



Android tracing, monitoring and debugging



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This article provides useful information to start using Android™ tracing, monitoring and debugging environments.

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1 Specific Linux® tracing and debugging tools

In Android™ various Linux tracing and debugging tools are available. To get the global picture, refer to [Linux tracing, monitoring and debugging page](#).

2 Android tools

2.1 Application debugging

You can use Android Studio to debug your Android application. Please read the official documentation about Android Studio [\[1\]](#).

2.2 adeb

adeb (also known as androdeb) provides a powerful Linux shell environment where one can run popular and mainstream Linux tracing, compiling, editing and other development tools on an existing Android device. All the commands typically available on a modern Linux system are supported in adeb.

It consist in installing a Debian distribution into the Android system itself to execute more debug commands.

For more information refer to the [ADEB page](#).



2.3 logcat

The Android logging system provides a mechanism for collecting and viewing system debug output. Logs from various applications and portions of the system are collected in a series of circular buffers, which then can be viewed and filtered by the `logcat` command. Use `logcat` from an [ADB](#) shell to view the log messages.

For more information refer to the [Android developer site](#)^[2].

2.4 perfetto

Perfetto is an open-source project for performance instrumentation and tracing of Android platforms and user-space apps.

For more information refer to the [perfetto](#) page.

3 References

- <https://developer.android.com/studio/debug>
- <https://developer.android.com/studio/command-line/logcat>