Secure Coding Lab Audit

# VULNERABILITY REPORT

SATURDAY, MAY 15, 2021





# MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	05/15/2021	harsha vardhan	Initial Version

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# **G**ENERAL INFORMATION

### SCOPE

VIT has mandated us to perform security tests on the following scope:

• Entire infrastructure

# ORGANISATION

The testing activities were performed between 01/05/2021 and 10/05/2021.



# **EXECUTIVE SUMMARY**





# VULNERABILITIES SUMMARY

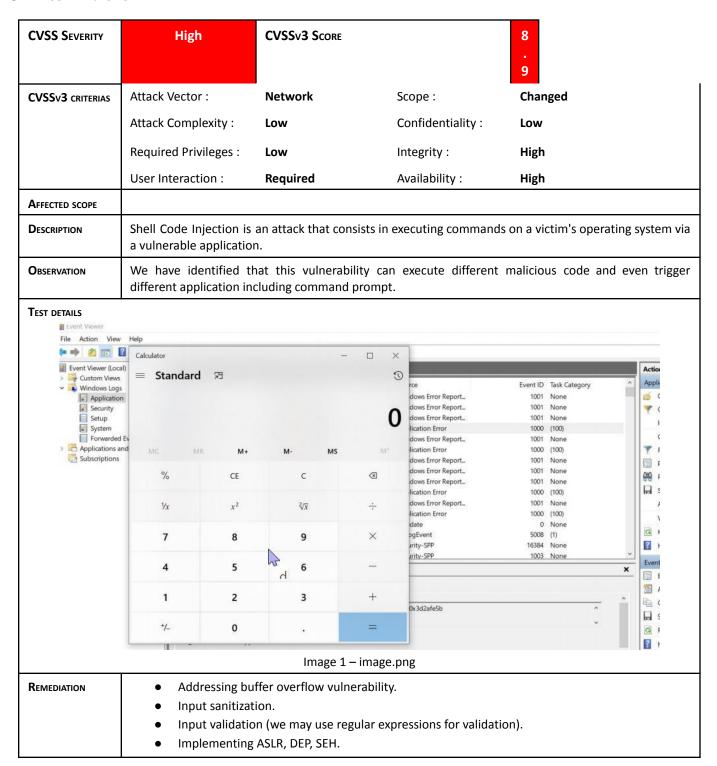
Following vulnerabilities have been discovered:

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



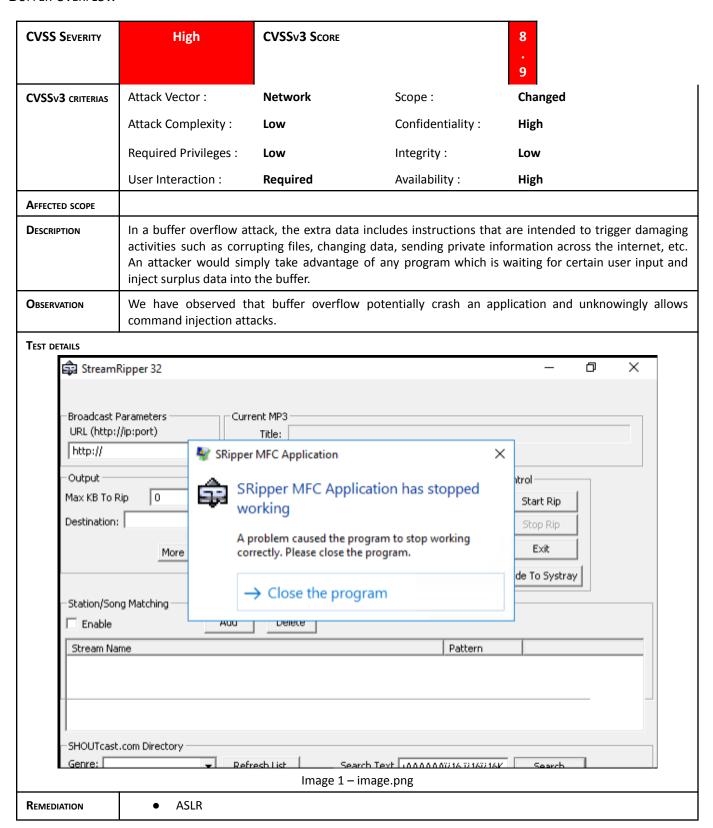


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REFERENCES	https://www.httpcs.com/en/php-shell-code-injection-vulnerability#:~:text=Shell%20Code%20Injection
	%20is%20an,system%20via%20a%20vulnerable%20application.



#### **B**uffer overflow





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



# DOM XSS

CVSS SEVERITY	High	CVSSv3 Score		7 6	
CVSSv3 criterias	Attack Vector :	Network	Scope :	Changed	
	Attack Complexity :	Low	Confidentiality:	High	
	Required Privileges :	Low	Integrity:	Low	
	User Interaction :	Required	Availability:	None	
AFFECTED SCOPE					
DESCRIPTION	<b>DOM XSS</b> stands for Document Object Model-based <b>Cross-site Scripting</b> All HTML documents have an associated <b>DOM</b> 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 <b>DOM</b> 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					
REMEDIATION	USE USER INPUT VALIDATION AND WAF				
References			·		