

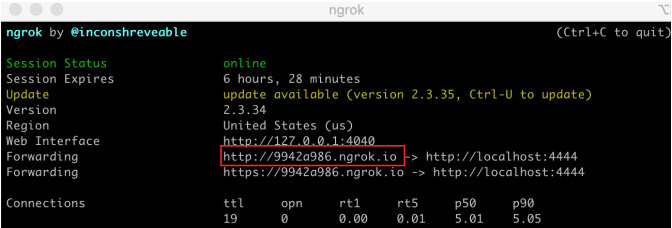
Slack API Integration Setup

Prerequisites:

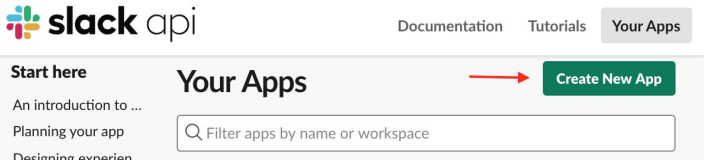
1. Have the underlying bot application up and running with a valid endpoint ready to verify a **challenge** token for which Slack will send a **POST** request to. The app needs to be able to discern the **challenge** payload and simply response with the same token. Refer to sample snippet below. This needs to be functioning to complete **Step 9** below.

```
const caseHandleChallenge = (ctx: any, requestCtx: RequestContext): void => {
  // send back Slack 'challenge' token for endpoint verification
  const { challenge } = ctx.request.body;
  if (challenge) {
    Object.assign(requestCtx, { type: RequestType.Verify, challenge });
  }
}
```

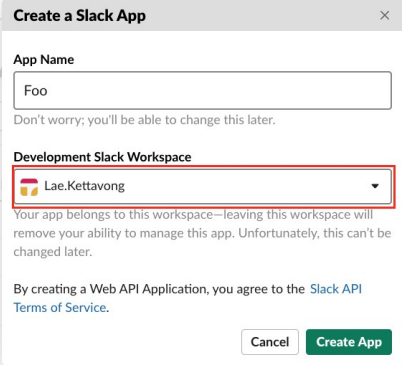
2. For local development, in order to have Slack reach your local application instance, you will need to use a tunneling/ reverse proxy tool to expose your localhost application to the web. One popular free tool is **ngrok** available at <https://ngrok.com>. Once installed, run the **http** command and supply the port number of your local app. For instance, an app running on **localhost:4444**, executing **./ngrok http 4444** will generate a public URL that can be used anywhere to access port 4444 on your localhost. Use the generated URL as captured below for **Step 9**.



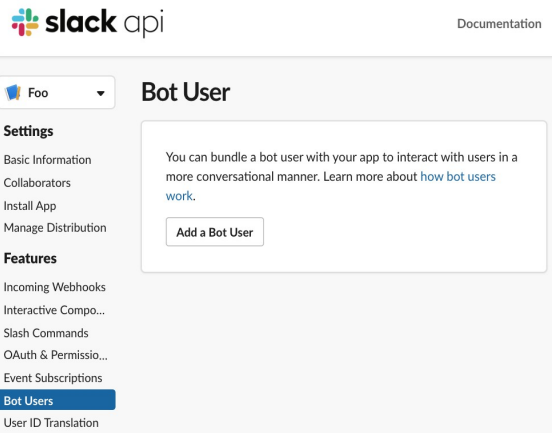
1. Create a new app, navigate to https://api.slack.com/apps?new_app=1, click on **Create New App** button.



2. Specify app name and select the desired workspace for your bot.



3. Upon creation, click on the app name and drill down to **Bot Users**, and click on **Add A Bot User**.



4. Enter *Display name* and *Default username*, turn on *Always Show Bot as Online* then *Add Bot User*, followed by *Save Changes*.

slackapi

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You can bundle a bot user with your app to interact with users in a more conversational manner. Learn more about [how bot users work](#).

Display name

foo

Names must be shorter than 80 characters, and can't use punctuation (other than apostrophes and periods).

Default username

foo

If this username isn't available on any workspace that tries to install it, we will slightly change it to make it work. Usernames must be all lowercase. They cannot be longer than 21 characters and can only contain letters, numbers, periods, hyphens, and underscores.

Always Show My Bot as Online

When this is off, Slack automatically displays whether your bot is online based on usage of the RTM API.

On

Add Bot User

5. Navigate to *Oauth & Permissions*, and click on *Install App to Workspace*.

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OAuth Tokens & Redirect URLs

These OAuth Tokens will be automatically generated when you finish connecting the app to your workspace. You'll use these tokens to authenticate your app.

Install App to Workspace

Redirect URLs

You will need to configure redirect URLs in order to automatically generate the Add to Slack button or to distribute your app. If you pass a URL in an OAuth request, it must (partially) match one of the URLs you enter here. [Learn more](#).

6. Click *Allow*

This app was created by a member of your workspace, Lae.Kettavong.

On Lae.Kettavong, Foo would like to:

Confirm your identity on Lae.Kettavong

Add a bot user with the username @foo

Foo will be able to install a bot user that appears in and has access to your workspace's directory. It can also post messages and view activity on messages in any channel it is invited to.

Cancel

Allow

7. In the subsequent screen, copy the *Bot User oAuth Access Token*. This authentication token will be used for making POST requests back to Slack from within the bot application code. In the **CNC** (project) repo, create a **.env** file in the root directory and assign the token to **SLACK_BOT_USER_OAUTH_TOKEN**. Click on *Reinstall App* to move on.

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OAuth Tokens & Redirect URLs

Tokens for Your Workspace

These tokens were automatically generated when you installed the app to your team. You can use these to authenticate your app. [Learn more](#).

OAuth Access Token

xoxp-525990151425-526488167779-791012742533

Copy

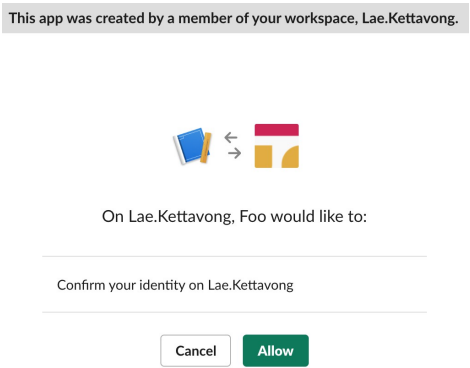
Bot User OAuth Access Token

xoxb-525990151425-779527074259-vGb61ey5M9rH

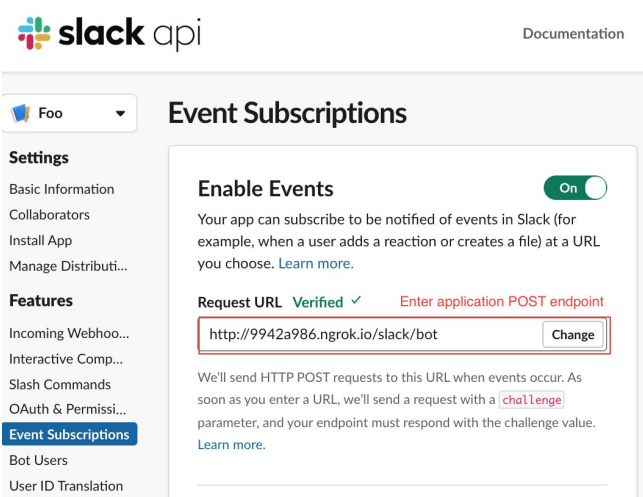
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Reinstall App

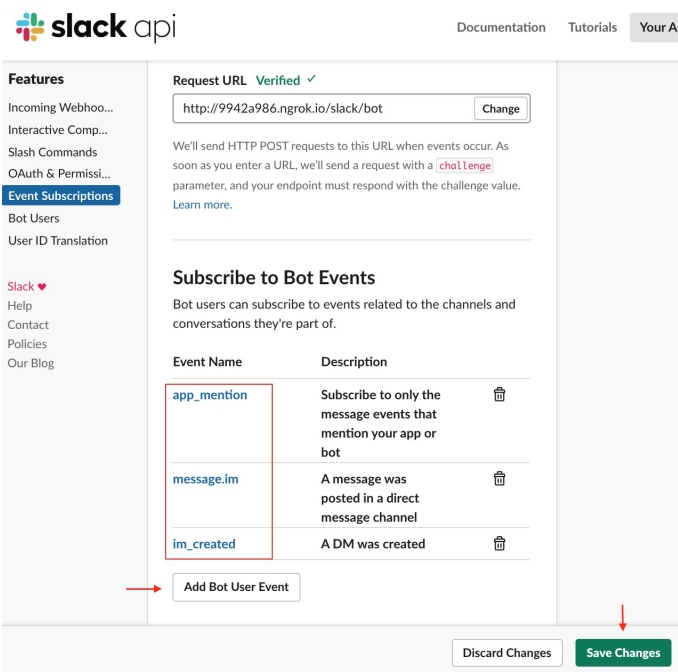
8. Click *Allow* in following screen.



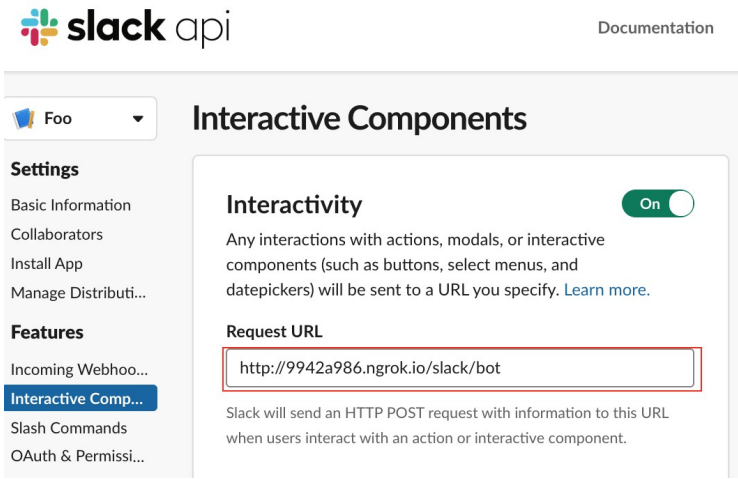
9. Navigate to **Event Subscriptions**, turn on the *Enable Events* switch. In the *Request URL* text field, enter the target endpoint for which Slack will send POST requests to the application during user interactions with the interactive components. Be sure to enter full path to the POST handler. Upon which, Slack will ping that endpoint with a *challenge* token. Endpoint verification is complete once the bot app sends back the same *challenge* token. Refer to the *Prerequisites* section above to generate your localhost public domain.



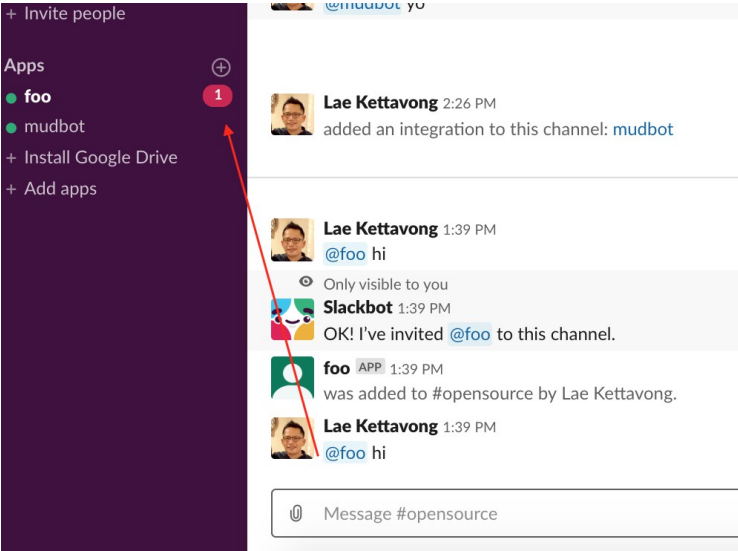
10. In the same flow under the *Subscribe to Bot Events*, click *Add Bot User Event* button. You will now define the list of Slack events that will trigger the POST requests to the bot app. From the drop down, add the **app_mention**, **message.im**, and **im_created** events to start off with. Feel free to add more events to suit your needs. Press *Save Changes*. At this point, you will have to reinstall your app again.



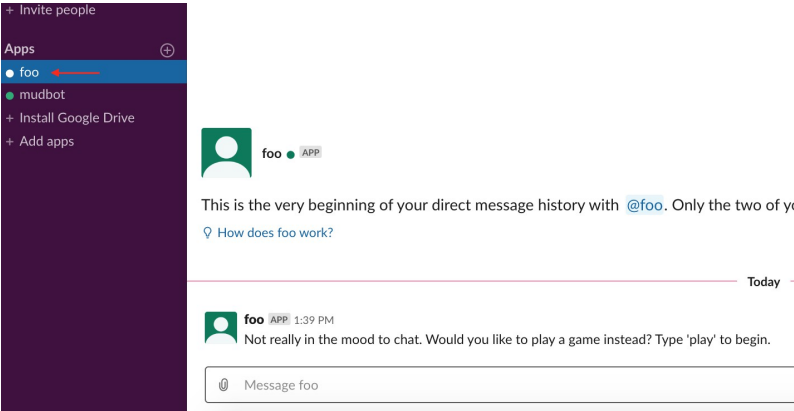
11. Navigate to the **Interactive Components** flow, turn on the **Interactivity** switch then enter the same endpoint as above in the **Request URL** field. Be sure to click on **Save Changes**.



12. You are now ready to “chat” with the bot. In Slack, from within any public channel (or you can direct message the bot), send a pleasantry message to the bot as follows. At which point, the bot should direct message you.



13. You should now see the DM from the bot. In the case of the POC application, you will get a laconic response as follows.



14. Enter *play* as instructed will fire up the game.

Channels

general

opensource

random

sn-games

+ Add a channel

Direct Messages

Slackbot

Lae Kettavong (you)

+ Invite people

Apps

foo

mudbot

+ Install Google Drive

+ Add apps

foo

APP

1:39 PM

Not really in the mood to chat. Would you like to play a game instead? Type 'play' to begin.

Lae Kettavong

2:05 PM

play

foo


APP

2:05 PM

Tomb of the Forsaken Goblin

Find your way through catacombs below the ancient city of Glarven, the final resting place of the forsaken goblins.

Dungeon (119 kB)



Navigate through the catacombs with cardinal directions, collecting ancient treasures along the way. Commands are go [direction] or get [item]. The treasures you find will be worth gold. Collect 100 gold and find the exit to escape.

Let's go find some gold!

Start


Message foo

The Obliterated Cavern

You enter a cavern, or something that once was a cavern. Giant stalagmites rise up from the ground, but most of the stalactites have fallen to the cave floor and broken into pieces.

Make your next move


s e w



The Restless Tomb


You enter a small room with three tombs. If you listen closely you can hear a faint knocking and scratching coming from the tombs.

Items up for grabs

 **Amulet of Horror (6 gold coins)**

A simple leather cord with a blood red stone attached. Wear at your own risk.

pickup


 **Chestplate of Injuring (0 gold coins)**

The wearer of this chestplate will take more damage than if they were not wearing it.

pickup

Make your next move

n s e




Message foo

The Obliterated Cavern


You enter a cavern, or something that once was a cavern. Giant stalagmites rise up from the ground, but most of the stalactites have fallen to the cave floor and broken into pieces.


Make your next move


s e w



Current inventory

 **Amulet of Horror (x6 gold coins):** A simple leather cord with a blood red stone attached. Wear at your own risk.

 **Chestplate of Injuring (x0 gold coins):** The wearer of this chestplate will take more damage than if they were not wearing it.

 **x 6 gold coins**

Let's continue playing!

Resume

Message foo