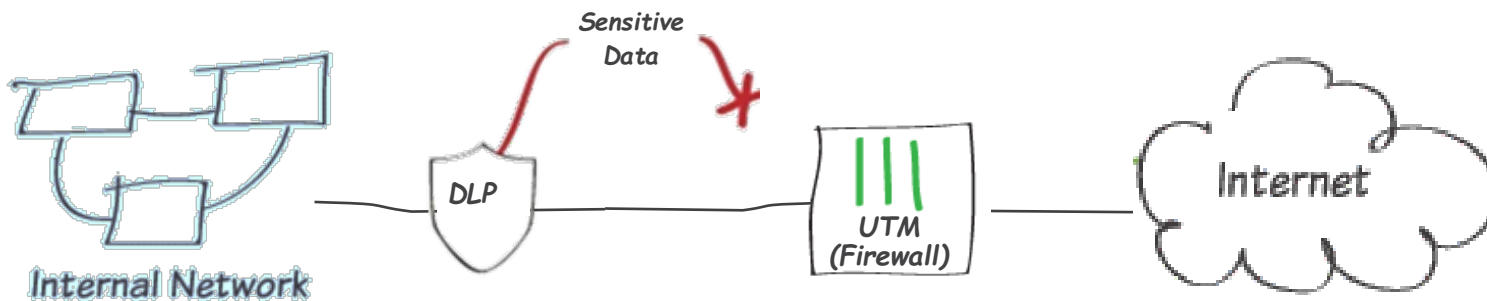
- Monitors data at rest
- Data stored on workstations, servers, mobile devices
- Implemented as endpoint agents

Cloud DLP

- Enforce endpoint DLP on cloud accounts
- O365, Google, Azure, AWS

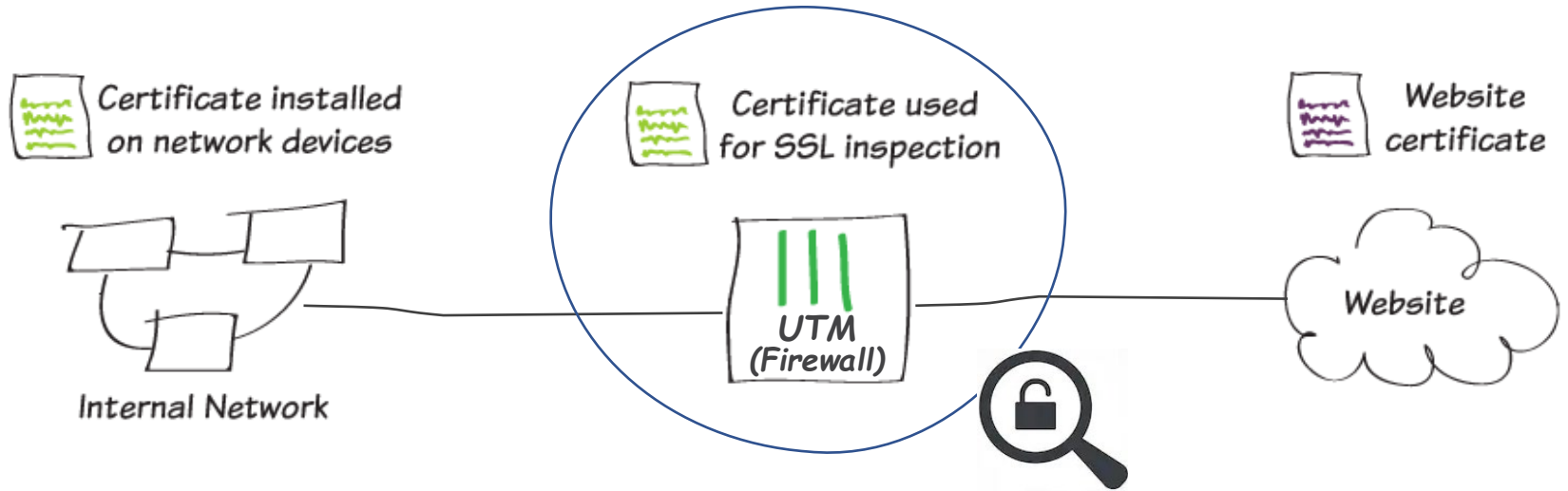
Data Loss Prevention (DLP)

- Keep sensitive information from leaving your network
- Data Leak Prevention (DLP) security profile
- Patterns of data leaving the network



Encrypted Web Browsing (SSL-DPI)

- 85% of web traffic is encrypted
- Encrypted data cannot be inspected
- SSL – DPI (Secure Socket Layer – Deep Packet Inspection)





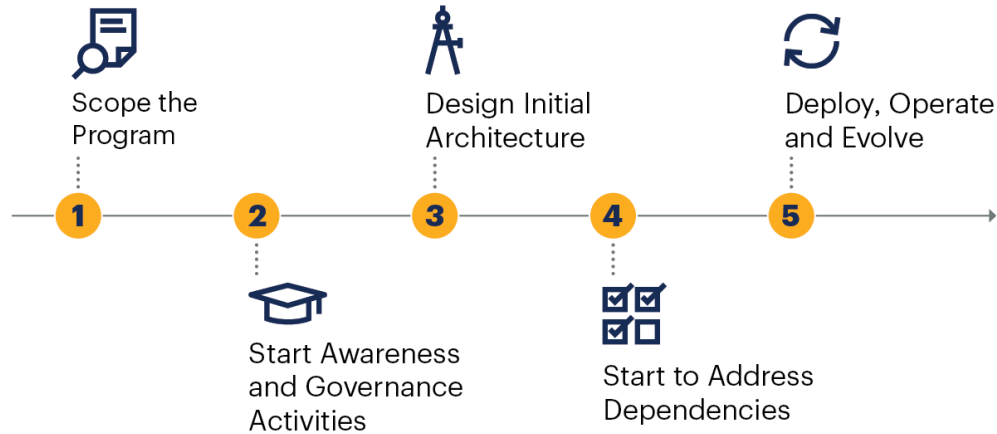
DLP Best Practices

- Create a Data Inventory – Types, Location, Users
- Establish a Classification system – A common framework
- Perform a Data Assessment – Know what you're protecting
- Update your Policies – Data Handling, Incident Response
- Centralize the DLP Program – One Size Fits All (or should!)
- Implement in Phases – Prioritize based on risk
- Educate Employees – Data Handling Policies, Incident Reporting



Five Steps to a Successful DLP Implementation Framework

DLP Implementation Framework



gartner.com

Source: Gartner
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Gartner[®]

Source: <https://www.gartner.com/en/articles/build-a-successful-data-loss-prevention-program-in-5-steps>

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What to look for in DLP

Overall capabilities

- DLP Endpoint
- DLP Discovery
- DLP Network
- DLP Advanced Detection
- DLP Management System
- DLP Vendor Integrations
- Configuration Flexibility

Vendor/Service Provider

- Pricing Flexibility
- Understands Your Needs
- Technical Support
- Responsiveness
- Peer Reviews

Implementation

- Ease of Deployment
- End User Training
- API Integration
- 3rd Party Resources

<https://www.gartner.com/reviews/market/enterprise-data-loss-prevention>

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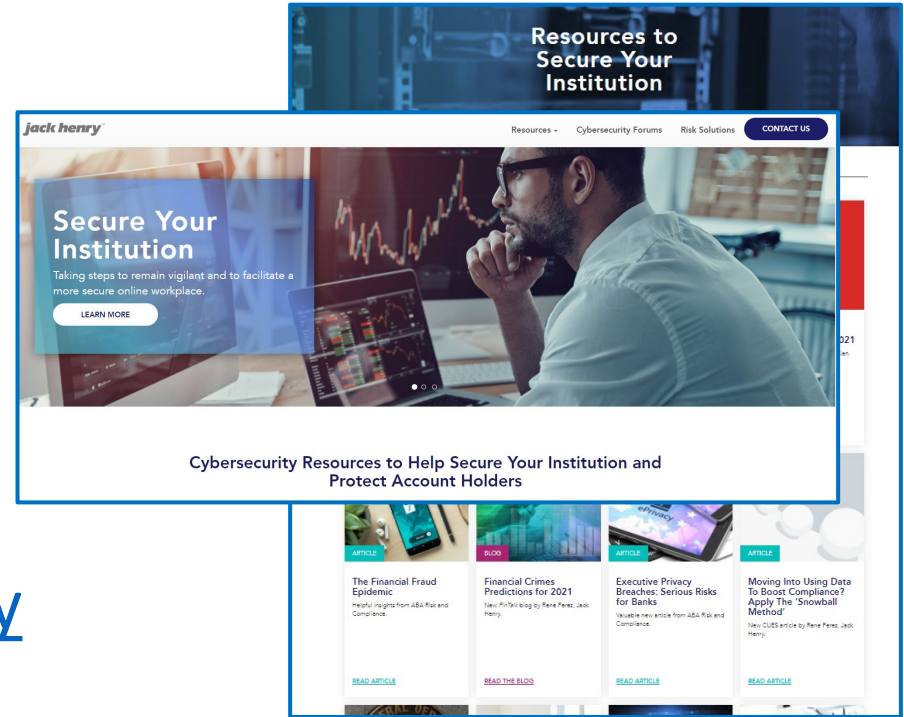
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Next in our Webinar Series

SIEM Part 3:

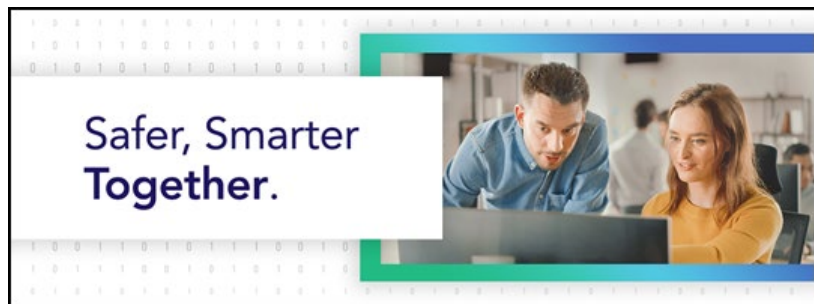
How Endpoint Detection and Response (EDR) Can Help Stop Breaches

Tuesday, May 24, 2022

2:00 p.m. CT

Register Now:

<https://discover.jackhenry.com/cyber-security/new-webinars>



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Thank You!

Viviana Campanaro – CISSP

vcampanaro@jackhenry.com