RSA Conference 2015 San Francisco | April 20-24 | Moscone Center

SESSION ID: ANF-W02

Finally We've Got Game: Real Government Info Sharing After 15 Years Of Talk



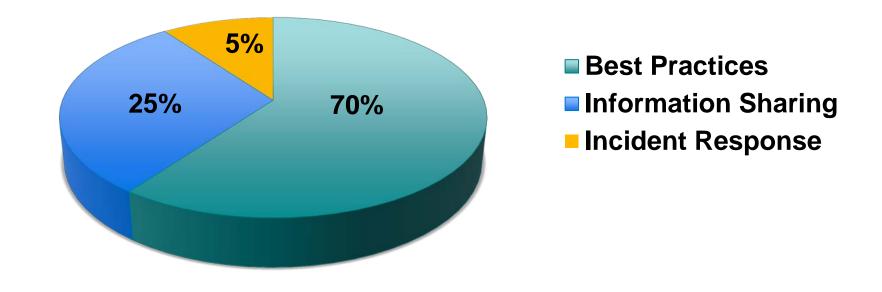
Dr. Andy Ozment

Assistant Secretary
Office of Cybersecurity & Communications, Department of Homeland Security



Cyber Risk Management









Best Practices



Cybersecurity Framework

DHS's Critical Infrastructure Cyber Community C³ Voluntary Program





Incident Response

- National Cybersecurity & Communications Integration Center (NCCIC): 24/7 information sharing, analysis, and incident response center
 - United States Computer Emergency Readiness Team (US-CERT) for information technology
 - Industrial Control Systems Cyber Emergency Response Team (ICS-CERT) for operational technology







Information Sharing









Federal Civilian Government





Private Sector







Big Data Analytics







Circulation





A Dream?









Government's Reality







Government's Reality



STIX/TAXII

ECS

ISAC



ISAO

CISCP

NCCIC





STIX/TAXII





















































































DAMBALLA

MITRE DISIGHTPARTNERS



ES ISAC





















Electricity Sector Information **Sharing Analysis Center**



























FOREGROUND

SECURITY









Live & Running









2013

2014

2015



Cyber Information Sharing and Collaboration Program (CISCP)



Products:

- Indicator Bulletins
- Analysis Reports
- Priority Alerts
- Recommended Practices





AR-13-10011 - Recent E

NCCIC CISCP Published Date: September 5, 2013 Reference Number: 13-10011

Notification

This Analysis Report is provided "as is" for Security (DHS) does not provide any warrant The DHS does not endorse any commercial This document is marked TLP: GREEN. Repartner organizations within their sector or or information on the Traffic Light Protocol, see

Summary

Since November 2012, there have been severa This Analysis Report describes past exploitatio incidents targeting the ColdFusion application. vulnerability (CVB-2012-0629); an authenticat TLP: GREEN

Analysis

November 2012

In November 2012, reporting was received on a relatively unknown actor identified by the handle "X000". The actor published exploit information on a Romanian underground website on topics including cross site scripting (XSS) vulnerability, spanning, rooting, and performing DDSS attacks against multiple domains including various US government agencies. He/she also published information regarding various ColdPusion vulnerabilities that were exploited and posted the following URLs as proof of alleged

- ../ColdPusion8/lib/password.properties*00en
 hxxps://[REDACTED]/CPIDE/scripts/ajax/FCKeditor/editor/filemanager/upload/test.html

The above URLs show the adversary attempting directory transversal attack (cvm-2012-0-029) in order to locate and gain access to password files (cvm-2013-0-631) within the ColdFusion administrator console. If a password is successfully retrieved/eracked (cvm-2013-0-622), the adversary may then attempt to upload backdoor functionality to the compromised host with the newly obtained application or redentials. In this incident, the attacker attempted to take advantage of the Remote File Upload Vulnerability in ECKeditor (cvm-2003-0-040).





CISCP



- CISCP Analysts:
 - Share 100 threat indicators every week
 - Have generated 1,900 products and 30,000 threat indicators since 2012
- 112 partner companies or ISACs
 - In discussions with 133 additional companies





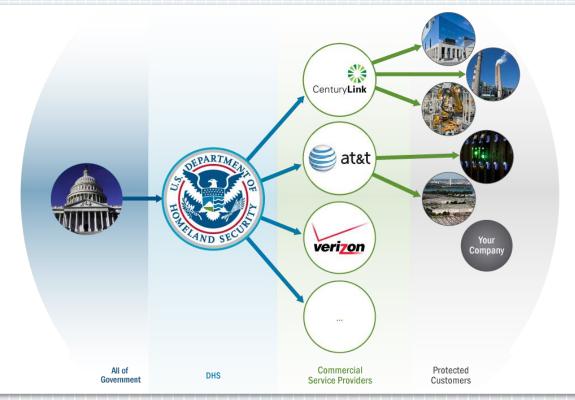
Enhanced Cybersecurity Services (ECS)







Enhanced Cybersecurity Services (ECS)







NCCIC

#RSAC

2014:

- Received 97,000 incident reports
- Issued 12,000 actionable alerts





NCCIC/US-CERT

- Information distributed via:
 - Alerts
 - Bulletins
 - Technical Documents
 - US-CERT National Cyber Awareness System (NCAS)
 - US-CERT portal







NCCIC/ICS-CERT

- Information distributed via:
 - Alerts
 - Advisories
 - ICS-CERT Monitor
 - Joint Security Awareness Reports
 - Other Reports





ISACs











ST-ISAC





























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#RSAC

But...



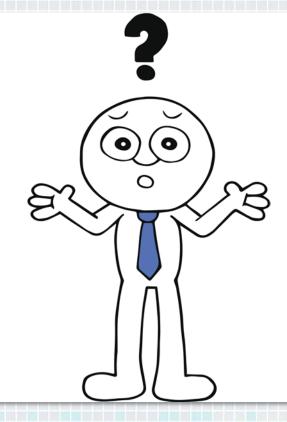
Information Sharing & Analysis Organizations







But...







#RSAC

ISAO Best Practices









Trusted (by individuals)





Protected Critical Infrastructure Information

Trusted (by companies)





Cybersecurity Legislative Proposal









Cybersecurity Legislative Proposal

- Targeted liability protection for companies that share cyber threat information with DHS and ISAOs
- Only threat indicators will be shared
- Companies will be required to minimize personal information
- Strong privacy and civil liberties oversight
- Use restrictions



Privacy Protections









Confused?









The Perfect Partner

Receives information

- Reports & alerts from NCCIC
- Indicators and analyst communications via CISCP
- Joins an ISAO to partner with peers

Shares information

- With DHS and partners via CISCP
- With ISAO

Protects itself

- Pays Commercial Service
 Provider for ECS for classified intrusion prevention
- Adopts Cybersecurity Framework

Responds to incidents

- Reports incidents to NCCIC or law enforcement
- Builds STIX/TAXII into products







Apply What You Have Learned Today

- Adopt the Cybersecurity
 Framework
 C³ Voluntary Program:
 www.us-cert.gov/ccubedvp
- Join CISCP to share with your peers& DHS
 - CISCP_Coordination@hq.dhs.gov
- Subscribe to the US-CERT National
 Cyber Awareness System

www.us-cert.gov/NCAS

- Talk to a Commercial Service Provider & pay for ECS
 ECS Program@hq.dhs.gov
- Join or start an ISAC or ISAO ISAO@hq.dhs.gov
- Build STIX/TAXII into your company's products
 www.us-cert.gov/TAXII

