Vulnerability in Cnectd for Android

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Abstract

We found that Cnectd 3.1.0 has a vulnerability that allows a crafted application to read and modify user's sensitive information without permission, including user's contacts in Cnectd, user's messages in Cnectd, user's notifications in Cnectd, and etc.

1 Application Information

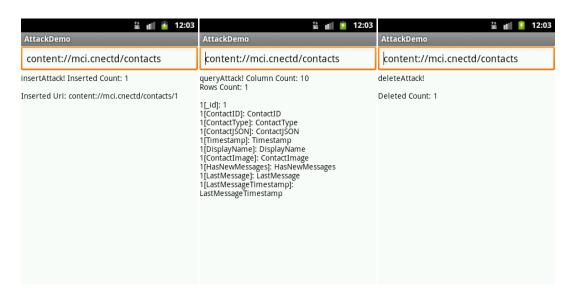
Please see the following link in our AppSec website: http://www4.comp.polyu.edu.hk/~appsec/bugs/CVE-2012-1477-vulnerability-in-Cnectd.html

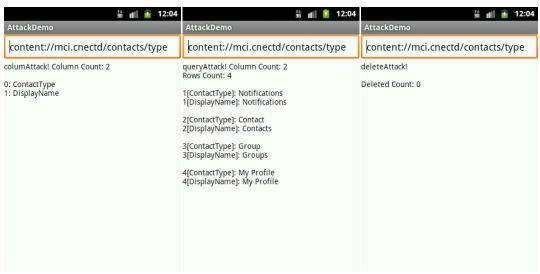
2 Description

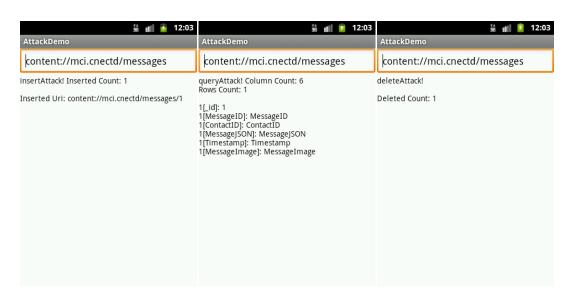
Please see the exposed content providers in the AndroidManifest.xml file, which are not properly protected, as shown in follows:

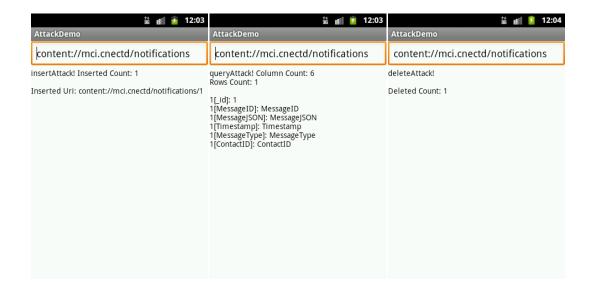
3 Impact

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.

5 Technical Description

Please see the following exposed content providers and tables:

Content Provider Authority	Table Name
mci.cnectd	contactbycontactid
mci.cnectd	contacts
mci.cnectd	contacts/type
mci.cnectd	messages
mci.cnectd	messages/contact
mci.cnectd	notifications