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**TLP: WHITE**

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**DATE(S) ISSUED:**

06/18/2019

**SUBJECT:**

A vulnerability in Mozilla Firefox Could Allow for Arbitrary Code Execution

**OVERVIEW:**

A vulnerability has been discovered in Mozilla Firefox and Firefox Extended Support Release (ESR), which could allow for arbitrary code execution. Mozilla Firefox is a web browser used to access the Internet. Mozilla Firefox ESR is a version of the web browser intended to be deployed in large organizations. Successful exploitation of this vulnerability could allow for arbitrary code execution through an exploitable crash. 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:**

Mozilla is currently aware of targeted attacks in the wild abusing this flaw.

**SYSTEMS AFFECTED:**

- Mozilla Firefox versions prior to 67.0.3
- Mozilla Firefox ESR versions prior to 60.7.1

**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:**

A vulnerability has been discovered in Mozilla Firefox and Firefox Extended Support Release (ESR), which could allow for arbitrary code execution. A type confusion vulnerability can occur when manipulating JavaScript objects due to issues in Array.pop. This can allow for an exploitable crash (CVE-2019-11707). Successful exploitation of this vulnerability could allow for arbitrary code execution. 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:

The following actions should be taken:

- Apply appropriate updates provided by Mozilla 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 from un-trusted sources.
- Apply the Principle of Least Privilege to all systems and services.

## REFERENCES:

### Mozilla:

<https://www.mozilla.org/en-US/security/advisories/mfsa2019-18/>

### CVE:

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-11707>

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