Eskimming Threat & Tools

The Rising Threat of Eskimming and What to Do About It

Presented by John Bartholomew, Sr. VP, Technology

John Bartholomew

Sr. VP, Technology

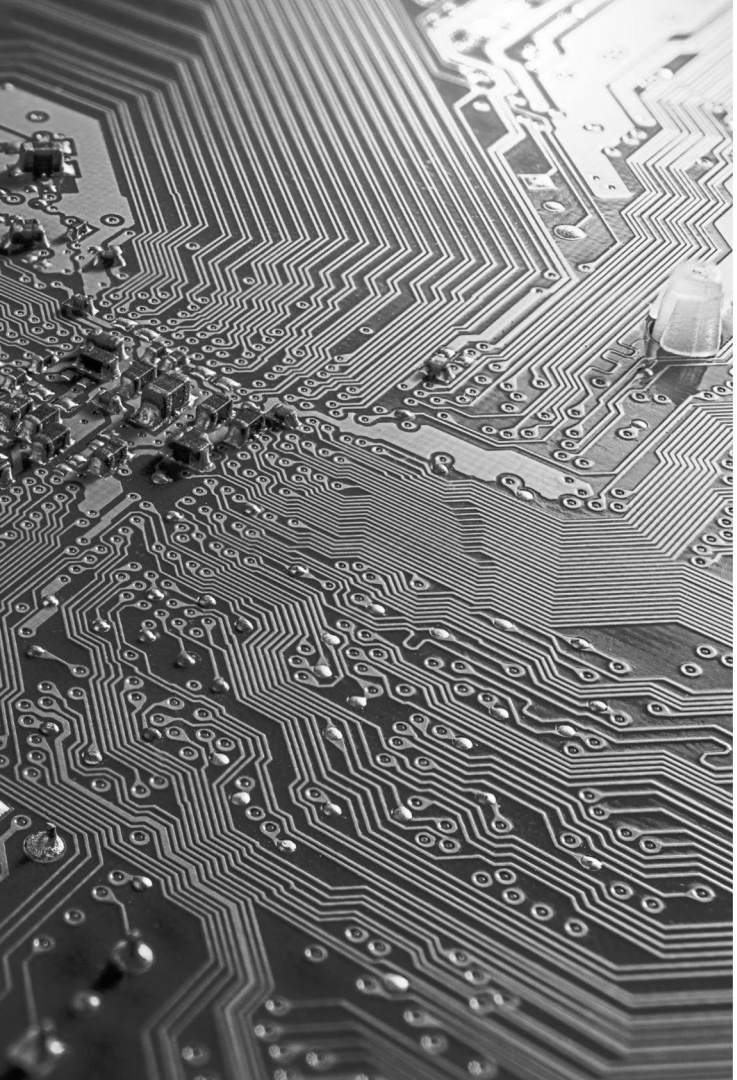
securityMETRICS®

SecurityMetrics Insight from 500+ ecommerce sites

SecurityMetrics Services:

- **Shopping Cart Inspect**
- **Shopping Cart Monitor**
- **Incident Response Forensics**

securityMETRICS®



Increased Sophistication

- Obfuscation
  - Multi-layer encryption
  - Minification
  - Piggybacking
  - Deep Embedding
  - Similar naming
- Intermittent Attacks
  - Iterative
  - Randomized
  - Detection avoidance

Staying under the threshold for detection

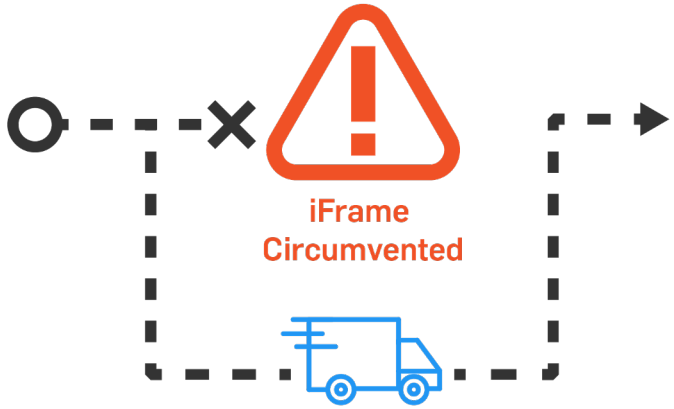
Cardholder Data Environment (CDE) is exploding with third parties

Secure iFrame Circumvention

- 1 Step (not the known 2-step approach)
- Successful payment submission

Genie is out of the bottle…
Unknown is how soon this will become widespread

Demo & discussion
@SecurityMetrics Booth



Primary Recommendations

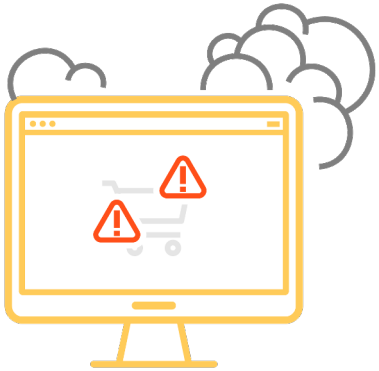
- Web server & web dev security
  - SAQ A's improving hosting security
- External code/javascript accountability & authorization
- Monitoring Client-side Checkout Integrity

Shopping Cart Inspect

Abbreviated forensics of shopping cart client/browser-experience

Sample Shopping Cart Inspect Findings

CONCERNING



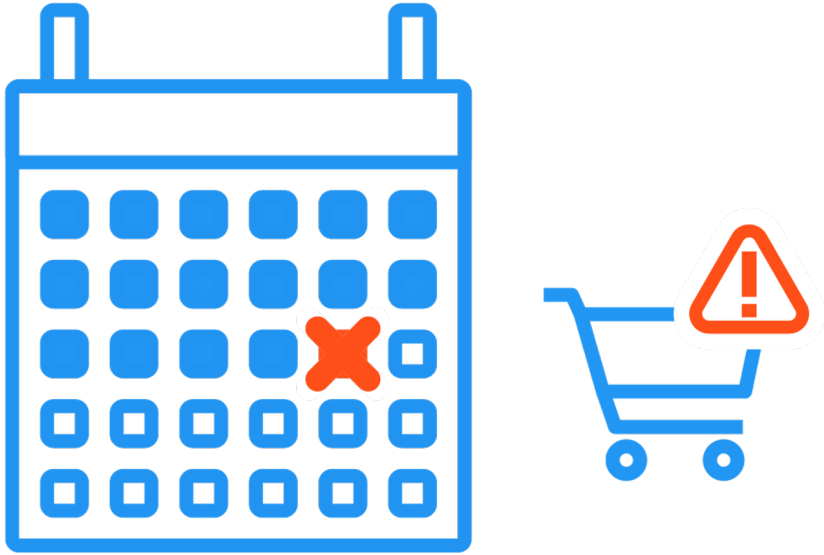
SUSPICIOUS

MALICIOUS

Shopping Cart Monitor

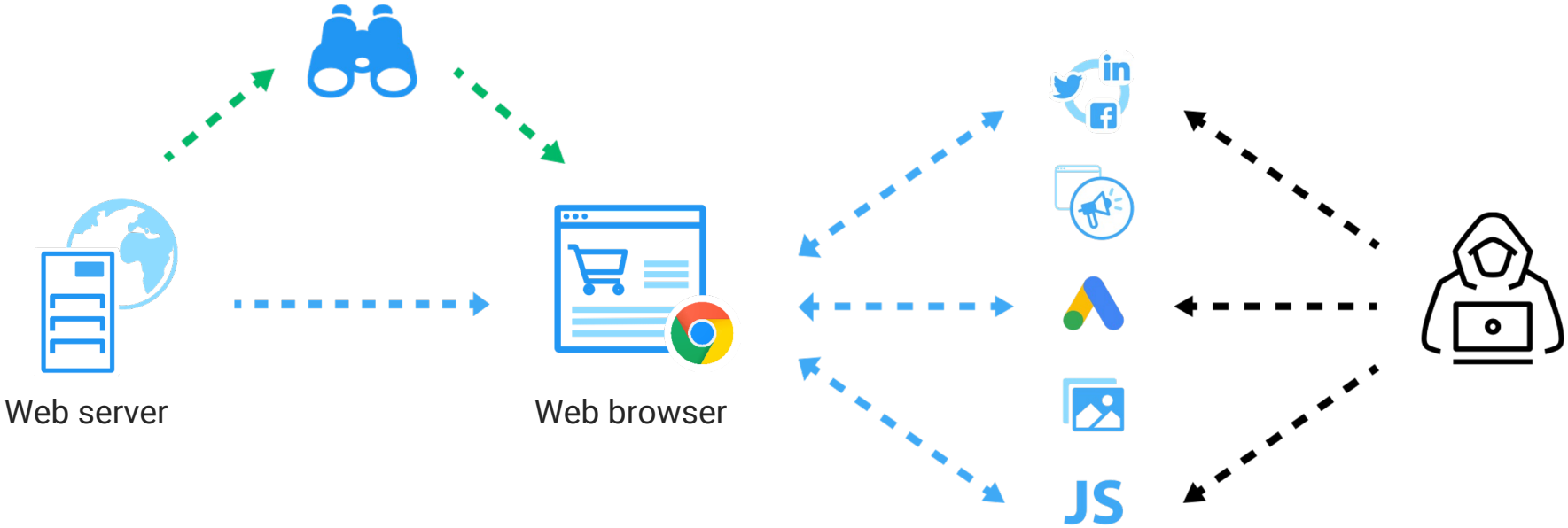
Recurring client-side ecommerce checkout review

Timely breach notification

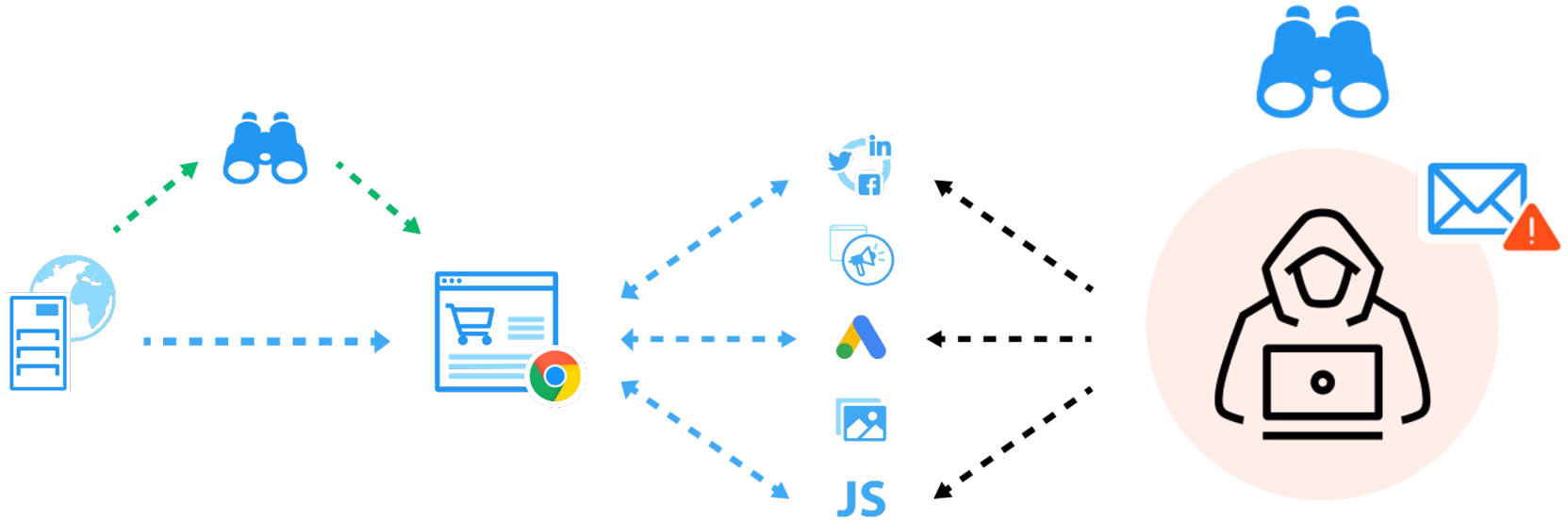


Client: Synthetic Sally Shopper

Shopping exactly like the real Sally Shopper



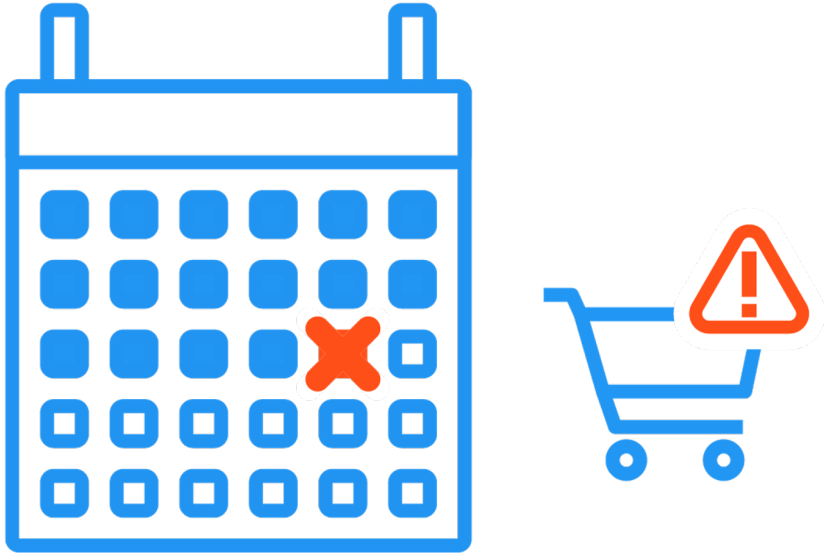
Threat Intelligence Center
alerts the customer

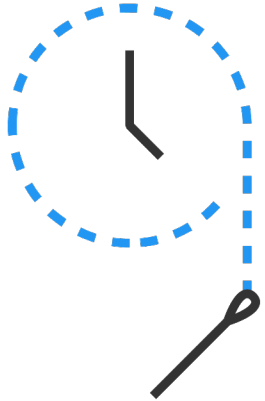


Shopping Cart Monitor

Advantages

- No customer installation
- Minimal site impact
  = One customer shopping
- **Effective injection identification**





a stitch in time saves time, money, and jobs

Come visit us!

John Bartholomew
jb@securitymetrics.com