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**DATE(S) ISSUED:**

06/14/2022

**SUBJECT:**

Critical Patches Issued for Microsoft Products, June 14, 2022

**OVERVIEW:**

Multiple vulnerabilities have been discovered in Microsoft products, the most severe of which could allow for remote code execution in the context of the logged on user. Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights. Users whose accounts are configured to have fewer user rights on the system could be less impacted than those who operate with administrative user rights.

**THREAT INTELLIGENCE:**

CVE-2022-30190 (Follina) is actively being exploited in the wild. Although the update guide does not explicitly reference this vulnerability, the specific listing has confirmed that this update provides the necessary patches: [https://learn.cisecurity.org/e/799323/e-vulnerability-CVE-2022-30190/2db7yl/345842051?h=vvDvVlyhq7Wfh4Ca\\_itYCrDAZb\\_jyZT5AsMzDL6lxVY](https://learn.cisecurity.org/e/799323/e-vulnerability-CVE-2022-30190/2db7yl/345842051?h=vvDvVlyhq7Wfh4Ca_itYCrDAZb_jyZT5AsMzDL6lxVY)

**SYSTEMS AFFECTED:**

- .NET and Visual Studio
- Azure OMI
- Azure Real Time Operating System
- Azure Service Fabric Container
- Intel
- Microsoft Edge (Chromium-based)
- Microsoft Office
- Microsoft Office Excel
- Microsoft Office SharePoint
- Microsoft Windows ALPC
- Microsoft Windows Codecs Library
- Remote Volume Shadow Copy Service (RVSS)

- Role: Windows Hyper-V
- SQL Server
- Windows Ancillary Function Driver for WinSock
- Windows App Store
- Windows Autopilot
- Windows Container Isolation FS Filter Driver
- Windows Container Manager Service
- Windows Defender
- Windows Encrypting File System (EFS)
- Windows File History Service
- Windows Installer
- Windows iSCSI
- Windows Kerberos
- Windows Kernel
- Windows LDAP - Lightweight Directory Access Protocol
- Windows Local Security Authority Subsystem Service
- Windows Media
- Windows Network Address Translation (NAT)
- Windows Network File System
- Windows PowerShell
- Windows SMB

#### **RISK:**

##### **Government:**

- Large and medium government entities: **High**
- Small government entities: **Medium**

##### **Businesses:**

- Large and medium business entities: **High**
- Small business entities: **Medium**

##### **Home users: Low**

#### **TECHNICAL SUMMARY:**

Multiple vulnerabilities have been discovered in Microsoft products, the most severe of which could allow for remote code execution.

A full list of all vulnerabilities can be found at the link below:

[https://learn.cisecurity.org/e/799323/update-guide/2db7yp/345842051?h=vvDvVlyhq7Wfh4Ca\\_itYCrDAZb\\_jyZT5AsMzDL6lxVY](https://learn.cisecurity.org/e/799323/update-guide/2db7yp/345842051?h=vvDvVlyhq7Wfh4Ca_itYCrDAZb_jyZT5AsMzDL6lxVY)

Successful exploitation of the most severe of these vulnerabilities could result in an attacker gaining the same privileges as the logged-on user. Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights. Users whose accounts are configured to have fewer user rights on the system could be less impacted than those who operate with administrative user rights.

## **RECOMMENDATIONS:**

We recommend the following actions be taken:

- Apply appropriate patches or appropriate mitigations provided by Microsoft to vulnerable systems immediately after appropriate testing. **(M1051: Update Software)**
  - **Safeguard 7.1: Establish and Maintain a Vulnerability Management Process:** Establish and maintain a documented vulnerability management process for enterprise assets. Review and update documentation annually, or when significant enterprise changes occur that could impact this Safeguard.
  - **Safeguard 7.4: Perform Automated Application Patch Management:** Perform application updates on enterprise assets through automated patch management on a monthly, or more frequent, basis.
- Apply the Principle of Least Privilege to all systems and services, and run all software as a non-privileged user (one without administrative rights) to diminish the effects of a successful attack. **(M1026: Privileged Account Management)**
  - **Safeguard 4.7: Manage Default Accounts on Enterprise Assets and Software:** Manage default accounts on enterprise assets and software, such as root, administrator, and other pre-configured vendor accounts. Example implementations can include: disabling default accounts or making them unusable.
  - **Safeguard 5.4: Restrict Administrator Privileges to Dedicated Administrator Accounts:** Restrict administrator privileges to dedicated administrator accounts on enterprise assets. Conduct general computing activities, such as internet browsing, email, and productivity suite use, from the user's primary, non-privileged account.
- Remind all users not to visit untrusted websites or follow links/open files provided by unknown or untrusted sources. **(M1017: User Training)**
  - **Safeguard 14.1: Establish and Maintain a Security Awareness Program:** Establish and maintain a security awareness program. The purpose of a security awareness program is to educate the enterprise's workforce on how to interact with enterprise assets and data in a secure manner. Conduct training at hire and, at a minimum, annually. Review and update content annually, or when significant enterprise changes occur that could impact this Safeguard.
  - **Safeguard 14.2: Train Workforce Members to Recognize Social Engineering Attacks:** Train workforce members to recognize social engineering attacks, such as phishing, pre-texting, and tailgating.
- Use capabilities to prevent suspicious behavior patterns from occurring on endpoint systems. This could include suspicious process, file, API call, etc. behavior. **(M1040 : Behavior Prevention on Endpoint)**

- **Safeguard 13.2 : Deploy a Host-Based Intrusion Detection Solution:** Deploy a host-based intrusion detection solution on enterprise assets, where appropriate and/or supported.

**Safeguard 13.7 : Deploy a Host-Based Intrusion Prevention Solution:** Deploy a host-based intrusion prevention solution on enterprise assets, where appropriate and/or supported. Example implementations include use of an Endpoint Detection and Response (EDR) client or host-based IPS agent.

#### REFERENCES:

##### Microsoft:

- <https://msrc.microsoft.com/update-guide/>
- <https://msrc.microsoft.com/update-guide/releaseNote/2022-Jun>
- <https://msrc.microsoft.com/update-guide/vulnerability/CVE-2022-30190>

<https://msrc-blog.microsoft.com/2022/05/30/guidance-for-cve-2022-30190-microsoft-support-diagnostic-tool-vulnerability/>