

# Auto-Run App Post-Boot

## Steps for Auto-Start Configuration

1. Listen to Broadcast Messages:
  - Android applications can react to system events by listening to broadcast messages. This is achieved by registering broadcast receivers in your app.
2. Handle BOOT\_COMPLETED Broadcast:
  - The Android system emits a specific broadcast message, 'android.intent.action.BOOT\_COMPLETED', when the device finishes booting.
  - By capturing this broadcast, your app can perform actions immediately after the device boots.
3. Declare a Receiver in the Manifest:
  - To enable your app to receive the boot completion broadcast, declare a broadcast receiver in your app's 'AndroidManifest.xml' file.
  - In the receiver, specify an intent filter for 'android.intent.action.BOOT\_COMPLETED'.
4. Implement the Receiver:
  - In your receiver's code, define the actions to be taken when the boot completion broadcast is received. This could involve starting a service or launching an activity.

### Code Example:

```
1 // Declare receiver in manifest file
2 <receiver android:name=".BootReceiver">
3     <intent-filter>
4         <action android:name="android.intent.action.BOOT_COMPLETED" />
5     </intent-filter>
6 </receiver>
```

```
1 // Receiver class
2 public class BootReceiver extends BroadcastReceiver {
3     @Override
4     public void onReceive(Context context, Intent intent) {
5         // Check if it is boot broadcast
6         if (intent.getAction().equals("android.intent.action.BOOT_COMPLETED")) {
7             // Start service or activity
8             Intent newIntent = new Intent(context, MyService.class);
9             context.startService(newIntent);
10        }
11    }
12 }
```