MS-ISAC ADVISORY NUMBER: 2019-039
DATE(S) ISSUED: 04/09/2019
SUBJECT: Critical Patches Issued for Microsoft Products, April 09, 2019

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

THREAT INTELLIGENCE:
There are currently no reports of these vulnerabilities being exploited in the wild.

SYSTEMS AFFECTED:
- Adobe Flash Player
- Internet Explorer
- Microsoft Edge
- Microsoft Windows
- Microsoft Office and Microsoft Office Services and Web Apps
- ChakraCore
- ASP.NET
- Microsoft Exchange Server
- Team Foundation Server
- Azure DevOps Server
- Open Enclave SDK
- Windows Admin Center

RISK:
Government:
- Large and medium government entities: High
- Small government entities: Medium

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

Home users: Low

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

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

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
- Run all software as a non-privileged user (one without administrative rights) to diminish the effects of a
  successful attack.
- Remind all users not to visit untrusted websites or follow links provided by unknown or untrusted sources.
- Inform and educate users regarding threats posed by hypertext links contained in emails or attachments
  especially from untrusted sources
- Apply the Principle of Least Privilege to all systems and services.

REFERENCES:
Microsoft:
https://portal.msrc.microsoft.com/en-us/security-guidance/releasenotedetail/18306ed5-1019-e911-a98b-000d3a33a34d
24×7 Security Operations Center
Multi-State Information Sharing and Analysis Center (MS-ISAC)
Elections Infrastructure Information Sharing and Analysis Center (EI-ISAC)
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