



What is Incident Response about?

Team



- Incident Handler
- Security Analyst
- Forensic Investigator
- Legal & LEO Advisor



Tools



- Jumpbag kit
- Interception box
- PoC/IR environment
- Forensic station
- Info gathering tools



Processes

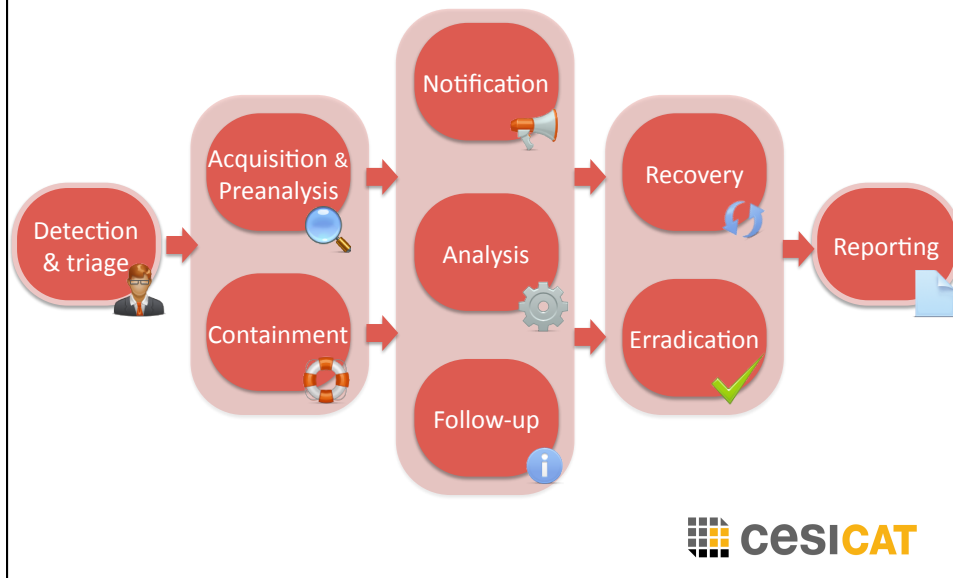


- Evidence acquisition
- Information analysis
- Reverse-engineering
- Forensic analysis
- Investigation



cesicat

Incident Handling step-by-step



Incident Response Evolution

Traditional



- Physical disk cloning
- Local IR tools
- Network tap interception
- FW/IPS containment
- IP/Domain registries info gathering
- Jumpbag kit + Lab tools

Virtualization



- Snapshot recovery
- PoC environments
- VM Cloning for analysis
- Remote IR tools
- VIPS/VFW containment



VDI



VM

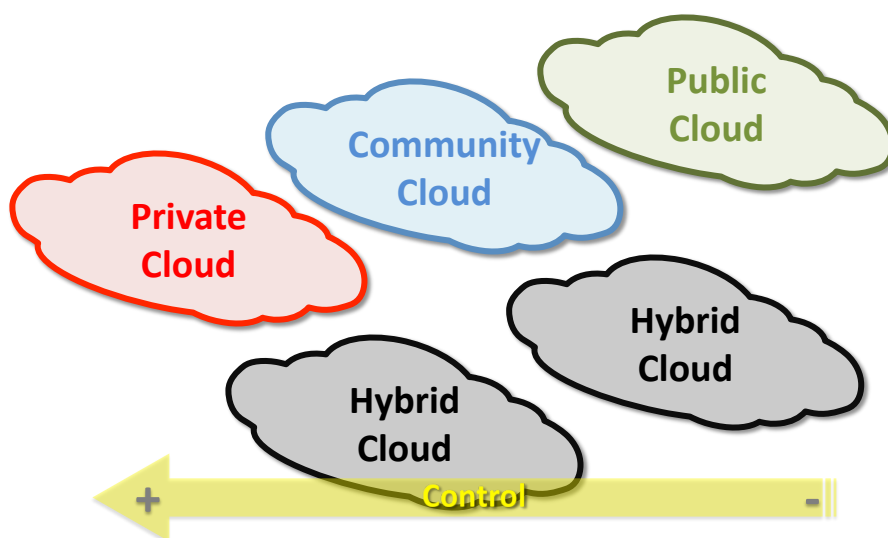
Cloud

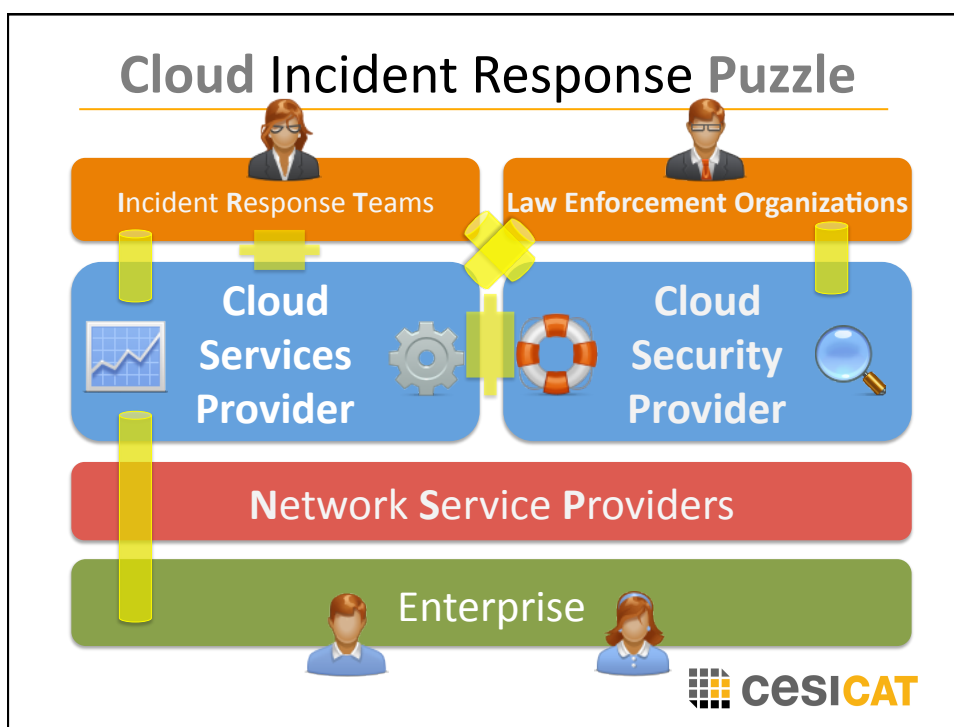


- Integrated IR services
- Outsourced CSIRTs
- API interface for info gathering & mgmt
- Cloud Security Providers
- Enforce vs management endpoints
- Abuse interfaces



Control level over clouds





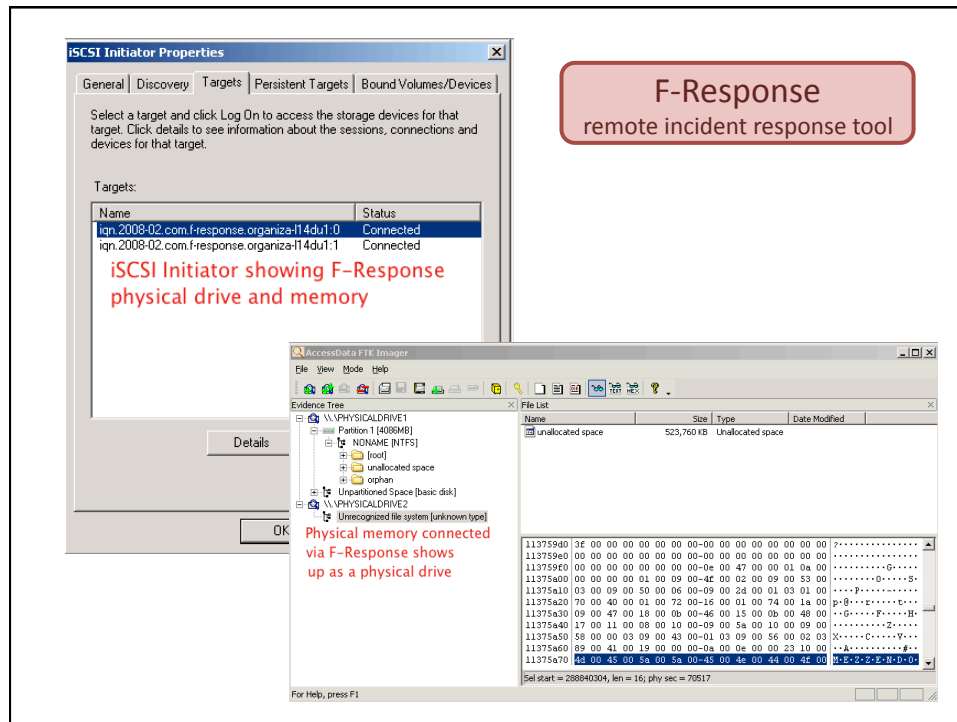
xtractr
 network forensics tool

BETA This index has #9 hosts, #4 services, #37 flows and #584 packets.

[Hosts](#) [Flows](#) [Packets](#) [Fields](#) [Labels](#) [Nuggets](#)

label id	time	packets	src	sport	dst	dport	service	title
label 1.	34.2731	2	10.0.2.15	38183	80.58.0.33	53	DNS	Standard query AAAA en-us.tfeeds.mozilla.com
label 2.	34.2850	2	10.0.2.15	43365	80.58.0.33	53	DNS	Standard query A en-us.tfeeds.mozilla.com
label 3.	34.3027	11	10.0.2.15	55680	63.245.209.93	80	HTTP	GET /en-US/firefox/headlines.xml HTTP/1.1
label 4.	34.7088	2	10.0.2.15	47436	80.58.0.33	53	DNS	Standard query AAAA tfeeds.mozilla.com
label 5.	34.7198	2	10.0.2.15	50760	80.58.0.33	53	DNS	Standard query A tfeeds.mozilla.com
label 6.	34.7335	11	10.0.2.15	55681	63.245.209.93	80	HTTP	GET /firefox/headlines.xml HTTP/1.1
label 7.	35.1029	2	10.0.2.15	46007	80.58.0.33	53	DNS	Standard query AAAA newsrss.bbc.co.uk
label 8.	35.7238	2	10.0.2.15	56088	80.58.0.33	53	DNS	Standard query A newsrss.bbc.co.uk
label 9.	35.7362	49	10.0.2.15	35961	212.58.226.143	80	HTTP	GET /rss/newsonline_world_edition/front_page/rss.xml HTTP/1.1
label 10.	35.7807	2	10.0.2.15	39463	80.58.0.33	53	DNS	Standard query AAAA iniqua.com
label 11.	37.3625	2	10.0.2.15	34097	80.58.0.33	53	DNS	Standard query AAAA iniqua.com
label 12.	38.8554	2	10.0.2.15	34129	80.58.0.33	53	DNS	Standard query A iniqua.com
label 13.	41.0460	11	10.0.2.15	40884	67.205.34.173	80	HTTP	GET / HTTP/1.1
label 14.	45.8663	2	10.0.2.15	42684	80.58.0.33	53	DNS	Standard query AAAA www.iniqua.com
label 15.	47.4773	2	10.0.2.15	60446	80.58.0.33	53	DNS	Standard query AAAA www.iniqua.com
label 16.	51.5677	2	10.0.2.15	53779	80.58.0.33	53	DNS	Standard query A www.iniqua.com
label 17.	51.8734	102	10.0.2.15	40885	67.205.34.173	80	HTTP	GET / HTTP/1.1
label 18.	57.1596	33	10.0.2.15	40886	67.205.34.173	80	HTTP	GET /wp-content/themes/lightword/style.css HTTP/1.1
label 19.	57.1630	17	10.0.2.15	40887	67.205.34.173	80	HTTP	GET /wp-content/themes/lightword/original.css HTTP/1.1
label 20.	57.1746	37	10.0.2.15	40888	67.205.34.173	80	HTTP	GET /favicon.ico HTTP/1.1

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Activity on this account

This feature provides information about the last activity on this mail account and any concurrent activity. [Learn more](#)

This account is open in one other location.
(Location may refer to a different session on the same computer.)

Concurrent session information:

Access Type [?] (Browser, mobile, etc.)	IP address [?]
Browser	228.58.8.6

[Sign out all other sessions](#)

Recent activity:

Access Type [?] (Browser, mobile, POP3, etc.)	IP address [?]	Date/Time (Displayed in your time zone)
Browser	127.1.25.30	5:02 pm (0 minutes ago)
Mobile	230.10.10.2	11:17 am (5 hours ago)
Browser	228.58.8.6	9:42 am (7 hours ago)
POP3	230.9.19.17	6:30 am (10 hours ago)
Browser	228.58.8.6	Jun 29 (18 hours ago)

Account activity logs

Home > Security

News Analysis

Twitter breach revives security issues with cloud computing

Concerns are the same as with any outsourcing, remote data access, IT managers say

By Jaikumar Vijayan
July 27, 2009 06:00 AM ET

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Computerworld - Security and privacy issues over cloud computing are not very different from those surrounding any sort of IT outsourcing and need to be treated that way, security managers and analysts say in the wake of breaches involving [Twitter and Google Apps](#).

The incident has resurfaced many familiar concerns relating to cloud computing and is raising questions over a multimillion-dollar plan by the city of Los Angeles to move its e-mail and office applications to the cloud.


While many of the concerns are valid, it's important to retain perspective around them, security experts said.


"These concerns are very similar to the concerns and traditional data storage outsourcing, offshoring, or other data access," said Christopher Pierson, chief privacy officer with a large financial institution, which he asked not be identified. "Within the cloud, the standard issues of user access, authentication, encryption, location of storage all exist and need to be thought through on the front end," he said.


Cloud Computing Incident concern





eCrime "Dark" Clouds





SaaS: Anonymous transactions 



IaaS: botnet renting 


PaaS: Password Cracking 

PaaS: CAPTCHA resolving 

SaaS: Denial of Service attacks 

PaaS: Phishing hosting 

SaaS: Credential/Credit Card steal  



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Zeus crimeware using Amazon's EC2 as command and control server

By Dancho Danchev | December 9, 2009, 8:13am PST

Summary

A recently intercepted variant of the most popular piece of crime, the Zeus bot, is using Amazon's EC2 service as a command and control server.

Topics

Amazon.com Inc.,
Social Networking,
Cloud Computing,
Network Technology,
Security, Networking,
Dancho Danchev

Blogger Info

Ryan Naraine
  

Action	URL	Details
GET	http://ec2-170.compute-1.amazonaws.com/zeus/config.bin	svchost.exe
POST	http://ec2-170.compute-1.amazonaws.com/zeus/gate.php	svchost.exe
POST	http://ec2-170.compute-1.amazonaws.com/zeus/gate.php	svchost.exe
POST	http://ec2-170.compute-1.amazonaws.com/zeus/gate.php	svchost.exe
POST	http://ec2-170.compute-1.amazonaws.com/zeus/gate.php	svchost.exe

UPDATED: ScanSafe posted an update stating that "In the past three years, ScanSafe has recorded 80 unique malware incidents involving amazonaws, 45 of which were in 2009, 13 in 2008, and 22 in 2007."

Security researchers have intercepted a new variant of the Zeus crimeware, which is using Amazon's EC2 services for command and control purposes of the botnet. The cybercriminals appear to be using Amazon's RDS managed database hosting service as a backend alternative in case they lose access to the original domain, which would result in the complete loss of access to the compromised financial data obtained from the infected hosts.

Would 2010 be the year when crimeware will dive deep into the cloud, in an attempt to undermine the security industry's take down operations? With the clear migration towards the abuse of legitimate infrastructure we've observed throughout the entire 2009, this may well be the case.

Spammers on Amazon EC2 starting to hammer Asterisk (VoIP) servers

🕒 April 13th, 2010 📁 Posted in Uncategorized



Random non-email-spam-related aside: There have been widespread reports from the Asterisk open-source PBX community that spammers are attempting to gain access to Asterisk PBX through brute-force attacks originating from hosts within the Amazon EC2 cloud computing environment. The Asterisk-users mailing list has an [active discussion on the topic](#).



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