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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

MITIGATING CROSS-SITE SCRIPTING ATTACKS WITH A CONTENT SECURITY POLICY

ABSTRACT

A content security policy (CSP) can help Web application developers and server administrators better control website content and avoid vulnerabilities to cross-site scripting (XSS). In experiments with a prototype website, the authors' CSP implementation successfully mitigated all XSS attack types in four popular browsers. An XSS attack involves injecting malicious script into a trusted website that executes on a visitor's browser without the visitor's knowledge and thereby enables the attacker to access sensitive user data, such as session tokens and cookies stored on the browser. With this data, attackers can execute several malicious acts, including identity theft, keylogging, phishing, user impersonation, and webcam activation.

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EXISTING SYSTEM:

An XSS attack involves injecting malicious script into a trusted website that executes on a visitor's browser without the visitor's knowledge and thereby enables the attacker to access sensitive user data, such as session tokens and cookies stored on the browser.¹ With this data, attackers can execute several malicious acts, including identity theft, keylogging, phishing, user impersonation, and webcam activation. Even major application services such as Facebook, Google, PayPal, and Twitter suffer from XSS attacks, which have grown alarmingly since they were first reported in a 2003 Computer Emergency Response Team advisory. The Open Web Application Security Project ranked XSS third on its 2013 list of top 10 Web vulnerabilities (the latest list as of February 2016), calling it the "most prevalent Web application security flaw."² Underscoring the widespread risk of XSS intrusions, White Hat Security's May 2013 Web Security Statistics Report noted that 43 percent of Web applications were vulnerable to this kind of attack.

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DISADVANTAGES:

- Although sanitizing eliminates potentially harmful content from untrusted input, each Web application must manually implement it—a process prone to error.
- defense mechanisms tend to focus on preventing one or two of the three XSS attack types.

PROPOSED SYSTEM:

Researchers have proposed a range of mechanisms to prevent XSS attacks, with content sanitizers dominating those approaches. Although sanitizing eliminates potentially harmful content from untrusted input, each Web application must manually implement it—a process prone to error. To avoid this problem, we use a different technique. Instead of sanitizing harmful scripts before they are injected into a website, we block them from loading and executing with a variation of the content security policy (CSP), which provides server administrators with a white list of accepted and approved resources. The Web application or website will block any input not on that list and thus there is no need for sanitizing. The white list also guards against data exfiltration and extrusion—the unauthorized downloading of data from a website

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visitor's computer. To test its effectiveness, we created a prototype website on a simple Web application server, configured a CSP header with a report-uri directive, and incorporated the header in an .htaccess file (a configuration file that specifies how a webpage should be accessed). We then conducted a series of experiments on our local host machine by injecting XSS vectors into the website. In every case, our CSP prevented XSS attacks, even with 50 unique XSS vectors.

ADVANTAGE OF PROPOSED SYSTEM:

- To test its effectiveness, we created a prototype website on a simple Web application server, configured a CSP header with a report-uri directive, and incorporated the header in
- An Although our CSP has many benefits, it is not intended as a primary defense mechanism against XSS attacks.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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