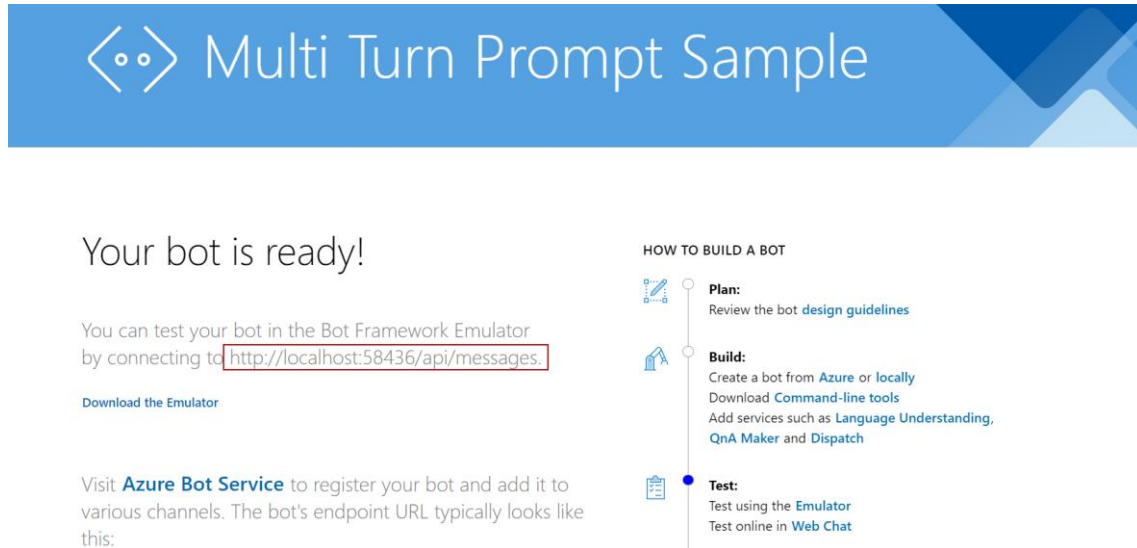
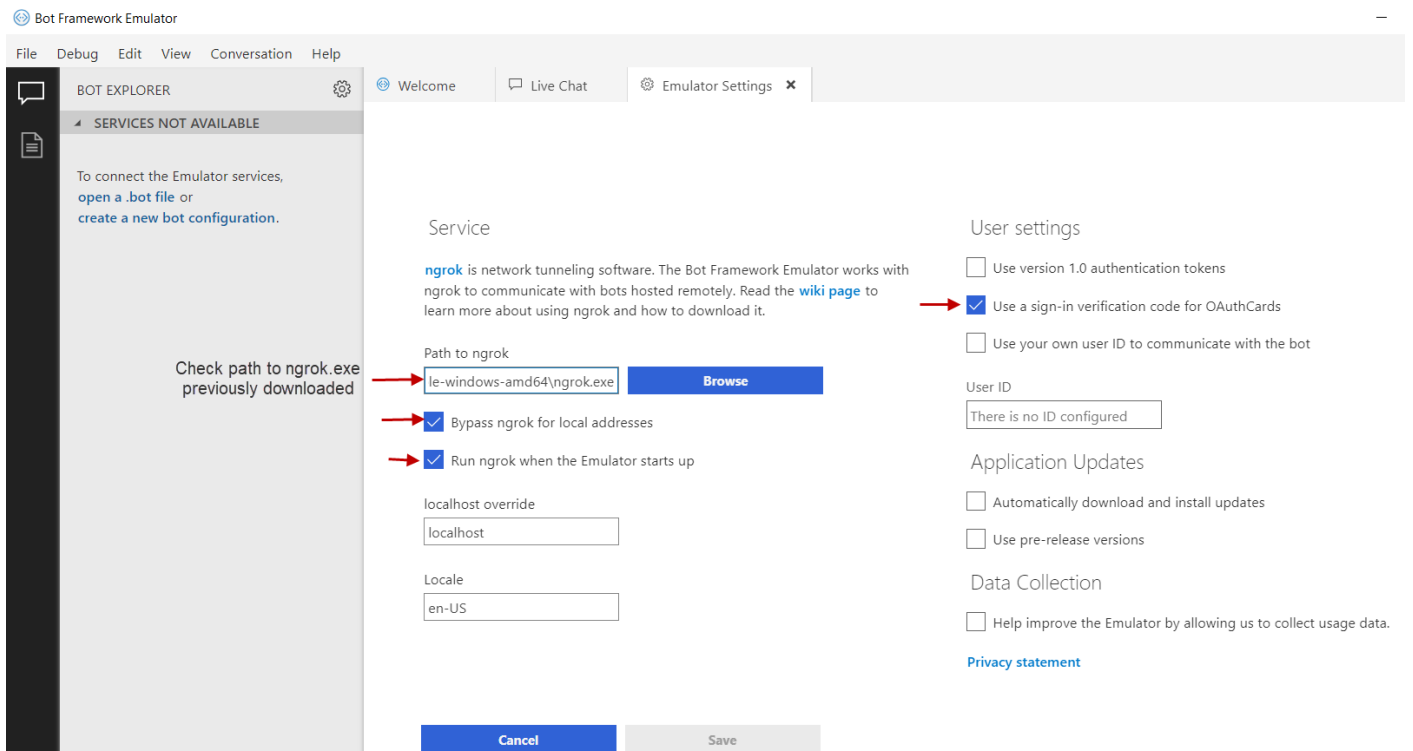


# Test your bot locally.

**Step 1.** Download or clone this repository, open this project with Visual Studio. Once, build solution and start debugging. New window (as below one) should be opened in your browser.



**Step 2:** Open Bot Framework Emulator and configure it. Find in next image how they should be marked. Before this step you should download ngrok (<https://ngrok.com/download>). Click on save.



**Step3:** Open your bot. Copy URL from the window of step 1, <https://localhostXXXX/api/message> and click on “Connect”.

## Bot Framework Emulator

Version 4

Start by testing your bot. Start talking to your bot. [More about working with bots](#)

**Open a bot**

Bot URL:  [Browse](#)

Microsoft App ID:  Microsoft App password:

☐ Open in debug mode

☐ Azure for US Government [Learn more.](#)

[Cancel](#) [Connect](#)

My Bots: Vuelo C:\Users\paula\Documents\BotFrameworkEmulator\Bots\...

[Sign in with your Azure account.](#)

**How to build a bot**

- Plan:** Review the bot [design guidelines](#) for best practices
- Build:** [Download Command Line tools](#)  
Create a bot [from Azure](#) or [locally](#)  
Add services such as [Language Understanding \(LUIS\)](#), [QnAMaker](#) and [Dispatch](#)
- Test:** Test with the [Emulator](#)  
Test online in [Web Chat](#)
- Publish:** Publish directly to Azure or Use [Continuous Deployment](#)
- Connect:** Connect to [channels](#)
- Evaluate:** [View analytics](#)

Once connection has been established, the message “POST 200 directline.conversationUpdate” should be showed. This message indicates that there is an activity in the conversation, then you can start to send messages.

Welcome | Live Chat x

[Restart conversation](#) | [Save transcript](#)

http://localhost:58436/api/messages

Click on a log item in the panel below to inspect activity.

You can also inspect the JSON responses from your LUIS and QnA Maker services by selecting a “trace” activity. [Learn More.](#)

hi 17 minutes ago

Please dime el nombre de la tabla. 17 minutes ago

Tabla1 Just now

Please enter your name. Just now

Laura Just now

Thanks Laura. Just now

Would you like to give your age? Just now

Yes No

Type your message

```
[09:53:36] Emulator listening on http://[::]:58904
[09:53:36] ngrok listening on https://436012c6.ngrok.io
[09:53:36] ngrok traffic inspector: http://127.0.0.1:4040
[09:53:36] Will bypass ngrok for local addresses
[09:53:36] POST 200 directline.conversationUpdate
[09:53:36] POST 200 directline.conversations
[09:53:39] -> message hi
[09:53:40] <- message Please dime el nombre de la tabla.
[09:53:40] POST 200
  conversations.:conversationId.activities.:activityId
[09:53:40] POST 200
  directline.conversations.:conversationId.activities
[10:10:36] -> message Tabla1
[10:10:37] <- message Please enter your name.
[10:10:37] POST 200
  conversations.:conversationId.activities.:activityId
[10:10:37] POST 200
  directline.conversations.:conversationId.activities
```

# Frequently errors:

## Failed to spawn:

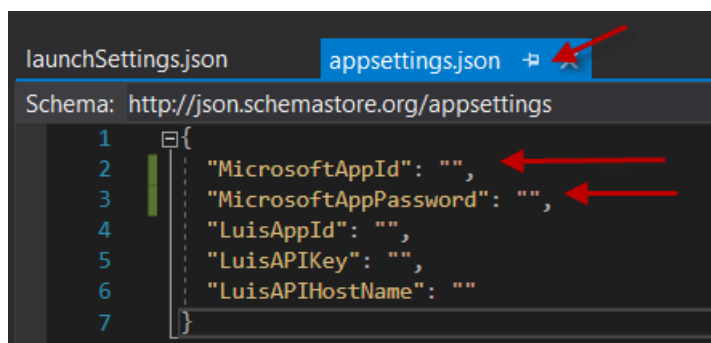
```
[10:28:49] Emulator listening on http://[::]:62100
[10:29:13] Failed to spawn
ngrok {"error_code":104,"status_code":503,"msg":"ngrok is not yet
ready to start tunnels","details":{"err":"a successful ngrok tunnel
session has not yet been established"}}
[10:29:13] POST 200 directline.conversationUpdate
[10:29:13] POST 200 directline.conversations
```

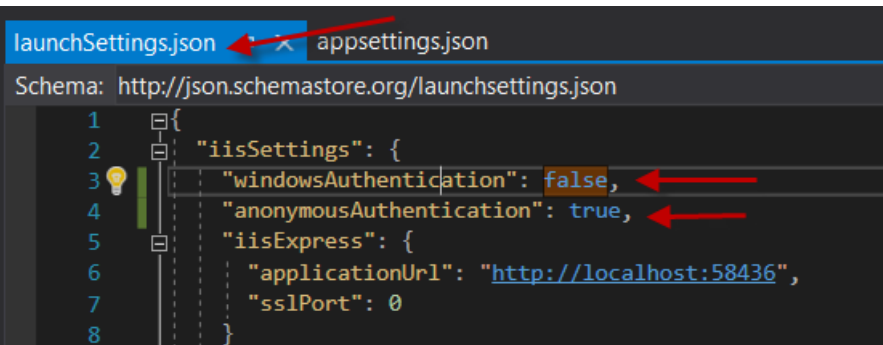
In our case it is not an actual problem, you can see below error message “POST 200 directline.conversationUpdate”. We are testing our bot locally. When you deploy your bot as Azure resource for example, you should create a new tunnel to your localhost to access it throw remote.

## 401. Cannot post activity. Unauthorized

```
[09:39:37] Emulator listening on http://[::]:57993
[09:39:37] ngrok listening on https://72d72312.ngrok.io
[09:39:37] ngrok traffic inspector: http://127.0.0.1:4040
[09:39:37] Will bypass ngrok for local addresses
[09:39:40]
[09:39:40] POST 401 directline.conversationUpdate
[09:39:40] POST 200 directline.conversations
[09:39:43] -> message hi
[09:39:45] Cannot post activity. Unauthorized.
[09:39:45] POST 401
directline.conversations.conversationId.activities
```

Solution: You should check launchsettings.json and appsettings.json files. Should be agreement between them. If there is no any Microsoft App Id and Password, Windows Authentication should be disabled and Anonymous Authentication available.





The image shows a code editor window with two tabs: `launchSettings.json` (active) and `appsettings.json`. A red arrow points from the `appsettings.json` tab to the `launchSettings.json` tab. Below the tabs, the schema is listed as `http://json.schemastore.org/launchsettings.json`. The JSON content is as follows:

```
1 {  
2   "iisSettings": {  
3     "windowsAuthentication": false,  
4     "anonymousAuthentication": true,  
5     "iisExpress": {  
6       "applicationUrl": "http://localhost:58436",  
7       "sslPort": 0  
8     }  
  }
```

Annotations include a yellow lightbulb icon on line 3, a green vertical bar on line 4, and red arrows pointing to the `false` value on line 3 and the `true` value on line 4.