1. <https://firebase.googleblog.com/2017/11/whats-new-with-fcm-customizing-messages.html>
2. FCM   Server   Portocols
   1. HTTP   v1   APP
   2. HTTP(舊版，改用v1)
   3. XMPP
3. 授權發送請求
   1. HTTP請求標頭：
      1. Authorization: Bearer <access\_token>
4. 建立發送請求
   1. 應用伺服器 =>   Firebase
   2. POST https://fcm.googleapis.com/v1/projects/myproject-xxx/messages:send HTTP/1.1
   3. 請求標頭必須包含以下內容：
      1. Content-type: application/json
      2. Authorization: Bearer <valid Oauth 2.0 token for the service account of the Firebase project>
   4. request

  "message":{

    "token" : "bk3RNwTe3H0:CI2k\_HHwgIpoDKCIZvvDMExUdFQ3P1...",

    "notification" : {

      "body" : "This is an FCM notification message!",

      "title" : "FCM Message",

  }

 }

* 1. HTTP response

{    "name": "projects/myproject-b5ae1/messages/0:1500415314455276%31bd1c9631bd1c96"}

* 1. Topic發送格式略有不同
  2. 特定Device只能用舊的協定
  3. 設備組HTTP POST請求

<https://fcm.googleapis.com/fcm/send>

Content-Type:application/json

Authorization:key=AIzaSyZ-1u...0GBYzPu7Udno5aA

{

"to": "aUniqueKey",

"data": {

"hello": "This is a Firebase Cloud Messaging Device Group Message!",

}

}

* 1. 設備組HTTP響應

{

 "success": 2,

"failure": 0

}

1. 接收client   APP   to    FCM   server

<message id="">

  <gcm xmlns="google:mobile:data">

  {

      "category":"com.example.yourapp", // to know which app sent it

      "data":

      {

           "hello":"world",

      },

      "message\_id":"m-123",

      "from":"REGID"

  }

  </gcm>

</message>