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MS-ISAC ADVISORY NUMBER:

2016-116

DATE(S) ISSUED:

08/09/2016

SUBJECT:

Cumulative Security Update for Microsoft Edge (MS16-096)

OVERVIEW:

Multiple vulnerabilities have been discovered in Microsoft Edge that could allow for remote code execution. Microsoft Edge replaced Internet Explorer as the default browser on Windows 10. Successful exploitation 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.

THREAT INTELLIGENCE:

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

SYSTEMS AFFECTED:

- Windows 10
- Windows 10 (Version 1511)
- Windows 10 (Version 1607)

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 Edge that could allow for remote code execution. Details of these vulnerabilities are as follows:

- Four memory corruption vulnerabilities exist when Microsoft Edge improperly accesses objects in memory (CVE-2016-3289, CVE-2016-3293, CVE-2106-3319, CVE-2106-3322)
- One scripting engine memory corruption vulnerability exists in the way the Chakra javascript engine renders when handling objects in memory (CVE-2016-3296)
- Two information disclosure vulnerabilities exist when Microsoft Edge improperly handles objects in memory (CVE-2016-3326, CVE-2016-3327)
- One information disclosure vulnerability exists when Microsoft Edge improperly handles page content (CVE-2016-3329)

Successful exploitation 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. Customers 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:

The following actions should be taken:

- Apply appropriate patches provided by Microsoft to vulnerable systems immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to visit un-trusted websites or follow links provided by unknown or un-trusted sources.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments, especially those from un-trusted sources.
- Apply the principle of Least Privilege to all systems and services.

REFERENCES:

Microsoft:

<https://technet.microsoft.com/en-us/library/security/ms16-096.aspx>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3289>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3293>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3296>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3319>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3322>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3326>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3327>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3329>

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