Log Testing:

After testing with sign in with Miles Plus number, password, and two security questions none of these secrets were found in the logs from logcat.

Memory Testing:

Frida server running on target android emulator:

```
generic_x86_64:/ # chmod -R 775 /data/local/tmp/
generic_x86_64:/ # ./data/local/tmp/frida-server-16.1.11-android-x86_64
```

Pid for united airlines app:

```
3123  United Airlines
```

After running fridump I opened strings.txt and found the following:

{"answeredSecurityQuestions":[{"answers":[{"answerID":0,"answerKey":"2c9VP8uK6VUJ1JR4Lmonwk3wy1UGEBgO4VqUYjUqar6kU\u003dT679dhmVw95I3qNNZh1q3A\u003d\u003d","answerText":"Action","questionID":0,"questionKey":"2c9VP8uK6VUJ1JR4Lmonwk3wy1UGEBgO4VqUYjUqar6kU\u003dQZWwGfJRPN1NwgQWLs5iUA\u003d\u003d","questionText":"What is your favorite type of movie?","used":false},{"answers":[{"answerID":0,"answerKey":"2c9VP8uK6VUJ1JR4Lmonwk3wy1UGEBgO4VqUYjUqar6kU\u003d/3WWVyQUFQX6vFhilRDEeA\u003d\u003d","answerText":"Blues","questionID":0,"questionKey":"2c9VP8uK6VUJ1JR4Lmonwk3wy1UGEBgO4VqUYjUqar6kU\u003dl5EVIw4fyu1wemfYpQnrqQ\u003d\u003d","questionText":"What is your favorite type of music?","used":false}],"customerID":247800635,"hashValue":"","mileagePlusNumber":"MDL91357","rememberDevice":true,"sessionID":"F7+g0YCuMmtZ39Gx4n9DHBqdjeFOnbofhRatBFa6zmoaSR7NgvZBMyZaZ67wjr5J","tFAMPDeviceSecurityPath":"ValidateTFASecurityQuestions","accessCode":"ACCESSCODE","application":{"id":2,"isProduction":false,"name":"Android","version":{"major":"4.1.102","minor":"4.1.102"}},"deviceId":"37f80a72-39d0-429e-9b2b-c57648b88dc5","languageCode":"en-US","transactionId":"37f80a72-39d0-429e-9b2b-c57648b88dc5|bec1cdc7-ea4d-4f56-b504-54a8df0dd9a7"}

The answers for the security questions were found in plaintext.

The miles plus number used to sign in was also found in plaintext:

$BNEYLIQ8D6NQ0H4BWSU6XEAANMKICFEOETQ8.SBY9Y18QXYRQN0WE","mileagePlusNumber":"MDL91357","accessCode":"ACCESSCODE","application":{"id":2,"isProduction":fals,"name":"Android","version":{"major":"4.1.102","minor":"4.1.102"}},"deviceId":"37f80a72-39d0-429e-9b2b-c57648b88dc5","languageCode":"en-US","transactionId":"37f80a72-39d0-429e-9b2b-c57648b88dc5|b26607fd-5d8a-4f90-9061-2e6249b28fd6"}":"MDL91357","HASH":"$2A$11$BNEYLIQ8D6NQ0H4BWSU6XEAANMKICFEOETQ8.SBY9Y18QXYRQN0WE"},"bucket":"dbsp","documents":[],"isComplement":false,"mileagePlusAccountNumber":"MDL91357"},"deviceId":"37f80a72-39d0-429e-9b2b-c57648b88dc5","languageCode":"en-US","pushToken":"","transactionId":"37f80a72-39d0-429e-9b2b-c57648b88dc5|0e2fae40-c1fa-4fc4-b38b-1d4e045fa715"}
0ZYo

Fortunately no passwords were found in plaintext and are likely to be encrypted.