# Vulnerability in NetEase Reader (网易阅读) for Android

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#### **Abstract**

We found that NetEase Reader 1.1.2 Dec 5th 2011 17:00 and 1.2.0 Feb. 10th 2012 17:00 have a vulnerability that allows a crafted application to read and modify user's sensitive NetEase Reader information without permission, including accounts (username and password in plaintext!), user's all and favorite subscribe, user's configuration information, and etc. Worse, if user login his or her other web service account to share reading, such as NetEase Weibo, Sina Weibo, Tencent Weibo, RenRen, Douban, Kaixin, the secret token of these web services are also exposed.

### 1 Application Information

Please see the following link in our AppSec website:

http://www4.comp.polyu.edu.hk/~appsec/bugs/CVE-2012-1383-vulnerability-in-NetEaseReader.

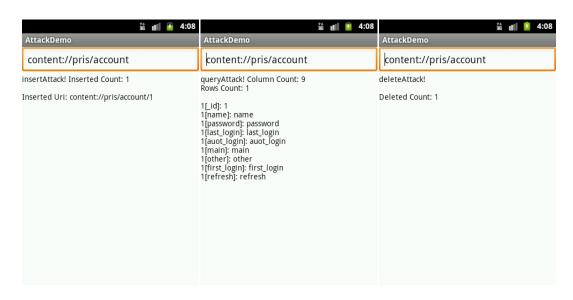
#### 2 Description

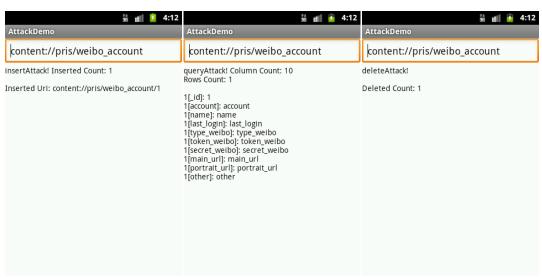
Please see the exposed content providers in the AndroidManifest.xml file, which are not properly protected, as shown in follows:

- provider android:name=".provider.CustomContentProvider"
   android:authorities="custom\_authority" />

#### 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
pris	rawquery
pris	account
pris	favorite
pris	subscribe
pris	article_status
pris	cachetabable
pris	config
pris	search
pris	conver
pris	temp_search
pris	temp_article
pris	temp_comment
pris	temp_subcribe
pris	weibo_account
pris	offline
pris	fonts