



# DataStealth

Realtime Content Protection.  
It's Required. And It's Easy.



# About DataStealth



Participating Organization

Level 1 Service Provider

# PCI DSS 4.0

March 2022: PCI DSS 4.0 Published

March 2024: PCI DSS 3.2.1 Retired

PCI DSS 4.0 New Requirements

# Tech Talk Focus

Requirement 6.4.3  
Requirement 11.6.1

# Requirement 6.4.3

All payment page scripts that are loaded and executed in the consumer's browser;

- confirm that each script is authorized
- a method is implemented to assure the integrity of each script
- an inventory of all scripts is maintained with written justification as to why each is necessary

This requirement applies to iFrames and 3rd party scripts as well!

# Requirement 6.4.3

Appears to be easy to address using;

- CSP: Content Security Policy
- SRI: SubResource Integrity

# Requirement 6.4.3

*It Is Not A Simple Page Change!*

# Requirement 11.6.1

A change and tamper detection mechanism is deployed to alert personnel to unauthorized modification to the HTTP headers and the contents of payment pages as received by the **consumer browser**.

# Requirement 11.6.1

Achieving the requirements

Browser Scripts?

Plugins?

Periodic Scans?

***There is a better way!***

# DataStealth PCI

 **DataStealth**

PCI

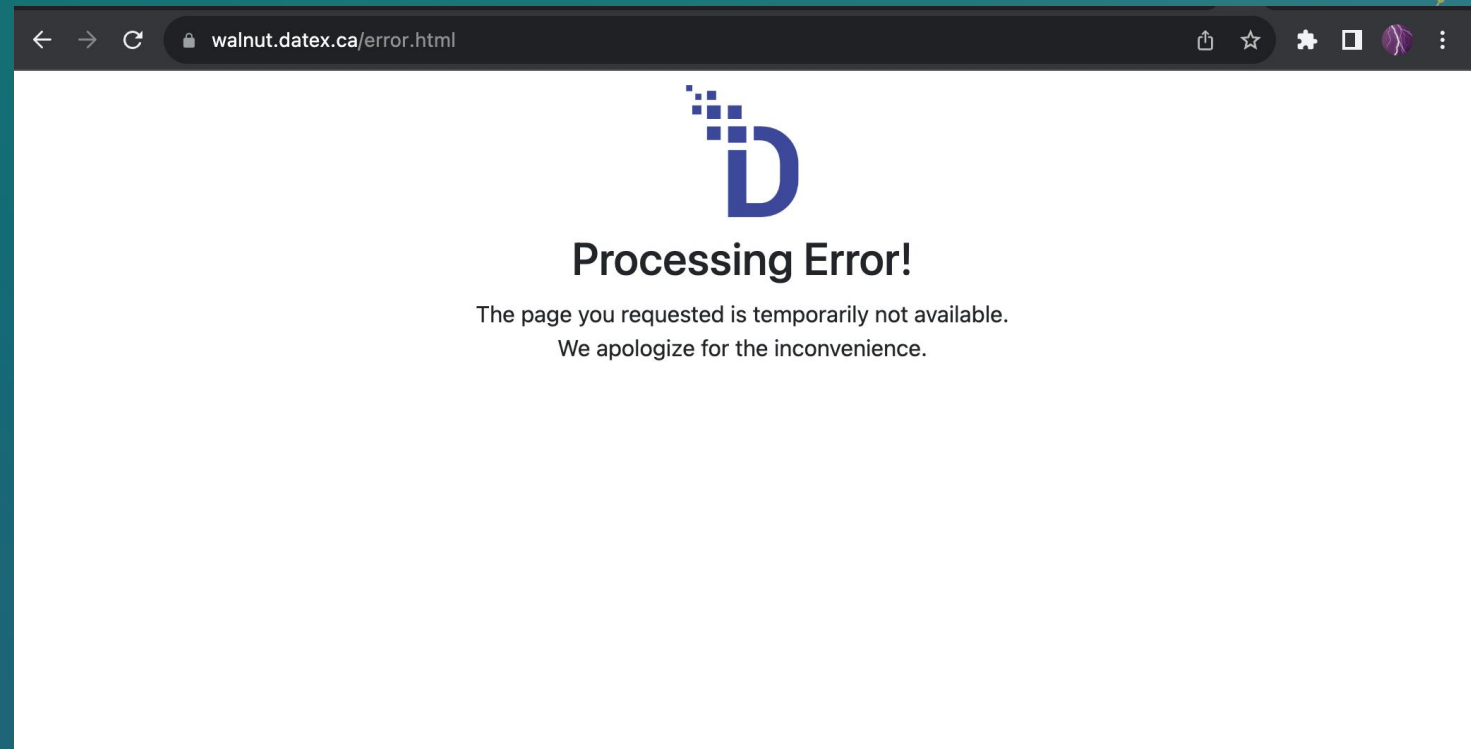
Payment Card Compliance Solutions

# DataStealth PCI

## Content Integrity Checks

```
<head>  
<meta http-equiv="Content-Security-Policy" content="script-src 'self';">  
<script src="js/include.js"  
  integrity="sha384-1QHhtxZwS3h1HyojLRgvUIrerevbymuVZXvOVTo97VTr6qcfu4JtAbcP9g/Qxo+B"  
  crossorigin="anonymous"></script>  
<script src="js/malicious.js"  
  integrity="sha384-aX2UJPnikt6SCgVL6ZgCNa2Hx9qubdynN5182vnyeFbLQ2Jr+eBITxBN1PFcbTDL"  
  crossorigin="anonymous"></script>
```

Unauthorized Change

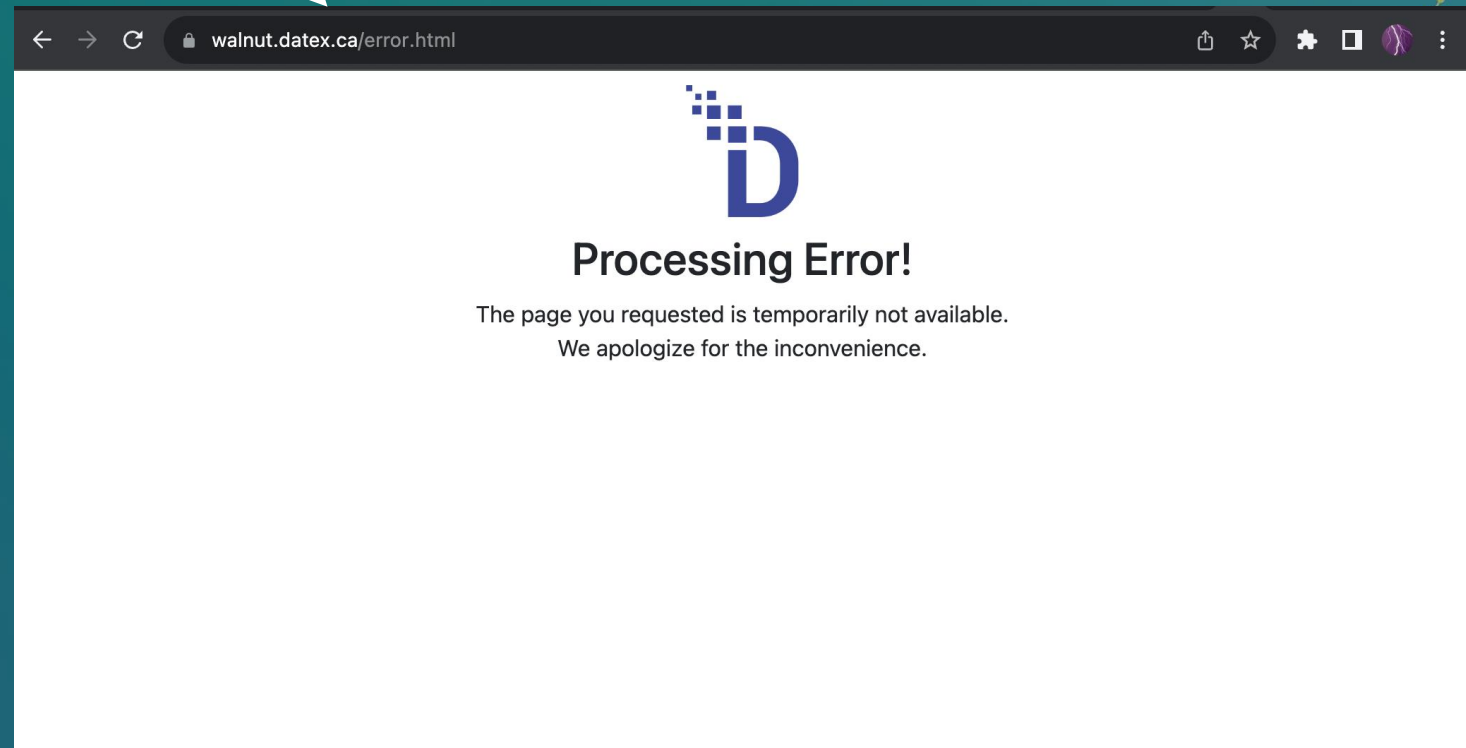


# DataStealth PCI

## Header Integrity Checks

```
-----  
{Content-Security-Policy} = [default-src 'self'; frame-src 'self' *.hacker.com *.vaulting.io; script-src 'self' 'unsafe-inline'; style-src 'self' 'unsafe-inl  
{Strict-Transport-Security} = [max-age=31536000; includeSubDomains]  
{X-XSS-Protection} = [1; mode=block]  
{X-Content-Type-Options} = [nosniff]  
{X-Frame-Options} = [DENY]  
-----
```

Unauthorized Change



# DataStealth PCI

## Transparent Security Injection

Original

```
<head>  
<script src="https://cdn.provider.com/include.js"></script>
```



Updated with CSP, SRI and a verified provider

```
<head>  
<meta http-equiv="Content-Security-Policy" content="script-src 'self';">  
<script src="https://verified.datastealth.com/cdn/provider/js/include.js"  
  integrity="sha384-1QHhtxZwS3hlHyojLRgvUIrerevbymuVZXvOVTo97VTr6qcfu4JtAbcP9g/Qxo+B"  
  crossorigin="anonymous"></script>
```

# DataStealth PCI

## Transparent Card Tokenization

Account ▾ Products ▾

**DataStealth**

### Shopping Cart Checkout

**Sold To:**  
Jane Smith  
401 Edgewater Place  
Suite 600  
Wakefield, MA 01880

#	Description	Qty	Cost	Total
1	Product name here	1	\$17.47	\$17.47
2	Another product name here	10	\$0.47	\$4.70
3	Final product name here	2	\$12.44	\$24.88
<b>SubT</b>	Order Subtotal			\$47.05
<b>Tax</b>	MA Sales Tax (6.25%)			\$2.94
<b>Total</b>	Order Total			\$49.99

Cardholder Name  
Jane Smith

Expiry Month  
02

Year  
2025

Credit Card (from DataStealth as Tok...  
C153534046979168823426561zq

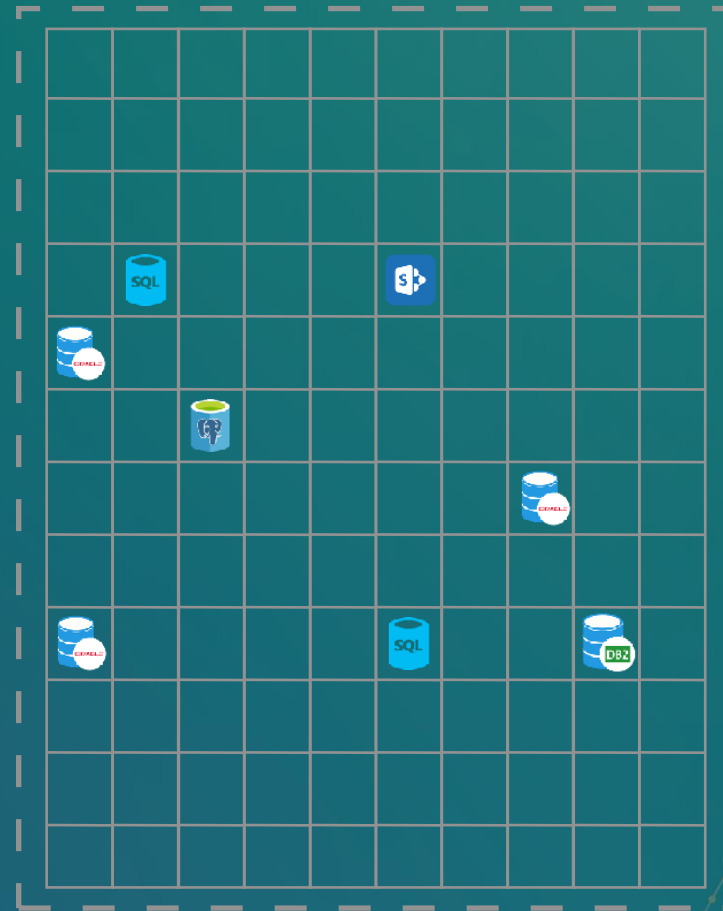
Credit Card (DataStealth Injected)  
4111111111111111

Card Verification Code  
124

[Place Order](#)

# DataStealth PCI

Payment Card Discovery



Your Network





# Thank You

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