* **Services**

A [Service](https://developer.android.com/reference/android/app/Service) is an [application component](https://developer.android.com/guide/components/fundamentals#Components) that can perform long-running operations in the background. It does not provide a user interface. Once started, a service might continue running for some time, even after the user switches to another application. Additionally, a component can bind to a service to interact with it and even perform interprocess communication (IPC). For example, a service can handle network transactions, play music, perform file I/O, or interact with a content provider, all from the background.

**Types of Services**

These are the three different types of services:

**Foreground**

A foreground service performs some operation that is noticeable to the user. For example, an audio app would use a foreground service to play an audio track. Foreground services must display a [Notification](https://developer.android.com/develop/ui/views/notifications). Foreground services continue running even when the user isn't interacting with the app.

When you use a foreground service, you must display a notification so that users are actively aware that the service is running. This notification cannot be dismissed unless the service is either stopped or removed from the foreground.

**Background**

A background service performs an operation that isn't directly noticed by the user. For example, if an app used a service to compact its storage, that would usually be a background service.

**Bound**

A service is *bound* when an application component binds to it by calling [bindService()](https://developer.android.com/reference/android/content/Context" \l "bindService(android.content.Intent,%20android.content.ServiceConnection,%20int)). A bound service offers a client-server interface that allows components to interact with the service, send requests, receive results, and even do so across processes with interprocess communication (IPC). A bound service runs only as long as another application component is bound to it. Multiple components can bind to the service at once, but when all of them unbind, the service is destroyed.