

Information Disclosure

Affecting [com.google.guava:guava](#) package, versions [30.0-android) (30.0-android, 30.0-jre)

INTRODUCED: 2 OCT 2020 CVE-2020-8908 CWE-200

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How to fix?

There is no fix for `com.google.guava:guava`. However, in version 30.0 and above, the vulnerable functionality has been deprecated. In order to mitigate this vulnerability, upgrade for version 30.0 or higher and ensure your dependencies don't use the `createTempFile` or `createTempFile` methods.

Overview

`com.google.guava:guava` is a set of core libraries that includes new collection types (such as `multimap` and `multiset`, immutable collections, a graph library, functional types, an in-memory cache and more.

Affected versions of this package are vulnerable to Information Disclosure. The file permissions on the file created by `com.google.common.io.Files.createTempDir` allows an attacker running a malicious program co-resident on the same machine to steal secrets stored in this directory. This is because, by default, on unix-like operating systems the `/tmp` directory is shared between all users, so if the correct file permissions aren't set by the directory/file creator, the file becomes readable by all other users on that system.

PoC

```
File guavaTempDir = com.google.common.io.Files.createTempDir(); System.out.println("Guava Temp Dir: " + guavaTempDir.getName()); runS(guavaTempDir.getParentFile(), guavaTempDir); // Prints the file permissions -> drwxr-xr-x File child = new File(guavaTempDir, "guava-child.txt"); child.createNewFile(); runS(guavaTempDir, child); // Prints the file permissions -> -rw-r--r--
```

For Android developers, it is recommend choosing a temporary directory API provided by Android, such as `context.getCacheDir()`. For other Java developers, we recommend migrating to the Java 7 API `java.nio.file.Files.createTempDirectory()` which explicitly configures permissions of 700, or configuring the Java runtime's `java.io.tmpdir` system property to point to a location whose permissions are appropriately configured.

References

- [GHSA Advisory](#)
- [GitHub Commit](#)
- [GitHub Issue](#)

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Snyk ID	SNYK-JAVA-COMGOOGLEGUAVA-1015415
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Credit	Jonathan Leitschuh

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