

Incident Report

Case Title: Web Site Defacement – imreallynotbatman.com

Date of Report: 09/25/2025

Reported By: Security Operations Center (SOC)

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Severity: High

1. Executive Summary

On **09/08/2016**, the SOC was alerted to a website defacement against the personal blog of the CEO of Dustin Yellin (**imreallynotbatman.com**). Initial evidence was offered by the Gotham City Police Department (GCPD) in the form of a **Pastebin link** (<http://pastebin.com/Gw6dWjS9>) to the defaced content. An incident was investigated by the SOC using **Splunk** to identify the attack vector, attacker infrastructure, malware artifacts, and overall timeline of compromise. Proof confirms that the attacker exploited vulnerabilities in the web site's **Joomla CMS**, initiated a **brute-force attack** against administrative logins and, lastly, uploaded a defacement image and a malicious executable. Multiple attacker **IPs** and **domains** were found, with associated malware **hashes**.

2. Incident Timeline

Timestamp	Event
T0	Attacker (40.80.148.42) initiated scanning of victim website using Acunetix vulnerability scanner.
T1	Dynamic DNS domain prankglassinebracket.jumpingcrab.com resolved to 23.22.63.114 (used in pre-staging and brute force).
T2	Brute force attempts initiated against Joomla admin login. First password tried: 12345678 .
T3	After ~412 password attempts , correct admin credential identified: batman .
T4 (≈92 sec later)	Successful login confirmed.
T5	Attacker uploaded malicious executable 3791.exe (MD5: aae3f5a29935e6abcc2c2754d12a9af0).
T6	Malware with SHA-256: 9709473ab351387aab9e816eff3910b9f28a7a70202e250ed46dba8f820f34a8 detected in spear-phishing campaign related to the compromise.
T7	Defacement file poisonivy-is-coming-for-you-batman.jpeg placed on web server. Website visibly altered.

3. Indicators of Compromise (IOCs)

IP Addresses			
IP Address	Purpose / Context	VirusTotal (VT)	AbuseIPDB
40.80.148.42	Acunetix scanner (reconnaissance)	51/72	Not reported
23.22.63.114	Brute force & staging domain	0/72	1 report (3years ago)
Domains			
Domain	Purpose / Context	VirusTotal	Talos Intelligence
prankglassinebracket.jumpingcrab.com	Malicious staging domain	4/94	Untrusted / Malware site
Malicious Files			
File Name	Type / Context	Hash	VirusTotal (VT)
3791.exe	Uploaded executable	MD5: aae3f5a29935e6abcc2c2754d12a9af0	64/72
Spear phishing malware	Malicious payload	SHA-256: 9709473ab351387aab9e816eff3910b9f28a7a70202e250ed46dba8f820f34a8	51/72

Defacement File

- **poisonivy-is-coming-for-you-batman.jpeg**

Passwords Observed

- First attempted: **12345678**
 - Successful: **batman**
 - Total unique attempts: **412**
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4. Attack Techniques (MITRE ATT&CK Mapping)

- **Reconnaissance (TA0043):** Vulnerability scanning with Acunetix
 - **Initial Access (TA0001):** Brute force (T1110.001 – Password Guessing)
 - **Persistence (TA0003):** Uploaded web shell/malicious executable
 - **Impact (TA0040):** Website defacement (T1491 – Defacement)
 - **Command and Control (TA0011):** Use of dynamic DNS domain
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5. Root Cause Analysis

The compromise was made possible by:

1. **Weak administrative credential** (“batman”) susceptible to brute force.
 2. **Lack of account lockout policies**, allowing >400 attempts.
 3. **Unpatched Joomla CMS** vulnerable to automated scans and exploits.
 4. **Insufficient web application monitoring**, delaying detection until external notification.
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6. Recommendations

1. **Credential Hardening**
 - Enforce strong password policies (minimum length, complexity).
 - Implement account lockout after defined failed attempts.
 2. **System Patching**
 - Regularly update Joomla CMS and plugins.
 - Conduct vulnerability scans and patch high-severity issues promptly.
 3. **Monitoring & Detection**
 - Enhance web server logging and integrate real-time alerting in SIEM.
 - Monitor brute force and unusual POST requests.
 4. **Malware Protection**
 - Quarantine identified IOCs in endpoint detection solutions.
 - Share hashes/domains with threat intelligence platforms.
 5. **Incident Response Procedures**
 - Establish playbooks for web defacement incidents.
 - Conduct tabletop exercises to ensure readiness.
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7. Conclusion

The analysis confirmed that defacement of the web site was achieved through brute forcing **Joomla admin credentials** and then evil file upload. Attackers' infrastructure (**IPs, domains, hashes of malware**) was also mapped and a full timeline of the incident reconstructed. Improved deployment of tighter credential policies, patch management, and careful monitoring would have prevented or lessened this incident's impact.