Android mqtt push notification app

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which we receive push notifications from private string brokerHostName. taken from preferences / a topic about which we want to receive messages / may include wildcards - for example, I coincide with anything private topic stringName - ; by default - this sample uses very basic defaults for its interaction / with the communication of brokers private int brokerPortNumber No 1883; private MqttPersistence and null; Private boolean cleanStart - false; Private quality intOfService No 0; How often does an app have to ping a server to keep the connection alive? Too often - and you spend battery life / too rarely - and you won't notice if you lose the connection / until the next failed ping attempt! / This is a trade-off between how time sensitive data that yours is processing, against the acceptable effect on battery life / It may also be worth keeping in mind the network support for / Ideally, to keep the connection open / You want to use to keep the live value, which is less than the period after which the network operator will kill the idle private keepAlive. This is how the android client app will identify themselves in/post the broker. It should be unique to the broker - two clients are not allowed to connect to the same broker using the same client ID. // VARIABLES - other local variables B / // Connection to the provate IMgttClient mgttClient - zero; The recipient who notifies the Service when the phone is connected to the private NetworkConnectionIntentReceiver netConnReceiver data; The recipient, notifying the Service when changing the data, uses the preferences of the private BackgroundDataChangeIntentReceiver that wakes up the Service when it's time for a private pingSender pingSender; / 'METHODS - basic lifecycle maintenance methods // see @Override public void on Create () - super.on Create (); reset the status of the variable to the original state connection. create a link that will enable the activities of send a team to mBinder Service - the new LocalBinder (it); Get the broker's settings from the app's preferences/ This isn't the only way to do this - for example, you can use the / Intention that launches the Service to convey the configuration values of the zlt; M'TTTService'gt; SharedPreferences (APP ID, MODE PRIVATE); topicName - settings.getString (theme,); sign up to be notified whenever a user changes their preferences / Related to the use of background data - so that we can respect the current / Preference dataEnabledReceiver - new BackgroundDataChangeIntentReceiver (); registerReceiver (dataEnabledReceiver, new IntentFilter (ConnectivityManager,ACTION BACKGROUND DATA SETTING CHANGED)); Identify the connection to the broker to identifyConnection pre-2.0 / At 2.0 or later we override on Start Command (), so this ... method will not be called. new thread (new Runnable() - @Override public int on Start Command (final intention of intent, int flags, final int startId) - new thread (new Runnable () -@Override public invalid launch () START NOT STICKY - handleStart to have it/ to be restarted return START STICKY; - synchronized emptiness handleStart (intention, int startId) !) before we start - check for several reasons why we should stop if (mgttClient) - null) LinkManager see (ConnectivityManager)getSystemService (CONNECTIVITY SERVICE); if (cm.getBackground) / User disabled broadcastServiceStatus (Not connected - background data is disabled); / We have a listener running that will notify us when it is a / Preference change, and will call handleStart again when it is / - allows us to pick up where we leave now to return; Activity User Interface started the MHTT service - it can be a launch / The service is new for the first time, or after the Service has been working for some time (several calls for startService do not start / multiple services, but it calls this method several times) / If we already run, we re-send any stored data rebroadcastStatus (); RebroadreiveMeses If the Service is a service of zlt;/MTTServicealready working and we are already connected - we // do not need to do anything if (isAlreadyConnected () - false) - / establish a status to show that we are trying to connect connectionStatus and M'TTTConnectionStatus. CONNECTING; We create a background service that will work forever until the user explicitly stops it. So - in case they start to need it!) to save battery life - we need to make sure they don't forget ... We run, leaving the current notification in status!) bar until we run NotificationManager nm (NotificationManager) getSystemService (NOTIFICATION SERVICE); Notice of notification - new notice (R.drawable.icon, MTT, System.currentTimeMillis(); notification.flags and Notification.FLAG ONGOING EVENT; notification.FLAG NO CLEAR; Notice of IntentIntent - New Intention (this, M'TTTNotifier.class); PendingIntent contentIntent -PendingIntent.getActivity (it is, 0, noticeIntent, PendingIntent.FLAG UPDATE CURRENT); notification.setLatestEventInfo (this, MHTT, MHTT Service works, contentIntent); nm.notify (MQTT NOTIFICATION ONGOING, notification); Before we try to connect - we check if the phone has a work connection to the data if (isOnline) / We think we have an Internet connection, so try to connect // to the broker's message if (connectToBroker() -/ We subscribe to receive a push // notifications with a certain key // In a real application, you can subscribe to several // topics - I just subscribe to one as an example // Please note that this topic We may include a wildcard, so that // We could receive // Messages on several topics to subscribe to - yet th! we can't do anything now because we don't have a working connection / Connection to the dataStatus No MOTTConnectionStatus.NOTCONNECTED WAITINGFORINTERNET; Tell the app that we are not connected to broadcastServiceStatus (Waiting to connect to the phone's network - such as bouncing between WiFi/ and mobile data networks - can break the MTT connection! So we use / Built-in Android notification system to be aware of / Network changes - so that we can recover immediately, without / haing to wait for a timeout of MZTT, if (netConnReceiver) ConnectivityManager.CONNECTIVITY ACTION - netConnReceiver - the new NetworkConnectionInReceiver (); registerReceiver (netConnReceiver, new IntentFilter)) / creates intentions that are used to wake up the phone when it is / Time for pingSender and null) - pingSender and null an super.onDestroy (); Immediately disableFromBroker tell the app that the app has отключенная трансляцияServiceStatus (Отключен); старайтесь не протекать слушателю, если (dataEnabledReceiver! - null) - незарегистрированныйReceiver (dataEnabledReceiver); dataEnabledReceiver - null; /***********************************/ /* METHODS - broadcasts and notifications */ /**********/ // methods used to notify the Activity UI of something that has happened // so that it can be updated to reflect status and the data received // from the server private void broadcastServiceStatus(String statusDescription) { // inform the app (for times when the Activity UI is running / // active) of the current MOTT connection status so that it // can update the UI accordingly Intent broadcastIntent = new Intent(); broadcastIntent.setAction(MQTT_STATUS_INTENT); broadcastIntent.putExtra(MQTT_STATUS_MSG, statusDescription); sendBroadcast(broadcastIntent); } private void broadcastIntent.setAction(MQTT_STATUS_INTENT); broadcastIntent.putExtra(MQTT_STATUS_MSG, statusDescription); sendBroadcastIntent); } (for times when it is running / active) so that it can be displayed // in the app GUI Intent broadcastIntent = new Intent(); broadcastIntent.setAction(MQTT MSG RECEIVED INTENT); broadcastIntent.putExtra(MQTT MSG RECEIVED TOPIC, тема); broadcastIntent.putExtra (MQTT MSG RECEIVED MSG, сообщение); sendBroadcast (трансляцияИнтент); -/ методы, используемые для уведомления пользователь о том, что произошло в периоды, когда // пользовательский интерфейс активности приложения не работает в частном недействительном уведомленииUser (String alert, String title, String body) - NotificationManager nm (NotificationManager) getSystemService (NOTIFICATION SERVICE); Уведомление - новое уведомление (R.drawable.icon, оповещение, System.currentTimeMillis(); notification.defaults и Notification.DEFAULT LIGHTS; notification.defaults и Notification.DEFAULT SOUND; notification.defaults и Notification.DEFAULT VIBRATE; notification.FLAG AUTO CANCEL; уведомление.ledARGB - Color.MAGENTA; Уведомление о намеренияхIntent - новое намерение (это, M'TTTNotifier.class); PendingIntent contentIntent - PendingIntent.getActivity (это, 0, уведомление); () / МЕТНОDS привязка, которая позволяет получить доступ от Actitivy Попытка сделать локальную привязку при минимизации утечек - код благодаря // Джефф Брукнер - который я нашел на // privateBinder;<MQTTService> @Override </MQTTService>IBinder onBind (Intention) - mBinder return; -LocalBinder Community Class Expands Binder - Private WeakReference Public LocalBinder (S service) - mService - new WeakReference (service); - Public S getService () - return mService.get(); - public emptiness, closed () - mService - null; public methods that can be used by actions that are associated with the Service / public status M'TTTConnectionStatus () - reverse connectionStatus; Switch (connectionStatus - Please wait; A break; Connection case: Status - Connection...; A break; Connected case: Status and Connected; A break; Case NOTCONNECTED UNKNOWNREASON: Unconnected status - waiting for a network connection: A break: Case NOTCONNECTED USERDISCONNECTED USERDISCONNECTE Case NOTCONNECTED WAITINGFORINTERNET: Status and Impossible to Connect; A break; Tell the app that the Service has successfully connected broadcastServiceStatus (status); - disabling the public void () - disabling The Drop-droper (); establish the status of the connectionStatus No. MQTTConnectionStatus.NOTCONNECTED USERDISCONNECT; Tell the app that the app has successfully disabled broadcastServiceStatus (Disconnected); (I) // METHODY - MSTT methods inherited from the MZTT classes, Issues // Callback - a method called when we no longer have a connection to the message broker server/public invalid connectionLost () throws exception // We protect against switching off the phone while we do this // requesting a wake-up lock - enough to keep the processor running until we've finished PowerMana POWER SERVICE ger WakeLock wl and pm.newWakeLock (PowerManager.PARTIAL WAKE LOCK, MHTT); wl.acquire(); Have we lost touch with the data? If (isOnline) - false) - connectionStatus - MQTTConnectionStatus.NOTCONNECTED WAITINGFORINTERNET; Tell the app that we are no longer connected to broadcastServiceStatus (Connection lost - no network connection); tell the user (during the time when the Activity user interface doesn't work) // that we can no longer receive messages, notifyUser (Connection is lost - no network connection, MHTT - Connection is lost - no network. // Wait until the phone gets a network connection again, when we // Network receiver // The most likely reason for this connected and are trying to connect broadcastServiceStatus (The connection is lost - reconnection...); Try to reconnect if (connectToBroker) - subscribe to ToTopic (topicName); We're done -- if the phone's off, it's ok for the CPU/ sleep now wl.release (); In /- callback - called, When we receive a message from the server, the public void publishArrived (theme line, bytes payload, int gos, boolean saved) / We protect from turning off the phone during this / requesting a wake-up lock - we request the minimum possible wake-up / lock - enough to keep the processor running until we have finished powerManager pm POWER SERVICE (PowerManager) getSystem WakeLock (PowerManager.PARTIAL WAKE LOCK, MHTT); wl.acquire(); I guess all the messages I receive are sent as lines // This is not a MHTT thing - just me doing as the assumption that // the data that I will receive - your app should not send/receive // lines - anything that can be sent as bytes is a valid String messageBody - a new line (payloadbytes); During periods when the user interface of an application's action doesn't work, the Service // You will need to safely store the data it receives if (addReceivedMessageToStore (theme, messageBody)) -/ this is a new message - a value that we haven't seen before // Report to the app (for the time when the user interface of the app can be updated with a new data transferReceivedMessage Tell the user (in times when activity's user interface doesn't work) / that new available notifyUser data (New data, theme, messageBody) have appeared; Receiving this message has kept in touch for us, so / we will use this to postpone the next scheduled ping-ping-ping schedule (); We're done -- if the phone's off, it's ok for the CPU/ sleep now wl.release (); } /***********************/ /* METHODS - wrappers for some of the MQTT methods that we use */ /**************/ /* * Create a client connection object that defines our connection to a * message broker server */ private void defineConnectionToBroker(String brokerHostName) { String mqttConnSpec = tcp:// + brokerPortNumber; try { // define the connection to the broker mqttClient = MqttClient.createMqttClient(mqttConnSpec, usePersistence); // register this client app has being able to receive mgttClient.registerSimpleHandler(this); } catch (MgttException e) { // something went wrong! mgttClient = null; connectionStatus.NOTCONNECTED UNKNOWNREASON; // // inform the app that we we Connect so that it can update / user interface. respectively, broadcastServiceStatus (Invalid connection settings); tell the user (in periods when activity user interface doesn't work) / that we haven't been able to connect notifyUser (You can't connect, MOTT, you can't connect); - (Reconnecting to a message broker) - private boolean connectToBroker () - attempt / attempt to connect mgttClient.connect (, cleanStart, keepAliveSeconds); Tell the app that the app processor often enough to / keep the messages you can send live messages / We'll schedule the first one now scheduleNextPing(); connectionStatus.NOTCONNECTED UNKNOWNREASON; Tell the app that we haven't been able to connect so that it can be updated/ user interface, respectively, broadcastServiceStatus (Can't Connect); to inform the user (during the time when the user interface activity does not work) // that we have not been able to connect notifyUser (You can't connect, MHTT, Impossible to connect - will be repeated later); We wait for one period to save a life before / tries again / In real implementation, you probably want to save the account / How many times you try this, and stop trying after a certain number, or the length of time - instead of continuing to try / forever. Failure is often an intermittent network problem, however, so / Some limited attempts is a good idea scheduleNextPing (); Return is false; Request the broker messages to send messages published with the specified name of the topic. Wildcards are allowed. - private void signed ToTopic (StringName) - boolean, signed - false; if (isAlreadyConnected)) / A quick sanity check - don't try to subscribe if we have a Log.e connection (mqtt, can't subscribe as we're not related); - more - try the theme string - ThemeNaim; mqttClient.subscribe Subscription is true; - Catch (MqttNotConnectedException e) - Log.e (mqtt, I can't subscribe - MZTT is not connected, e); - Catch (IllegalArgumentException e) - Log.e (mqtt, subscription failed - illegal argument, e); - Catch (MqttException e) - Log.e (mqtt, subscribtion failed - exception of MZTT, e); Unable to subscribe so that the user interface can / display a bug broadcastServiceStatus (Can't subscribe); notify the user (at the time when activity's user interface is not working) to notify the user (Can't subscribe, MOTT, Fails Issue/private disconnection of the void Drop-droper () // If we were waiting for an Internet, maybe!) cancelled - we don't need to be told when we're connected now try if (netConnReceiver!)- unregisteredreceiver (netConnReceiver); netConnReceiver - zero; - if (pingSender!) - unregisteredReceiver (pingSender - null; - catch (Exception eee) / probably because we didn't register it Log.e (mqtt, unregistered failure, eee); - try if (mqttClient!) - mqttClient.disconnect (); - catch (MqttPersistenceException e) -Log.e (mgtt, disconnection failed - exception to perseverance, e)); - finally, mgttClient - zero; We can now remove the current notification that alerts users that / There is a long-term current service that works with NotificationManager nm (NotificationManager) getSystemService (NOTIFICATION SERVICE); nm.cancelAll (); - Check whether the customer of MZTT believes that he has an active connected ((mqttClient! - null) (mqttClient.isConnected); - Private class BackgroundDataChangeIntentReceiver expands BroadcastReceiver - @Override public void onReceive (Context ctx, Intention intention) / We protect from turning off the phone while we do it / requesting a wake-up lock - we ask for the minimum possible wake call / lock - enough to keep the POWER SERVICE processor in mode until we legislate PowerManager pm WakeLock wl and pm.newWakeLock (PowerManager.PARTIAL WAKE LOCK, MHTT); wl.acquire(); ConnectManager (CONNECTIVITY SERVICE) if (cm.getBackgroundDataSetting()/ User allowed background data - we start again - collection!) where we left off in the handleStart before the definition ConnectionToBroker (brokerHostName); handleStart (intention, 0); - still / The user has disconnected the background data connection Of Status - MQTTConnectionStatus.NOTCONNECTED DATADISABLED; Update the app to show that the connection has been disabled by broadcastServiceStatus (Not Connected - Background Data Is Off); disconnection from the broker disconnectFromBroker (); we're done -- if the phone is off, it's ok for CPU/ sleep now. Called in response to a change in network connection - after losing the connection to the server, it allows us to wait until we will use the @Override connection to the data again Intentions) / We protect against the phone shutdown while we do this / requesting a wake-up lock - we ask for the minimum possible wake-up call! locking - enough to keep the processor running until we have finished PowerMana POWER SERVICE ger WakeLock wl and pm.newWakeLock (PowerManager.PARTIAL WAKE LOCK, MHTT); wl.acquire(); if (isOnline) - we have an internet connection - there is another attempt If (connectToBroker)-/ We subscribe to the topic - registration to receive push // notifications with a certain subscription keyToTopic (topicName); We're done -- if the phone's off, it's ok for the CPU/ sleep now wl.release (); Schedule the next time you want your phone to wake up and ping server broker messages, / private invalid scheduleNextPing () // When the phone is off, the processor can be stopped. This means that our / code can stop working. When you connect to a broker's message we specify to keep alive / period after which if the client is not contacted / server, even if only with ping, the connection is considered to be / broken. To make sure that the processor is woken at least once during each save alive / Period, we will plan to wake up manually ping server / Thus keeping the long-term connection open / Usually when using this library of Java customers MZTT, this ping will be / processed for us. Note that this can be caused several times before the next scheduled / ping shot. This is good - the previously planned will be / cancelled in favor of this. This means that if something else happens during the period to keep alive, / (for example, we get a message from the MOTT), then we start a new save life / period by postponing the next ping. Waiting for pendingintent - PendingIntent.getBroadcast (this, 0, new intention (MOTT_PING_ACTION), PendingIntent, FLAG_UPDATE_CURRENT); in case it takes us a while to do this, we try to do it! wakeUpTime, add SECOND, keepAliveSeconds); AlarmManager aMgr (AlarmManager) getSystemService (ALARM_SERVICE); aMgr, set (AlarmManager.RTC WAKEUP, wakeUpTime.getTimeInMillis (), pendingIntent); Used to implement the keep-alive protocol at this level of the server and then plans another ping after the interval, defined keepAliveSeconds (/public class PingSender expands BroadcastReceiver - @Override public void on Receive (Context Context, Intention) // Please note that we don't need a wake-up lock for this method (although // It is important that the phone does not shut down while we // do so). // According to the documents, alarm manager keeps the alarm order on the processor until the alarm clock is performed. This ensures that the phone won't sleep until you have it / finished processing the broadcast. / It's good enough for our needs. process it there Log.e (mgtt, ping failed - exception of MZTT, e); suppose the customer connection is broken - the garbage he's trying / приложения, которые обрабатывают очень небольшие объемы данных - например, обновления и // уведомления, которые не должны сохраняться, если приложение / телефон // перезапущено и // уведомления, которые не должны сохраняться / может оказаться приемлемым хранить эти данные в переменной в Службе // Это то, что я делаю в этом примере: хранить их в локальном хэшбле // если вы обрабатываете большие объемы данных, и/или нужно, чтобы данные // сохранялись, даже если приложение и/или телефон перезапущены, то //

Use the Service Finally, some comments on how to use this example of service from your Activities. First of all, you have to make sure that you have the necessary permissions to install: zlt;uses-permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.android.permission.permission.perm

Similarly, for disconnection and stopping: Intention svc and new intentions (this, MHTTService.class); stopService (svc); You probably also want to clear notifications created by the Service: @Override public void onWindowFocusChanged (boolean hasFocus) - super.onWindowFocusChanged (hasFocus); If NotificationManager mNotificationManager (NoticeManager) getSystemService (NOTIFICATION UPDATE); Finally, you may want to call the Service directly from your activities. Most of them are private, but you can put

some social methods out there. For example, I mentioned earlier in Keeping Your Data Safe that when he started an action, he might want to get all the data he received while you were working. I have added support to the Service for such calls through a local link that can be used as: bindService (new intention (it, M'TTService.class), new ServiceConnection () - @SuppressWarnings (uncontrolled) @Override public void onServiceConnected (ComponentName className, Final IBinder Service) - M'TTTService mqttService ((((LocalBinder)lt;M'TTService))service).getService).getService (); mqttService.rebroadcastReceivedMessages (); unbindService (it); - @Override public void onDisServiceconnected (Name ComponentName) But what about ... (insert an alternative push framework here - for example, Google Push Notification Service)? I think this post has been around for quite some time, right? ① I've written before about why you can make a PUSH at all. And in this post, I'm focused on those who have decided that they want to use MOTT on Android, and wants some advice on how. I'll leave the debate on how the MOTT compares to the alternative framework another time. I hope this is useful for people - please let me know in the comments if you use it, or spot something that it could do better. Updated code to correct the error specified by Ngewi Fet in the comments. Tags: android, Java, mqtt, push, push-notice, It;/M'TTTService

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