

# Bot Framework with Azure

Bot Framework는 Azure 환경에서 어떻게 실행되는가

---

Microsoft Student Partners



+ New

Dashboard

Resource groups

All resources

Recent

App Services

Virtual machines (classic)

Virtual machines

Cloud services (classic)

Subscriptions

Notification Hubs

Marketplace

SQL servers

SQL databases

Redis Caches

Azure Cosmos DB

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New



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Enterprise Integration

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Developer tools

Monitoring + Management

Add-ons

Containers

Blockchain



HDInsight

Details



Machine Learning Web Service

Details



Stream Analytics job

Details



Analysis Services

Details



Bot Service (preview)

Details



Data Lake Analytics

Details



Time Series Insights (preview)

Details



Data Lake Store

Details



Data Factory

Bot Service (preview)

Create



\* App name

hello-babot



.azurewebsites.net

\* Subscription

Azure Pass



\* Resource Group ⓘ

☒ Create new ☐ Use existing

hello-babot



\* Hosting Plan ⓘ

App Service Plan



\* App Service plan/Location

ServicePlan466fb2b-a6eb(South... >





☐ Pin to dashboard

Create


Automation options



# 서비스 생성

×2>\_

junghong456@gmail....  
기본 디렉터리



Deployment in progress...10:32 PM×



# 서비스 생성

Microsoft Azure

App Services

☰

+ New

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App Services

기본 디렉터리

+ Add

☰ Columns

🔄 Refresh

Subscriptions: All 2 selected

Filter by name...

3 items

NAME

↑↓

hello-babot

hello-lokibot

hello-lokibot-js



hello-babot

Bot Service

## Create a Microsoft App ID

In order to authenticate your bot with the Bot Framework, you'll need to register your application and generate an App ID and password.

1. Register your bot with Microsoft to generate a new App ID and password

**Create Microsoft App ID and password**

2. \* Paste your App ID and password below to continue

Paste password from the Microsoft App registration portal



## 앱 ID 및 암호 생성

앱 이름

hello-babot

앱 ID

4fba78e8-29b3-4b14-887b-c73ef9c6874d

계속하려면 앱 암호 생성



# 앱 설정



Application Registration Portal

Tools

Docs

Feedback

jung



## 앱 ID 및 암호 생성

앱 이름

hello-babot

앱 ID

981bc61b-8509-4d3a-84c6-ecc2fb80c3eb

암호 자세히

JEk\*\*\*\*\*

삭제

완료하고 Bot Framework로 돌아가기

### 새 암호 생성됨

지금 이 암호를 복사하세요. 이 암호는 지금 한 번만 표시됩니다. 이 암호를 안전하게 보관하고 봇 구성 파일에 붙여넣으세요.

JEk0eqYBejT9ZFrVLdP9qWZ

확인



## 앱 ID 및 암호 생성

앱 이름

hello-babot

앱 ID

981bc61b-8509-4d3a-84c6-ecc2fb80c3eb

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- More services >

hello-babot  
Bot Service

## Choose a language

We'll be creating some files to start with so we need to know what language you'll be developing your bot in. We currently support Node and C# but are working to add more languages soon.

C#

NodeJS

## Choose a template

## Basic

A bot with a single dialog that echoes back the user input.

## Form

A bot that shows how to collect input from a user using a sequence of steps using waterfalls.

## Language understanding

A bot that shows how to handle natural language using the Cognitive Services LUIS API.

## Question and Answer

A bot that distills information into conversational, easy-to-navigate answers.

## Proactive

A bot that shows how to use Azure Functions to trigger events in Azure bots.

hello-babot  
Bot Service

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☒ I agree to the [Terms of Use](#), [Privacy Statement](#), and [Code of Conduct](#) for the Microsoft Bot Framework (Preview).

Create bot

hello-babot  
Bot Service

BUILD

CHANNELS

ANALYTICS

SETTINGS

→ Test

## Choose how to work with your code

### Online code editor

Make quick changes to your bot code and see changes instantly. ?

[Open online code editor](#)

### Download source code

Download your source code and develop locally using your favorite IDE. You can publish your code back to the bot when ready. ?

[Download zip file](#)

### Continuous deployment from source control

Enable continuous deployment with your favorite source control provider. ?

Select a source control provider

Test


 Start over

hi

You

You said: hi

hello-babot at 10:41:55 PM

 |Type your message...



# Bot 수정

App Service Editor | hello-babot

juhong jung | ⚙️ ? 😊

EXPLORE

WORKING FILES

readme.md

WWWROOT

node\_modules

PostDeployScripts

.gitignore

app.js

iisnode.yml

package.json

readme.md

web.config

readme.md

1 ## Use Azure app service editor

2

3 1. make code change in the online editor

4

5 Your code changes go live as the code changes are saved.

6

7 ## Use Visual Studio Code

8

9 ### Build and debug

10 1. download source code zip and extract source in local folder

11 2. open the source folder in Visual Studio Code

12 3. make code changes

13 4. download and run [botframework-emulator](https://emulator.botframework.com/)

14 5. connect the emulator to http://localhost:3987

15

16 ### Publish back

17 ```

18 ```

19 npm run azure-publish

20 ```

21

22 ## Use continuous integration

23

24 If you have setup continuous integration, then your bot will automatically deployed when new changes are pushed to the source repository.

25

26

27

28



# Bot 수정

App Service Editor | hello-babot ▾



EXPLORE

▸ WORKING FILES

readme.md

app.js

▸ WWWROOT

▸ node\_modules

▸ PostDeployScripts

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iisnode.yml

package.json

readme.md

web.config



app.js

30

31 // Create your bot with a function to receive messages from the user

32 var bot = new builder.UniversalBot(connector, function (session) {

33 session.send("You just said: %s", session.message.text);

34 });

35



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Test

Start over

hi

You

You said: hi

hello-babot at 10:41:55 PM

you know nothing

You

You just said: you know nothing

hello-babot at 10:48:16 PM

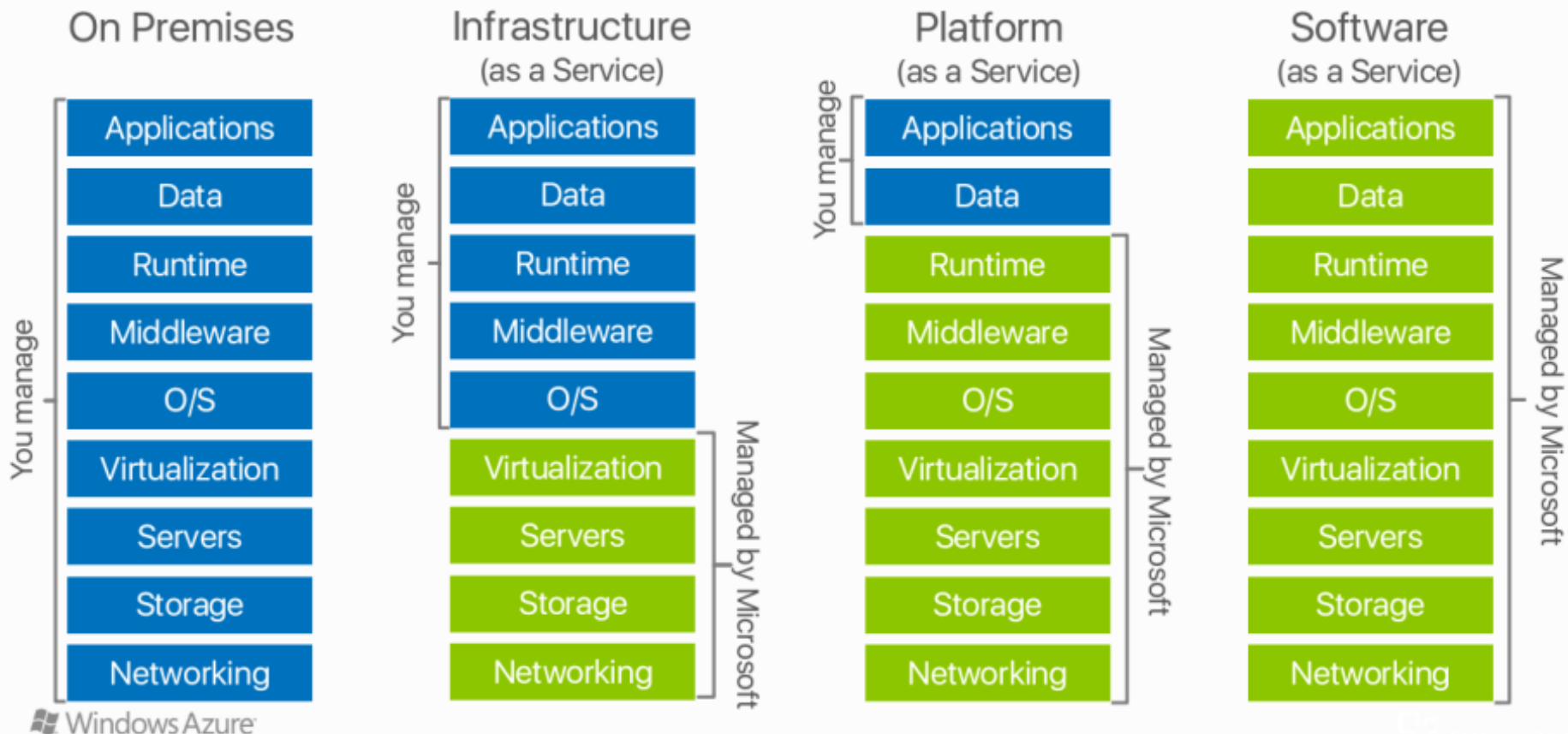


Type your message...





## Cloud Models





## 더 알아보기

App Service는 Platform as a Service 모델에 해당

실제 물리 서버와 인프라, 런타임까지는 Azure에 의해 관리되고,  
사용자는 **작동할 애플리케이션**에 대해서만 관리하면 됨





# 더 알아보기

## **Virtual Machine에서 Bot Framework를 동작시키길 원한다면**

1. Virtual Machine 생성하고
2. 네트워크 설정하고
3. 웹 서버 설치 및 설정하고
4. 애플리케이션 서버 설치 및 설정하고
5. 코딩하고
6. 배포



# 더 알아보기

## Bot Service로 생성하면

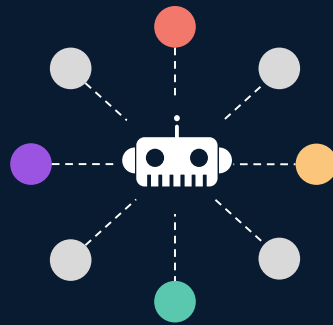
1. ~~Virtual Machine 생성하고~~
2. ~~네트워크 설정하고~~
3. ~~웹 서버 설치 및 설정하고~~
4. ~~애플리케이션 서버 설치 및 설정하고~~
5. 코딩하고
6. 배포



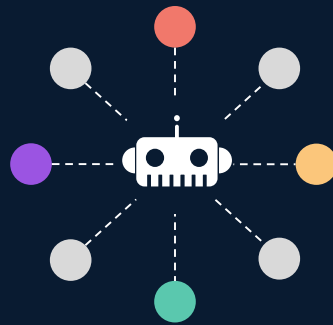
## 더 알아보기

Bot Service로 만들면 환경 설정을 자동으로 해주는 것일 뿐,  
**실제로는 Bot Framework를 서버에서 실행하는 것과 다르지 않다.**

그러나 Bot Service로 만들지 않으면 **각 채널을 연동하는 작업도 직접 다 해줘야 한다.**



Q & A



THANK YOU