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[How to check if a service is running on Android?](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android)

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| up vote495down vote[favorite](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android)  209 | How do I check if a background service (on Android) is running?  I want an Android activity that toggles the state of the service -- it lets me turn it on if it is off and off if it is on.  [[http://i.stack.imgur.com/tKsDb.png](http://stackoverflow.com/questions/tagged/android)android](http://stackoverflow.com/questions/tagged/android) [android-service](http://stackoverflow.com/questions/tagged/android-service)   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/q/600207)[improve this question](http://stackoverflow.com/posts/600207/edit) | [edited Dec 23 '14 at 4:02](http://stackoverflow.com/posts/600207/revisions)  [Peter Mortensen](http://stackoverflow.com/users/63550/peter-mortensen)  **9,357**116698 | asked Mar 1 '09 at 18:09  [Bee](http://stackoverflow.com/users/58164/bee)  **4,517**62336 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 1 |  | | Check out [this german guide](http://www.androidpit.de/de/android/forum/thread/221112/Wie-Pruefen-ob-ein-Service-bereits-laeuft). – [Markus Peröbner](http://stackoverflow.com/users/404522/markus-per%c3%b6bner) [Aug 1 '10 at 19:15](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment10970186_600207) | | |  |  | | --- | --- | | 3 |  | | the correct answer is below and not the one marked: [stackoverflow.com/a/5921190/2369122](http://stackoverflow.com/a/5921190/2369122) – [toidiu](http://stackoverflow.com/users/2369122/toidiu" \o "543 reputation) [Mar 11 '15 at 19:04](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment46238561_600207) | | |  |  | | --- | --- | |  |  | | @toidiu If that hasn't already been nerfed like getRunningTasks(), it probably will be. – [Kevin Krumwiede](http://stackoverflow.com/users/1953590/kevin-krumwiede)[Oct 23 '15 at 18:41](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment54417399_600207) |   add a comment |

16 Answers

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| up vote154down voteaccepted | I had the same problem not long ago. Since my service was local, I ended up simply using a static field in the service class to toggle state, as described by hackbod [here](http://groups.google.com/group/android-developers/browse_thread/thread/8c4bd731681b8331/bf3ae8ef79cad75d)  **EDIT (for the record):**  Here is the solution proposed by hackbod:  If your client and server code is part of the same .apk and you are binding to the service with a concrete Intent (one that specifies the exact service class), then you can simply have your service set a global variable when it is running that your client can check.  We deliberately don't have an API to check whether a service is running because, nearly without fail, when you want to do something like that you end up with race conditions in your code.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/608600)[improve this answer](http://stackoverflow.com/posts/608600/edit) | [edited Aug 17 '15 at 20:01](http://stackoverflow.com/posts/608600/revisions)  [Haresh Chaudhary](http://stackoverflow.com/users/1155805/haresh-chaudhary)  **2,759**1541 | answered Mar 3 '09 at 22:58  [miracle2k](http://stackoverflow.com/users/15677/miracle2k)  **5,629**84043 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 15 |  | | @Pacerier, the solution you reference requires starting the service and I think the best flexible solution should allow you to check whether a service is running without starting it. – [Tom](http://stackoverflow.com/users/150016/tom) [Apr 4 '12 at 16:23](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12805335_608600) | | |  |  | | --- | --- | | 7 |  | | What about if the service is stopped by the system, how do you detect that and toggle your variable? – [derelict](http://stackoverflow.com/users/1496890/derelict) [May 28 '14 at 12:31](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment36820977_608600) | | |  |  | | --- | --- | | 4 |  | | When the app is killed, the service that it had started is also killed but the service's onDestroy() is not called. So the static variable cannot be updated in such a scenario resulting in inconsistent behaviour. – [faizal](http://stackoverflow.com/users/2105986/faizal" \o "1515 reputation) [Jul 10 '14 at 8:05](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment38249244_608600) | | |  |  | | --- | --- | | 2 |  | | @faizal Ok, would onDestroy() on the service be called in that case? – [PabloC](http://stackoverflow.com/users/133757/pabloc" \o "384 reputation) [Aug 21 '14 at 17:48](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment39677999_608600) | | |  |  | | --- | --- | | 4 |  | | @faizal, local Service is not a separate process, so if service is killed then app also will kill. – [Sever](http://stackoverflow.com/users/1791282/sever) [Sep 15 '14 at 20:31](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment40458121_608600) |   [show **12** more comments](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) |

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| up vote972down vote | | I use the following from inside an activity:  private boolean isMyServiceRunning(Class<?> serviceClass) {  ActivityManager manager = (ActivityManager) getSystemService(Context.ACTIVITY\_SERVICE);  for (RunningServiceInfo service : manager.getRunningServices(Integer.MAX\_VALUE)) {  if (serviceClass.getName().equals(service.service.getClassName())) {  return true;  }  }  return false;  }  And I call it using:  isMyServiceRunning(MyService.class)  This works reliably, because it is based on the information about running services provided by the Android operating system through [ActivityManager#getRunningServices](http://developer.android.com/reference/android/app/ActivityManager.html" \l "getRunningServices%28int%29).  All the approaches using onDestroy or onSometing events or Binders or static variables will not work reliably because as a developer you never know, when Android decides to kill your process or which of the mentioned callbacks are called or not. Please note the "killable" column in the [lifecycle events table](http://developer.android.com/reference/android/app/Activity.html#ActivityLifecycle) in the Android documentation.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/5921190)[improve this answer](http://stackoverflow.com/posts/5921190/edit) | [edited Nov 5 '14 at 18:57](http://stackoverflow.com/posts/5921190/revisions)  [Peter Mortensen](http://stackoverflow.com/users/63550/peter-mortensen)  **9,357**116698 | answered May 7 '11 at 12:54  [geekQ](http://stackoverflow.com/users/111995/geekq)  **14.6k**53239 | |
|  | | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 42 |  | | This answer should be marked as the right answer. Very elegant solution to the problem, and no permission is needed to perform it. – [Kalimah Apps](http://stackoverflow.com/users/529024/kalimah-apps" \o "1434 reputation) [Dec 20 '11 at 10:11](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment10630483_5921190) | | |  |  | | --- | --- | | 71 |  | | Thanks for this solution. I'd like to add: Instead "com.example.MyService" is more elegant to use MyService.class.getName() – [teepee](http://stackoverflow.com/users/690777/teepee) [Feb 6 '12 at 13:31](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment11521236_5921190) | | |  |  | | --- | --- | | 6 |  | | Personally, I went with using a static field. Although using getRunningServices() is a more robust solution, I believe there is in these two solutions a tradeoff between robustness and efficiency/simplicity. If you need to check frequently whether a service is running, looping through potentially 30+ running services is not very ideal. The rare case of a service being destroyed by the system can be handled perhaps by a try/catch block or by using START\_STICKY. – [robguinness](http://stackoverflow.com/users/896660/robguinness" \o "5182 reputation) [Aug 21 '12 at 7:19](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment16089370_5921190) | | |  |  | | --- | --- | | 44 |  | | No it isn't the right answer because it's also written in the docs: "Note: this method is only intended for debugging or implementing service management type user interfaces." It's not meant for control flow! – [seb](http://stackoverflow.com/users/1112707/seb" \o "1853 reputation)[Aug 22 '12 at 19:52](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment16139130_5921190) | | |  |  | | --- | --- | | 17 |  | | People find it elegant to have to go through all that to check if a server is running? – [Rui Marques](http://stackoverflow.com/users/1085483/rui-marques" \o "4256 reputation) [Sep 11 '12 at 13:41](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment16615902_5921190) |   [show **23** more comments](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) |
| up vote38down vote | Got it!  You **MUST** call startService() for your service to be properly registered and passing BIND\_AUTO\_CREATE will not suffice.  Intent bindIntent = new Intent(this,ServiceTask.class);  startService(bindIntent);  bindService(bindIntent,mConnection,0);  And now the ServiceTools class:  public class ServiceTools {  private static String LOG\_TAG = ServiceTools.class.getName();  public static boolean isServiceRunning(String serviceClassName){  final ActivityManager activityManager = (ActivityManager)Application.getContext().getSystemService(Context.ACTIVITY\_SERVICE);  final List<RunningServiceInfo> services = activityManager.getRunningServices(Integer.MAX\_VALUE);  for (RunningServiceInfo runningServiceInfo : services) {  if (runningServiceInfo.service.getClassName().equals(serviceClassName)){  return true;  }  }  return false;  }  }   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/4976378)[improve this answer](http://stackoverflow.com/posts/4976378/edit) | [edited Aug 24 '15 at 6:06](http://stackoverflow.com/posts/4976378/revisions)  [Kenju](http://stackoverflow.com/users/2775013/kenju)  **1,046**11023 | answered Feb 12 '11 at 4:42  [Kevin](http://stackoverflow.com/users/568508/kevin)  **6,712**105282 | | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | This will list just system services, no?! So my local service is excluded from list and I will get false ;( – [Ewoks](http://stackoverflow.com/users/304270/ewoks" \o "7173 reputation) [Nov 22 '13 at 9:14](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30017589_4976378) | | |  |  | | --- | --- | |  |  | | This works with external services, for local services is pretty obvious if you're running. – [Kevin](http://stackoverflow.com/users/568508/kevin) [Nov 24 '13 at 3:39](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30069465_4976378) | | |  |  | | --- | --- | | 5 |  | | Sorry but I need to say that is super silly answer..Why it is super obvious?! – [Ewoks](http://stackoverflow.com/users/304270/ewoks" \o "7173 reputation) [Nov 24 '13 at 17:36](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30081154_4976378) | | |  |  | | --- | --- | |  |  | | For a local service, if you're application is running the service is as well. If it crashes it will take your application along with it. – [Kevin](http://stackoverflow.com/users/568508/kevin) [Nov 24 '13 at 20:58](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30086021_4976378) | | |  |  | | --- | --- | | 6 |  | | Not clear what u mean here... Who was talking about crashing at all?! I am not interesting in crashing it. Service can be started, stopped, maybe it was intent service and it will stop on it's own when it is done... Question is how to know if it is still running or not after 3 min for example. – [Ewoks](http://stackoverflow.com/users/304270/ewoks" \o "7173 reputation) [Nov 25 '13 at 13:28](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30107294_4976378) |   [show **2** more comments](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) | |

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| up vote32down vote | A small complement is:  My goal is to know wether a service is running without actualy running it if it is not running.  Calling bindService or calling an intent that can be caught by the service is not a good idea then as it will start the service if it is not running.  So, as miracle2k suggested, the best is to have a static field in the service class to know whether the service has been started or not.  To make it even cleaner, I suggest to transform the service in a singleton with a very very lazy fetching: that is, there is no instantiation at all of the [singleton](http://en.wikipedia.org/wiki/Singleton_pattern) instance through static methods. The static getInstance method of your service/singleton just returns the instance of the singleton if it has been created. But it doesn't actualy start or instanciate the singleton itself. The service is only started through normal service start methods.  It would then be even cleaner to modify the singleton design pattern to rename the confusing getInstance method into something like the isInstanceCreated() : boolean method.  The code will look like:  public class MyService extends Service  {  private static MyService instance = null;  public static boolean isInstanceCreated() {  return instance != null;  }//met  @Override  public void onCreate()  {  instance = this;  ....  }//met  @Override  public void onDestroy()  {  instance = null;  ...  }//met  }//class  This solution is elegant, but it is only relevant if you have access to the service class and only for classes iside the app/package of the service. If your classes are outside of the service app/package then you could query the ActivityManager with limitations underlined by Pieter-Jan Van Robays.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/6070918)[improve this answer](http://stackoverflow.com/posts/6070918/edit) | [edited Nov 5 '14 at 19:00](http://stackoverflow.com/posts/6070918/revisions)  [Peter Mortensen](http://stackoverflow.com/users/63550/peter-mortensen)  **9,357**116698 | answered May 20 '11 at 10:58  [Snicolas](http://stackoverflow.com/users/693752/snicolas)  **25.3k**861127 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 13 |  | | This is flawed. onDestroy is not guaranteed to be called. – [Pacerier](http://stackoverflow.com/users/632951/pacerier" \o "26388 reputation) [Mar 5 '12 at 3:03](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12120208_6070918) | | |  |  | | --- | --- | | 7 |  | | When the system is low on memory, your service will be killed automatically without a call to your onDestroy, Which is why i say that this is flawed. – [Pacerier](http://stackoverflow.com/users/632951/pacerier" \o "26388 reputation) [Mar 5 '12 at 11:29](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12126591_6070918) | | |  |  | | --- | --- | | 7 |  | | @Pacerier, but if the system kills the process, then the instance flag will still get reset. I'm guessing that when the receiver next gets loaded (post the system killing the service) the static flag 'instance' will get recreated as null. – [Tom](http://stackoverflow.com/users/150016/tom) [Apr 4 '12 at 16:32](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12805597_6070918) | | |  |  | | --- | --- | | 1 |  | | At least better than iterating through all those services in isMyServiceRunning which really delays stuff if done on every device rotation :) – [Gunnar Forsgren - Mobimation](http://stackoverflow.com/users/345759/gunnar-forsgren-mobimation) [Jul 30 '13 at 2:44](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment26210842_6070918) | | |  |  | | --- | --- | | 1 |  | | Your instance variable should not be declared final, otherwise it cannot be set or null'ed by the onCreate() or onDestroy() methods. – [k2col](http://stackoverflow.com/users/1496122/k2col) [Dec 19 '13 at 23:21](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment30992420_6070918) |   [show **3** more comments](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) |
| up vote16down vote | You can use this (I didn't try this yet, but I hope this works):  if(startService(someIntent) != null) {  Toast.makeText(getBaseContext(), "Service is already running", Toast.LENGTH\_SHORT).show();  }  else {  Toast.makeText(getBaseContext(), "There is no service running, starting service..", Toast.LENGTH\_SHORT).show();  }  The startService method returns a ComponentName object if there is an already running service. If not, null will be returned.  See [*public abstract ComponentName startService (Intent service)*](http://developer.android.com/reference/android/content/Context.html#startService%28android.content.Intent%29).  This is not like checking I think, because it's starting the service, so you can add stopService(someIntent); under the code.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/3780768)[improve this answer](http://stackoverflow.com/posts/3780768/edit) | [edited Nov 5 '14 at 18:54](http://stackoverflow.com/posts/3780768/revisions)  [Peter Mortensen](http://stackoverflow.com/users/63550/peter-mortensen)  **9,357**116698 | answered Sep 23 '10 at 17:01  [Keenan Gebze](http://stackoverflow.com/users/448451/keenan-gebze)  **438**1816 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 11 |  | | Not exactly what the docs say. According to your link: "Returns If the service is being started or is already running, the ComponentName of the actual service that was started is returned; else if the service does not exist null is returned." – [Gabriel](http://stackoverflow.com/users/833295/gabriel) [Mar 11 '12 at 21:16](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12266597_3780768) | | |  |  | | --- | --- | | 2 |  | | +1 @Gabriel. That logic is wrong according to what docs say. – [Rui Marques](http://stackoverflow.com/users/1085483/rui-marques" \o "4256 reputation) [Sep 11 '12 at 13:38](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment16615784_3780768) | | |  |  | | --- | --- | |  |  | | Nice thinking ... but doesn't fit in current situation . – [Code\_Life](http://stackoverflow.com/users/1037078/code-life" \o "1581 reputation) [Sep 18 '12 at 9:36](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment16780566_3780768) | | |  |  | | --- | --- | | 5 |  | | its not proper way, because when IDE trigger if(startService(someIntent) != null) that will check that IsserviceRunning but that will also play new service. – [chintan khetiya](http://stackoverflow.com/users/1562548/chintan-khetiya" \o "8289 reputation) [May 2 '13 at 5:55](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment23389549_3780768) | | |  |  | | --- | --- | | 3 |  | | this will start the service, isn't it? Just want to check the status of service instead of starting it... – [Raptor](http://stackoverflow.com/users/188331/raptor" \o "24181 reputation)[Jan 20 '14 at 7:37](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment31974523_3780768) |   [show **2** more comments](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) |

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| up vote4down vote | First of all you musn't try to reach the service by using the ActivityManager. (Discussed [here](http://groups.google.com/group/android-developers/browse_thread/thread/8c4bd731681b8331/bf3ae8ef79cad75d))  Services can run on their own, be bound to an Activity or both. The way to check in an Activity if your Service is running or not is by making an interface (that extends Binder) where you declare methods that both, the Activity and the Service, understand. You can do this by making your own Interface where you declare for example "isServiceRunning()". You can then bind your Activity to your Service, run the method isServiceRunning(), the Service will check for itself if it is running or not and returns a boolean to your Activity.  You can also use this method to stop your Service or interact with it in another way.  I used this [tutorial](http://www.androidcompetencycenter.com/2009/01/basics-of-android-part-iii-android-services) to learn how to Implement this scenario in my application.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/5488042)[improve this answer](http://stackoverflow.com/posts/5488042/edit) | [edited Jun 6 '12 at 17:07](http://stackoverflow.com/posts/5488042/revisions)  [RDC](http://stackoverflow.com/users/1371853/rdc)  **17.7k**156683 | answered Mar 30 '11 at 14:56  [Pieter-Jan Van Robays](http://stackoverflow.com/users/684165/pieter-jan-van-robays)  **107**12 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 2 |  | | That discussion took place on '12/26/07'. Either that's July of this year (i.e. in the future), or that's before Android was even public. Either way that makes me not trust it. – [Tom](http://stackoverflow.com/users/150016/tom) [Apr 4 '12 at 16:27](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment12805465_5488042) | | |  |  | | --- | --- | |  |  | | That discussion is from December 26, 2007. They are discussing a pre-release version I think ([developer.android.com/sdk/OLD\_RELEASENOTES.html#m3-rc37a](http://developer.android.com/sdk/OLD_RELEASENOTES.html#m3-rc37a)) which was released on December 14, 2007. – [ing0](http://stackoverflow.com/users/143979/ing0) [Sep 23 '13 at 15:05](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment28005985_5488042) |   add a comment |
| up vote4down vote | onDestroy isn't always called in the service so this is useless!  For example: Just run the app again with one change from Eclipse. The application is forcefully exited using SIG: 9.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/4976311)[improve this answer](http://stackoverflow.com/posts/4976311/edit) | [edited Jun 2 '14 at 11:06](http://stackoverflow.com/posts/4976311/revisions)  [nhaarman](http://stackoverflow.com/users/675383/nhaarman)  **30.1k**32124173 | answered Feb 12 '11 at 4:26  [Kevin](http://stackoverflow.com/users/568508/kevin)  **6,712**105282 | |
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| up vote3down vote | I just want to add a note to the answer by @Snicolas. The following steps can be used to check stop service with/without calling onDestroy().   1. onDestroy() called: Go to Settings -> Application -> Running Services -> Select and stop your service. 2. onDestroy() not Called: Go to Settings -> Application -> Manage Applications -> Select and "Force Stop" your application in which your service is running. However, as your application is stopped here, so definitely the service instances will also be stopped.   Finally, I would like to mention that the approach mentioned there using a static variable in singleton class is working for me.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/12448802)[improve this answer](http://stackoverflow.com/posts/12448802/edit) | [edited Sep 22 '12 at 0:22](http://stackoverflow.com/posts/12448802/revisions)  [kiamlaluno](http://stackoverflow.com/users/225647/kiamlaluno)  **14.5k**114770 | answered Sep 16 '12 at 16:54  [Paul](http://stackoverflow.com/users/1056265/paul)  **166**15 | |
|  | add a comment |
| up vote3down vote | For the use-case given here we may simply make use of the stopService() method's return value. It returns true if there exists the specified service and it is killed. Else it returns false. So you may restart the service if the result is false else it is assured that the current service has been stopped. :) It would be better if you have a look at [this](http://developer.android.com/reference/android/content/Context.html#stopService%28android.content.Intent%29).   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/16789071)[improve this answer](http://stackoverflow.com/posts/16789071/edit) | answered May 28 '13 at 9:55  [Rahul Raveendran](http://stackoverflow.com/users/1987045/rahul-raveendran)  **73**5 | |
|  | add a comment |

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| up vote3down vote | public boolean check(){  ActivityManager manager = (ActivityManager) getSystemService(ACTIVITY\_SERVICE);  for (RunningServiceInfo service : manager.getRunningServices(Integer.MAX\_VALUE))  {  if ("com.example.yourpackagename.YourserviceName"  .equals(service.service.getClassName()))  {  return true;  }  }  return false;  }   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/24729110)[improve this answer](http://stackoverflow.com/posts/24729110/edit) | answered Jul 14 '14 at 3:23  [JITHINRAJ](http://stackoverflow.com/users/3156682/jithinraj)  **392**29 | |
|  | add a comment |
| up vote2down vote | Again, another alternative that people might find cleaner if they use pending intents (for instance with the AlarmManager:  public static boolean isRunning(Class<? extends Service> serviceClass) {  final Intent intent = new Intent(context, serviceClass);  return (PendingIntent.getService(context, CODE, intent, PendingIntent.FLAG\_NO\_CREATE) != null);  }  Where CODE is a constant that you define privately in your class to identify the pending intents associated to your service.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/25172051)[improve this answer](http://stackoverflow.com/posts/25172051/edit) | answered Aug 6 '14 at 23:41  [Snicolas](http://stackoverflow.com/users/693752/snicolas)  **25.3k**861127 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 1 |  | | Combined or update your previous answer. Please refrain from posting more than one answers per post. – [ChuongPham](http://stackoverflow.com/users/463053/chuongpham" \o "2685 reputation) [Oct 1 '14 at 15:46](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment40983115_25172051) | | |  |  | | --- | --- | | 2 |  | | @ChuongPham these answers are quite different.. – [Snicolas](http://stackoverflow.com/users/693752/snicolas" \o "25332 reputation) [Oct 2 '14 at 16:52](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment41021334_25172051) |   add a comment |

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| up vote2down vote | Take it easy guys... :)  I think the most suitable solution is holding a key-value pair in SharedPreferences about if the service is running or not.  Logic is very straight; at any desired position in your service class; put a boolean value which will act as a flag for you about whether the service is running or not. Then read this value whereever you want in your application.  A sample code which I am using in my app is below:  In my Service class (A service for Audio Stream), I execute the following code when the service is up;  private void updatePlayerStatus(boolean isRadioPlaying)  {  SharedPreferences sharedPref = this.getSharedPreferences(getString(R.string.str\_shared\_file\_name), Context.MODE\_PRIVATE);  SharedPreferences.Editor editor = sharedPref.edit();  editor.putBoolean(getString(R.string.str\_shared\_file\_radio\_status\_key), isRadioPlaying);  editor.commit();  }  Then in any activity of my application, I am checking the status of the service with the help of following code;  private boolean isRadioRunning() {  SharedPreferences sharedPref = this.getSharedPreferences(getString(R.string.str\_shared\_file\_name), Context.MODE\_PRIVATE);  return sharedPref.getBoolean(getString(R.string.str\_shared\_file\_radio\_status\_key), false);  }  No special permissions, no loops... Easy way, clean solution :)  If you need extra information, please refer the [link](http://developer.android.com/training/basics/data-storage/shared-preferences.html)  Hope this helps.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/17435583)[improve this answer](http://stackoverflow.com/posts/17435583/edit) | [edited Aug 4 '15 at 10:21](http://stackoverflow.com/posts/17435583/revisions)  [Jaiprakash Soni](http://stackoverflow.com/users/567776/jaiprakash-soni)  **2,825**31751 | answered Jul 2 '13 at 20:46  [Taner](http://stackoverflow.com/users/2275962/taner)  **3,335**31011 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | | 9 |  | | Only that nobody will update the value for you when they kill the service – [Gunnar Forsgren - Mobimation](http://stackoverflow.com/users/345759/gunnar-forsgren-mobimation) [Jul 30 '13 at 3:00](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment26211029_17435583) | | |  |  | | --- | --- | |  |  | | when kill the service onDestroy() will triggered and that is possible to update its state – [Jongz Puangput](http://stackoverflow.com/users/2077479/jongz-puangput" \o "1104 reputation) [Apr 24 '15 at 4:12](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment47803431_17435583) | | |  |  | | --- | --- | | 2 |  | | @JongzPuangput, onDestroy isn't always called when the service is killed. For example, I've seen my services killed in low memory situations without onDestroy being called. – [Sam](http://stackoverflow.com/users/238753/sam) [May 24 '15 at 4:38](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment48926052_17435583) | | |  |  | | --- | --- | |  |  | | @Sam Then what will get called? – [Ruchir Baronia](http://stackoverflow.com/users/5144855/ruchir-baronia" \o "1932 reputation) [Feb 3 at 3:42](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment58054284_17435583) | | |  |  | | --- | --- | |  |  | | @RuchirBaronia As far as I remember, you simply don't get notified when your stuff is killed. I believe Android is designed to kill apps as needed, and apps should be designed to expect to be killed at any point without notification. – [Sam](http://stackoverflow.com/users/238753/sam) [Feb 3 at 6:34](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment58057863_17435583) |   [show **1** more comment](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android) |
| up vote1down vote | This applies more towards Intent Service debugging since they spawn a thread, but may work for regular services as well. I found this thread thanks to Binging  In my case, I played around with the debugger and found the thread view. It kind of looks like the bullet point icon in MS Word. Anyways, you don't have to be in debugger mode to use it. Click on the process and click on that button. Any Intent Services will show up while they are running, at least on the emulator.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/11802878)[improve this answer](http://stackoverflow.com/posts/11802878/edit) | [edited Aug 3 '12 at 20:38](http://stackoverflow.com/posts/11802878/revisions) | answered Aug 3 '12 at 20:32  [Joe Plante](http://stackoverflow.com/users/1524209/joe-plante)  **3,918**11316 | |
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| up vote1down vote | If the service belongs to another process or APK use the solution based on the ActivityManager.  If you have access to its source, just use the solution based on a static field. But instead using a boolean I would suggest using a Date object. While the service is running, just update its value to 'now' and when it finishes set it to null. From the activity you can check if its null or the date is too old which will mean that it is not running.  You can also send broadcast notification from your service indicating that is running along further info like progress.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/18042311)[improve this answer](http://stackoverflow.com/posts/18042311/edit) | answered Aug 4 '13 at 11:14  [FranMowinckel](http://stackoverflow.com/users/2077216/franmowinckel)  **412**37 | |
|  | add a comment |
| up vote1down vote | There can be several services with the same class name.  I've just created two apps. The package name of the first app is com.example.mock. I created a subpackage called lorem in the app and a service called Mock2Service. So its fully qualified name iscom.example.mock.lorem.Mock2Service.  Then I created the second app and a service called Mock2Service. The package name of the second app is com.example.mock.lorem. The fully qualified name of the service is com.example.mock.lorem.Mock2Service, too.  Here is my logcat output.  03-27 12:02:19.985: D/TAG(32155): Mock-01: com.example.mock.lorem.Mock2Service  03-27 12:02:33.755: D/TAG(32277): Mock-02: com.example.mock.lorem.Mock2Service  A better idea is to compare ComponentName instances because equals() of ComponentNamecompares both package names and class names. And there can't be two apps with the same package name installed on a device.  The equals() method of ComponentName.  @Override  public boolean equals(Object obj) {  try {  if (obj != null) {  ComponentName other = (ComponentName)obj;  // Note: no null checks, because mPackage and mClass can  // never be null.  return mPackage.equals(other.mPackage)  && mClass.equals(other.mClass);  }  } catch (ClassCastException e) {  }  return false;  }  [ComponentName](http://developer.android.com/reference/android/content/ComponentName.html)   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/22681644)[improve this answer](http://stackoverflow.com/posts/22681644/edit) | [edited Mar 27 '14 at 8:35](http://stackoverflow.com/posts/22681644/revisions) | answered Mar 27 '14 at 8:11  [Maksim Dmitriev](http://stackoverflow.com/users/1065835/maksim-dmitriev)  **1,151**52450 | |
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| up vote1down vote | Inside TheServiceClass define:  public static Boolean serviceRunning = false;  Then In onStartCommand(...)  public int onStartCommand(Intent intent, int flags, int startId) {  serviceRunning = true;  ...  }  @Override  public void onDestroy()  {  serviceRunning = false;  }  Then, call if(TheServiceClass.serviceRunning == true) from any class.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/33309220)[improve this answer](http://stackoverflow.com/posts/33309220/edit) | answered Oct 23 '15 at 18:35  [fullMoon](http://stackoverflow.com/users/1143361/fullmoon)  **582**616 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | This doesn't work if you service gets killed by Android. – [Heisenberg](http://stackoverflow.com/users/2051133/heisenberg) [Feb 2 at 10:04](http://stackoverflow.com/questions/600207/how-to-check-if-a-service-is-running-on-android#comment58019303_33309220) |   add a comment |

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