



IllegalBlockSizeException on Android 13 Beta 3 Emulator while authenticating with fingerprint

+1 7

Hotlists (3)

Mark as Duplicate



Comments (10) Dependencies Duplicates (0) Blocking (0) Resources (2)

Fixed

Bug

P2

+ Add Hotlist

Platform



STATUS UPDATE No update yet.

Edit



DESCRIPTION se...@gmail.com created issue #1

* Are you an Android developer?" (Y/N) - Yes

* Which Android Developer Preview build are you using? - Device: Android 13 emulator x86_64 Build: TPBB3.220513.017 (Google Play)

* Is this a regression from Android 12 to 13? - Yes, this is a regression comparing to Android 12 emulator x86 (Google Play)

* What device are you using? - The issue is reproducible only on Android 13 emulator

* What are the steps to reproduce the problem?

1. Build and install attached sample app (added to the attachments)

\$./gradlew installDebug

2. Click on "Show biometrics dialog" button

3. Emulate fingerprint touch

adb -e emu finger touch 11551155

Or

Open emulator settings -> Select Fingerprint -> Click "Touch Sensor" buttor

* What was the expected result?

Toast with message "Encryption is succeed" is shown

* Can you provide the API document where this expected behavior is explained?

Followed this guide - ["Use a cryptographic solution that depends on authentication"](<https://developer.android.com/training/sign-in/biometric-auth>)

* What was the actual result?



Toast with message "Encryption is failed with IllegalBlockSizeException exception" is shown

* Relevant logcat output.



```
05-19 13:14:29.301 8374 8374 I BiometricSample: exception: javax.crypto.IllegalBlockSizeException
05-19 13:14:29.302 8374 8374 W System.err: javax.crypto.IllegalBlockSizeException
05-19 13:14:29.309 8374 8374 W System.err: at android.security.keystore2.AndroidKeyStoreCipherSpiBase.engineDoFinal(AndroidKeyStoreCipherSpiBase.java:613)
05-19 13:14:29.309 8374 8374 W System.err: at javax.crypto.Cipher.doFinal(Cipher.java:2055)
05-19 13:14:29.309 8374 8374 W System.err: at com.blackberry.sampleapp.BiometricLoginFragment$1.onAuthenticationSucceeded(BiometricLoginFragment.java:50)
05-19 13:14:29.309 8374 8374 W System.err: at com.blackberry.sampleapp.BiometricManager$1.onAuthenticationSucceeded(BiometricManager.java:48)
05-19 13:14:29.309 8374 8374 W System.err: at androidx.biometric.BiometricFragment$9.run(BiometricFragment.java:907)
05-19 13:14:29.309 8374 8374 W System.err: at android.os.Handler.handleCallback(Handler.java:942)
05-19 13:14:29.309 8374 8374 W System.err: at android.os.Handler.dispatchMessage(Handler.java:99)
05-19 13:14:29.309 8374 8374 W System.err: at android.os.Looper.loopOnce(Looper.java:201)
05-19 13:14:29.309 8374 8374 W System.err: at android.os.Looper.loop(Looper.java:288)
05-19 13:14:29.310 8374 8374 W System.err: at android.app.ActivityThread.main(ActivityThread.java:7844)
05-19 13:14:29.310 8374 8374 W System.err: at java.lang.reflect.Method.invoke(Native Method)
05-19 13:14:29.310 8374 8374 W System.err: at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:548)
05-19 13:14:29.310 8374 8374 W System.err: at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:936)
05-19 13:14:29.311 8374 8374 W System.err: Caused by: android.security.KeyStoreException: Key user not authenticated (internal Keystore code: -26 message: In KeystoreOperation::update
05-19 13:14:29.311 8374 8374 W System.err: Caused by:
05-19 13:14:29.311 8374 8374 W System.err: 0: In update: KeyMint::update failed.
05-19 13:14:29.311 8374 8374 W System.err: 1: Error::Km(ErrorCode(-26))) (public error code: 2 internal Keystore code: -26)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.KeyStore2.getKeyStoreException(KeyStore2.java:363)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.KeyStoreOperation.handleExceptions(KeyStoreOperation.java:78)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.KeyStoreOperation.update(KeyStoreOperation.java:115)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.keystore2.KeyStoreCryptoOperationChunkedStreamer$MainDataStream.update(KeyStoreCryptoOperationChunkedStreamer.java:156)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.keystore2.KeyStoreCryptoOperationChunkedStreamer.update(KeyStoreCryptoOperationChunkedStreamer.java:156)
05-19 13:14:29.311 8374 8374 W System.err: at android.security.keystore2.KeyStoreCryptoOperationChunkedStreamer.doFinal(KeyStoreCryptoOperationChunkedStreamer.java:179)
05-19 13:14:29.312 8374 8374 W System.err: at android.security.keystore2.AndroidKeyStoreCipherSpiBase.engineDoFinal(AndroidKeyStoreCipherSpiBase.java:603)
05-19 13:14:29.312 8374 8374 W System.err: ... 12 more
05-19 13:14:29.314 594 980 W InputManager-JNI: Input channel object 'f488cf7 BiometricPrompt (client)' was disposed without first being removed with the input manager!
```

See sample app, video and bug report in attachments.

CryptoSampleApp.zip

 19 MB Download 

 **Emulator_Pixel_2_API_Tiramisu.webm**
11 MB Download 

 **Bugreport_emulator_Pixel_2_API_tiramisu.zip**
3.2 MB Download 


✓ Links (2)


↔ Links (2)

"Followed this guide - ["Use a cryptographic solution that depends on authentication"](<https://developer.android.com/training/sign-in/biometric-auth>)"


"...ill present in Android API 33 emulator version 31.3.10.0 (build_id 8807927) and system image https://dl.google.com/android/repository/sys-img/google_apis/x86_64-33_r06.zip , getting same res

COMMENTS


 **sa...@google.com** <sa...@google.com>
Assigned to ad...@google.com.

 **ad...@google.com** <ad...@google.com> [#2](#)


We have passed this to the development team and will update this issue with more information as it becomes available.

 **ad...@google.com** <ad...@google.com> [#3](#)
Marked as fixed.


The issue has been fixed and it will be available in a future build.

 **ar...@encap.no** <ar...@encap.no> [#4](#)


Problem still present in Android API 33 emulator version 31.3.10.0 (build_id 8807927) and system image https://dl.google.com/android/repository/sys-img/google_apis/x86_64-33_r06.zip ,

 **su...@capitalone.com** <su...@capitalone.com> [#5](#)

Problem still present in Android API 33 emulator version 31.3.10.0 ,
I am getting same result app crashes as soon as emulator's Touch Sensor button clicked with same IllegalBlockSizeException

 **su...@capitalone.com** <su...@capitalone.com> [#6](#)

We have notice this issue happen not only emulator but device too.

 **ar...@encap.no** <ar...@encap.no> [#7](#)


Problem still present in Android API 33 emulator 31.3.11.

 **le...@gmail.com** <le...@gmail.com> [#8](#)

Problem still present in Android API 33 emulator 31.3.12

 **su...@gmail.com** <su...@gmail.com> [#9](#)

Problem still present in Android API 33 emulator 31.3.13 (arm64)

 **su...@gmail.com** <su...@gmail.com> [#10](#)

I'm able to encrypt after biometric check on API 33 device (Pixel 4a) and on API 31 both emulator and device (Pixel 3), but my app crashes on API 33 emulator with error message:

```
javax.crypto.IllegalBlockSizeException
    at android.security.keystore2.AndroidKeyStoreCipherSpiBase.engineDoFinal(AndroidKeyStoreCipherSpiBase.java:613)
    at javax.crypto.Cipher.doFinal(Cipher.java:2056)
```