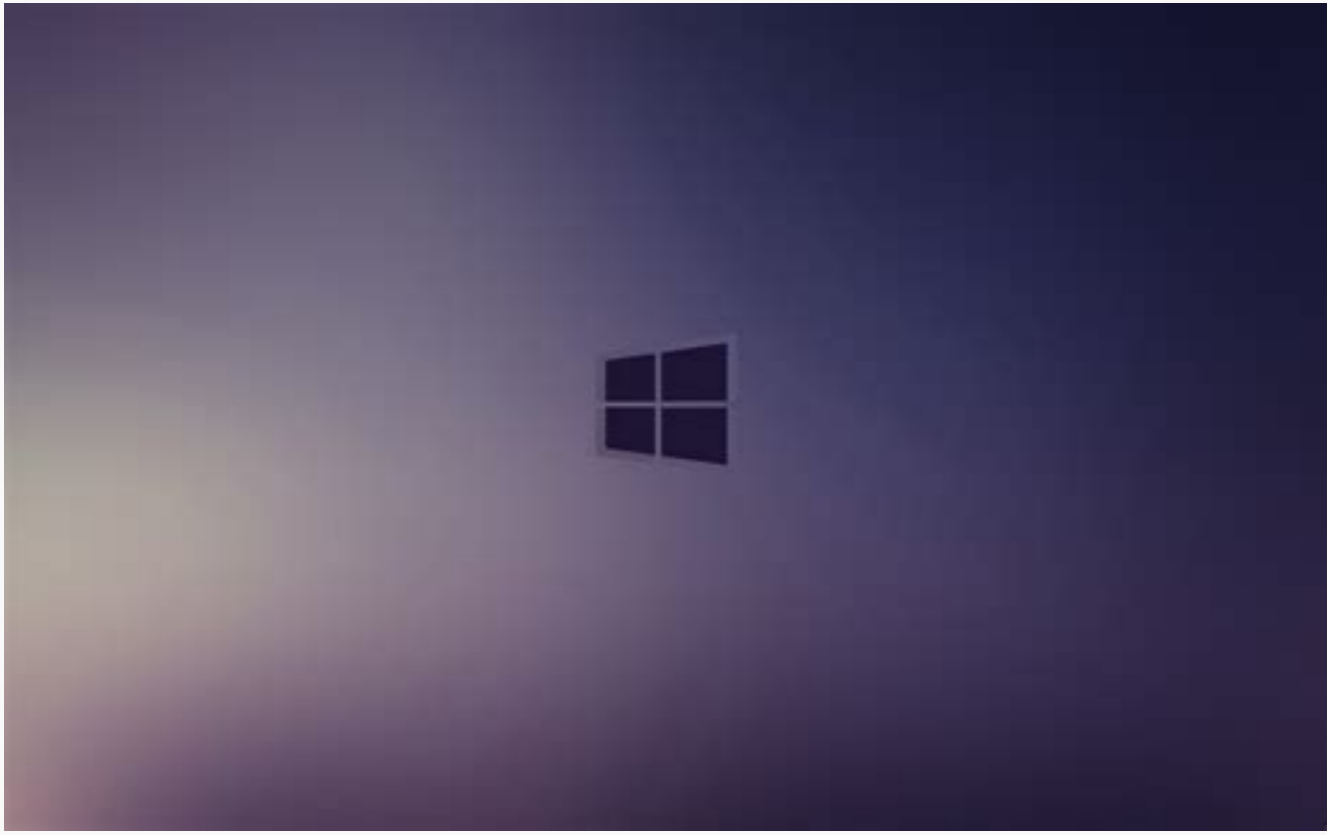


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Hi, I am using react-native-webrtc plugin to make a conference app and it works pretty good in foreground (when the app is active) but in background after a while when there is a connection problem which app state fails or disconnects there has to be a reconnect attempt which done by web sockets (socket.io) clients but when app goes background web socket connection is killed and disconnected so because of that participants cant reconnect to each other while app running in background. I have followed the suggestion of @saghal using foreground service in here but this only helps to keep webrtc connection awake longer than 30 mins but if there is a connection problem occurs there is no way to connect users back, user has to activate application back to connect back and same loop starts if he goes background web socket connection will die again. How can I keep websocket connection alive when app goes background ? thanks 2 Likes It's possible socket.ios is using timers to send keepalive messages, setTimeout doesn't work in the background by default, but you can use to monkey-patch setTimeout / setInterval and that should work. But even if I patch the set timeout or set interval functions , if app is killing the connection new connection try is gonna be killed too isn't it. How you guys handle reconnection in meet jitsi ! Connections shouldn't be killed if you enable voip and audio background modes. They may get killed but you should be able to recreate them. We use XMPP BOSH, which is not long-lived, they are small requests, basically long polling. I have tried reconnecting using background-timer but connection gets killed again after some seconds. I guess I have to run web socket connection as a foreground service some how. Any idea ? I think XMPP works because its not a keep alive web socket type connection its a new request every time. I tried only polling as transport type in socket io but it didn't work also user is not responding to reconnect requests listeners doesn't work I have patched the ping functions of socket.io it keeps the connection alive but it doesn't respond to events. Seems like listeners doesn't work I have followed the same suggestions here. In my case, the socket.io connection is fine, but the webrtc ice connection gets disconnected. Specifically, the iceconnectionstate change event is fire and goes from connected -> disconnected with 30s. This is while a foreground service is running. Any thoughts on why this would be the case? No worries, will keep digging. I noticed the jitsi app successfully keeps its connection alive using the same mechanism. Will keep investigating why the behavior differs and share any findings How do you use socket io and when do you start foreground service right away after launching the application or when there is a webrtc connection. I start when user joins a conference. without patching the socket io ping functions socket disconnects in my app. Does it keep connection alive without starting a foreground service too ? I have tried my app in two device one has android 6 and one has android 9 and both kept webrtc connection alive for long time with foreground service. Did you try your app in a real device ? I have been testing on the emulator, since I've notice other apps are able to keep their connections alive (ex: Discord). Trying on a device may be worthwhile, but mine running Android 8, so wasn't sure if I should trust the behavior (vs Android 10/9 in the emulators). I start the foreground service when the app enters the background. Perhaps, I should start it right away. Did that make a difference for you? As for socket.io, I use it to get live content updates. I am able to keep that connection alive using a background-timer that periodically hits an endpoint on the same server the socket is connected Well I just tried running foreground service when user joins a conversation which is a call. And I realized my problem was using async await in socket io listener when app goes background await keyword stops the execution of after it comes so my signalling function wasn't get called. Interesting... I'll see if that's relevant in my case. Would you mind sharing the snippet your foreground service code for android? Curious to see if there's any differences there I have just used the way its described in github repo; if (Platform.Version >= 26) { const channelConfig = { id: 'notification\_channel', name: 'VoIP', description: 'VoIP', enableVibration: false }; VIForegroundService.createNotificationChannel(channelConfig); } const notificationConfig = { id: '3456', title: 'App is running', text: 'The app is using VoIP features', icon: 'ic\_icon' }; if (Platform.Version >= 26) { notificationConfig.channelId = 'notification\_channel' }; try { await VIForegroundService.startService(notificationConfig); } catch (e) { console.error(e); } Hi, i am using foreground service. But it is still disconnecting. What does patching of socket io mean? Its means changing the setTimeout,clearTimeout,setInterval etc functions of socket io with BackgroundTimer.setTimeout from react-native-background-timer module If you upgrade to socketio v3, this should fix the timeout disconnection issues. In v3, the interval timers have been moved from the client side to the server, so they are much more reliable. Patching the client shouldn't be necessary anymore. I'm not sure if this solution works with Janus. I'm using MediaSoup and socketio v3 + foreground service works great on Android. I Like I managed to sustain the connection when app goes to background. I am not using socket.io but using firebase for real time data and as a signaling server. Its easy, free and most importantly, it works! How did you end up doing that @smash-96 ? next page - I'm new to Android development and I wanted my app to be able to detect socket events even when app is not active via Background service (so I can do push notification e.g if there's a new message triggered by a socket event like how Whatsapp and others do it). I implemented Background service and an application class that starts the service but stuck where and how to put the socket events as Runnable task in my Background service. I modified the socket.io android chat project example below and added service and application class. ChatApplication.java package com.github.nkzawa.socketio.androidchat; import android.app.Application; import android.content.Intent; import android.content.res.Configuration; import io.socket.client.IO; import io.socket.client.Socket; import java.net.URISyntaxException; public class ChatApplication extends Application { @Override // called when the application is starting, before any other application objects have been created public void onCreate() { super.onCreate(); // represents our background service Intent background = new Intent(this, SocketBackgroundService.class); startService(background); } private Socket mSocket; { try { mSocket = IO.socket(Constants.CHAT\_SERVER\_URL); } catch (URISyntaxException e) { throw new RuntimeException(e); } } public Socket getSocket() { return mSocket; } } SocketBackgroundService.java package com.github.nkzawa.socketio.androidchat; import android.app.Service; import android.content.Intent; import android.os.IBinder; import android.util.Log; public class SocketBackgroundService extends Service { private boolean isRunning; private Thread backgroundThread; @Override public IBinder onBind(Intent intent) { return null; } @Override public void onCreate() { this.isRunning = false; this.backgroundThread = new Thread(myTask); } private Runnable myTask = new Runnable() { @Override public void run() { // do something in here Log.i("INFO", "SOCKET BACKGROUND SERVICE IS RUNNING"); //TODO - how to handle socket events here? //How do I do something like mSocket.on(Socket.EVENT\_CONNECT,onConnect); here? } }; @Override public void onDestroy() { this.isRunning = false; } @Override public int onStartCommand(Intent intent, int flags, int startId) { if (!this.isRunning) { this.isRunning = true; this.backgroundThread.start(); } return START\_STICKY; } } Hey, we are using React-Native-SDK in our app. While the app goes to the background we got the below error and real-time stopped working but specifically in Android. [FROM SERVER] - [event: error] - arguments: {"type":"TransportError","description":{"isTrusted":false,"message":"Code 1005 is reserved and may not be used."}} Any idea about the error please and If the web socket is not stable then how can we fix the issue? Hello @Baljeet Singh, I've created an internal ticket BKNLSS-25552 to investigate this issue. Maybe this topic could be useful? Regards, Olha @olhadanylova But how it will work with react native, do I need to install the socket.io-client to check the status of the connection ? Hello @Neeraj Kumar, Socket-IO is already integrated the RN library. You can check the connectivity using these listeners. Regards, Olha @olhadanylova But this transport error is not calling any of the defined listeners, that is the major concern here Following I have observed till now Connect event - Calling the connect listener Disconnect event - Calling the disconnect listener @olhadanylova is there any way we can get this error in the listeners events ? Hello @Neeraj Kumar, we need more time to investigate the issue, I will increase priority for BKNLSS-25552 ticket Looking forward to the solution @sergey.kuk @sergey.kuk any update on this ? @olhadanylova Can we make a connection to socket explicitly ? You can see how it is done in our sdk which is open source. If you try connecting directly, we would not be able to provide support and answer questions about that integration @mark-pillar I have been waiting for the fix where as soon as the application comes to background, I got the above reported transport error, If possible can you let me know how I can bypass this error so that listeners should work fine I was answering to the immediate question you posted (connecting directly) @mark-pillar I am trying to find a workaround because our real time update stopped working as soon as application goes to background. Is there any way I can change the transport to WEBSOCKET, I have seen on many places, we will get the transport error only when the transport is set to POLLING. Hello @Neeraj Kumar Are you sure that WEBSOCKET should work when app goes to background, as far as I know some OS blocks any API when an app is not active? Could you please add listeners for the following events: Backendless.RT.addConnectEventListener(callback: () => void): void; Backendless.RT.addConnectErrorEventListener(callback: (error: string) => void): void; Backendless.RT.addDisconnectEventListener(callback: () => void): void; Backendless.RT.addReconnectAttemptEventListener(callback: (attempt: number, timeout: number) => void): void; Yeah I have added those listeners, but that transport error is not getting logged in any of that event. Let's assume, websocket does not work in the background, how we can perform the updates in the background If something has been updated, any thoughts on this ? If the user cannot see the interface, what is the point of updating something? @mark-pillar Imagine, there are 100 things in an app, and whenever user will open the app which was in background, is it okay to fetch the data for those 100 things or, we should update the app when the app is in the background ?

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