SECURE_CODING_LAB_12

NAME :M.KARTHIK REG_NO :19BCN7222

ASSIGNMENT_12

Secure Coding Lab Audit

VULNERABILITY REPORT

SATURDAY, MAY 15, 2021





MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	05/15/2021	M.KARTHIK	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.



EXECUTIVE SUMMARY



VULNERABILITIES SUMMARY

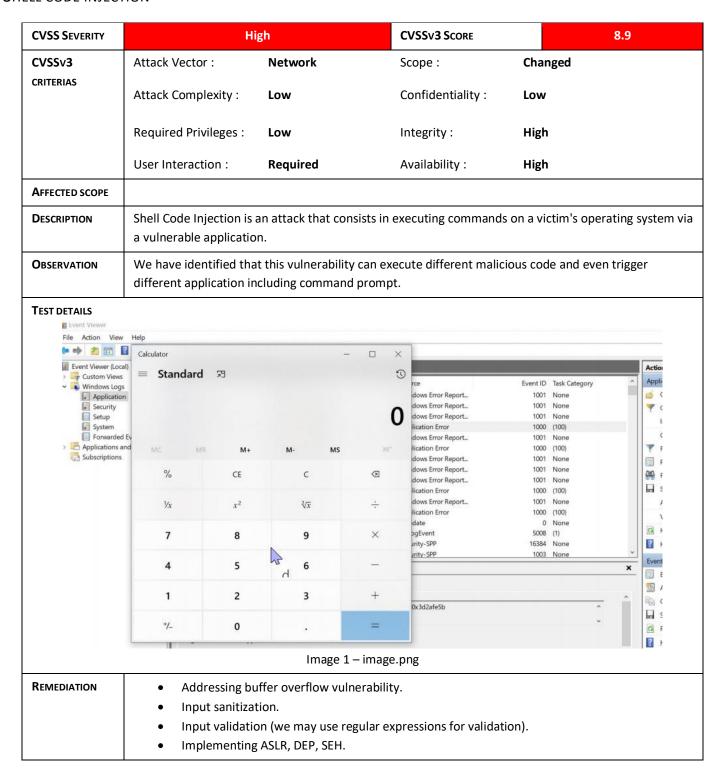
Following vulnerabilities have been discovered:

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



TECHNICAL DETAILS

SHELL CODE INJECTION



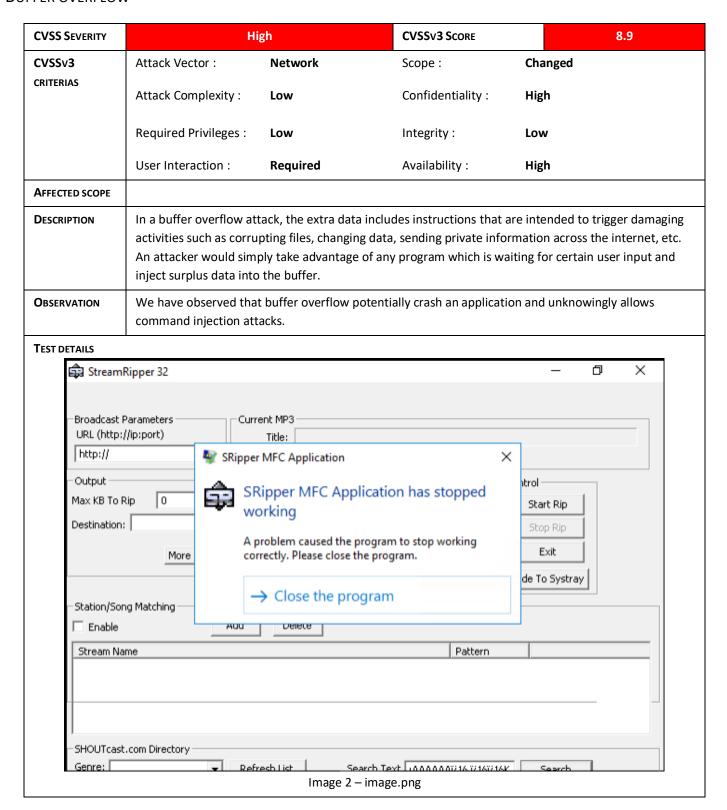




REFERENCES	https://www.httpcs.com/en/php-shell-code-injection-	
	vulnerability#:~:text=Shell%20Code%20Injection%20is%20an,system%20via%20a%20vulnerable%20ap	
	plication.	



BUFFER OVERFLOW







REMEDIATION	• ASLR	
	• DEP	
	• SEHOP	
REFERENCES	www.cloudflare.com/learning/security/threats/buffer-overflow/	



DOM XSS

CVSS SEVERITY	High		CVSSv3 Score	7.6
CVSSv3	Attack Vector :	Network	Scope :	Changed
CRITERIAS	Attack Complexity :	Low	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	1)Open any url which you want to test let's say https://www.incrypts.com/ 2) now just put <html></html>			
TEST DETAILS	uls			
REMEDIATION	USE USER INPUT VALIDATION AND WAF			
References				



