



Tonga National Computer
Emergency Response
Team



Ministry of Meteorology Energy Information
Disaster Management Environment
Climate Change and Communications

TLP- White¹

Microsoft Patch Tuesday October 2019

Dear Constituents,

Microsoft has released its monthly roll-up for the month of October with security patches known as **Second Patch Tuesday**. Microsoft has released security updates to fix a total of 59 vulnerabilities in Windows operating systems and related software, 9 of which are rated as critical, 49 are important, and one is moderate in severity.

Two Critical Vulnerabilities for this month

In this month's update two of the critical vulnerabilities patched this month are Remote Code Execution flaws in the VBScript engine, and both exist in the way VBScript handles objects in memory, allowing attackers to corrupt memory and execute arbitrary code in the context of the current user.

These two vulnerabilities, tracked as CVE-2019-1238 and CVE-2019-1239, can be exploited remotely by tricking victims into visiting a specially crafted website through Internet Explorer.

An attacker can also exploit these issues using an application or Microsoft Office document by embedding an ActiveX control marked 'safe for initialization' that utilizes Internet Explorer rendering engine.

Other vulnerabilities patched by Microsoft this month on Microsoft products and services:

- Microsoft Windows
- Internet Explorer
- Microsoft Edge
- ChakraCore
- Microsoft Office, Office Services and Web Apps
- SQL Server Management Studio
- Open Source Software
- Microsoft Dynamics 365
- Windows Update Assistant

¹ CERT Tonga adopts the [Traffic Light Protocol](#)

Most of these vulnerabilities allow elevation of privilege, and some also lead to remote code execution attacks, while others allow information disclosure, cross-site scripting (XSS), security feature bypass, spoofing, tampering, and denial of service attacks

What to do

Window Users and System Administrators are highly recommended to apply these security updates as soon as possible to protect Windows from security risks

Reference

Microsoft Security Update- <https://portal.msrc.microsoft.com/en-us/security-guidance/releasenotedetail/28ef0a64-489c-e911-a994-000d3a33c573>

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