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DATE(S) ISSUED:

09/10/2014

SUBJECT:

Multiple Vulnerabilities in Google Chrome Could Allow for Remote Code Execution

OVERVIEW:

Multiple vulnerabilities have been discovered in Google Chrome that could result in remote code execution. Google Chrome is a web browser used to access the Internet. These vulnerabilities can be exploited if a user visits, or is redirected to, a specially crafted web page. Successful exploitation of these vulnerabilities could result in an attacker gaining the same privileges as the user running the affected application. 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 is not any known proof-of-concept code available at this time.

SYSTEM AFFECTED:

- Google Chrome Prior to 37.0.2062.120

RISK:

Government:

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

Businesses:

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

Home users: High

TECHNICAL SUMMARY:

Four unspecified vulnerabilities were patched in the latest version of Google Chrome. They are listed as follows:

- One Use-after-free vulnerability could result in remote code execution. Failed exploit attempts may result in a denial of service condition. [CVE-2014-3178]
- Three unspecified vulnerabilities were addressed by Google's internal security team. [CVE-2014-3179]

RECOMMENDATIONS:

The following actions should be taken:

- Update vulnerable Google Chrome products immediately after appropriate testing by following the steps outlined by Google.
- 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.
- Do not open email attachments or click on URLs from unknown or un-trusted sources.

REFERENCES:

Google:

http://googlechromereleases.blogspot.com/2014/09/stable-channel-update_9.html

CVE:

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3178>

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3179>

SecurityFocus:

<http://www.securityfocus.com/bid/69709>

<http://www.securityfocus.com/bid/69710>