

CSE-2010 Secure Coding Lab-12

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Secure Coding Lab Audit

VULNERABILITY REPORT

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CONFIDENTIAL MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	05/15/2021	Tarun Kashyap	Initial Version



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GENERAL INFORMATION

SCOPE

VIT VELLORE has mandated us to perform security tests on the following scope: • Entire infrastructure

ORGANISATION

The testing activities were performed between 05/01/2021 and 05/15/2021.

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EXECUTIVE SUMMARY



Following vulnerabilities have been discovered:

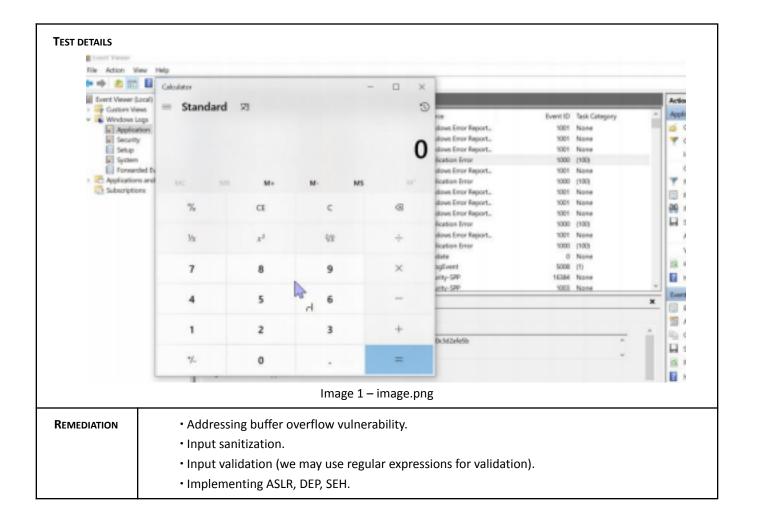
Risk	ID	Vulnerability	Affected Scope
High	IDX-002	Shell code injection	
High	IDX-001	Buffer overflow	
High	IDX-003	DOM XSS	



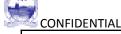
SHELL CODE INJECTION

CVSS SEVERITY	High	CVSSv3 Score	8.9	
CVSSv3 CRITERIAS	Attack Vector : Network Scope : Changed Attack Complexity : Low Confidentiality : Low Required Privileges : Low Integrity : High User Interaction : Required Availability : High			
AFFECTED SCOPE				
DESCRIPTION	Shell Code Injection is an attack that consists in executing commands on a victim's operating system via a vulnerable application.			
Observation	We have identified that this vulnerability can execute different malicious code and even trigger different application including command prompt.			

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REFERENCES

https://www.httpcs.com/en/php-shell-code-injection vulnerability#:~:text=Shell%20Code%20Injection%20is%20an,system%20via%20a%20vulnerable%2 0ap plication.

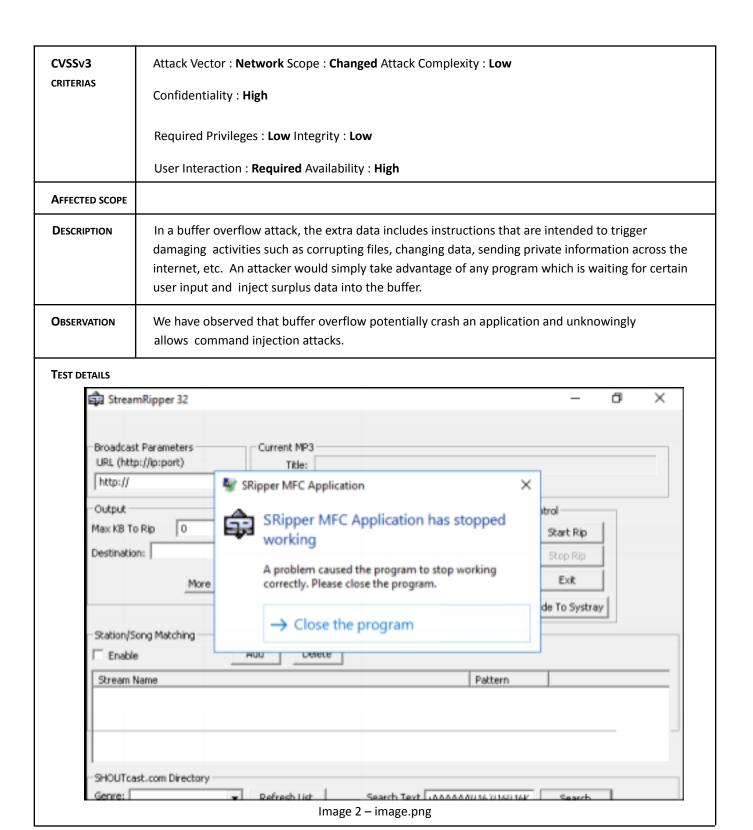
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BUFFER OVERFLOW

CVSS SEVERITY	High	CVSSv3 Score	8.9
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CONTIDENTIAL			
REMEDIATION	• ASLR		
	• DEP		
	• SEHOP		

References	www.cloudflare.com/learning/security/threats/buffer-overflow/
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DOM XSS

CVSS SEVERITY	High	CVSSv3 Score	7.6	
CVSSv3	Attack Vector : Network Scope : Changed Attack Complexity : Low			
CHIERRA	Confidentiality : High			
	Required Privileges : Low Integrity : Low			
	User Interaction : Required Availability : None			
AFFECTED SCOPE				
DESCRIPTION	DOM XSS stands for Document Object Model-based Cross-site Scripting All HTML documents have an associated DOM that consists of objects, which represent document properties from the point of view of the browser. When a client-side script is executed, it can use the DOM of the HTML page where the script runs.			
OBSERVATION	<pre>1)Open any url which you want to test let's say https://www.incrypts.com/ 2) now just put <html></html></pre>			
TEST DETAILS				
REMEDIATION	USE USER INPUT VALIDATION AND WAF			
References				

