# How to create a Bot using Watson Services?

**Prerequisite Software to be installed**

1.Node.js runtime and npm package manager

2. Create a bluemix account.

3. To install Botkit in the terminal npm install -g botkit

**Steps to install the app locally**

1. Download the project folder into the local system where the app has to be deployed.
2. The following steps to be followed to create the service in the bluemix
3. Go to this link <https://console.bluemix.net/dashboard/apps/> and create a resource for the following services

* Watson Conversation
* Watson Speech to Text
* Watson Text to Speech

1. Once the services are created, note down the Service Credentials (username, password) for each service if its already created, else add new credential for the services.
2. Go to Manage tab and launch the service.
3. To create the Watson chat bot, launch the Watson Conversation service.

**Steps to create the Chat bot using Watson Conversation Service**

1. Create a Workspace.
2. Create the intents, entities and dialogs as per the requirements and test the bot using the console available there.
3. Once the Bot is created using the conversation service, now go to the downloaded project folder and choose the**. env file.**
4. Open the. env file in the editor and add the appropriate credentials noted for each service (Step 2. a) in the file.
5. Now open the terminal and go to the project folder location path
6. Run the following commands
7. – npm install
8. – npm run build
9. npm start
10. Now the server will run at default port 3000 with the url

<localhost:3000>

1. Now Chat with the bot for the testing purpose.

How to Integrate the Bot with Slack Messenger using Botkit Framework from the Node.js server?

1. Create the bot using the above steps
2. Create a slack messenger account and create a new app and copy the client id and client secret using <https://api.slack.com/apps>
3. Include the **client credentials in the. env file** of the Project.
4. Inaddtition to the above, do the following configuration for the slack
5. **Configure oauth**

-Botkit and Slack use the oauth authentication system to grant bots access to connect to, read from, and send messages to Slack teams.

Click on the "Oauth & Permissions" tab in your Slack's app setting, and under Redirect URLs, add: http://localhost:3000/oauth, then click save.

b. **Add Bot User**

-Click on the "Bot Users" tab and specify a name for your bot. This is the name that will be used by default when your application creates a new bot on a user's team.

In addition to a name, enable the option for "Always Show My Bot Online."

1. **Set up Interactive messages**

-"Interactive messages" is Slack's fancy way of saying "buttons."

In order to enable buttons, click on the "Interactive Components" tab and under Request URL, add http://localhost:3000/slack/receive, then click save.

1. **Set up Event Subscriptions**

-To start receiving messages, enable event subscriptions. First, under Request URL, add http://localhost:3000/slack/receive. When you finish typing, Slack will verify that this endpoint is properly configured. You must be running your Botkit application, and the application must be accessible at the URL specified for this to work.

Once verified, click "Add Bot User Event", and using the dropdown that appears, select all of the message. \* events: message. Channels, message. Groups, message.im, message. mpim. This tells Slack to send your bot all messages that are sent in any channel or group in which your bot is present. Add other events as needed.

Finally, scroll to the top of the page and switch "Enable Events" to "on". Your bot is now ready to receive messages!

1. **Add your Bot to your Slack team**

-Now that your bot is configured, and your application is up and running, you can login and add your bot. Visit https://my-bot-url/login, and you will be automatically directed to Slack's login page. Login and choose a team. You'll get one more confirmation before being redirected back to your app.

Meanwhile, your bot should appear inside your Slack team! You should receive a friendly welcome message!

**Note:**

1.While integrating with slack make sure the app is running in the server.

2.To have the different bot to integrate just change the workspace id in the .env file

**Author**

Malarvizhi Saravanan

Contact: 9841437879

Mail-id: malarsaravanan1996@gmail.com