LAB-12

VULNERABILITY REPORT

Monday, May 21, 2021

MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	05/21/2021	Sukhmani Sandhu	Initial Version

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GENERAL INFORMATION

S_{COPE}

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

Organisation

The testing activities were performed between 05/21/2021 and 05/21/2021.

EXECUTIVE SUMMARY

Vulnerabilities summary

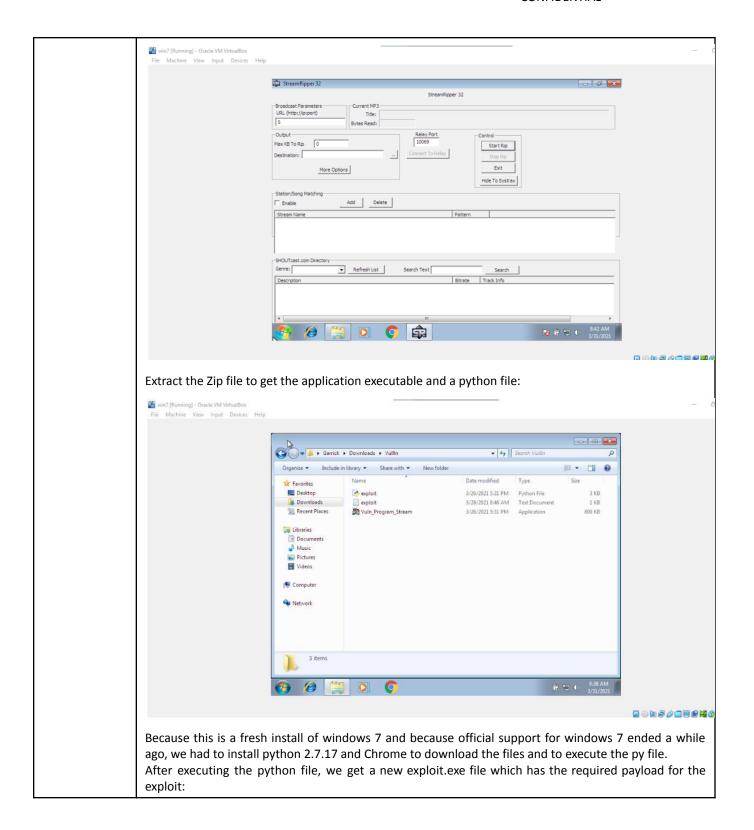
Following vulnerabilities have been discovered:

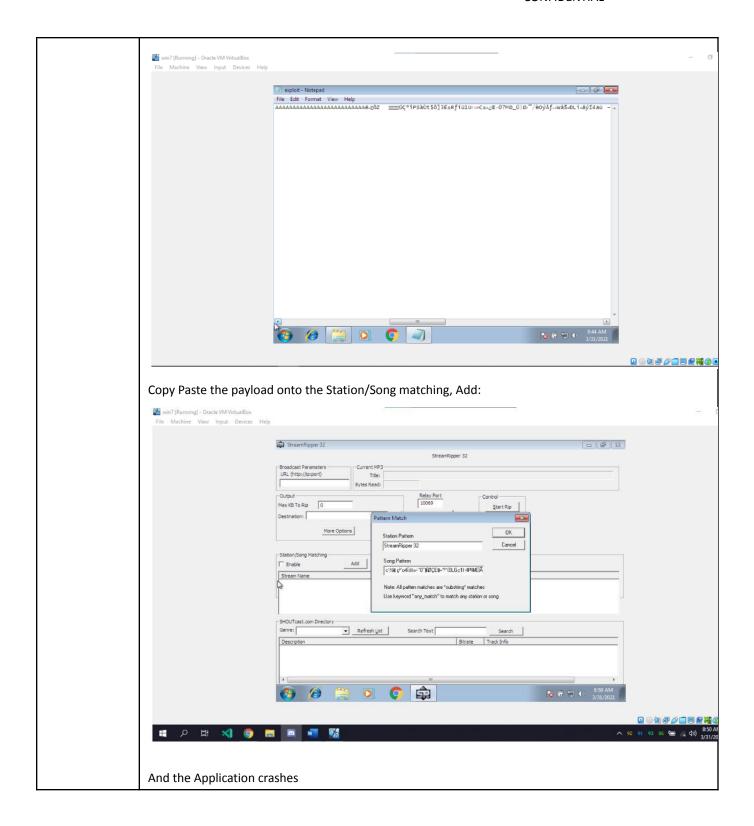
Risk	ID	Vulnerability	Affected Scope
Medium	VULN-004	Buffer Overflow StreamRipper32	
Medium	VULN-003	Buffer Overflow Frigate 2	
Medium	VULN-002	Buffer Overflow Frigate	
Medium	VULN-004	Buffer Overflow StreamRipper32	

TECHNICAL DETAILS

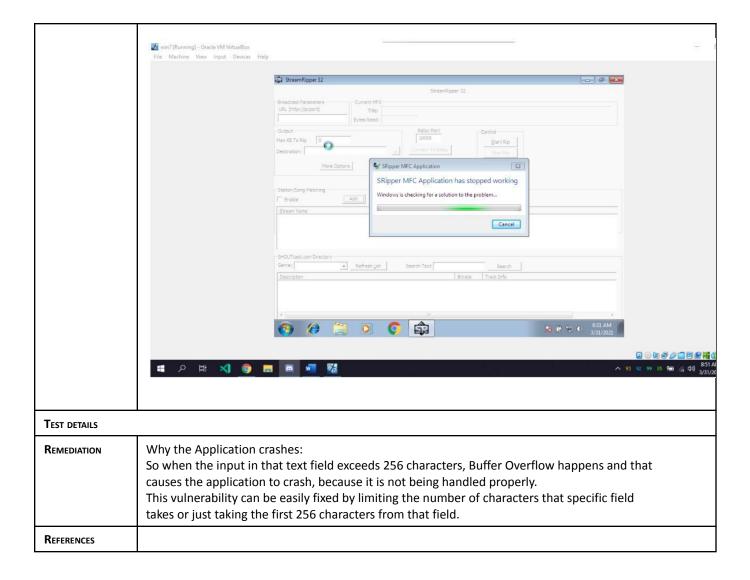
BUFFER OVERFLOW STREAMRIPPER32

CVSS SEVERITY	Medium		CVSSv3 Score	5.9
CVSSv3 CRITERIAS	Attack Vector :	Physical	Scope :	Unchanged
	Attack Complexity :	Low	Confidentiality:	None
	Required Privileges :	None	Integrity :	High
	User Interaction :	Required	Availability :	High
AFFECTED SCOPE				
DESCRIPTION	Buffer overflow is an anomaly that occurs when software writing data to a buffer overflows the buffer's capacity, resulting in adjacent memory locations being overwritten. In other words, too much information is being passed into a container that does not have enough space, and that information ends up replacing data in adjacent containers. Buffer overflows can be exploited by attackers with a goal of modifying a computer's memory in order to undermine or take control of program execution.			
OBSERVATION	Install StreamRipper32 on Windows 7 VM Oracle VM VirtualBox Manager File Machine Help Tools Powered Off			





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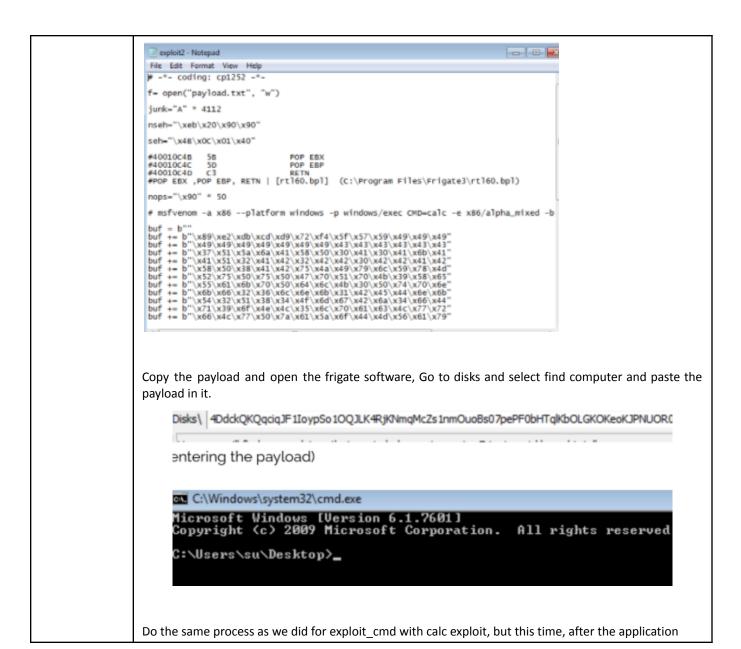


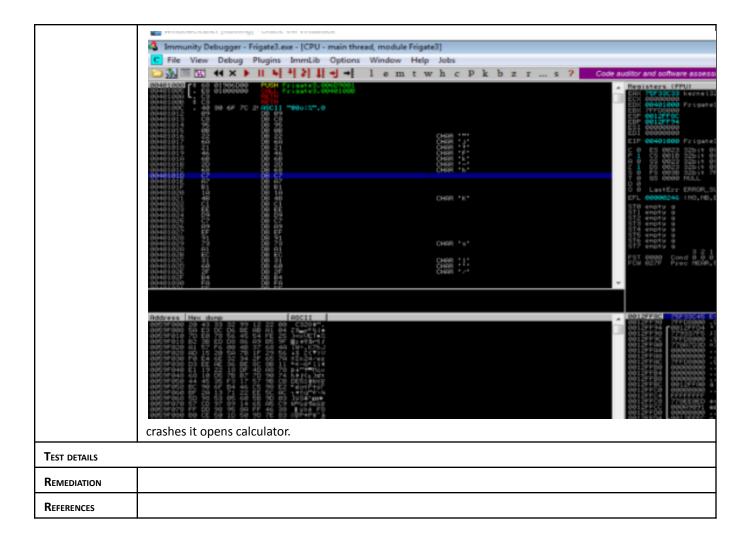
Buffer Overflow Frigate 2

CVSS SEVERITY	Medium		CVSSv3 Score		5.7
CVSSv3 CRITERIAS	Attack Vector :	Physical	Scope :	Unchanged	
	Attack Complexity :	Low	Confidentiality:	Low	
	Required Privileges :	High	Integrity:	High	
	User Interaction :	Required	Availability:	High	
AFFECTED SCOPE					
DESCRIPTION	Buffer overflow is an anomaly that occurs when software writing data to a buffer overflows the buffer's capacity, resulting in adjacent memory locations being overwritten. In other words, too much information is being passed into a container that does not have enough space, and that information ends up replacing data in adjacent containers. Buffer overflows can be exploited by attackers with a goal of modifying a computer's memory in order to undermine or take control of program execution.				
OBSERVATION	Copy the payload and open the frigate software with admin privileges, Go to disks and select find computer and paste the payload in it. The CMD that opens after crashing the application opens with elevated privileges Type diskpart and erase hdd				
Test details					
Remediation	MEDIATION				
References					

BUFFER OVERFLOW FRIGATE

CVSS SEVERITY	Medium		CVSSv3 Score	4.6	
CVSSv3 CRITERIAS	Attack Vector :	Physical	Scope :	Unchanged	
	Attack Complexity :	High	Confidentiality:	None	
	Required Privileges :	None	Integrity:	Low	
	User Interaction :	Required	Availability :	High	
AFFECTED SCOPE					
DESCRIPTION	Buffer overflow is an anomaly that occurs when software writing data to a buffer overflows the buffer's capacity, resulting in adjacent memory locations being overwritten. In other words, too much information is being passed into a container that does not have enough space, and that information ends up replacing data in adjacent containers. Buffer overflows can be exploited by attackers with a goal of modifying a computer's memory in order to undermine or take control of program execution.				
Observation	Install Frigate3 and Immunity Debugger on Windows 7 VM: WindowCleaner [Running] - Oracle VM VirtualBox File Machine View Input Devices Help Frigate336 Command Line File Command Disk Utilities Manager Pages Options Help New + 2 View + 2 Edit + 2 Refresh & Copy & Move × Delete Rename				
	Desktop Prigate C Prigate	nlBox Guest Additions ny_VM (\\VBox5vr) (Z:)	Sharing stuff to Frigate Shells	List * Uncorted *) VirtualBox Guest Additions with_my_VM (\\VBoxSvr) (Z:)	
i	Execute the exploit2.py to generate the payload_cmd.txt file:				





ASLR AND DEP

CVSS SEVERITY	Noi	ne	CVSSv3 Score	0
CVSSv3 CRITERIAS	Attack Vector : None		Scope :	
	Attack Complexity :		Confidentiality:	
	Required Privileges :	None	Integrity : Low	
	User Interaction :	Required	Availability :	
AFFECTED SCOPE				
DESCRIPTION				
OBSERVATION	Secured 1 2 3 4 5 6 7 8 9 10 11 12 13 14 4 E We run it from IDE Microsoft Vis Welcome to the Enter your bid JK D:\VSCode\secu	rown to build an executorer and verify the DEP & SLR and SEH in the visual configuration properties coperties, DEP and ASLR g them, DEP is still in affect build an application excep * X (Global in the context of the	ass; Welcome to this thing!\n"; Enter your bias:\n "; ass;	

