SECURE CODING LAB 12

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MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	13-06-2021	Ch.Sree Vital	Initial Version

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GENERAL INFORMATION

SCOPE

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

ORGANISATION

The testing activities were performed between 10-06-2021and 13-06-2021.

EXECUTIVE SUMMARY

VULNERABILITIES SUMMARY

Following vulnerabilities have been discovered:

Risk	ID	Vulnerability	Affected Scope
Medium	VULN- 001	.NET Framework Denial of Service Vulnerability	One - Science -
Medium	VULN- 003	.NET Framework Denial of Service Vulnerability -2	One Section 2018 18 Section 2018 18 Section 2018 18 Section 2018 18 Section 2018

TECHNICAL DETAILS

.NET FRAMEWORK DENIAL OF SERVICE VULNERABILITY

CVSS SEVERITY	Mediu m		CVSSv3 Score	6.2	
CVSSv3	Attack Vector :	Network	Scope :	Unchanged	
CRITERIAS	Attack Complexity:	High	Confidentiality:	Medium	
	Required Privileges :	Low	Integrity:	Low	
	User Interaction :	Required	Availability:	High	
AFFECTED SCOPE					
DESCRIPTION	A denial-of-service vulnerability exists when .NET Core or .NET Framework improperly handles web requests. An attacker who successfully exploited this vulnerability could cause a denial of service against a .NET Core or .NET Framework web application. The vulnerability can be exploited remotely, without authentication				
OBSERVATION	The vulnerability exists when Microsoft .NET Framework hashes specially crafted requests and inserts that data into a hash table, causing a hash collision . When many of these collisions are chained together, the performance of the hash table is greatly degraded, leading to the denial-of-service condition.				
Affected produ	24111 camework Denial of Se			2 for x64-based Systems	

Severity: Important Impact: Denial of Service Exploit: n/a

REMEDIATION Microsoft .NET Framework Denial of Service Vulnerability (KB4603002) (mageni.net)	
REFERENCES	https://hackerone.com/reports/485748

.NET Framework Denial of Service Vulnerability-2.NET Framework Denial of Service Vulnerability

CVSS SEVERITY	Mediu m		CVSSv3 Score	4.5		
CVSSv3	Attack Vector :	Physical	Scope :	Unchanged		
CRITERIAS	Attack Complexity:	High	Confidentiality:	None		
	Required Privileges :	Low	Integrity:	Low		
	User Interaction :	Required	Availability:	High		
AFFECTED SCOPE						
DESCRIPTION	A denial-of-service vulnerability exists when .NET Core or .NET Framework improperly handles web requests. An attacker who successfully exploited this vulnerability could cause a denial of service against a .NET Core or .NET Framework web application. The vulnerability can be exploited remotely, without authentication					
OBSERVATION	The vulnerability exists when Microsoft .NET Framework hashes specially crafted requests and inserts that data into a hash table, causing a hash collision . When many of these collisions are chained together, the performance of the hash table is greatly degraded, leading to the denial-of-service condition.					
TEST DETAILS Date: 20210216 CVE: CVE-2021-24111 KB: KB4601050 Title: .NET Framework Denial of Service Vulnerability Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems Affected component: Issuing CNA Severity: Important Impact: Denial of Service Exploit: n/a						
REMEDIATION	Microsoft .NET Framework Denial of Service Vulnerability (KB4603002) (mageni.net)					
REFERENCES	https://hackerone.com/reports/485748					