# **CSE-2010**

# Secure Coding(L23 + L24)



**Lab - 12** 

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Secure Coding Lab Audit

# VULNERABILITY REPORT

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#### **MODIFICATIONS HISTORY**

Version	Date	Author	Description
1.0	06/12/2021	18BCN7122_Shafiq Ahmed	Initial Version

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### GENERAL INFORMATION

#### $S_{COPE}$

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

• Entire infrastructure

#### ORGANISATION

The testing activities were performed between 01/06/2021 and 12/06/2021.

## EXECUTIVE SUMMARY

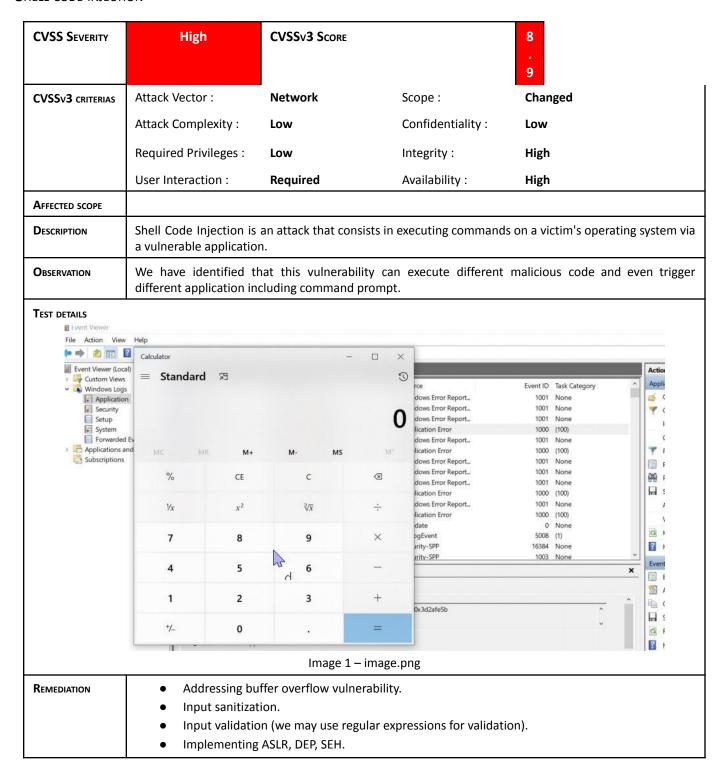
## Vulnerabilities summary

Following vulnerabilities have been discovered:

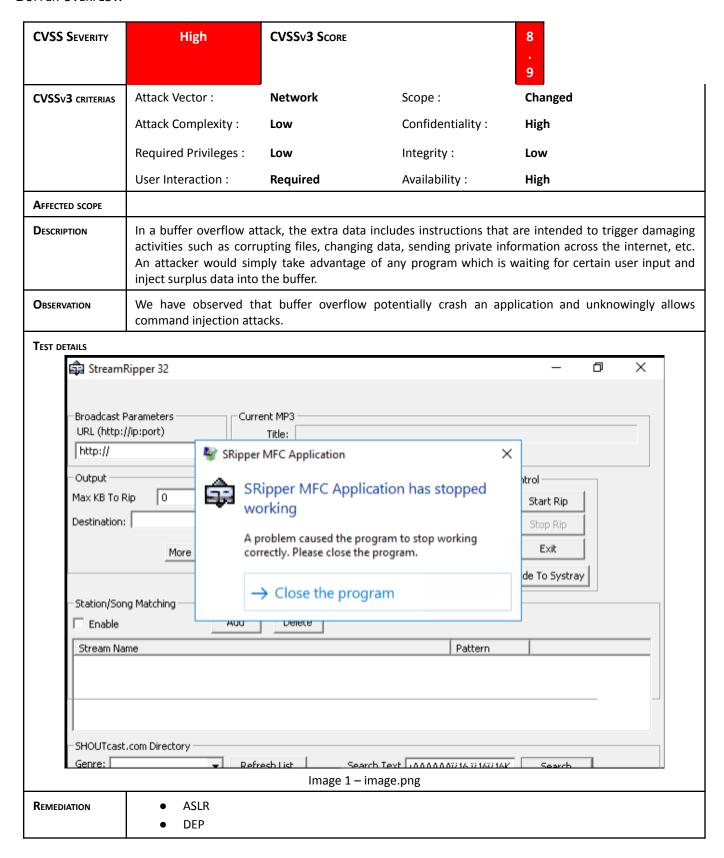
Risk	ID	Vulnerability	Affected Scope
High	IDX-002	Shell code injection	
High	IDX-001	Buffer overflow	
High	High IDX-003 DOM XSS		

#### TECHNICAL DETAILS

#### SHELL CODE INJECTION



#### **B**UFFER OVERFLOW



	• 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	ZES .					