

## SERVICE :

A **Service** is an **application component** 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.

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

### 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**.

### 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. Alternative can be work manager

### Bound

A service is *bound* when an application component binds to it by calling **bindService()**. 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)

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## Declaring a service in the manifest

You must declare all services in your application's manifest file,  
<manifest ... >

...

<application ... >

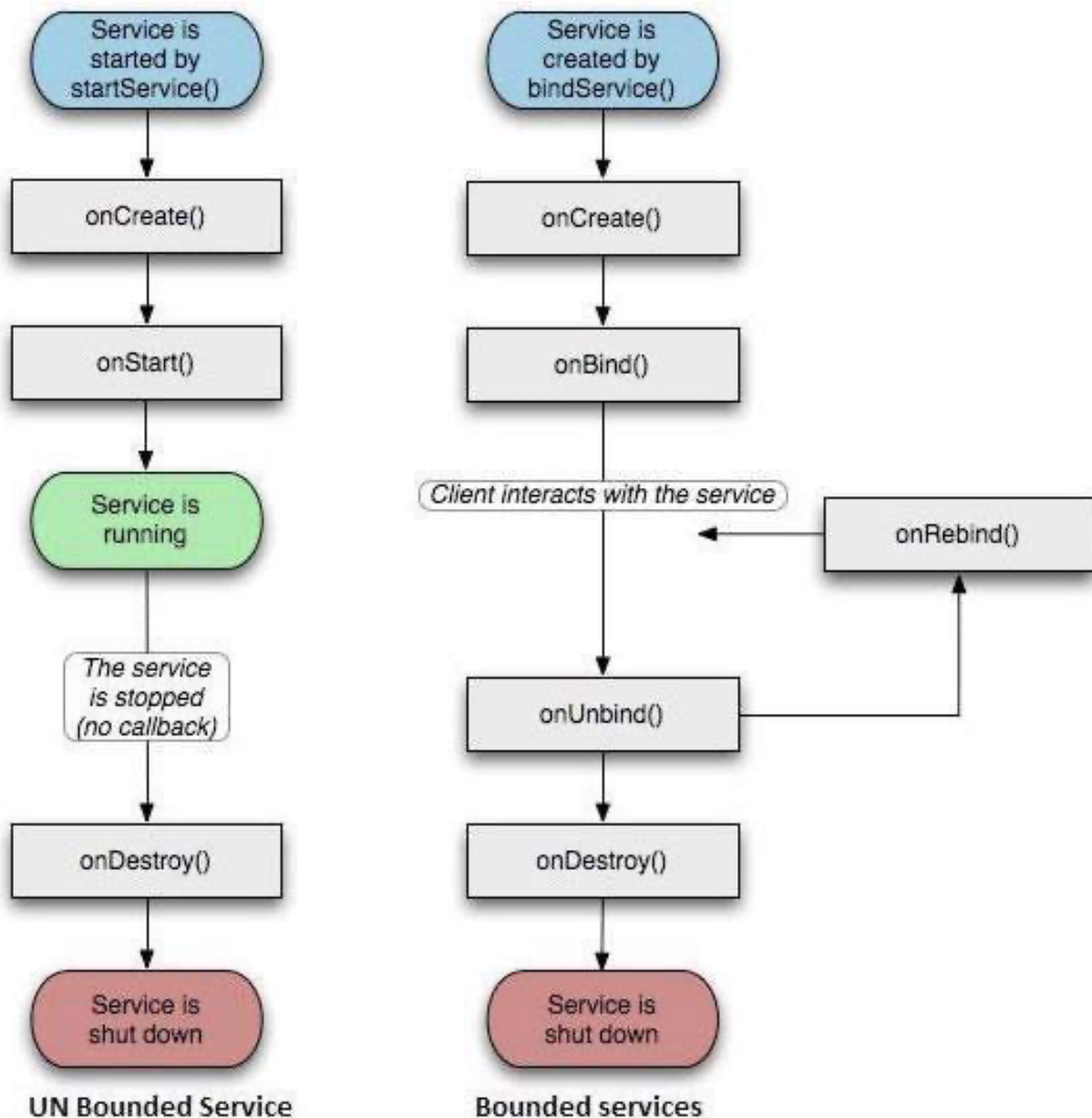
    <service android:name=".ExampleService" />

...

</application>

</manifest>

Note: You can ensure that your service is available to only your app by including the **android:exported** attribute and setting it to false.



Note :Keep in mind: **services are not "always running" components**, even when using `START_STICKY`.

The Android system will not hesitate to kill your service if it needs memory somewhere else. `START_STICKY` only means that the Android system will re-start your service when it can

BOUND SERVICE :

A bound service is one that allows application components to bind to it by calling `bindService()` to create a long-standing connection. It generally doesn't allow components to *start* it by calling `startService()`.

Create a bound service when you want to interact with the service from activities and other components in your application or to expose some of your application's functionality to other applications through interprocess communication (IPC).