Vulnerability in 海豚浏览器 for Android

Daoyuan Wu*, Xiapu Luo* and Rocky K. C. Chang
The Hong Kong Polytechnic University
{csdwu, csxluo, csrchang}@comp.polyu.edu.hk
Mar 2, 2012 at 2:13 PM HKT

Abstract

We found that 海豚浏览器 6.3.1 and 7.2.1 have a vulnerability that allows a crafted application to read and modify user's sensitive browser information without permission, including user's bookmarks and downloads in 海豚浏览器.

1 Application Information

Please see the following link in our AppSec website:

http://www4.comp.polyu.edu.hk/~appsec/bugs/CVE-2012-1403-vulnerability-in-DolphinBrowser CN.html

2 Description

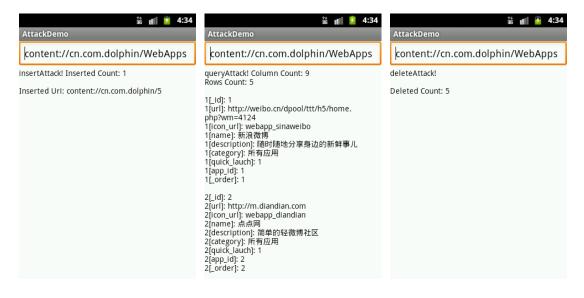
Please see the exposed content providers in the AndroidManifest.xml file, which are not properly protected, as shown in follows:

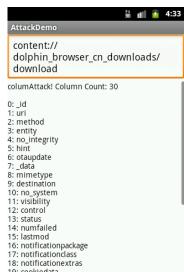
- provider android:name="com.dolphin.browser.downloads.DownloadProvider"
 android:authorities="dolphin_browser_cn_downloads" />

- provider android:name="mgeek.provider.WebAppProvider"
 android:authorities="cn.com.dolphin" />

3 Impact

Please see the following snapshots generated by our arrack demo:





4 Solution

Our advice is to set the permission of these application's content providers properly, or avoid exporting these content providers in the AndroidManifest.xml file. Currently, a user could disable the application temporarily and wait for an official update.

5 Technical Description

Please see the following exposed content providers and tables:

Content Provider Authority	Table Name
dolphin_browser_cn_downloads	download
cn.com.dolphin	WebApps