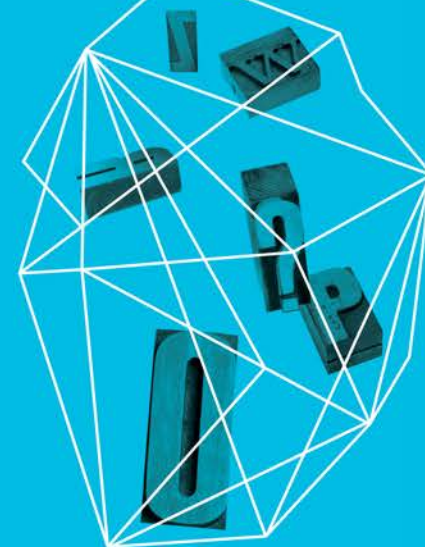


## Real Time Forensics: Uncover the culprit while the body is still warm

Bruce Snell  
McAfee

Security in  
knowledge



# — What do we accomplish with Forensics?

- ▶ Find out what was damaged/stolen
- ▶ Find out what attack was used
- ▶ Find out where data was sent
- ▶ Recovery of compromised systems

# — What do we accomplish with Forensics?

- ▶ Find out what was damaged/stolen
  - ▶ Know who we need to notify
  - ▶ Recover lost/damaged systems
  - ▶ Better prepare defense for next time

Well, next time someone uses that attack we will certainly be prepared!



someecards  
user card

# — What do we accomplish with Forensics?

- ▶ Find out what was attack was used
  - ▶ Reporting
  - ▶ Otaku factor



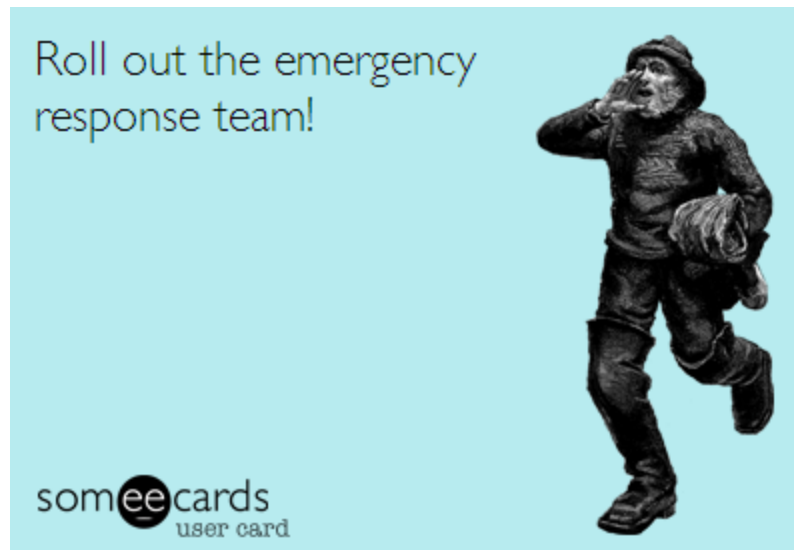
# — What do we accomplish with Forensics?

- ▶ Find out where the data was sent
  - ▶ Aid in investigation by authorities
  - ▶ Strengthen defense against future attacks



# — What do we accomplish with Forensics?

- ▶ Recovery of compromised systems
  - ▶ Identify which systems are impacted
  - ▶ Costly physical recovery typically needed



# — What would it take...

- ▶ ...to provide real time forensics?

# Can you grab data from...

- ▶ Every machine?
  - ▶ In your entire Enterprise
    - ▶ With the exact state information?
- ▶ Go!



[dreamstime.com](http://dreamstime.com)



# Scenario...

- ▶ Multiple vulnerabilities exposed in Adobe Flash
  - ▶ CVE-2013-0633
    - ▶ Used in targeted attacks, disguised as Word email attachment
    - ▶ Contains malicious Flash content
    - ▶ Buffer overflow
  - ▶ CVE-2013-0634
    - ▶ Exploit reported by Lockheed Martin, MITRE and others, suggesting targeted industrial espionage
    - ▶ Memory corruption

# How do you react?

## National Cyber-Alert System

### Vulnerability Summary for CVE-2013-0634

**Original release date:** 02/08/2013

**Last revised:** 02/12/2013

**Source:** US-CERT/NIST

### Overview

Adobe Flash Player before 10.3.183.51 and 11.x before 11.5.502.149 on Windows and Mac OS X, before 10.3.183.51 and 11.x before Linux, before 11.1.111.32 on Android 2.x and 3.x, and before 11.1.115.37 on Android 4.x allows remote attackers to execute arbitrary code or denial of service (memory corruption) via crafted SWF content, as exploited in the wild in February 2013.

### Impact

CVSS Severity (version 2.0):

**CVSS v2 Base Score:** 9.3 (HIGH) (AV:N/AC:M/Au:N/C:C/I:C/A:C) (legend)

**Impact Subscore:** 10.0

**Exploitability Subscore:** 8.6

CVSS Version 2 Metrics:

**Access Vector:** Network exploitable; Victim must voluntarily interact with attack mechanism

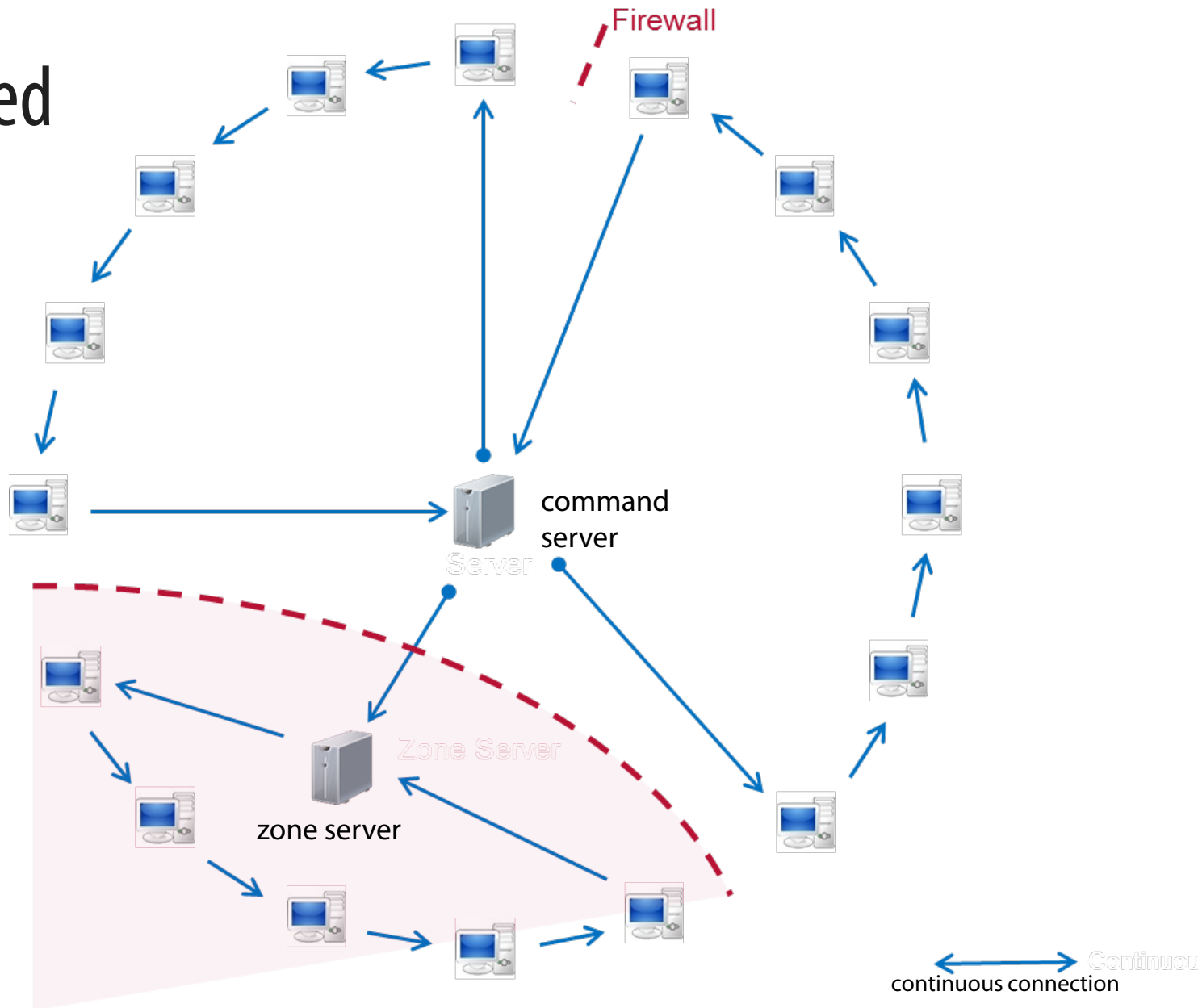
**Access Complexity:** Medium

**Authentication:** Not required to exploit

**Impact Type:** Allows unauthorized disclosure of information; Allows unauthorized modification; Allows disruption of service

# Demo

# P2P Speed



— Questions?

