

```
<receiver
    android:name=".WidgetProvider"
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
        <action android:name="android.action.MY_ACTION"/>
    </intent-filter>
    <meta-data
       android:name="android.appwidget.provider"
       android:resource="@xml/widgetprovider"
        />
</receiver>
```

AndroidManifest

```
android:exported="true"
                                            android:launchMode="singleInstance">
                                            <intent-filter>
<receiver
    android:name=".WidgetProvider"
                                                                                     />
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
         <action android:name="android.action.MY_ACTION"/>
                                                                                     UPDATE" />
    </intent-filter>
    <meta-data
        android:name="android.appwidget.provider"
        android:resource="@xml/widgetprovider"
</receiver>
```

</manifest>

<activity

android:name=".MainActivity"

Receiver

```
<receiver
    android:name=".WidgetProvider"
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
        <action android:name="android.action.MY_ACTION"/>
    </intent-filter>
    <meta-data
       android:name="android.appwidget.provider"
        android:resource="@xml/widgetprovider"
</receiver>
```

Receiver

- 특정 이벤트가 발생했을 때 다수의 Application 에게 전달하는 서비스
- Activity 인테트 필터와 비슷하지만 인텐트 필터는 사용자에게 선택을 유도하지만, 이것은 등록이 되어 있다면 모두에게 보낸다

Intent-filter

```
<receiver
    android:name=".WidgetProvider"
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
        <action android:name="android.action.MY_ACTION"/>
    </intent-filter>
    <meta-data
        android:name="android.appwidget.provider"
        android:resource="@xml/widgetprovider"
</receiver>
```

Intent-filter

• 해당 컴포넌트가 동작될 유형을 정의

```
<action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
```

<action android:name="android.action.MY_ACTION"/>

Meta-data

```
<receiver
    android:name=".WidgetProvider"
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
        <action android:name="android.action.MY_ACTION"/>
    </intent-filter>
    <meta-data
        android:name="android.appwidget.provider"
        android:resource="@xml/widgetprovider"
</receiver>
```

WidgetProvider

```
<receiver
    android:name=".WidgetProvider"
    android:exported="true">
    <intent-filter>
        <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
        <action android:name="android.action.MY_ACTION"/>
    </intent-filter>
    <meta-data
        android:name="android.appwidget.provider"
        android:resource="@xml/widgetprovider"
</receiver>
```

WidgetProvider

```
class WidgetProvider : AppWidgetProvider() {
   private val MY_ACTION = "android.action.MY_ACTION"
  private fun setMyAction(context: Context?): PendingIntent {
       val intent = Intent(context, MainActivity::class.java)
       return PendingIntent.getActivity(context, requestCode: 0, intent,PendingIntent.FLAG_IMMUTABLE)
   private fun buildURIIntent(context: Context?): PendingIntent {
       val intent = Intent(Intent.ACTION_VIEW).setData(Uri.parse( uriString: "https://stickode.tistory.com/150"))
       return PendingIntent.getActivity(context, requestCode: 0, intent, PendingIntent.FLAG_IMMUTABLE)
   private fun addViews(context: Context?): RemoteViews {
       val views = RemoteViews(context?.packageName, R.layout.widget)
       views.setOnClickPendingIntent(R.id.btn, setMyAction(context))
       views.setOnClickPendingIntent(R.id.btn2,buildURIIntent(context))
       return views
   override fun onUpdate(context: Context?, appWidgetManager: AppWidgetManager?, appWidgetIds: IntArray?) \P
       super.onUpdate(context, appWidgetManager, appWidgetIds)
       appWidgetIds?.forEach { appWidgetId ->
           val views: RemoteViews = addViews(context)
           appWidgetManager?.updateAppWidget(appWidgetId, views)
```

```
private fun setMyAction(context: Context?): PendingIntent {
   val intent = Intent(context, MainActivity::class.java)
   return PendingIntent.getActivity(context, requestCode: 0, intent,PendingIntent.FLAG_IMMUTABLE)
}
```

```
private fun buildURIIntent(context: Context?): PendingIntent {
    val intent = Intent(Intent.ACTION_VIEW).setData(Uri.parse( uriString: "https://stickode.tistory.com/150"))
    return PendingIntent.getActivity(context, requestCode: 0,intent,PendingIntent.FLAG_IMMUTABLE)
}
```

```
private fun addViews(context: Context?): RemoteViews {
   val views = RemoteViews(context?.packageName, R.layout.widget)
   views.setOnClickPendingIntent(R.id.btn, setMyAction(context))
   views.setOnClickPendingIntent(R.id.btn2,buildURIIntent(context))
   return views
}
```



btn1

btn2

```
<?xml version="1.0" encoding="utf-8"?>
<appwidget-provider
   android:initialKeyguardLayout="@layout/widget"
    android:minHeight="72dp"
   android:minWidth="145dp"
    android:updatePeriodMillis="86400000"
   android:resizeMode="horizontal|vertical"
   xmlns:android="http://schemas.android.com/apk/res/android" />
```

timer (1):(23)

TIMER START TIMER RESET TIMER STOP

#