Vulnerability in KKtalk (KK 觅友) for Android

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Abstract

We found that KKtalk 4.0.0 and 4.1.5 have a vulnerability that allows a crafted application to read and modify user's sensitive information without permission, including detailed information of user's chat friends in KKtalk, user's comments in KKtalk, detailed information of user's friend profile in KKtalk, detailed information of user's last message in KKtalk, user's all message content in KKtalk, detailed information of notified information in KKtalk, detailed information of user's profile in KKtalk, and etc.

1 Application Information

Please see the following link in our AppSec website: http://www4.comp.polyu.edu.hk/~appsec/bugs/CVE-2012-1476-vulnerability-in-KKtalk.html

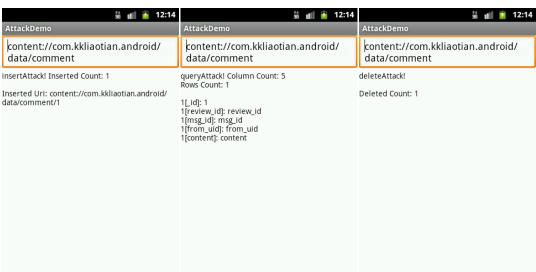
2 Description

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

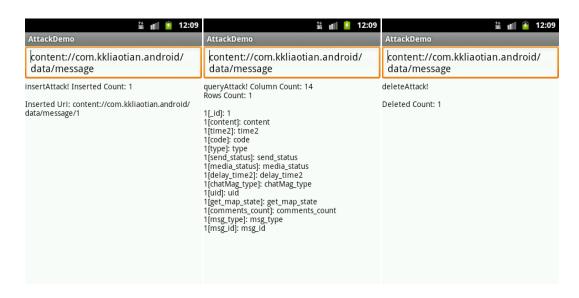
3 Impact

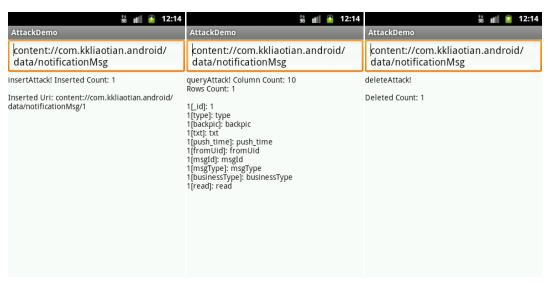
Please see the following snapshots generated by our arrack demo:













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.