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Trying to start a service on boot on Android

181

```
android
```

service

broadcastreceiver

I've been trying to start a service when a device boots up on android, but I cannot get it to work. I've looked at a number of links online but none of the code works. Am I forgetting something?

AndroidManifest.xml

BroadcastReceiver

```
public void onReceive(Context context, Intent intent) {
   if ("android.intent.action.BOOT_COMPLETED".equals(intent.getAction())) {
      Intent serviceLauncher = new Intent(context, RunService.class);
      context.startService(serviceLauncher);
      Log.v("TEST", "Service loaded at start");
   }
}
```

Thanks

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Alex 964 3 10 9

Asked May 6 '10 at 20:56



1

Greg 9,134 • 10 • 36 • 64

Feb 24 at 12:12

Edited

i dunno what i did but i think it works now it might have been the android:permission="android.permission.RECEIVE_BOOT_COMPLETED" for the receiver — Alex May 6 '10 at 22:58

- You should accept the answer if you found a valuable suggestion which helped you fix your problem...

 This would help you in turn to improve your accept ratio, and even help others who may face a similar issue in the future! Mahendra Dec 6 '11 at 11:42
- 6 Please accept Timo's answer. Nemanja Boric Nov 7 '12 at 20:33

You ask questions and accept none. Is this behavior by habit or choice? - Siddharth Sep 24 at 5:08

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10 Answers order by votes

The other answers look good, but I thought I'd wrap everything up into one complete answer.

You need the following in your AndroidManifest.xml file:

1) In your <manifest> element:

```
<uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED" />
```

2) In your <application> element (be sure to use a fully-qualified [or relative] class name for your BroadcastReceiver):

```
<receiver android:name="com.example.MyBroadcastReceiver">
        <intent-filter>
            <action android:name="android.intent.action.BOOT_COMPLETED" />
            </intent-filter>
            </receiver>
```

(you don't need the android:enabled, exported, etc., attributes... the Android defaults are correct)

In MyBroadcastReceiver.java:

```
package com.example;

public class MyBroadcastReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        Intent startServiceIntent = new Intent(context, MyService.class);
        context.startService(startServiceIntent);
    }
}
```

From the original question:

• it's not clear if the <receiver> element was in the <application> element

- it's not clear if the correct fully-qualified (or relative) class name for the BroadcastReceiver was specified
- there was a typo in the <intent-filter>

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Answered Mar 25 '11 at 23:55



Edited Nov 4 '13 at 5:15

- This looks good. I'm gonna use this as a basis, thanks :). No checkmark or upvotes or response sadly : (. Anyone verify this? Nanne Apr 18 '11 at 18:18
- Just a complement: make sure your app is install in internal memory <manifest xmlns:android="..." package="..." android:installLocation="internalOnly"> Bao Le Aug 9 '11 at 2:00

Its very simple and perfect, Just i saw the answer once , i wont forgot ever. – **Kartihkraj Duraisamy** Jan 25 '13 at 6:38

- In Android Jellybean 4.2.2 in the <receiver> tag I had to use the class' relative name instead of the fully-qualified name for the service to start, as noted in stackoverflow.com/questions/16671619/... Piovezan May 21 '13 at 18:38
- If the receiver is used for different stuff:

 ("android.intent.action.BOOT_COMPLETED".equals(intent.getAction())) { Intent serviceIntent = new Intent(context, Service_Location.class); // i.putExtra("KEY1", "Value to be used by the service"); context.startService(serviceIntent); } Gunnar Bernstein Nov 30 '13 at 10:51

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As an additional info: BOOT_COMPLETE is sent to applications *before* external storage is mounted. So if application is installed to external storage it won't receive BOOT_COMPLETE broadcast message.

More details here in section *Broadcast Receivers listening for "boot completed"*

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inazaruk 40.3k • 10 • 116 • 125 Answered Nov 22 '10 at 13:59

Along with

23

<action android:name="android.intent.action.BOOT_COMPLETED" />

also use,

<action android:name="android.intent.action.QUICKBOOT_POWERON" />

HTC devices dont seem to catch BOOT_COMPLETED

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Answered May 14 '13 at 11:52

17

note that at the beginning of the question, there is a typo mistake:

<action android:name="android.intent.action._BOOT_COMPLETED"/>

instead of :

<action android:name="android.intent.action.BOOT_COMPLETED"/>

one small "_" and all this trouble :)

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Answered Feb 5 '11 at 9:19

Edited Feb 5 '11 at 12:10

10

I found out just now that it might be because of Fast Boot option in Settings > Power

When I have this option off, my application receives a this broadcast but not otherwise.

By the way, I have Android 2.3.3 on HTC Incredible S.

Hope it helps.

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Omer Akhter 143 • 1 • 7 **Answered** Jan 11 '12 at 20:21

Definitely possible cause of the issue. Observed also on HTC Desire C running Android 4.0.3. – **Zelimir** Jan 8 '13 at 16:32

that solved my problem - Abhishek Chauhan Mar 2 '13 at 18:34

that's y u should look this stackoverflow.com/a/16542461/1239006 - MatheusJardimB Apr 26 at 2:32

add a comment

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For first: since version Android 3.1+ you don't recieve BOOT_COMPLETE if user never started yor app at least once or user "force closed" application. This was done to prevent malware automatically register service. This security hole was closed in newer versions of Android.

Solution:

Create app with activity. When user run it once app can recieve BOOT_COMPLETE broadcast message.

For second: BOOT_COMPLETE is sent before external storage is mounted. if app is installed to external storage it won't receive BOOT_COMPLETE broadcast message.

In this case there is two solution:

- 1. Install your app to internal storage
- 2. Instal another small app in internal storage. This app recieves BOOT_COMPLETE and run second app on external storage.

If your app already installed in internal storage then code below can help you understand how to start service on device boot.

In Manifest.xml

Permission:

<uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED" />

Register your BOOT_COMPLETED reciever:

```
<receiver android:name="org.yourapp.OnBoot">
    <intent-filter>
        <action android:name="android.intent.action.BOOT_COMPLETED"/>
        </intent-filter>
    </receiver>
```

Register your service:

<service android:name="org.yourapp.YourCoolService" />

In reciever OnBoot.java:

```
public class OnBoot extends BroadcastReceiver
{
    @Override
    public void onReceive(Context context, Intent intent)
    {
        // Create Intent
        Intent serviceIntent = new Intent(context, YourCoolService.class);
        // Start service
        context.startService(serviceIntent);
    }
}
```

For HTC you maybe need also add in Manifest this code if device don't catch RECEIVE_BOOT_COMPLETED:

```
<action android:name="android.intent.action.QUICKBOOT_POWERON" />
```

Reciever now look like this:

```
<receiver android:name="org.yourapp.OnBoot">
    <intent-filter>
        <action android:name="android.intent.action.BOOT_COMPLETED"/>
        <action android:name="android.intent.action.QUICKBOOT_POWERON" />
        </intent-filter>
    </receiver>
```

How to test BOOT_COMPLETED without restart emulator or real device? It's easy. Try this:

adb -s device-or-emulator-id shell am broadcast -a android.intent.action.BOOT_COMPLETED

How to get device id? Get list of connected devices with id's:

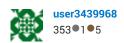
adb devices

adb in ADT by default you can find in:

adt-installation-dir/sdk/platform-tools

Enjoy!)

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Answered Sep 24 at 21:04 I think your manifest needs to add:

8

<uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED" />

share improve this answer



Answered May 6 '10 at 21:14

i forgot to mention i have that - Alex May 6 '10 at 21:18

Move it to receiver tag - look at example i've posted below. - Alex Volovoy May 6 '10 at 21:55

@AlexVolovoy what happened to the example? - naxa Oct 30 '13 at 12:05

add a comment

Refer This Link http://khurramitdeveloper.blogspot.in/2013/06/start-activity-or-service-on-boot.html Step by Step procedure to use boot on Service

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2

Answered Feb 17 at 4:24

I have an additional <category>-tag, don't know if that makes any difference.

Have you tried ommiting the if-clause

"android.intent.action.BOOT_COMPLETED".equals(intent.getAction(), as the receiver probably only receives that intent anyway?

share improve this answer



Answered May 6 '10 at 21:12

tried this and it didn't work btw i forgot to mention i also have the <uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED"/> — Alex May 6 '10 at 21:18

just in case: adding android.intent.category.HOME to any tag in the AndroidManifest will cause the Samsung Galaxy Tab to run the app in compatibility mode, even after using the hack to turn compatibility mode off. not sure if this is the same for other tabs. i recommend not setting the HOME category at all. it's unnecessary. — moonlightcheese Mar 10 '11 at 23:31

add a comment

In fact,I get into this trouble not long ago,and it's really really easy to fix,you actually do nothing wrong if you setup the "android.intent.action.BOOT_COMPLETED" permission and intent-filter.

Be attention that if you On Android 4.X,you have to run the broadcast listener before you start service on boot,that means,you have to add an activity first,once your broadcast receiver running,your app should function as you expected,however,on Android 4.X,I haven't found a way to start the service on boot without any activity,I think google did that for security reasons.

share improve this answer



Answered Aug 20 '13 at 14:35

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