Slack Chatbots

com Python, AWS Lambda e Google Dialogflow

Mary Marchini

@mmarkini

sthima

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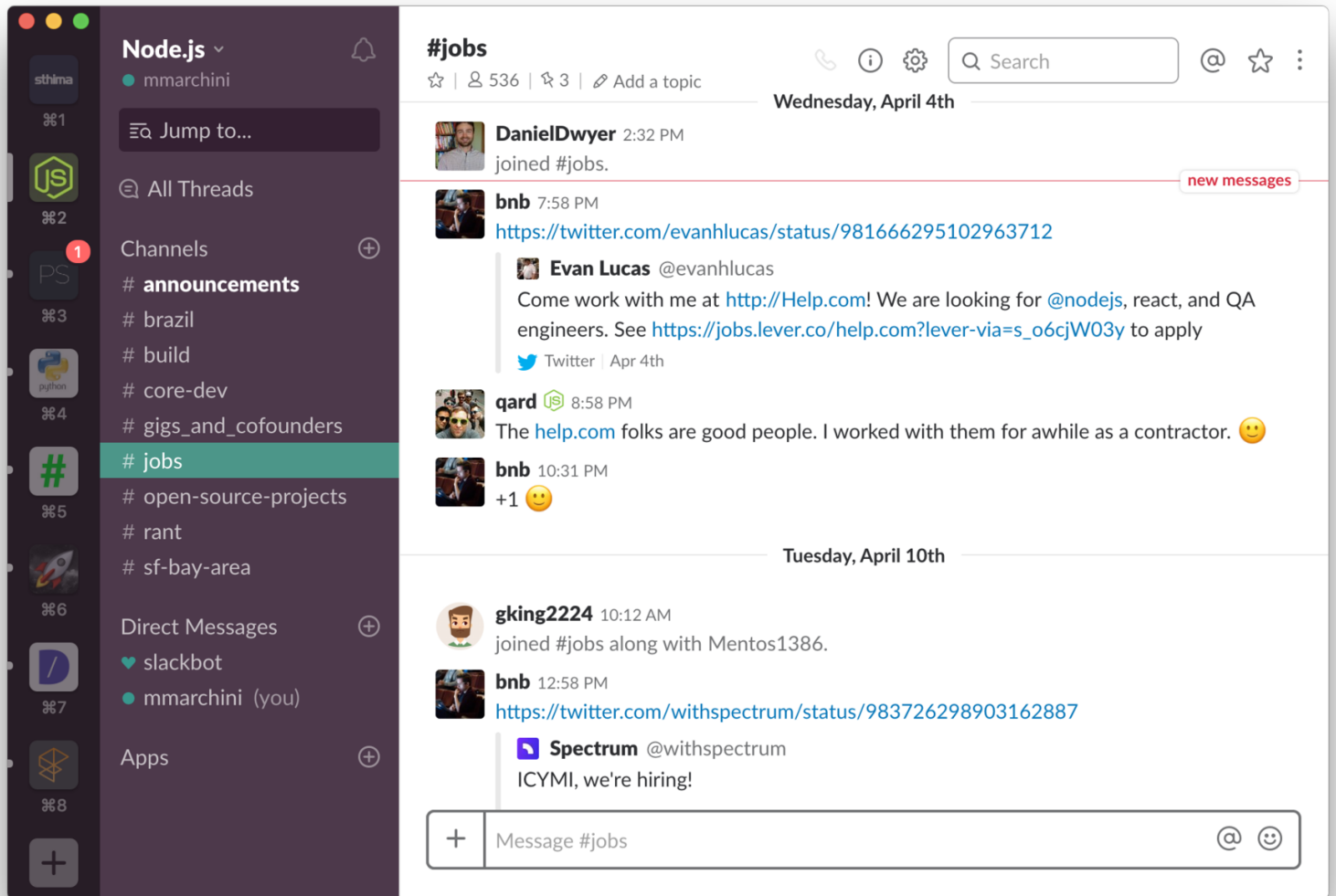
Developers Team Leader @ **Sthima**
Node.js Collaborator
Node.js Diagnostics WG Member

@mmarkini

http://mmarchini.me/

oss@mmarchini.me

https://github.com/mmarchini/


Node.js
mmarchini
Jump to...
All Threads
Channels
announcements
brazil
build
core-dev
gigs_and_cofounders
jobs
open-source-projects
rant
sf-bay-area
Direct Messages
slackbot
mmarchini (you)
Apps
#jobs
536
3
Add a topic
Search
Wednesday, April 4th
DanielDwyer 2:32 PM
joined #jobs.
new messages
bnb 7:58 PM
https://twitter.com/evanhlucas/status/981666295102963712
Evan Lucas @evanhlucas
Come work with me at http://Help.com! We are looking for @nodejs, react, and QA engineers. See https://jobs.lever.co/help.com?lever-via=s_o6cjW03y to apply
Twitter | Apr 4th
qard 8:58 PM
The help.com folks are good people. I worked with them for awhile as a contractor.
bnb 10:31 PM
+1
Tuesday, April 10th
gking2224 10:12 AM
joined #jobs along with Mentos1386.
bnb 12:58 PM
https://twitter.com/withspectrum/status/983726298903162887
Spectrum @withspectrum
ICYMI, we're hiring!
Message #jobs

sthima
matheus
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conferences
design
devs
devs-notifications
general
hackday
headquarters
heeelp
inbound-marketing
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service-desk-alert
silicon-valley
tech
tech-board
tubaron
website-contact
website-content
Direct Messages
slackbot
matheus (you)

#devs
6 | 1 | It's an I/O device! - Uncle Bob
Search

Thursday, April 12th

matheus 1:43 PM
https://github.com/nodejs/node/issues/8913

Raynos
#8913 Debugging: name every function
- **Version**: 4.4.7
- **Platform**: linux
- **Subsystem**: http

There are too many anonymous functions in the source code which makes heap debugging frustrating

This `once('response')` listener (https://github.com/nodejs/node/blob/master/lib/_http_client.js#L235-L237) is anonymous.

When I try to debug why I am leaking `response` listeners in a heap snapshot

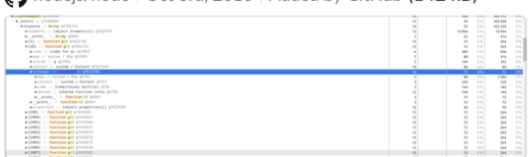
image

I see that the `listener` in the `once` closure is `function () {}` which gives me no information. I strongly suspect that it's the `abort` listener but i have no evidence for it.

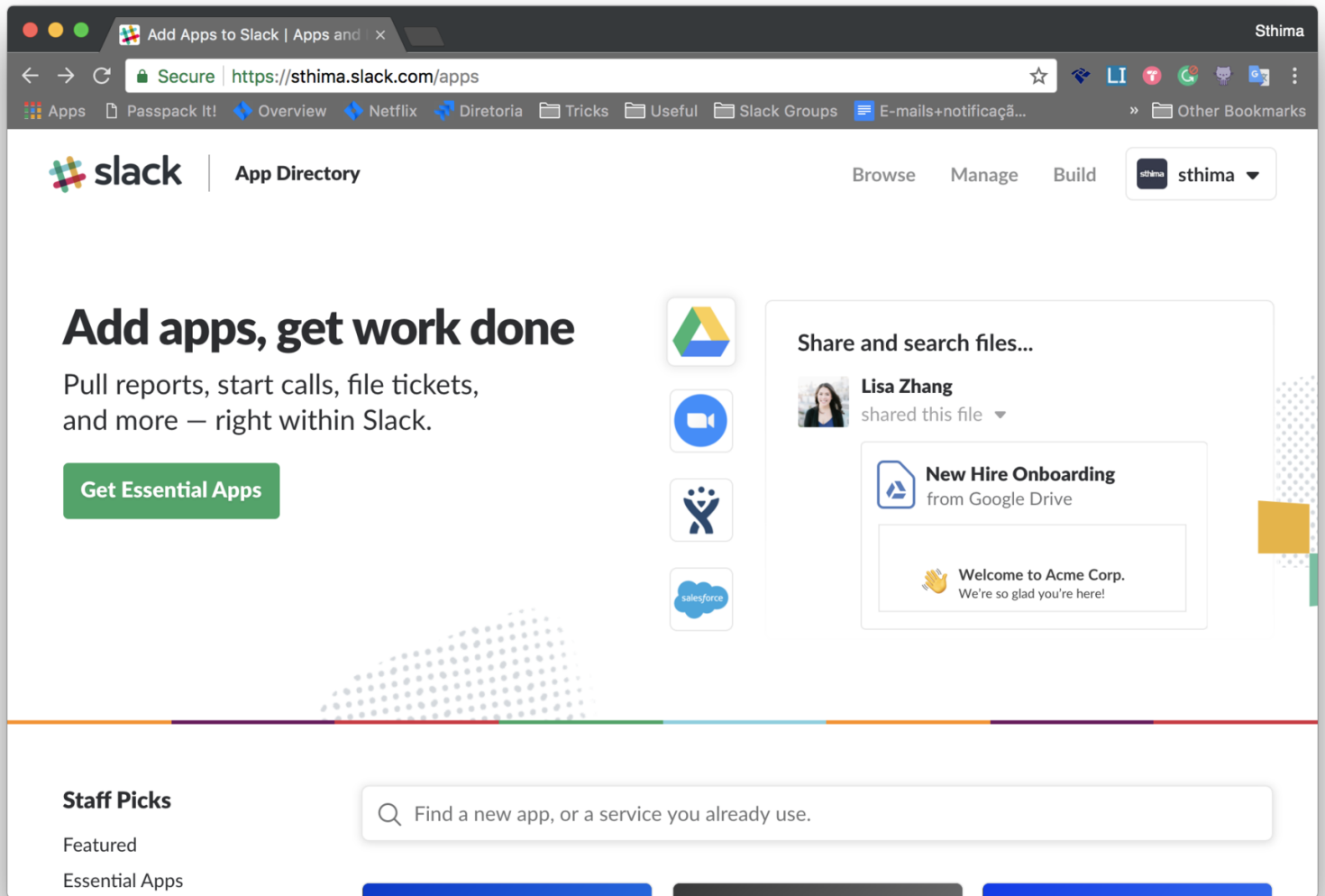
There are many, many, many anonymous functions in node core, there should be zero.

Labels	Comments
good first issue, help wanted, http	47

nodejs/node | Oct 3rd, 2016 | Added by GitHub (142 kB)



Message #devs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https://sthima.slack.com/apps
Apps
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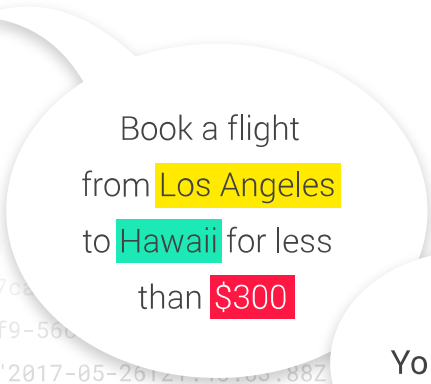
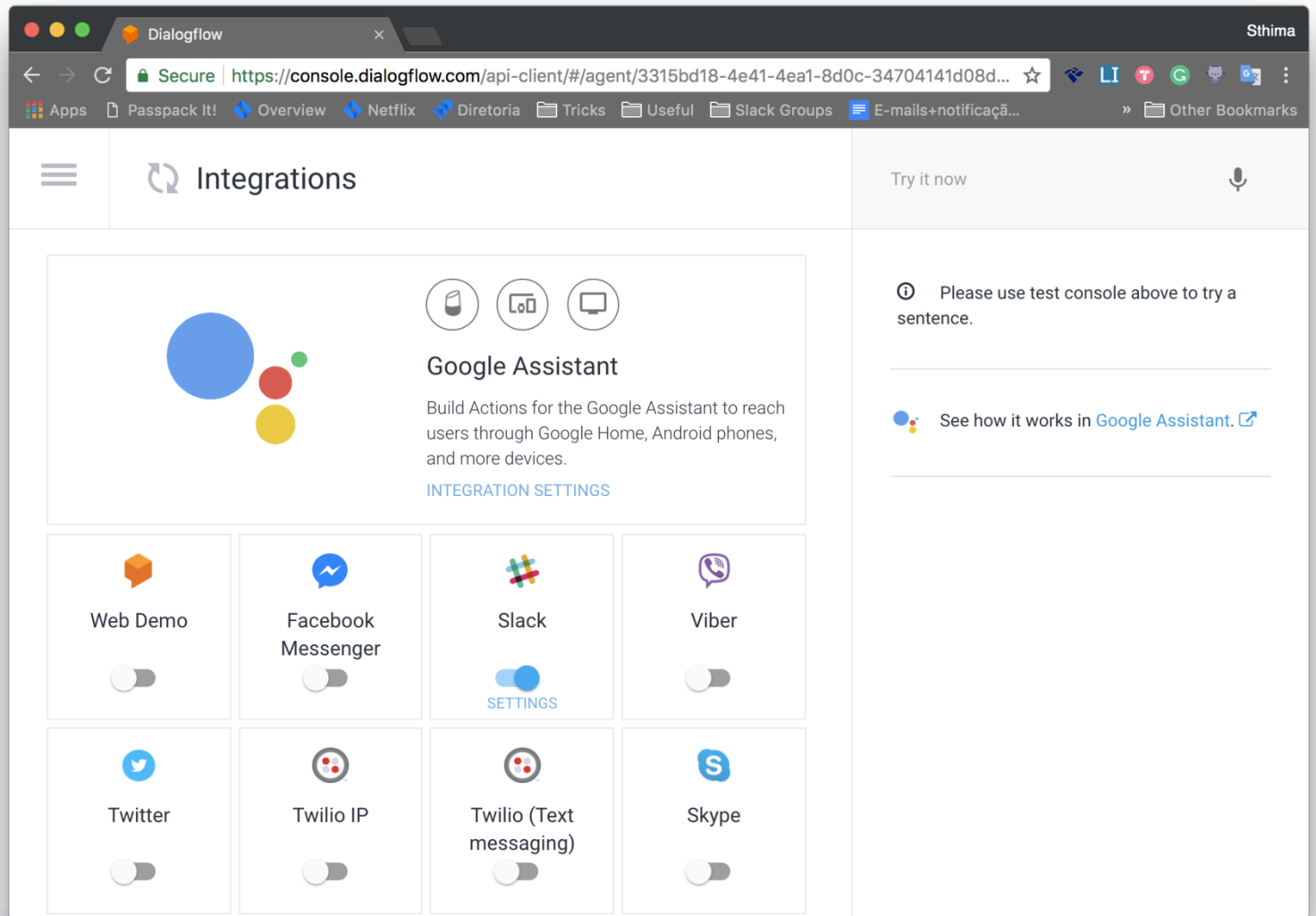
Dialogflow




```
"lang": "en",
"result": {
"source": "agent",
"action": "flight.book", "parameters": {"geo-city": "Los Angeles",
"geo-state-us": "Hawaii", "price": {"amount": 300, "currency": "USD"},
"contexts": [{"name": "flightbook", "parameters": {
"geo-state-us.original": "Hawaii",
"price": {
"amount": 300,
"currency": "USD"
},
"geo-city": "Los Angeles",
"price.original": "$300",
"geo-state-us": "Hawaii",
```


Dialogflow
Sthima
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INTEGRATION SETTINGS
Please use test console above to try a sentence.
See how it works in Google Assistant.
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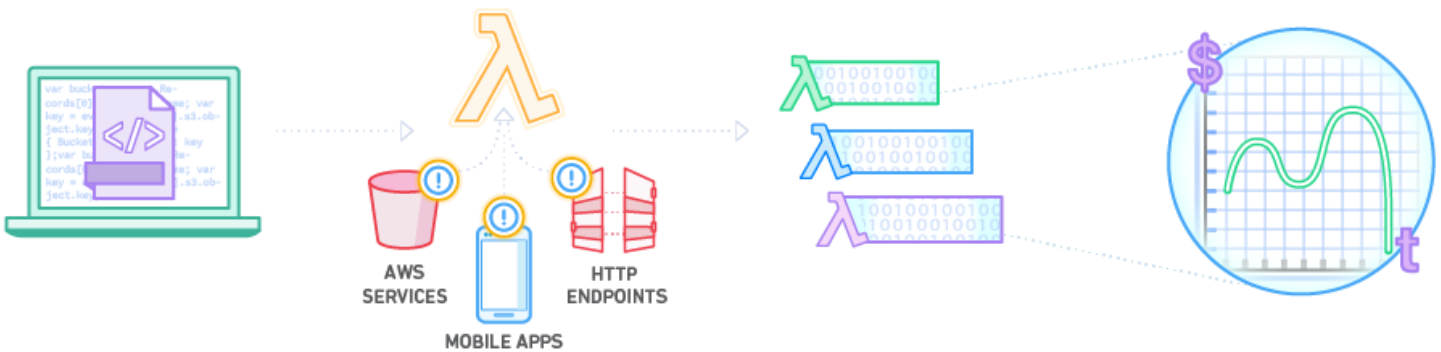
SETTINGS
Viber
Twitter
Twilio IP
Twilio (Text messaging)
Skype



Upload your code to AWS Lambda

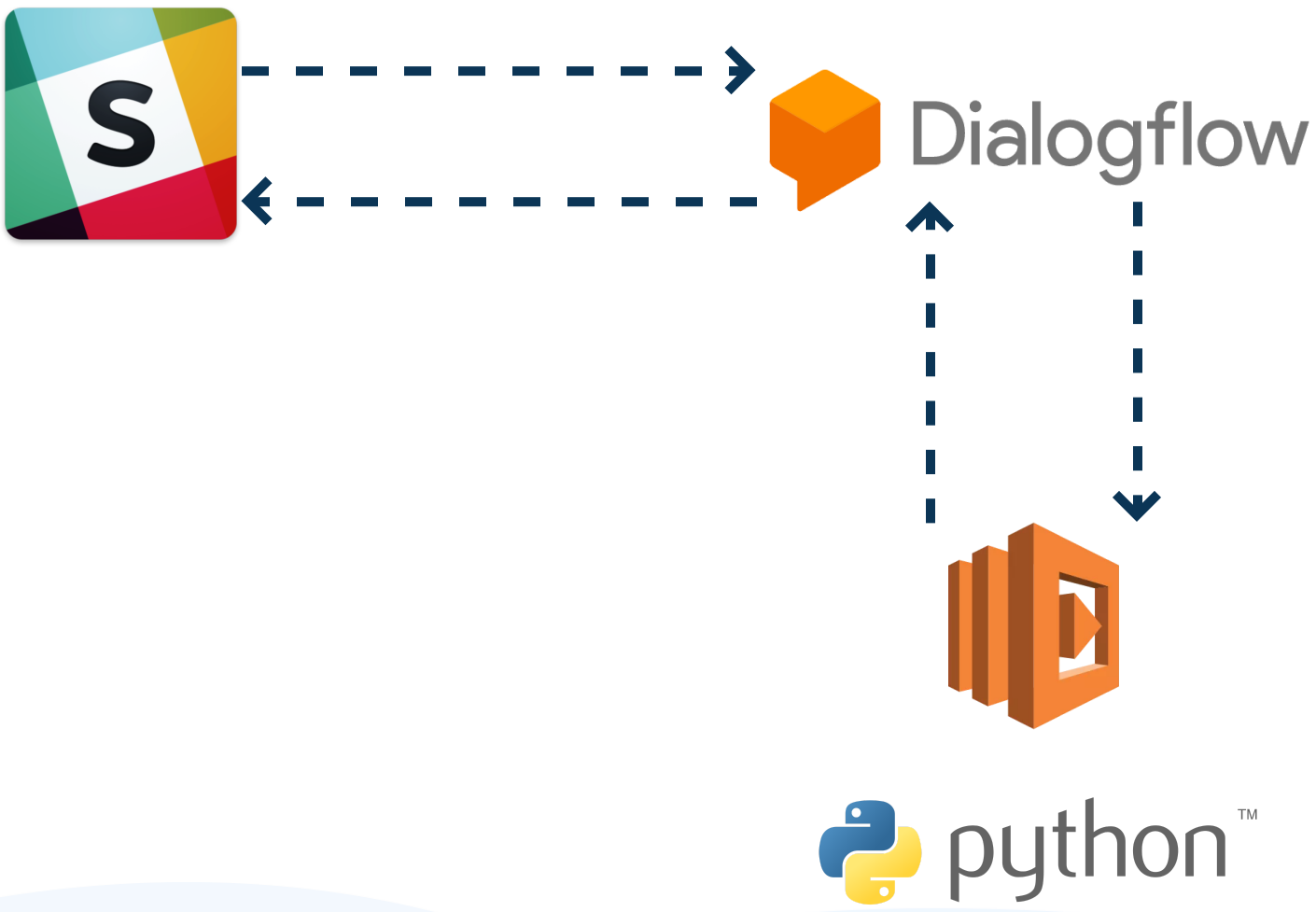
Set up your code to trigger from other AWS services, HTTP endpoints, or in-app activity

Lambda runs your code only when triggered, using only the compute resources needed

Pay just for the compute time you use

“ Não configure na mão!

serverless


Dialogflow
python™

Pré-Requisitos

- Ter **npm** instalado
- Ter uma conta da AWS (gratúita)
- Ter uma conta do Slack (gratúita)
- Ter uma conta no Dialogflow (gratúita)
  - Pode usar conta do Google

- Instalar Serverless e Criar projeto
- Configurar Credenciais da AWS
- Fazer deploy no AWS Lambda
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- Criar **Intenção** no Dialogflow
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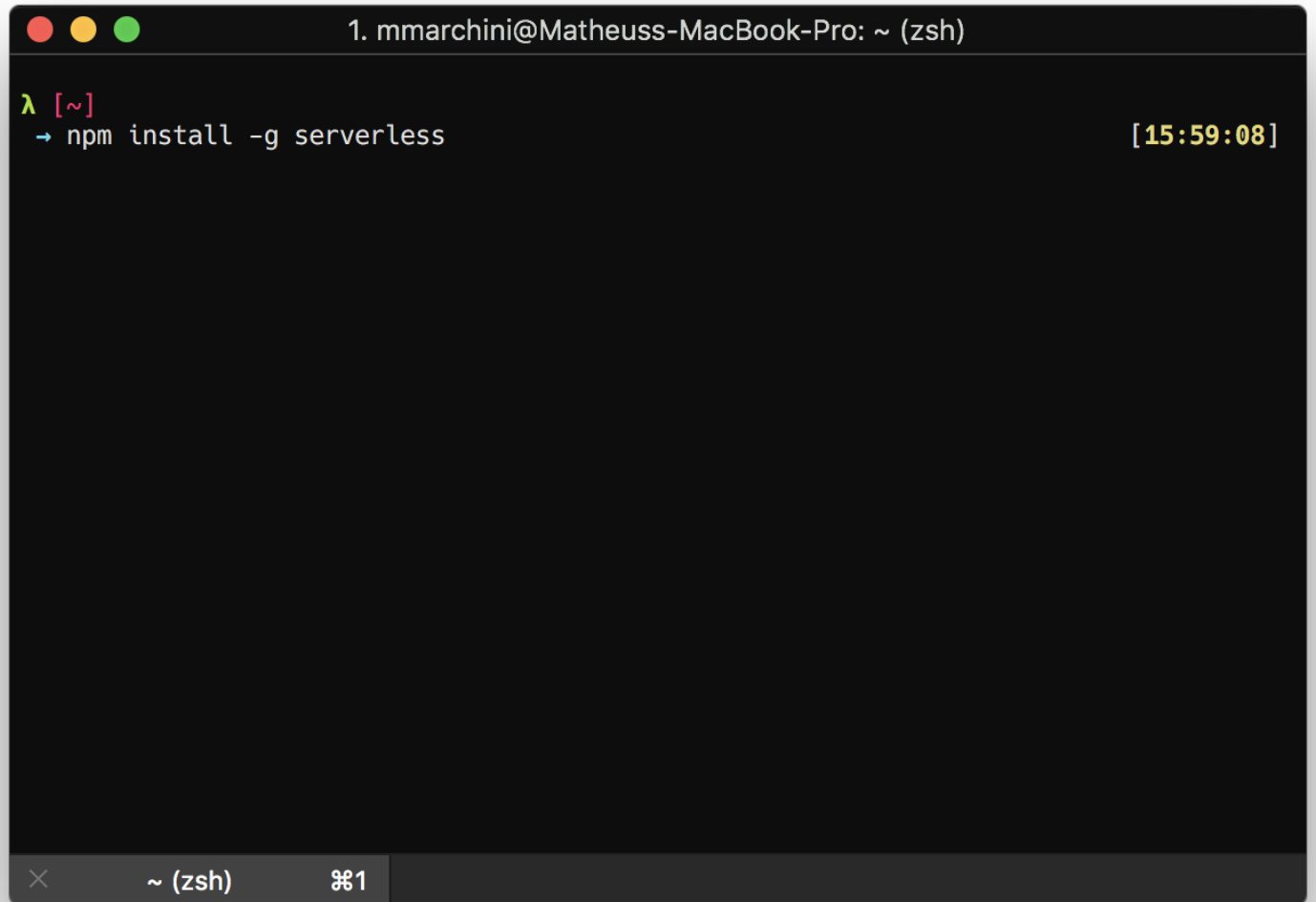
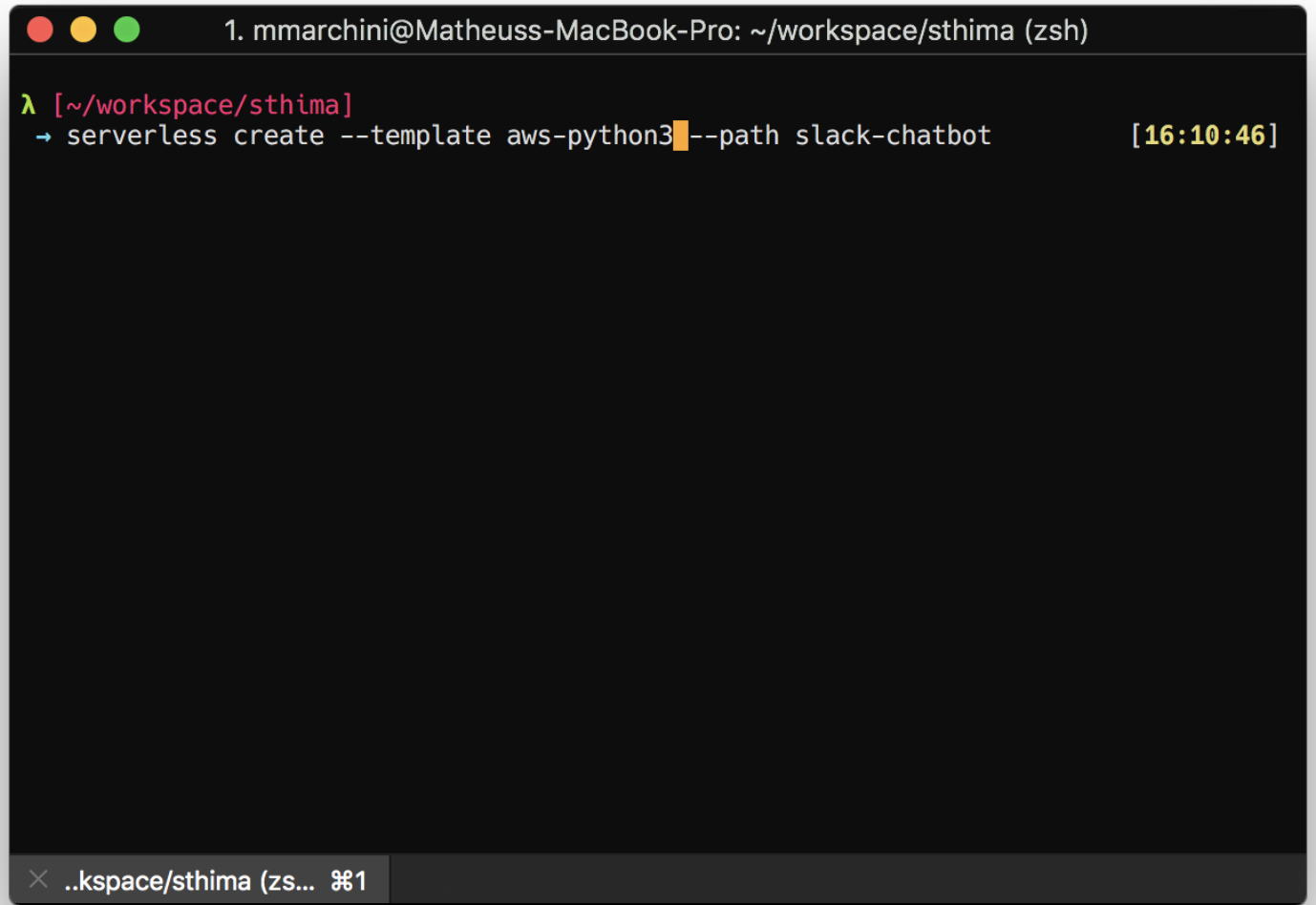
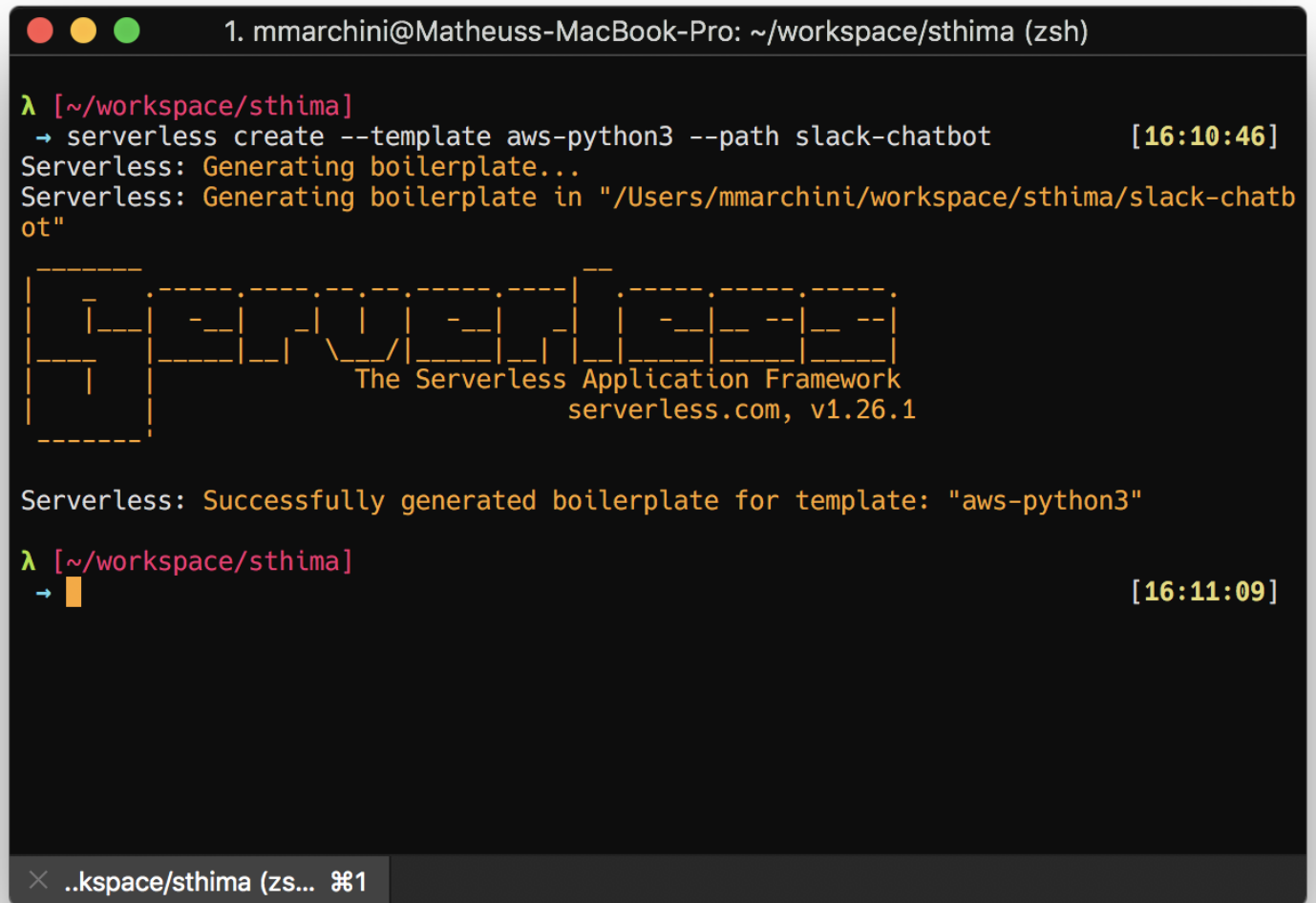
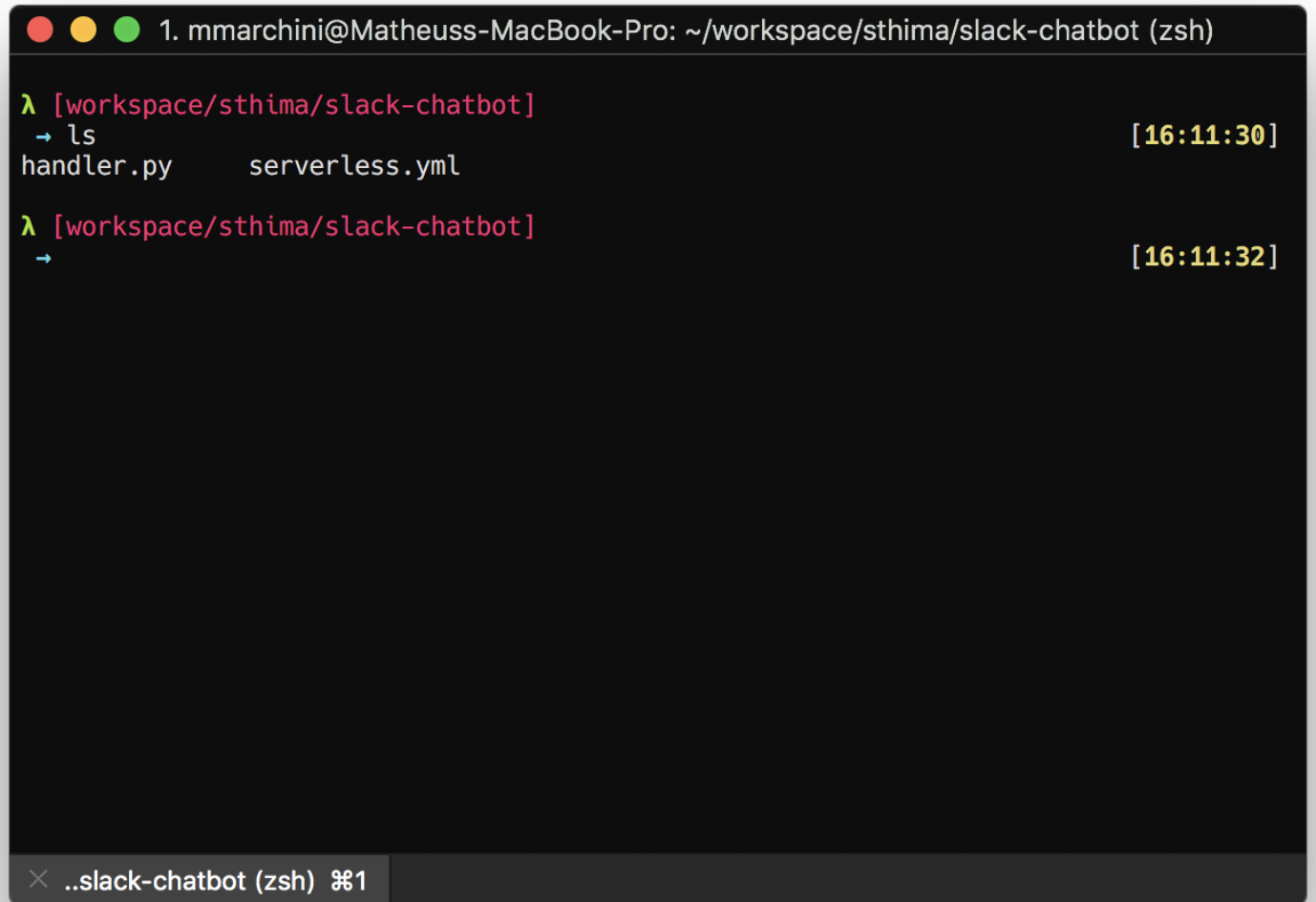

1. mmarchini@Matheuss-MacBook-Pro: ~ (zsh)
λ [~]
→ npm install -g serverless [15:59:08]
~ (zsh) ⌘1

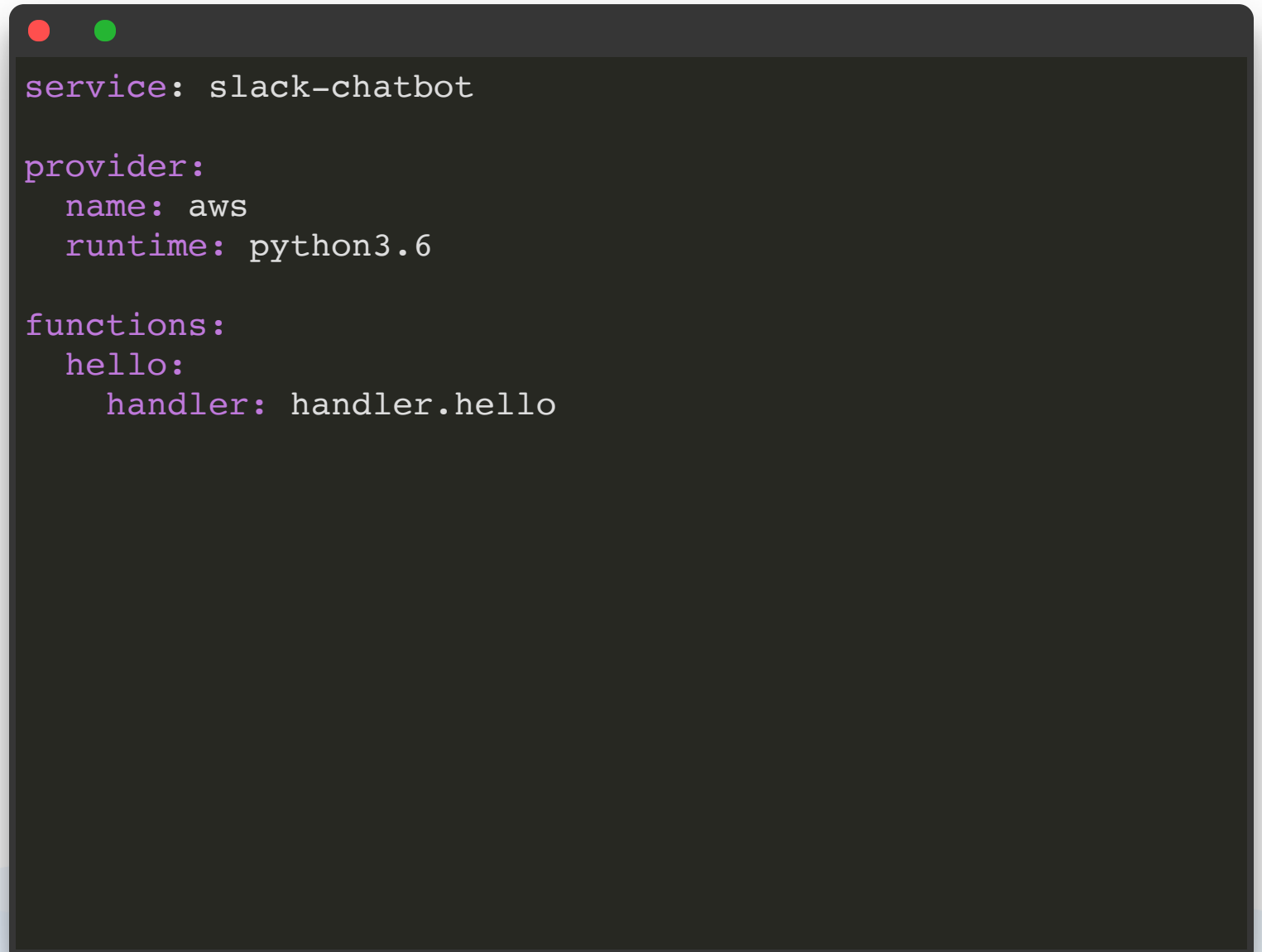

1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima (zsh)
λ [~/workspace/sthima]
→ serverless create --template aws-python3 --path slack-chatbot [16:10:46]
..kspace/sthima (zs... ⌘1


1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima (zsh)
λ [~/workspace/sthima]
→ serverless create --template aws-python3 --path slack-chatbot [16:10:46]
Serverless: Generating boilerplate...
Serverless: Generating boilerplate in "/Users/mmarchini/workspace/sthima/slack-chatbot"
The Serverless Application Framework
serverless.com, v1.26.1
Serverless: Successfully generated boilerplate for template: "aws-python3"
λ [~/workspace/sthima]
→ [16:11:09]
..kspace/sthima (zs... ⌘1

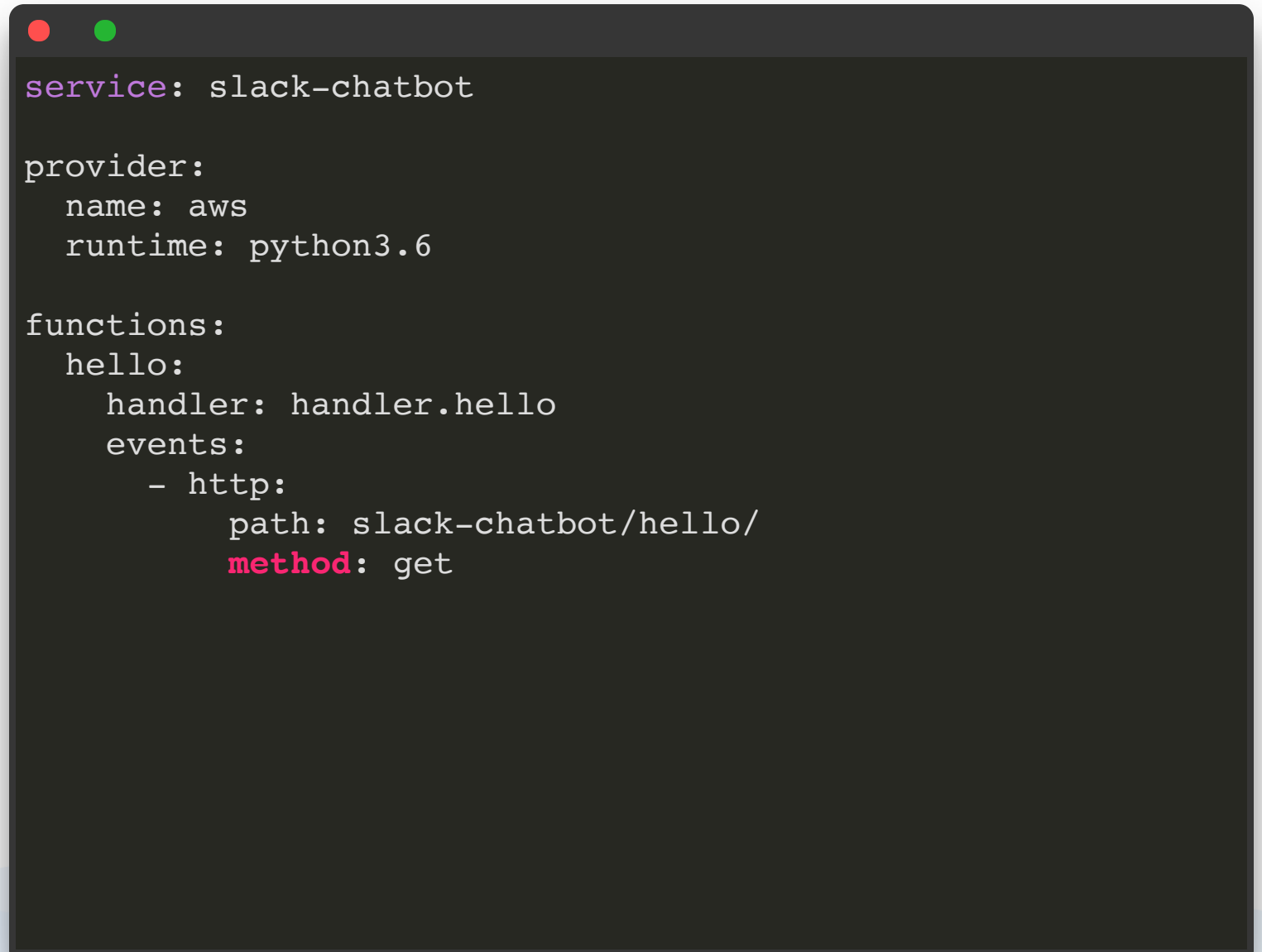

1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima/slack-chatbot (zsh)
λ [workspace/sthima/slack-chatbot]
→ ls
[16:11:30]
handler.py serverless.yml
λ [workspace/sthima/slack-chatbot]
→
[16:11:32]
..slack-chatbot (zsh) ⌘1

```python
import json


def hello(event, context):
    body = {
        "message":
            "Go Serverless v1.0! Your function executed successfully!",
        "input": event
    }

    response = {
        "statusCode": 200,
        "body": json.dumps(body)
    }

    return response
```

handler.py



serverless.yml



serverless.yml

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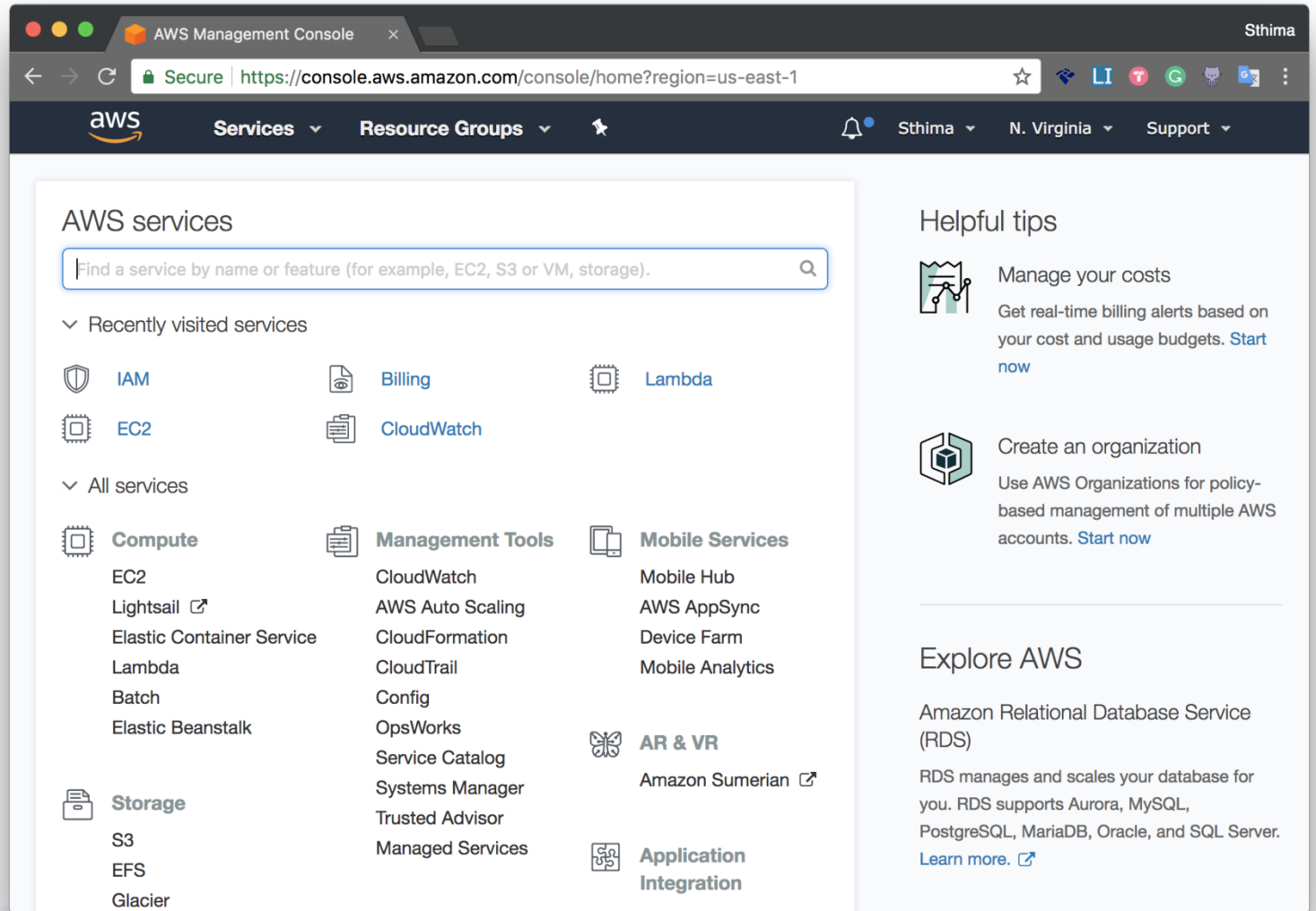
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Sthima
Secure
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Sthima
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Support
AWS services
Find a service by name or feature (for example, EC2, S3 or VM, storage).
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CloudFormation
CloudTrail
Config
OpsWorks
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Trusted Advisor
Managed Services
Mobile Services
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Get real-time billing alerts based on your cost and usage budgets. Start now
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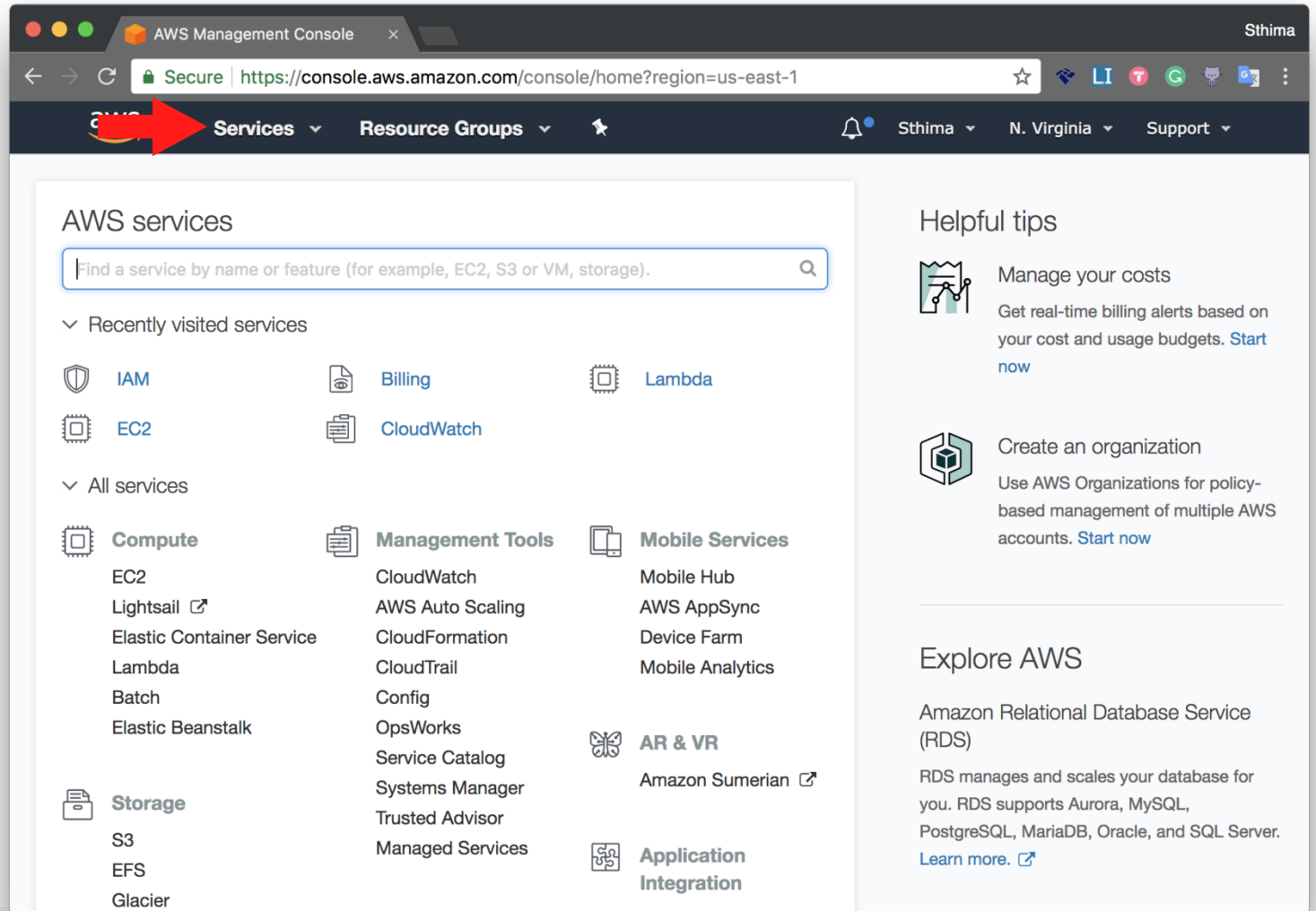
Amazon Relational Database Service (RDS)
RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. Learn more.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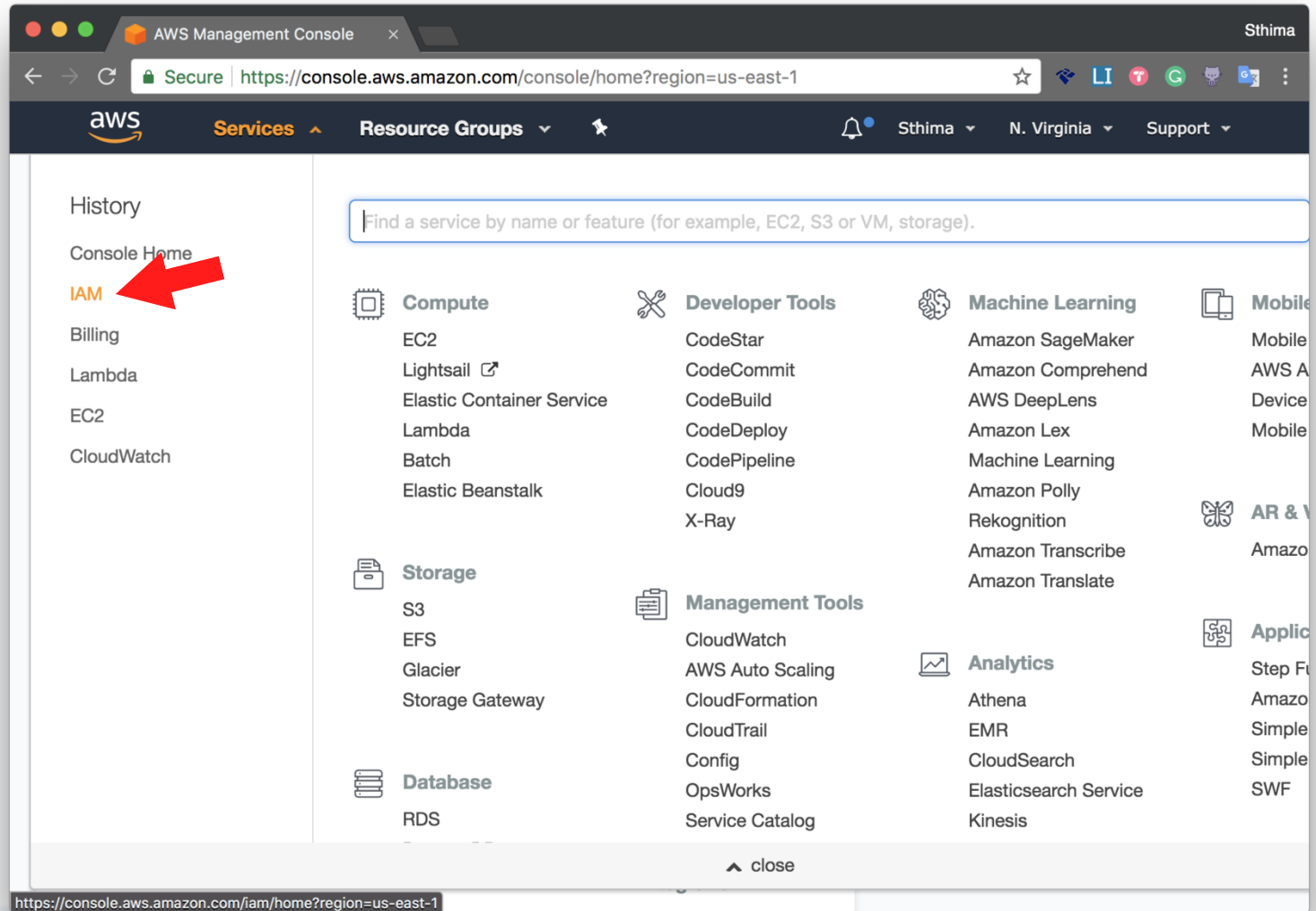
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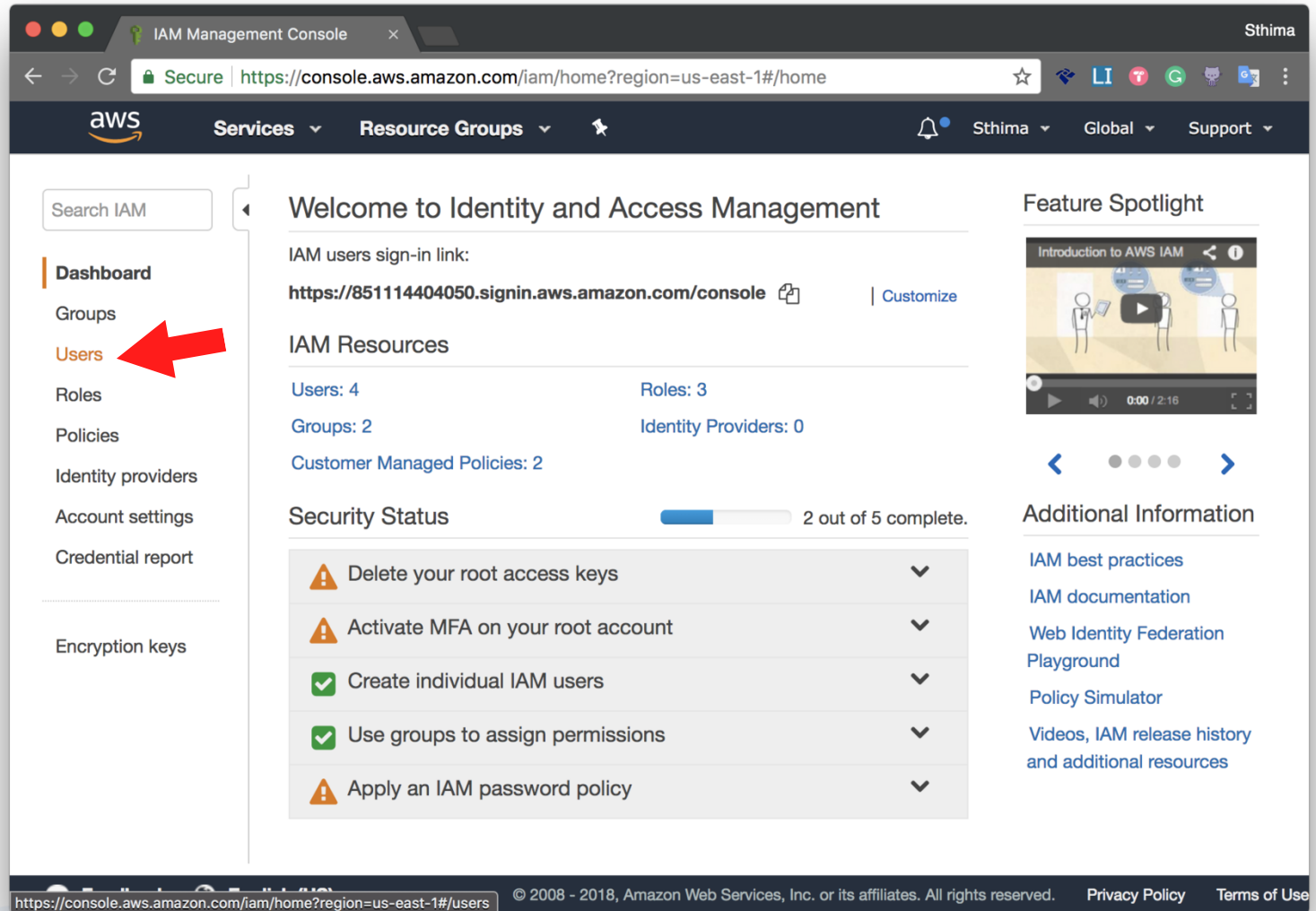
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Policies
Identity providers
Account settings
Credential report
Encryption keys
Welcome to Identity and Access Management
IAM users sign-in link:
https://851114404050.signin.aws.amazon.com/console
Customize
IAM Resources
Users: 4
Roles: 3
Groups: 2
Identity Providers: 0
Customer Managed Policies: 2
Security Status
2 out of 5 complete.
Delete your root access keys
Activate MFA on your root account
Create individual IAM users
Use groups to assign permissions
Apply an IAM password policy
Feature Spotlight
Introduction to AWS IAM
0:00 / 2:16
Additional Information
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Web Identity Federation Playground
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Videos, IAM release history and additional resources
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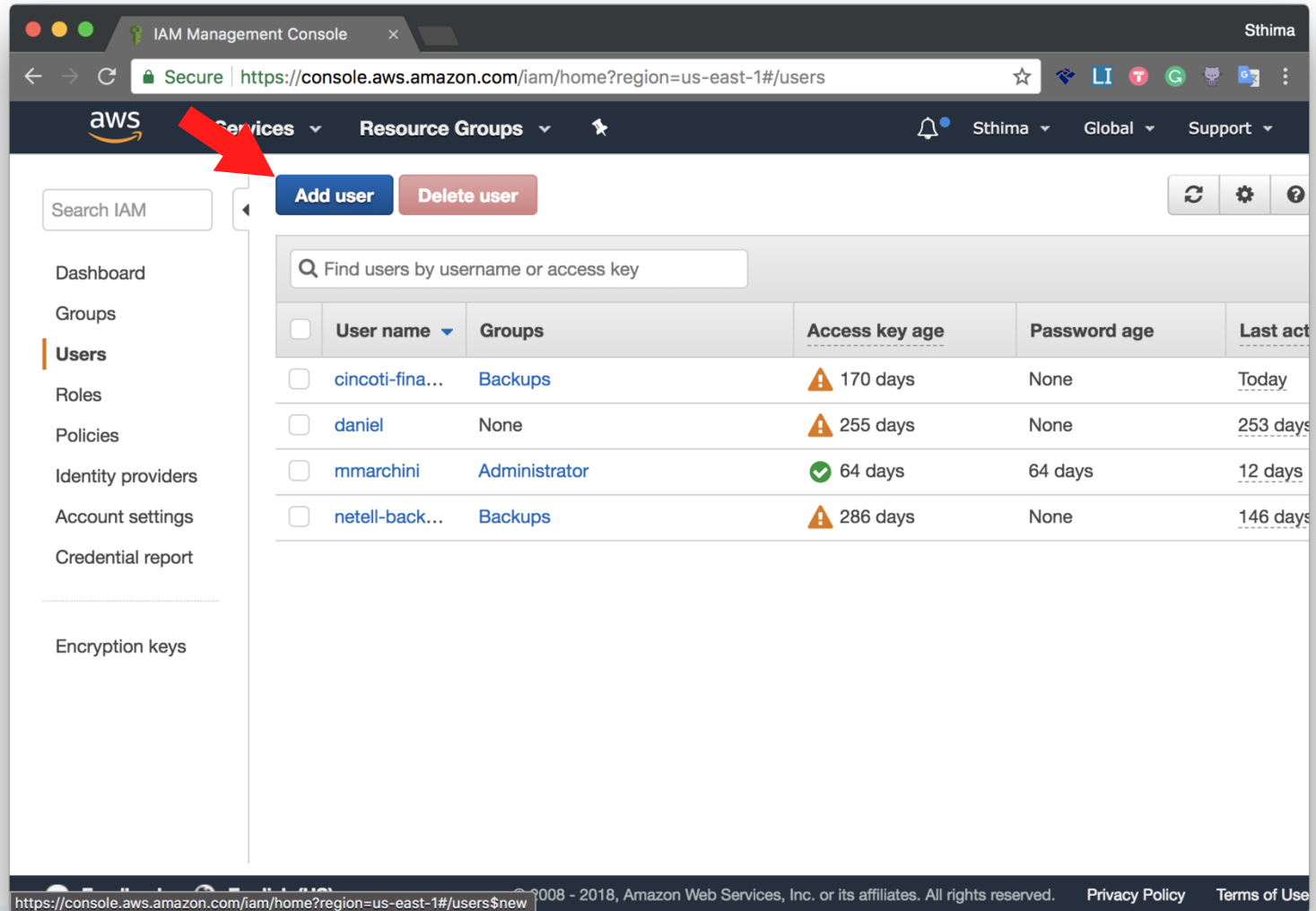
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User name
Groups
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daniel
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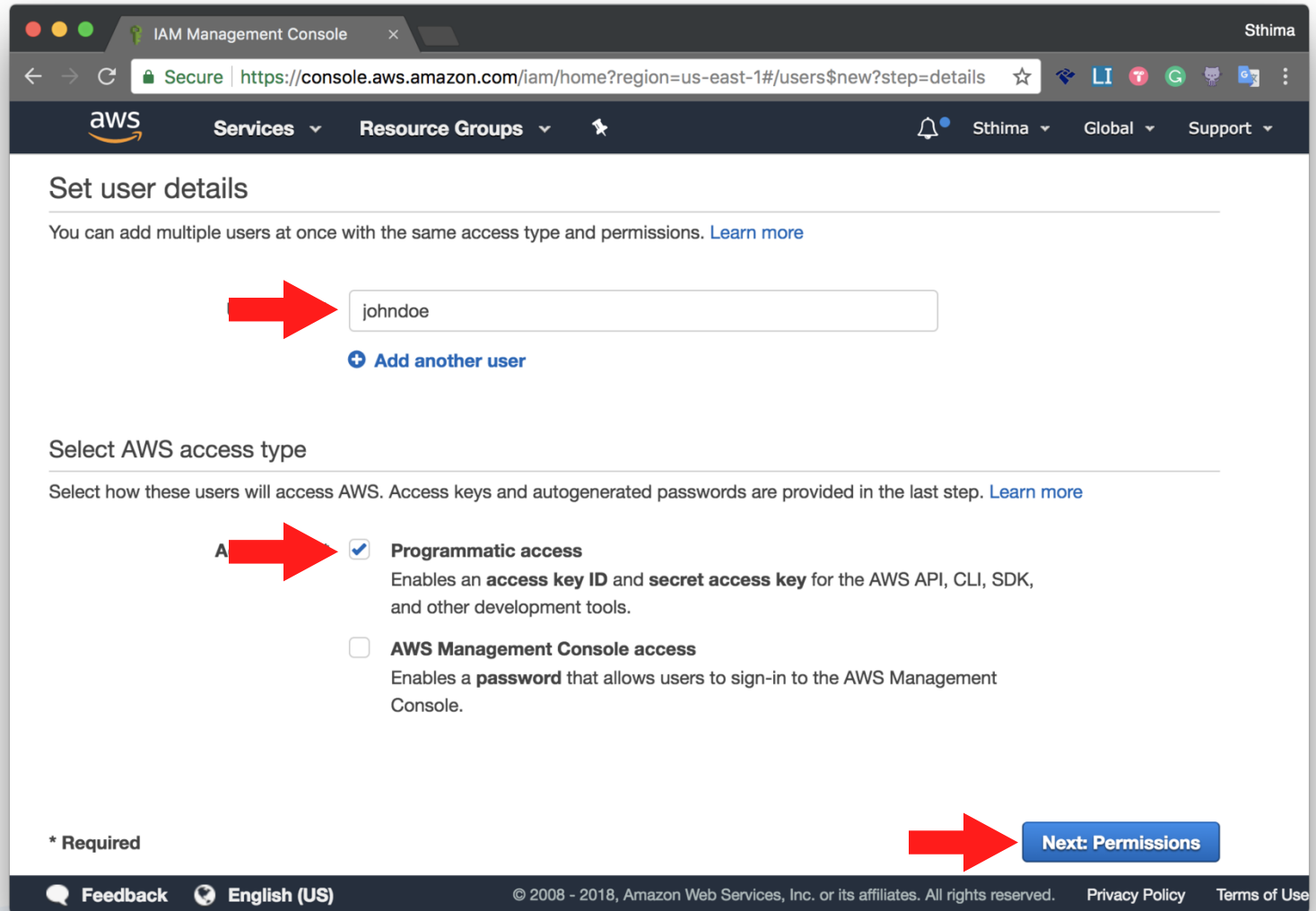
https://console.aws.amazon.com/iam/home?region=us-east-1#/users$new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Secure https://console.aws.amazon.com/iam/home?region=us-east-1#/users$new?step=details
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Support
Set user details
You can add multiple users at once with the same access type and permissions. Learn more
johndoe
Add another user
Select AWS access type
Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. Learn more
Programmatic access
Enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools.
AWS Management Console access
Enables a password that allows users to sign-in to the AWS Management Console.
* Required
Next: Permissions
Feedback
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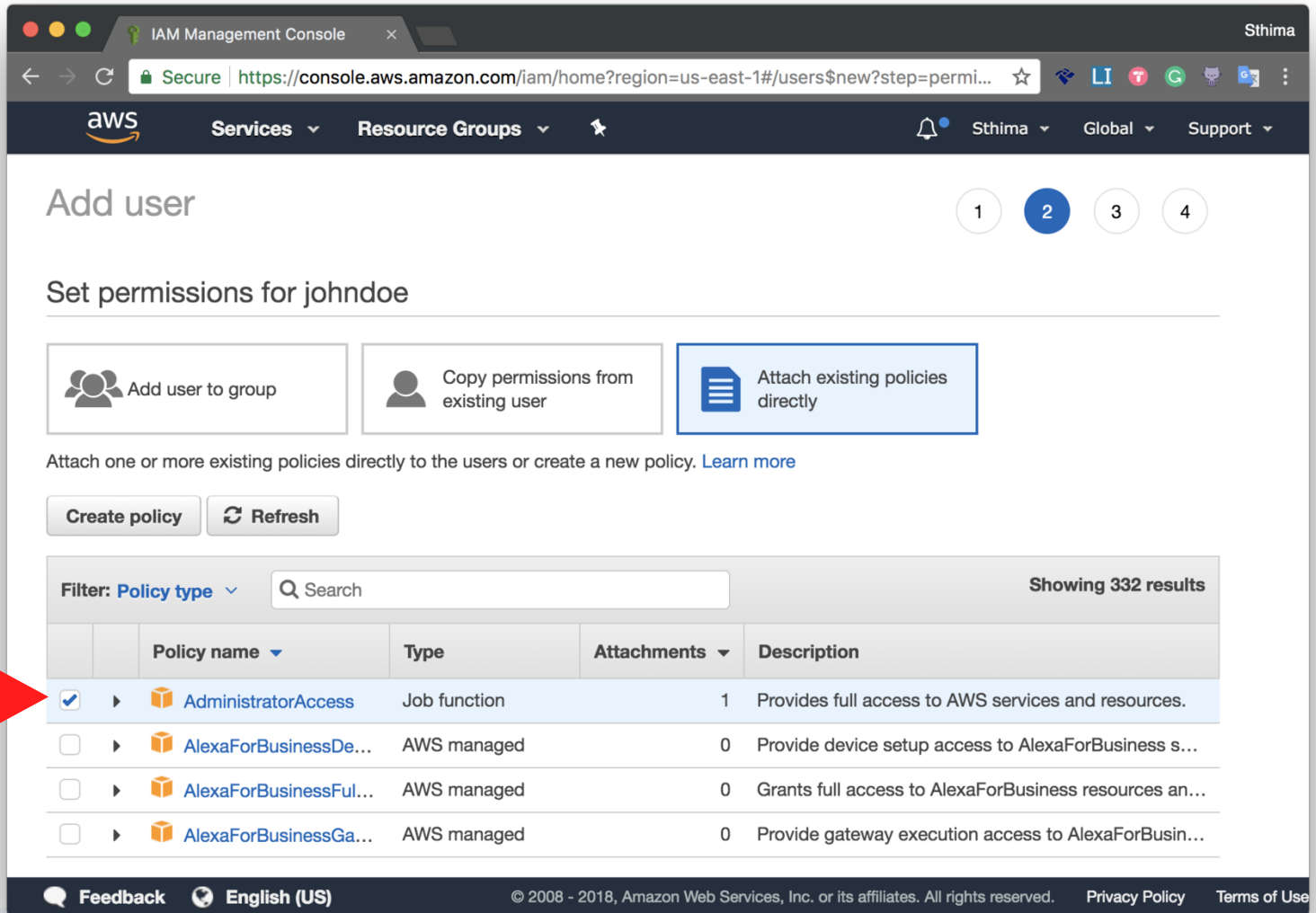
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Add user
1
2
3
4
Set permissions for johndoe
Add user to group
Copy permissions from existing user
Attach existing policies directly
Attach one or more existing policies directly to the users or create a new policy. Learn more
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Refresh
Filter: Policy type
Search
Showing 332 results
Policy name
Type
Attachments
Description
AdministratorAccess
Job function
1
Provides full access to AWS services and resources.
AlexaForBusinessDe...
AWS managed
0
Provide device setup access to AlexaForBusiness s...
AlexaForBusinessFul...
AWS managed
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Grants full access to AlexaForBusiness resources an...
AlexaForBusinessGa...
AWS managed
0
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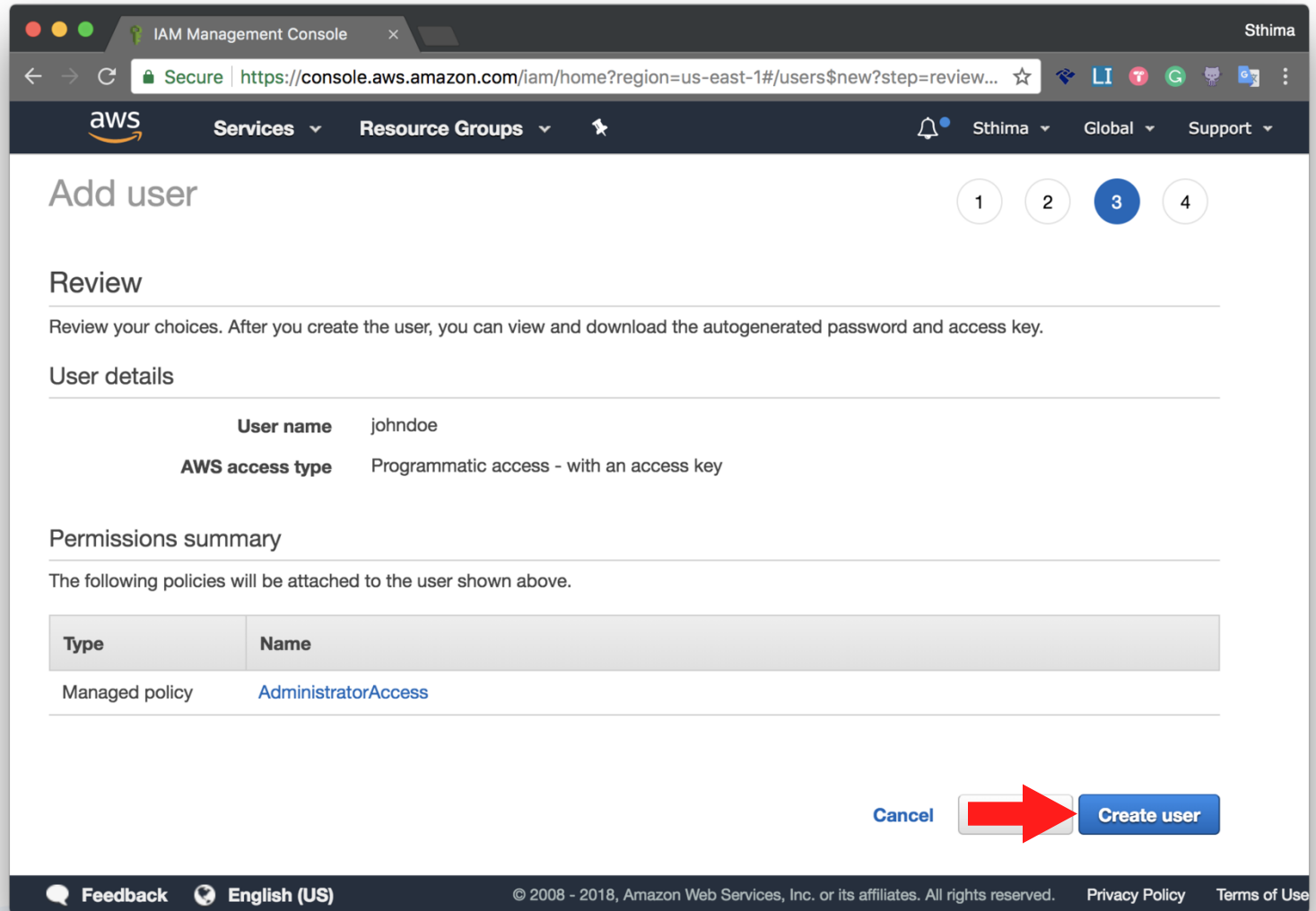
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aws
Services
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Support
Add user
1
2
3
4
Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
User details
User name
johndoe
AWS access type
Programmatic access - with an access key
Permissions summary
The following policies will be attached to the user shown above.
Type
Name
Managed policy
AdministratorAccess
Cancel
Create user
Feedback
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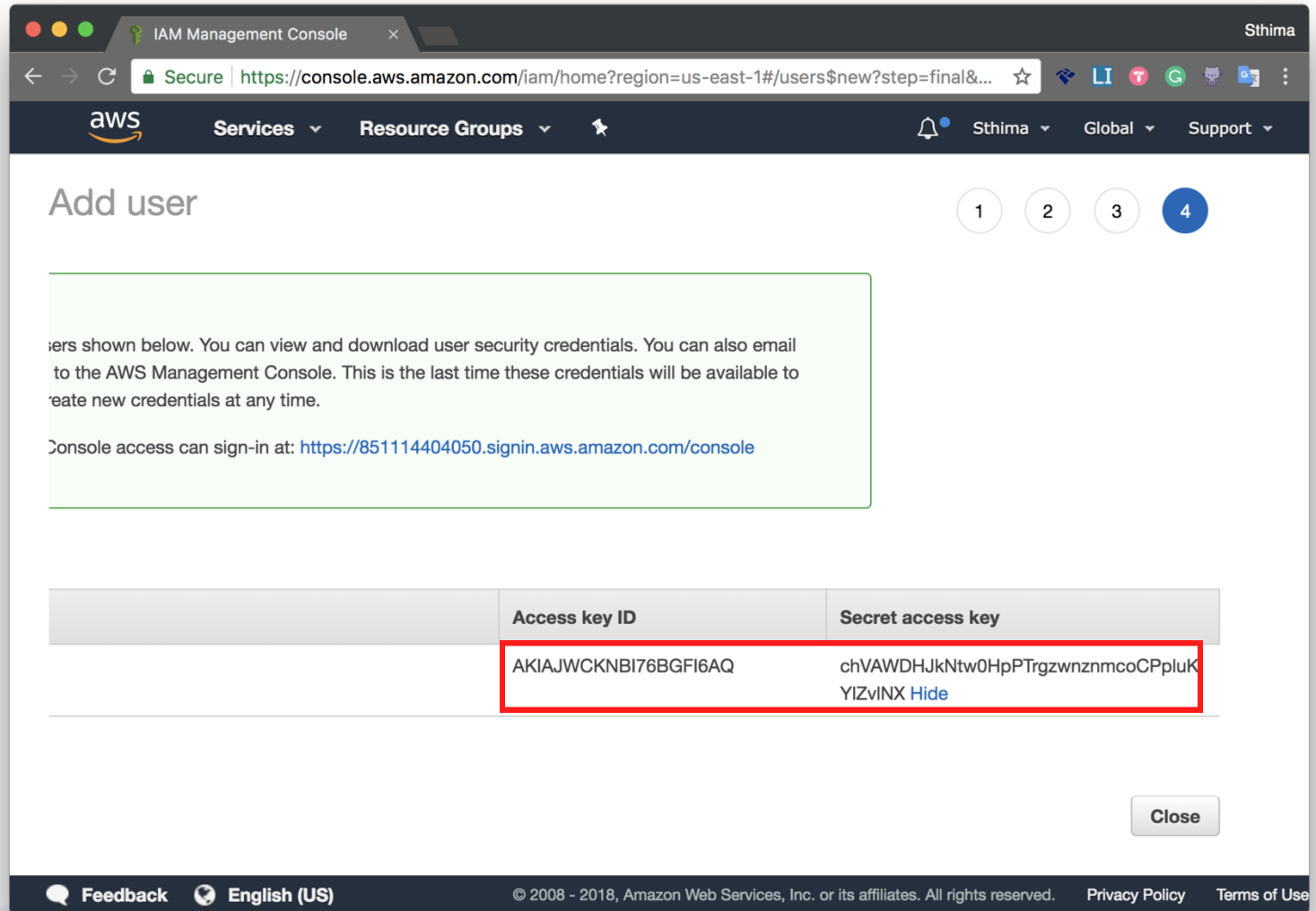
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aws
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Global
Support
Add user
1
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4
ers shown below. You can view and download user security credentials. You can also email
to the AWS Management Console. This is the last time these credentials will be available to
eate new credentials at any time.
Console access can sign-in at: https://851114404050.signin.aws.amazon.com/console
Access key ID
Secret access key
AKIAJWCKNBI76BGFI6AQ
chVAWDHJkNtw0HpPTrgzwnznmcoCPpluK
YIZvINX Hide
Close
Feedback
English (US)
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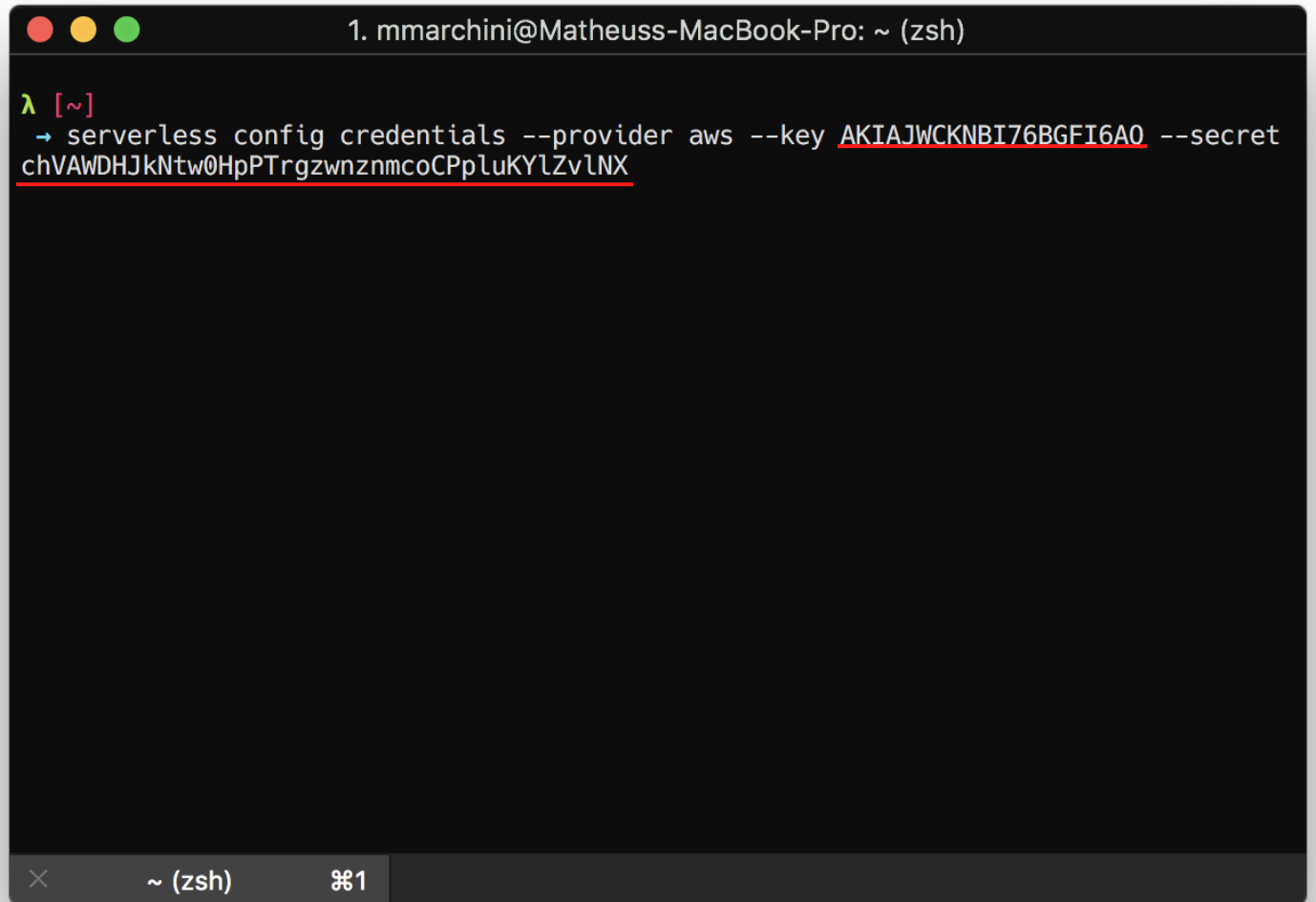
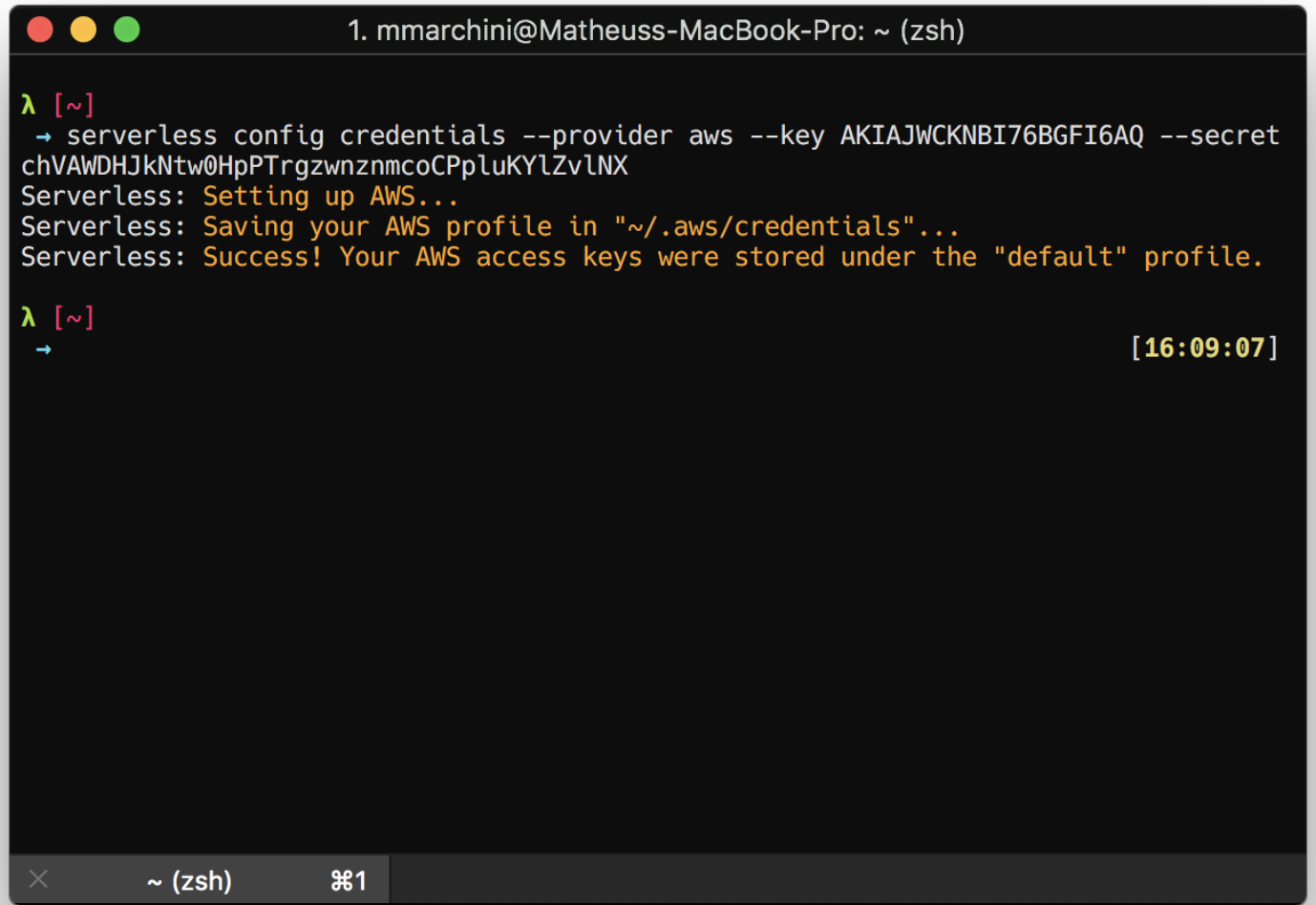
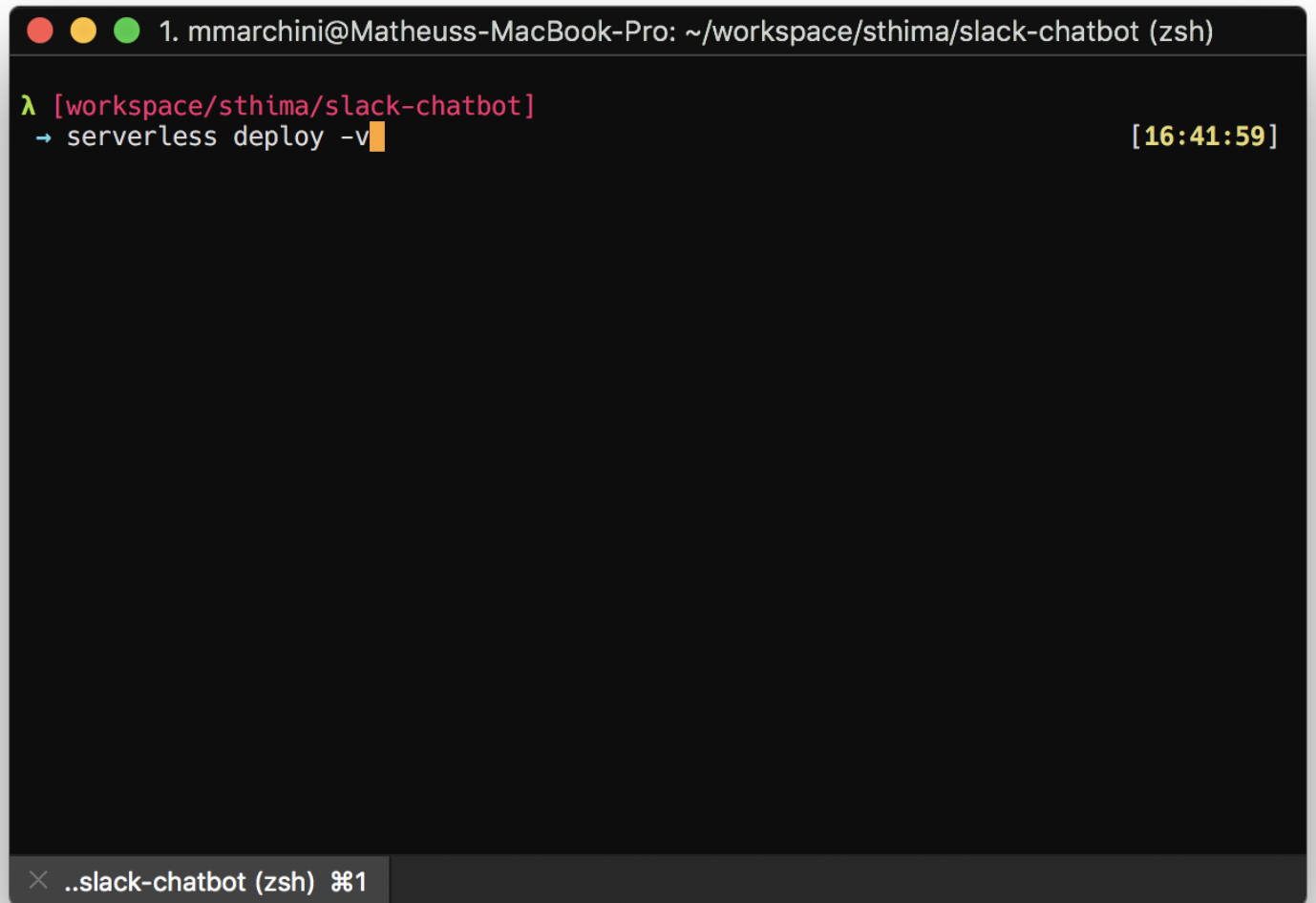
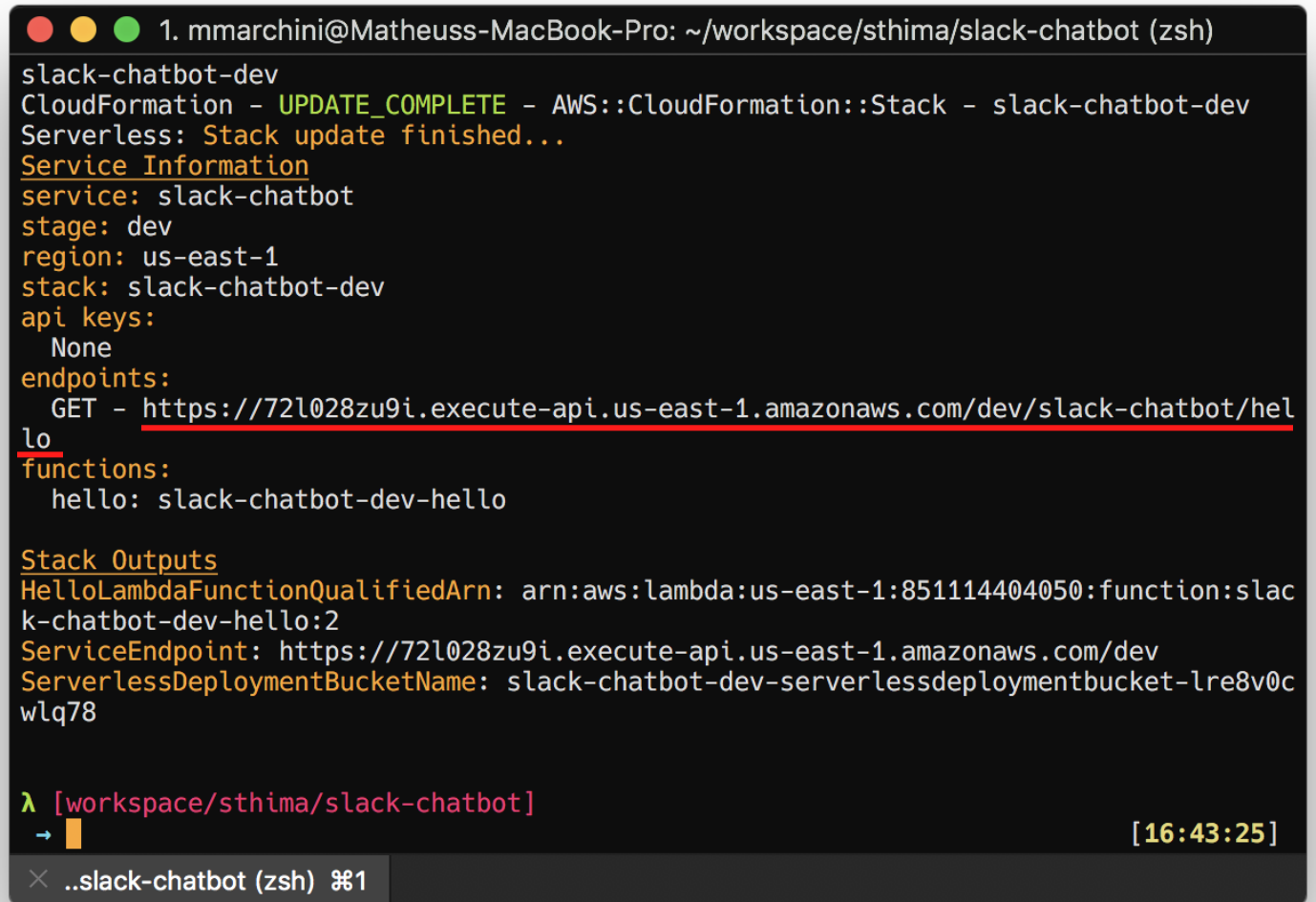
Privacy Policy
Terms of Use

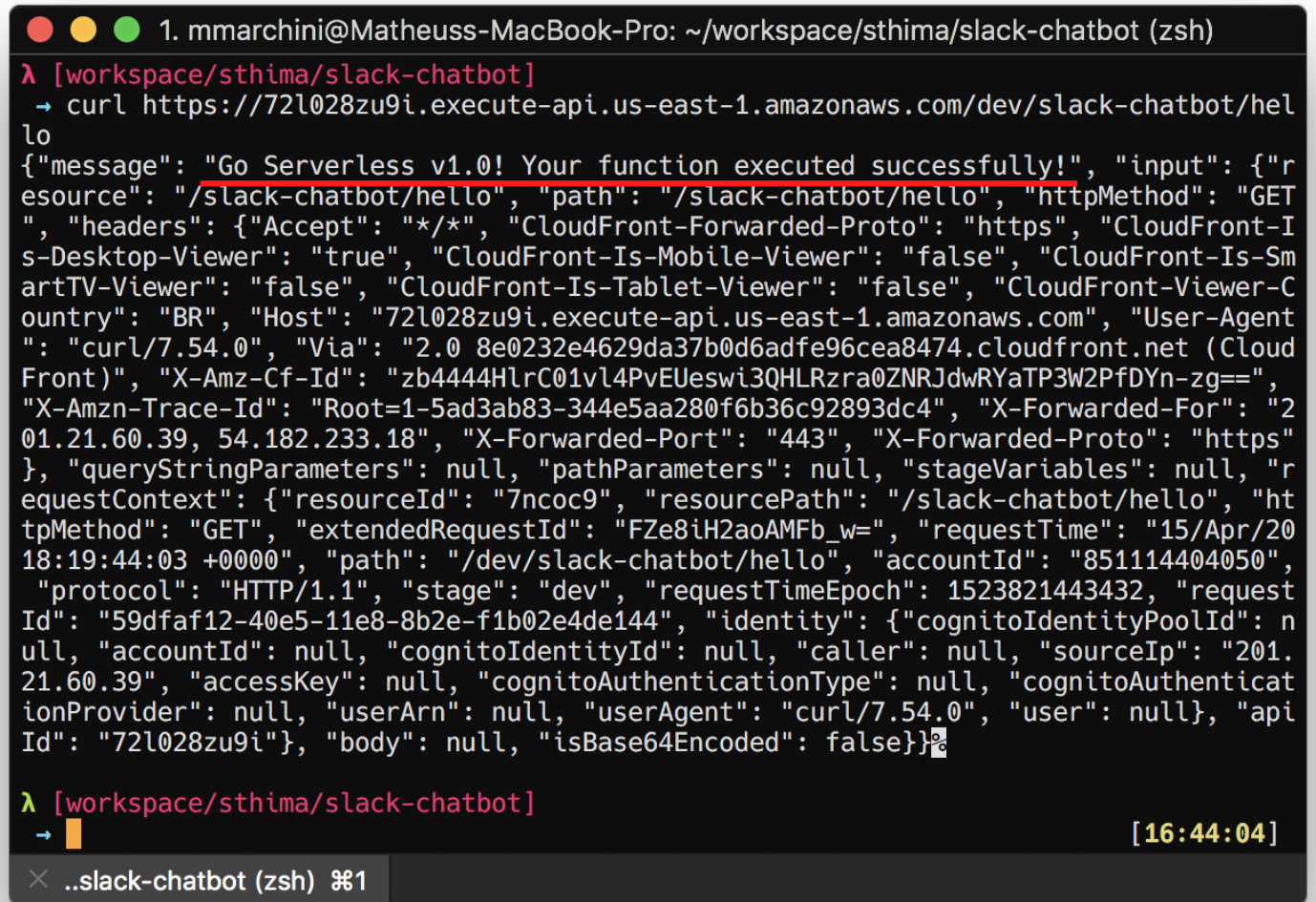

1. mmarchini@Matheuss-MacBook-Pro: ~ (zsh)
λ [~]
→ serverless config credentials --provider aws --key AKIAJWCKNBI76BGFI6AQ --secret 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
~ (zsh) ⌘1


1. mmarchini@Matheuss-MacBook-Pro: ~ (zsh)
λ [~]
→ serverless config credentials --provider aws --key AKIAJWCKNBI76BGFI6AQ --secret chVAWDHJkNtw0HpPTrgzwnznmcoCPpluKYlZvlNX
Serverless: Setting up AWS...
Serverless: Saving your AWS profile in "~/.aws/credentials"...
Serverless: Success! Your AWS access keys were stored under the "default" profile.
λ [~]
→
[16:09:07]
~ (zsh) ⌘1

- Instalar Serverless e Criar projeto
- Configurar Credenciais da AWS
- Fazer deploy no AWS Lambda
- Configurar integração Slack <-> Dialogflow
- Criar **Intenção** no Dialogflow
- Configurar Webhook no Dialogflow
- Implementar resposta no AWS Lambda


1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima/slack-chatbot (zsh)
λ [workspace/sthima/slack-chatbot]
→ serverless deploy -v
[16:41:59]
..slack-chatbot (zsh) ⌘1


1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima/slack-chatbot (zsh)
slack-chatbot-dev
CloudFormation - UPDATE_COMPLETE - AWS::CloudFormation::Stack - slack-chatbot-dev
Serverless: Stack update finished...
Service Information
service: slack-chatbot
stage: dev
region: us-east-1
stack: slack-chatbot-dev
api keys:
None
endpoints:
GET - https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev/slack-chatbot/hello
functions:
hello: slack-chatbot-dev-hello
Stack Outputs
HelloLambdaFunctionQualifiedArn: arn:aws:lambda:us-east-1:851114404050:function:slack-chatbot-dev-hello:2
ServiceEndpoint: https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev
ServerlessDeploymentBucketName: slack-chatbot-dev-serverlessdeploymentbucket-lre8v0cwlq78
λ [workspace/sthima/slack-chatbot]
→
[16:43:25]
..slack-chatbot (zsh) ⌘1


1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima/slack-chatbot (zsh)
λ [workspace/sthima/slack-chatbot]
→ curl https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev/slack-chatbot/hello
{"message": "Go Serverless v1.0! Your function executed successfully!", "input": {"resource": "/slack-chatbot/hello", "path": "/slack-chatbot/hello", "httpMethod": "GET", "headers": {"Accept": "*/*", "CloudFront-Forwarded-Proto": "https", "CloudFront-Is-Desktop-Viewer": "true", "CloudFront-Is-Mobile-Viewer": "false", "CloudFront-Is-SmartTV-Viewer": "false", "CloudFront-Is-Tablet-Viewer": "false", "CloudFront-Viewer-Country": "BR", "Host": "72l028zu9i.execute-api.us-east-1.amazonaws.com", "User-Agent": "curl/7.54.0", "Via": "2.0 8e0232e4629da37b0d6adfe96cea8474.cloudfront.net (CloudFront)", "X-Amz-Cf-Id": "zb4444HlrC01vl4PvEUeswi3QHLRzra0ZNRJdwRYaTP3W2PfDYn-zg==", "X-Amzn-Trace-Id": "Root=1-5ad3ab83-344e5aa280f6b36c92893dc4", "X-Forwarded-For": "201.21.60.39, 54.182.233.18", "X-Forwarded-Port": "443", "X-Forwarded-Proto": "https"}, "queryStringParameters": null, "pathParameters": null, "stageVariables": null, "requestContext": {"resourceId": "7ncoc9", "resourcePath": "/slack-chatbot/hello", "httpMethod": "GET", "extendedRequestId": "FZe8iH2aoAMFb_w=", "requestTime": "15/Apr/2018:19:44:03 +0000", "path": "/dev/slack-chatbot/hello", "accountId": "851114404050", "protocol": "HTTP/1.1", "stage": "dev", "requestTimeEpoch": 1523821443432, "requestId": "59dfaf12-40e5-11e8-8b2e-f1b02e4de144", "identity": {"cognitoIdentityPoolId": null, "accountId": null, "cognitoIdentityId": null, "caller": null, "sourceIp": "201.21.60.39", "accessKey": null, "cognitoAuthenticationType": null, "cognitoAuthenticationProvider": null, "userArn": null, "userAgent": "curl/7.54.0", "user": null}, "apiId": "72l028zu9i"}, "body": null, "isBase64Encoded": false}}%
λ [workspace/sthima/slack-chatbot]
→
[16:44:04]
..slack-chatbot (zsh) ⌘1

- Instalar Serverless e Criar projeto
- Configurar Credenciais da AWS
- Fazer deploy no AWS Lambda
- Configurar integração Slack <-> Dialogflow
- Criar **Intenção** no Dialogflow
- Configurar Webhook no Dialogflow
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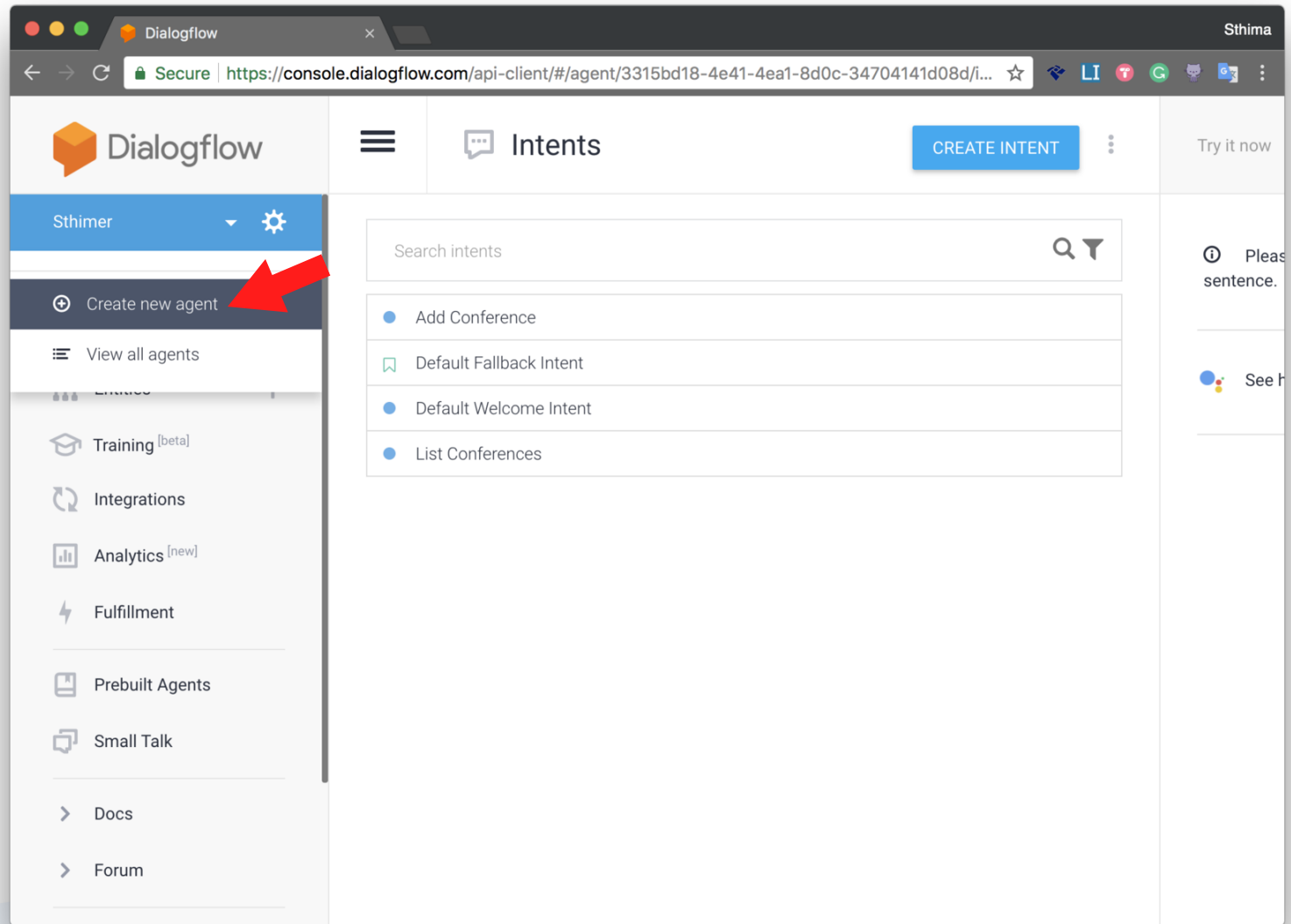
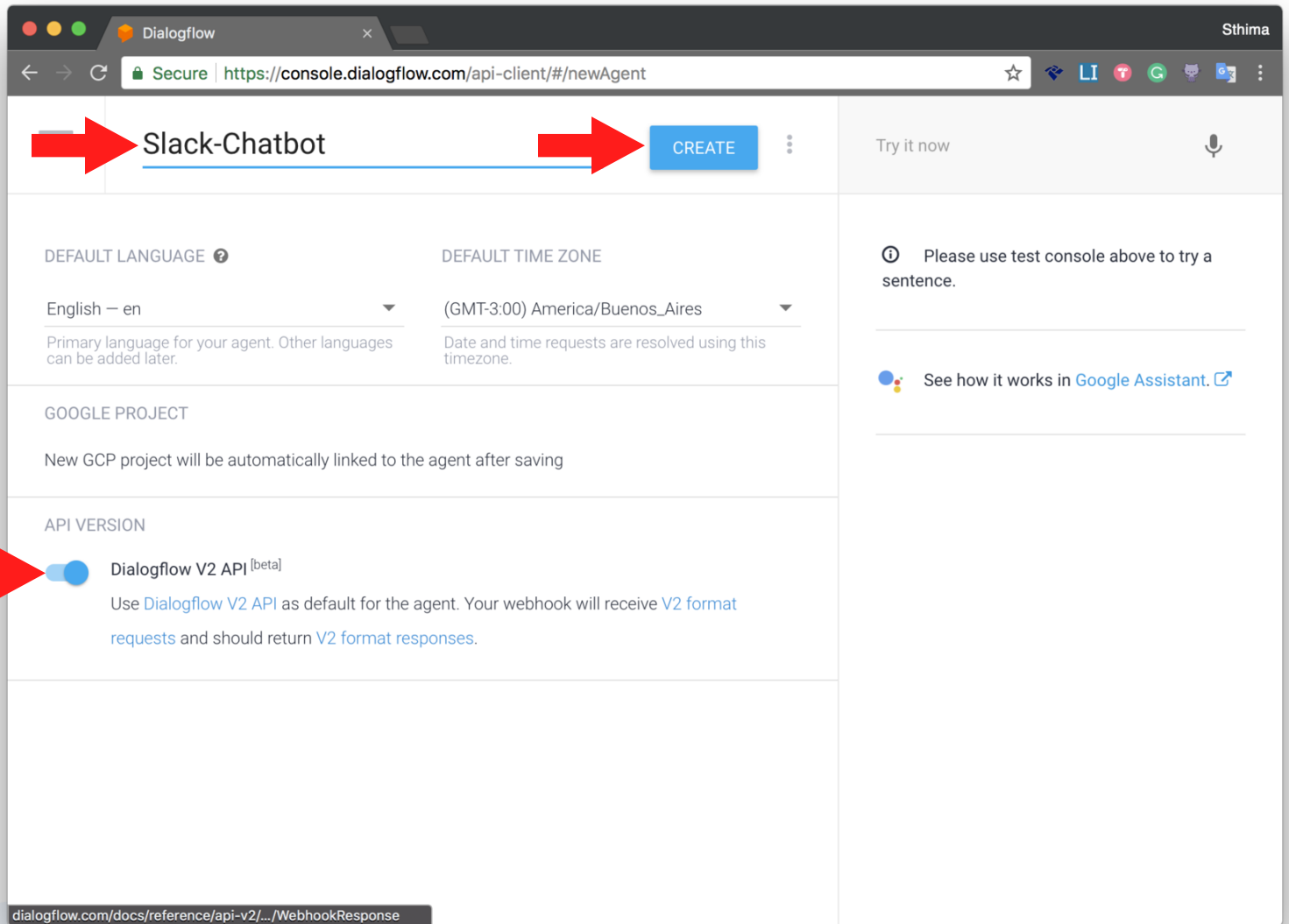
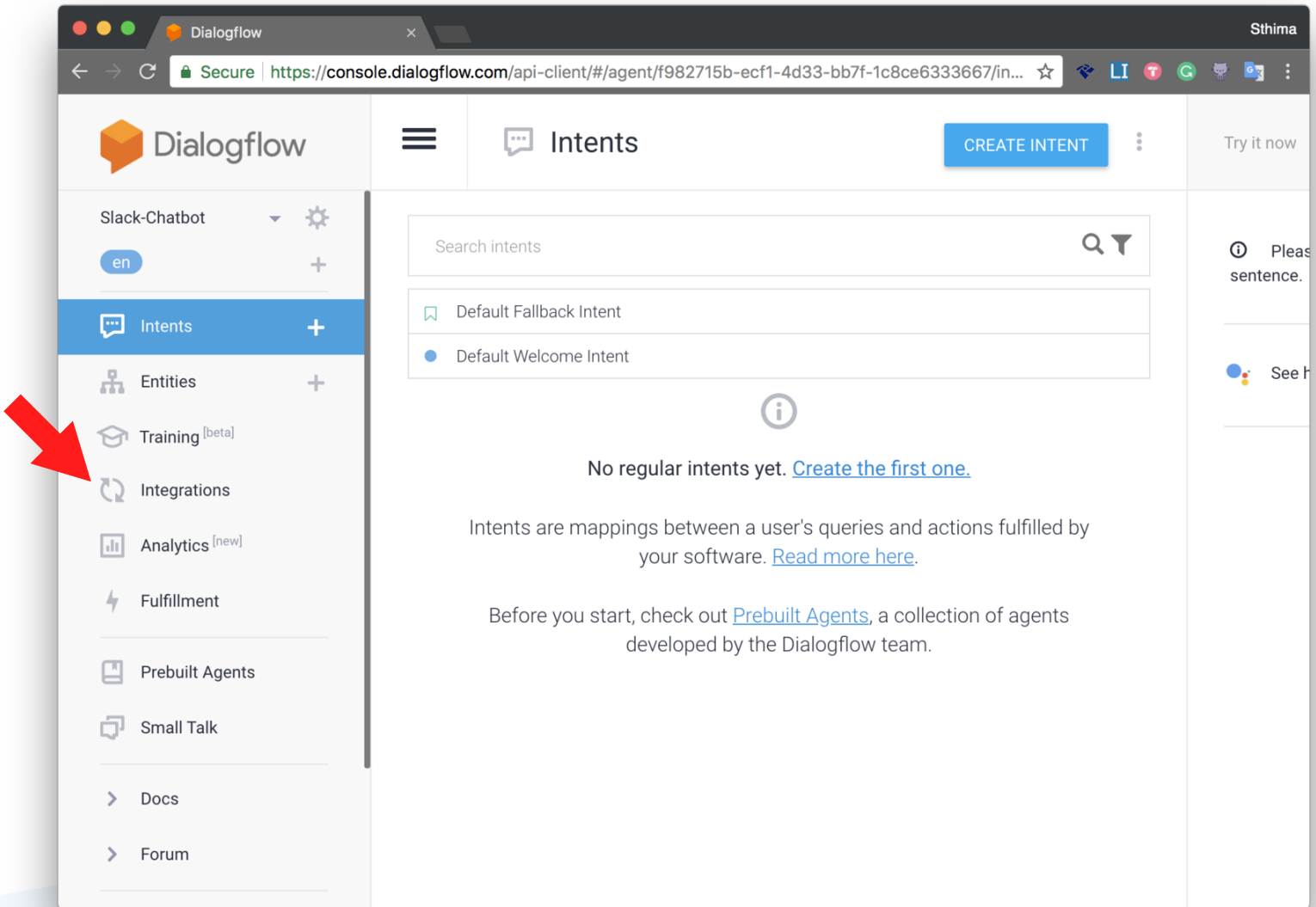
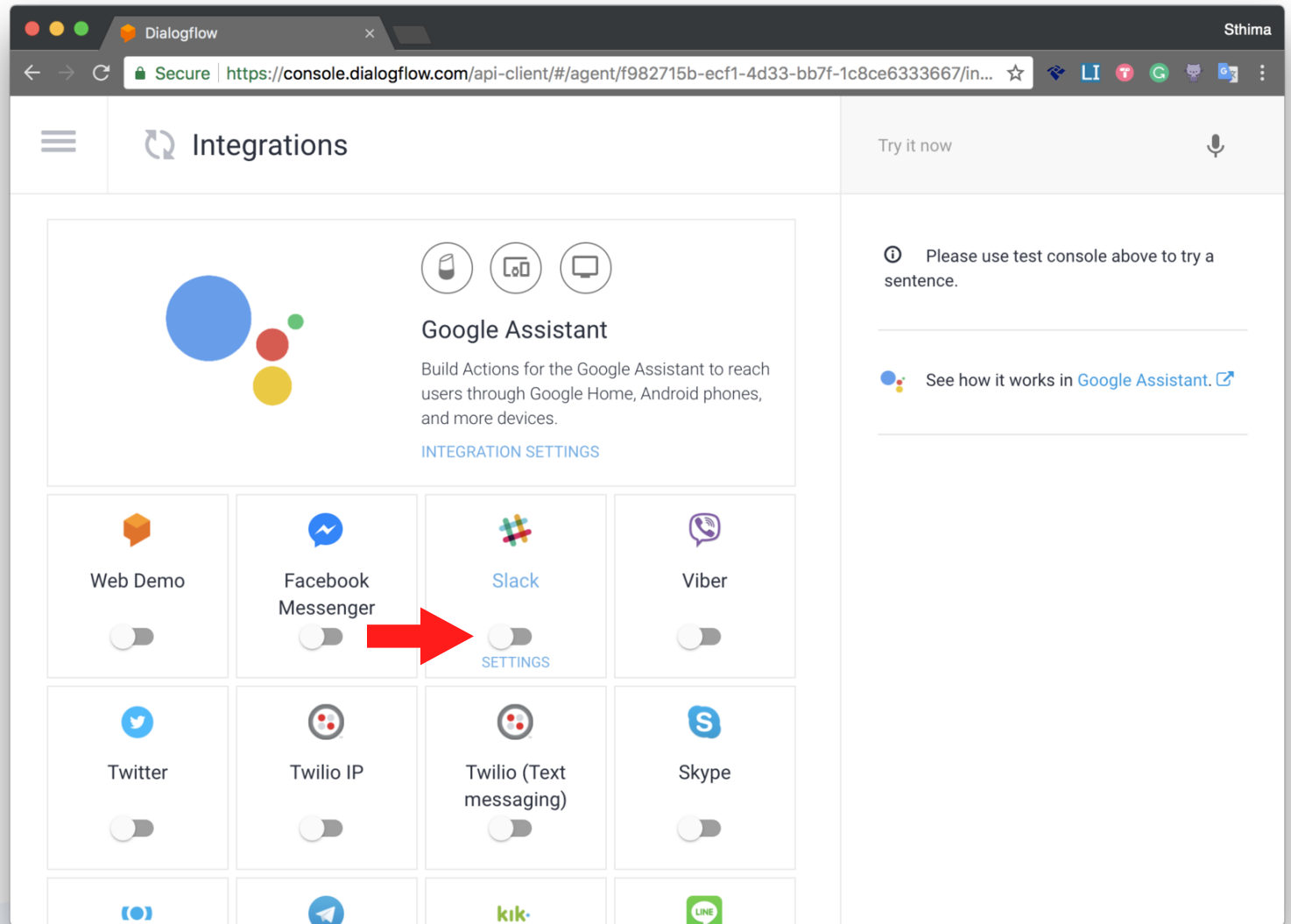
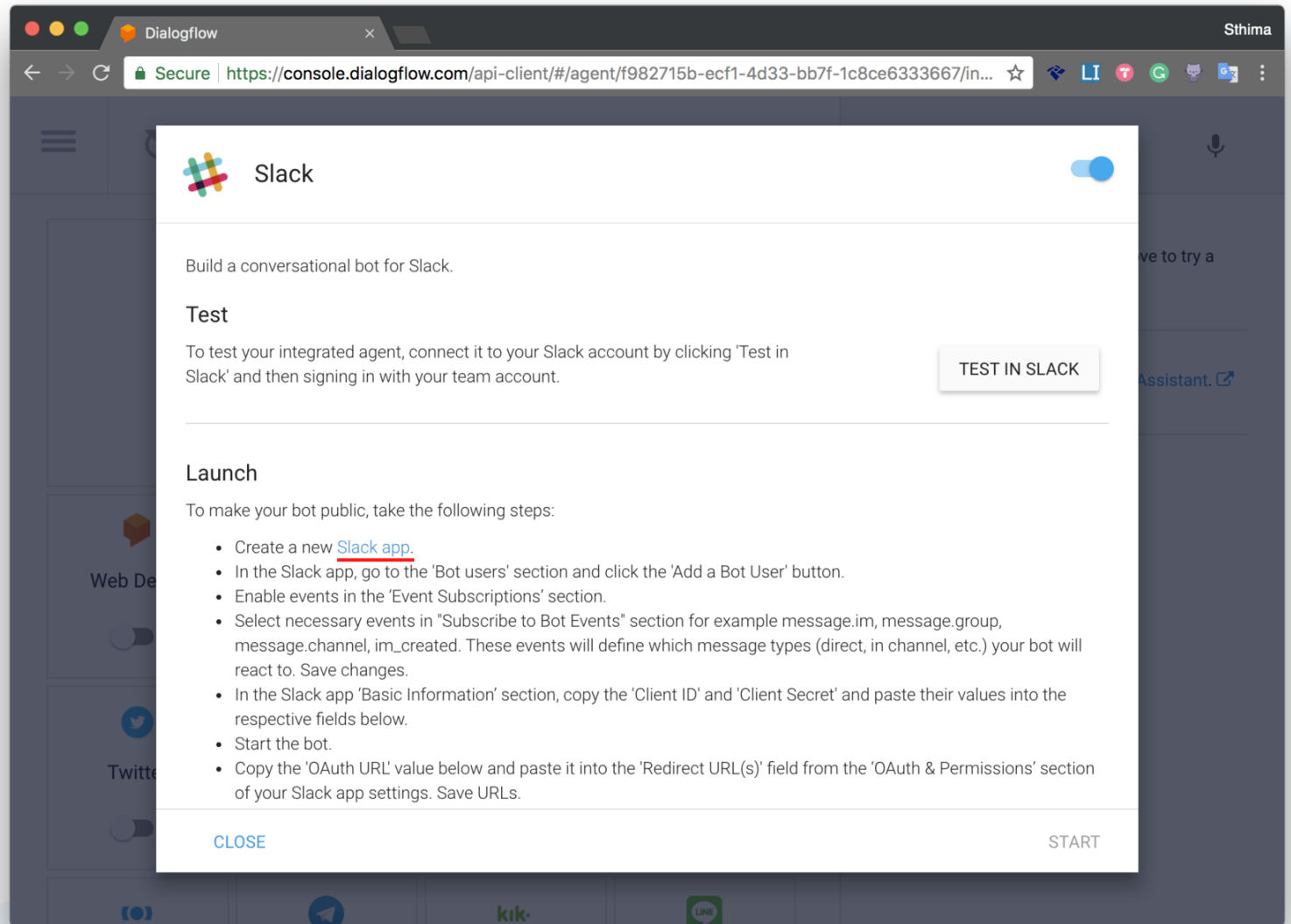
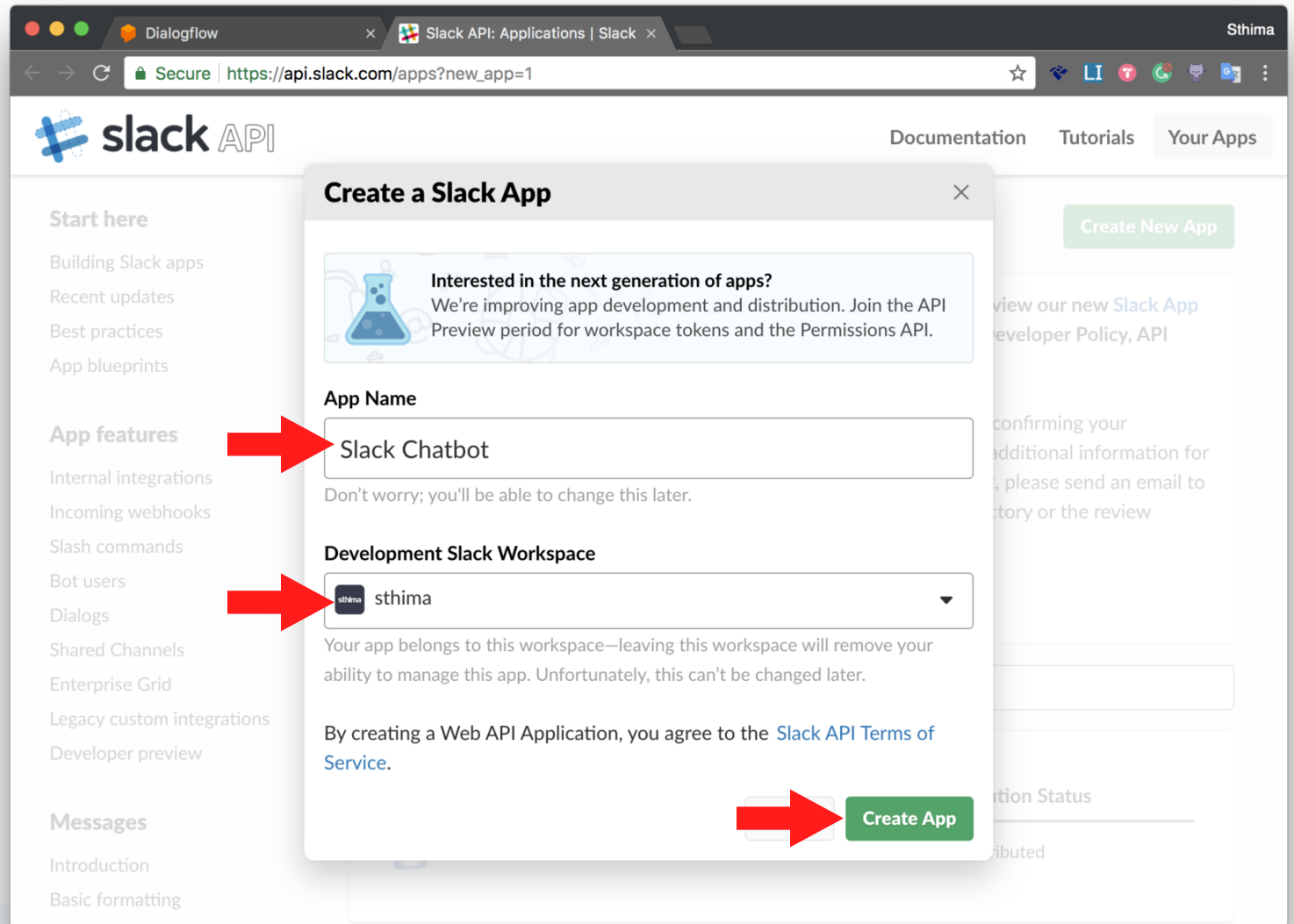

Dialogflow
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/3315bd18-4e41-4ea1-8d0c-34704141d08d/i...
Dialogflow
Intents
CREATE INTENT
Try it now
Sthimer
Create new agent
View all agents
Training [beta]
Integrations
Analytics [new]
Fulfillment
Prebuilt Agents
Small Talk
Docs
Forum
Search intents
Add Conference
Default Fallback Intent
Default Welcome Intent
List Conferences
Pleas
sentence.
See h

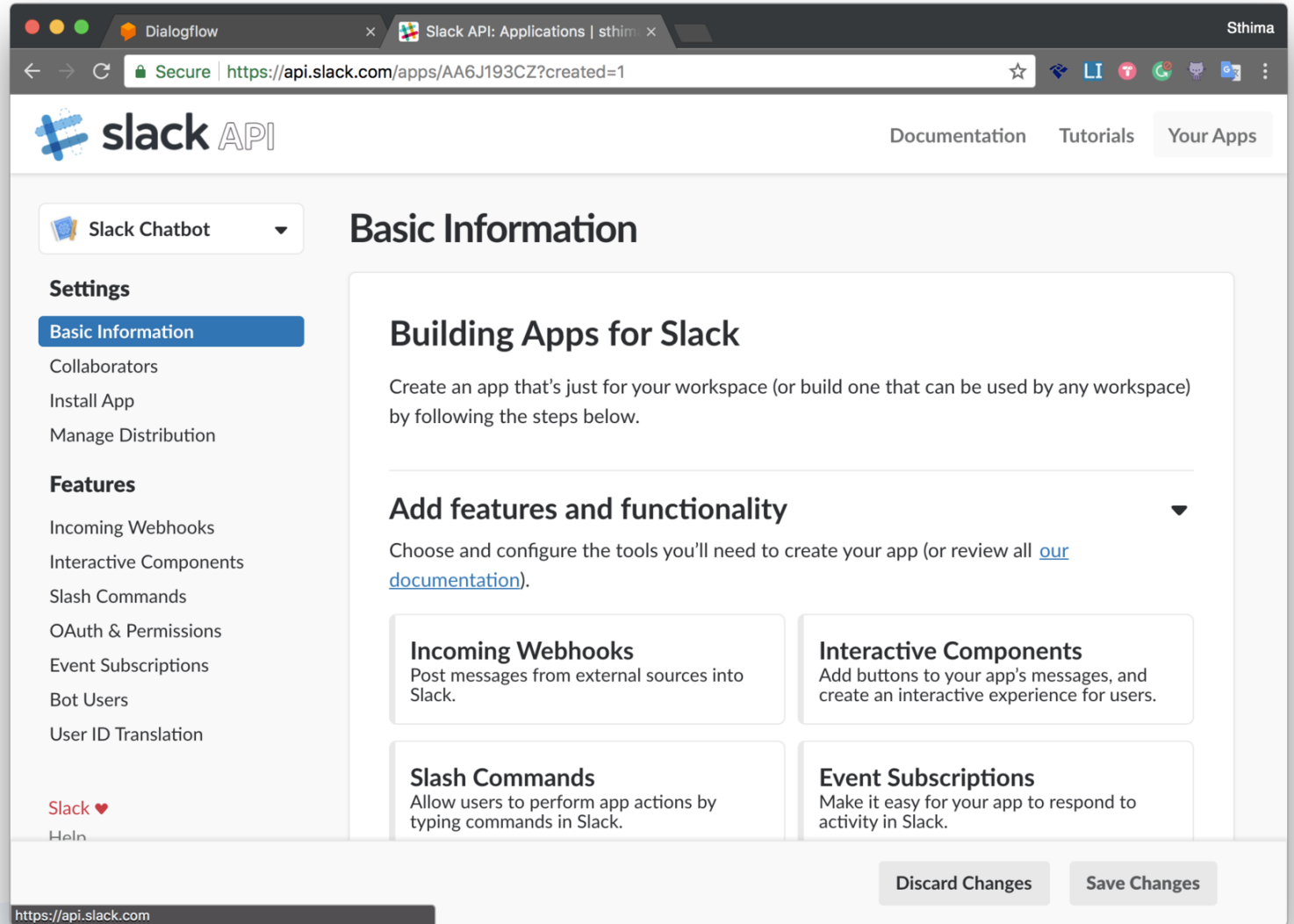

Dialogflow
Sthima
Secure
https://console.dialogflow.com/api-client/#/newAgent
Slack-Chatbot
CREATE
Try it now
DEFAULT LANGUAGE
English – en
Primary language for your agent. Other languages can be added later.
DEFAULT TIME ZONE
(GMT-3:00) America/Buenos_Aires
Date and time requests are resolved using this timezone.
Please use test console above to try a sentence.
See how it works in Google Assistant.
GOOGLE PROJECT
New GCP project will be automatically linked to the agent after saving
API VERSION
Dialogflow V2 API [beta]
Use Dialogflow V2 API as default for the agent. Your webhook will receive V2 format requests and should return V2 format responses.
dialogflow.com/docs/reference/api-v2/.../WebhookResponse


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Dialogflow
Intents
CREATE INTENT
Try it now
Slack-Chatbot
en
Intents
Entities
Training [beta]
Integrations
Analytics [new]
Fulfillment
Prebuilt Agents
Small Talk
Docs
Forum
Search intents
Default Fallback Intent
Default Welcome Intent
No regular intents yet. Create the first one.
Intents are mappings between a user's queries and actions fulfilled by your software. Read more here.
Before you start, check out Prebuilt Agents, a collection of agents developed by the Dialogflow team.
Pleas
sentence.
See h


Dialogflow
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Integrations
Try it now
Google Assistant
Build Actions for the Google Assistant to reach users through Google Home, Android phones, and more devices.
INTEGRATION SETTINGS
Please use test console above to try a sentence.
See how it works in Google Assistant.
Web Demo
Facebook Messenger
Slack
SETTINGS
Viber
Twitter
Twilio IP
Twilio (Text messaging)
Skype


Dialogflow
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Slack
Build a conversational bot for Slack.
Test
To test your integrated agent, connect it to your Slack account by clicking 'Test in Slack' and then signing in with your team account.
TEST IN SLACK
Launch
To make your bot public, take the following steps:
Create a new Slack app.
In the Slack app, go to the 'Bot users' section and click the 'Add a Bot User' button.
Enable events in the 'Event Subscriptions' section.
Select necessary events in "Subscribe to Bot Events" section for example message.im, message.group, message.channel, im_created. These events will define which message types (direct, in channel, etc.) your bot will react to. Save changes.
In the Slack app 'Basic Information' section, copy the 'Client ID' and 'Client Secret' and paste their values into the respective fields below.
Start the bot.
Copy the 'OAuth URL' value below and paste it into the 'Redirect URL(s)' field from the 'OAuth & Permissions' section of your Slack app settings. Save URLs.
CLOSE
START


Dialogflow
Slack API: Applications | Slack
Sthima
Secure
https://api.slack.com/apps?new_app=1
slack API
Documentation
Tutorials
Your Apps
Start here
Building Slack apps
Recent updates
Best practices
App blueprints
App features
Internal integrations
Incoming webhooks
Slash commands
Bot users
Dialogs
Shared Channels
Enterprise Grid
Legacy custom integrations
Developer preview
Messages
Introduction
Basic formatting
Create New App
Create a Slack App
Interested in the next generation of apps?
We're improving app development and distribution. Join the API Preview period for workspace tokens and the Permissions API.
App Name
Slack Chatbot
Don't worry; you'll be able to change this later.
Development Slack Workspace
sthima
Your app belongs to this workspace—leaving this workspace will remove your ability to manage this app. Unfortunately, this can't be changed later.
By creating a Web API Application, you agree to the Slack API Terms of Service.
Create App


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6J193CZ?created=1
slack API
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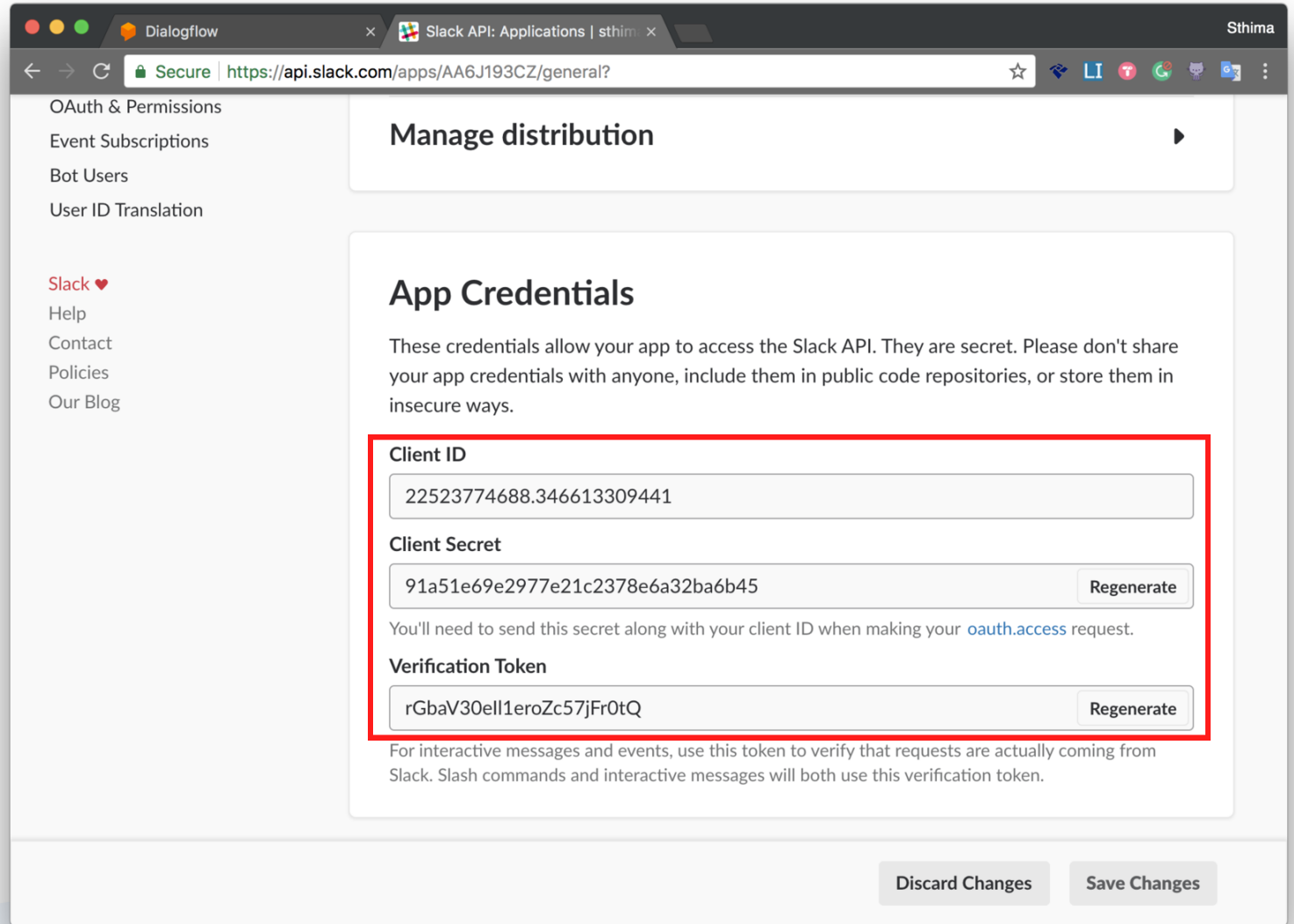
Manage Distribution
Features
Incoming Webhooks
Interactive Components
Slash Commands
OAuth & Permissions
Event Subscriptions
Bot Users
User ID Translation
Slack ♥
Help
Basic Information
Building Apps for Slack
Create an app that's just for your workspace (or build one that can be used by any workspace) by following the steps below.
Add features and functionality
Choose and configure the tools you'll need to create your app (or review all our documentation).
Incoming Webhooks
Post messages from external sources into Slack.
Interactive Components
Add buttons to your app's messages, and create an interactive experience for users.
Slash Commands
Allow users to perform app actions by typing commands in Slack.
Event Subscriptions
Make it easy for your app to respond to activity in Slack.
Discard Changes
Save Changes
https://api.slack.com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Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6J193CZ/general?
OAuth & Permissions
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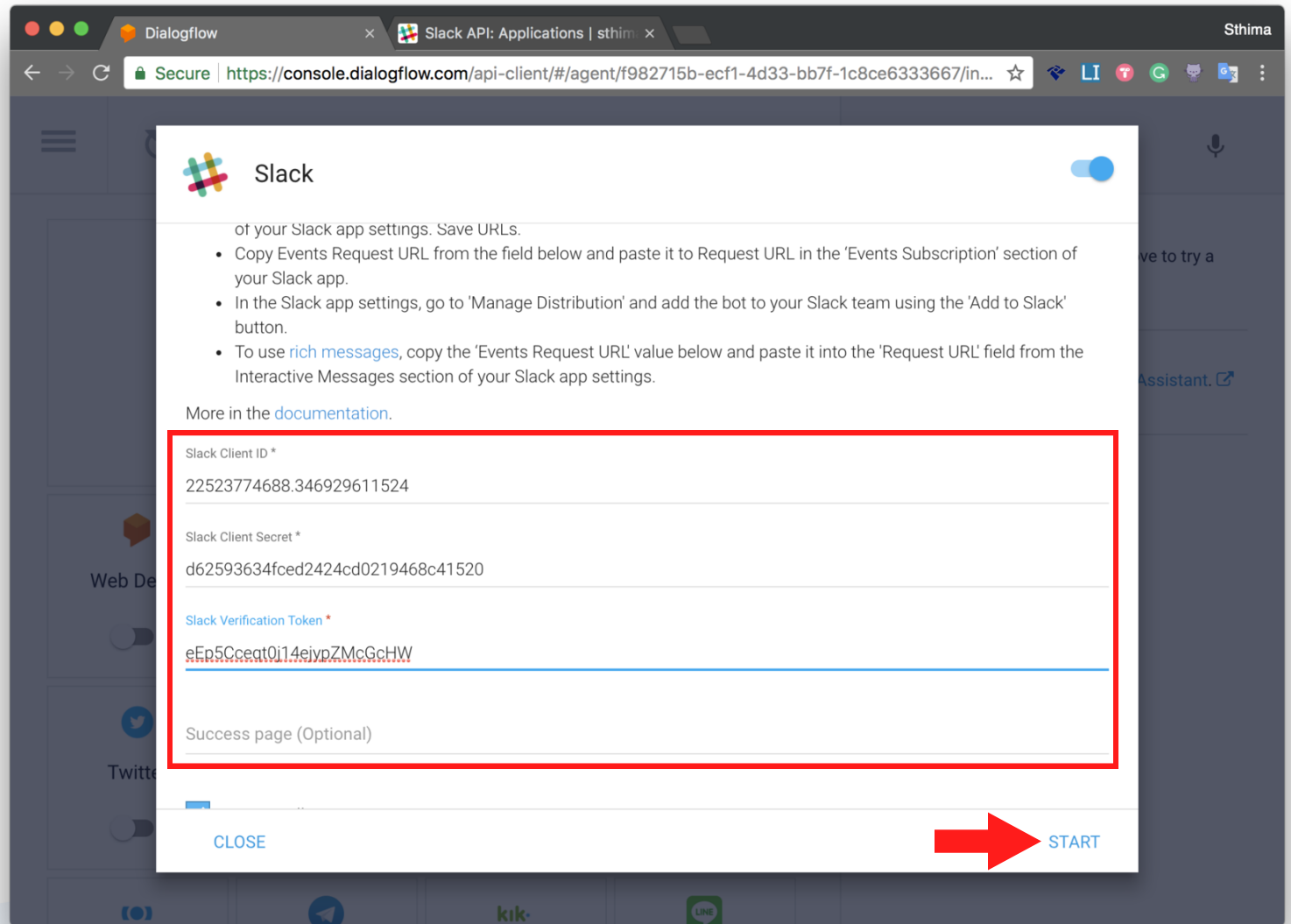
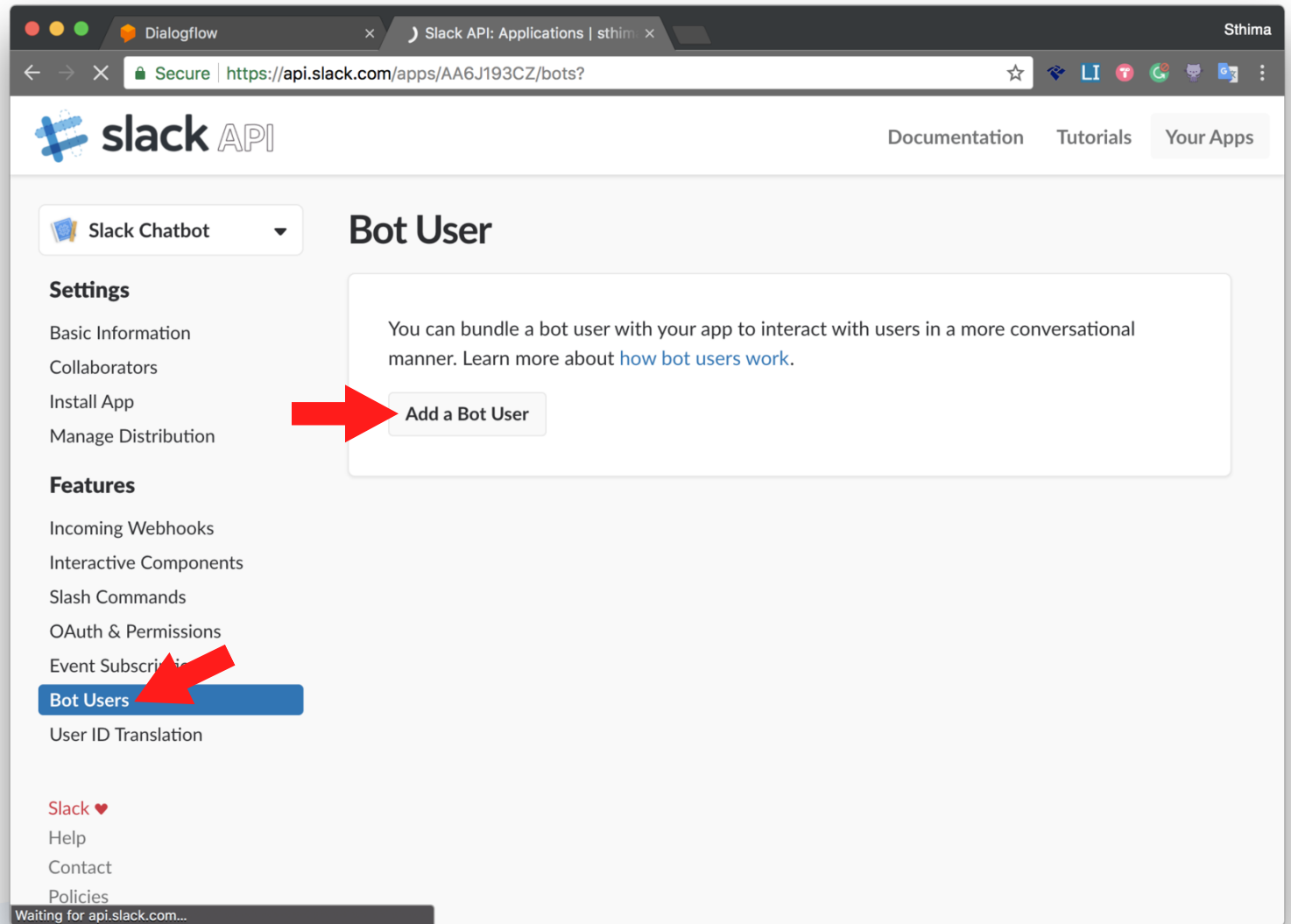
Manage distribution
App Credentials
These credentials allow your app to access the Slack API. They are secret. Please don't share your app credentials with anyone, include them in public code repositories, or store them in insecure ways.
Client ID
22523774688.346613309441
Client Secret
91a51e69e2977e21c2378e6a32ba6b45
Regenerate
You'll need to send this secret along with your client ID when making your oauth.access request.
Verification Token
rGbaV30eIl1eroZc57jFr0tQ
Regenerate
For interactive messages and events, use this token to verify that requests are actually coming from Slack. Slash commands and interactive messages will both use this verification token.
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Slack
of your Slack app settings. Save URLs.
Copy Events Request URL from the field below and paste it to Request URL in the 'Events Subscription' section of your Slack app.
In the Slack app settings, go to 'Manage Distribution' and add the bot to your Slack team using the 'Add to Slack' button.
To use rich messages, copy the 'Events Request URL' value below and paste it into the 'Request URL' field from the Interactive Messages section of your Slack app settings.
More in the documentation.
Slack Client ID *
22523774688.346929611524
Slack Client Secret *
d62593634fced2424cd0219468c41520
Slack Verification Token *
eEp5Cceqt0j14ejypZMcGcHW
Success page (Optional)
CLOSE
START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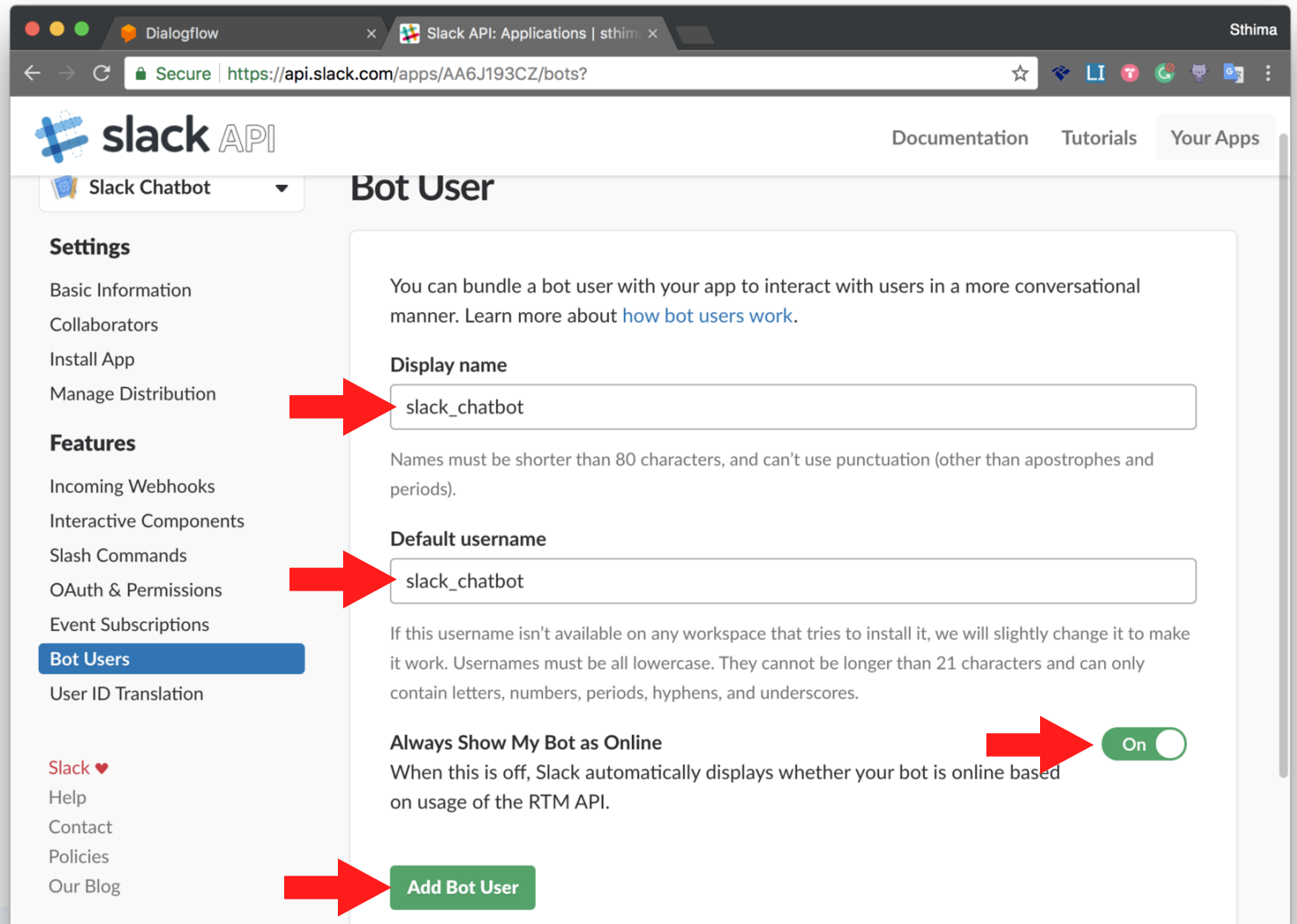
OAuth & Permissions
Event Subscri
Bot Users
User ID Translation
Slack ♥
Help
Contact
Policies
Bot User
You can bundle a bot user with your app to interact with users in a more conversational manner. Learn more about how bot users work.
Add a Bot User
Waiting for api.slack.com...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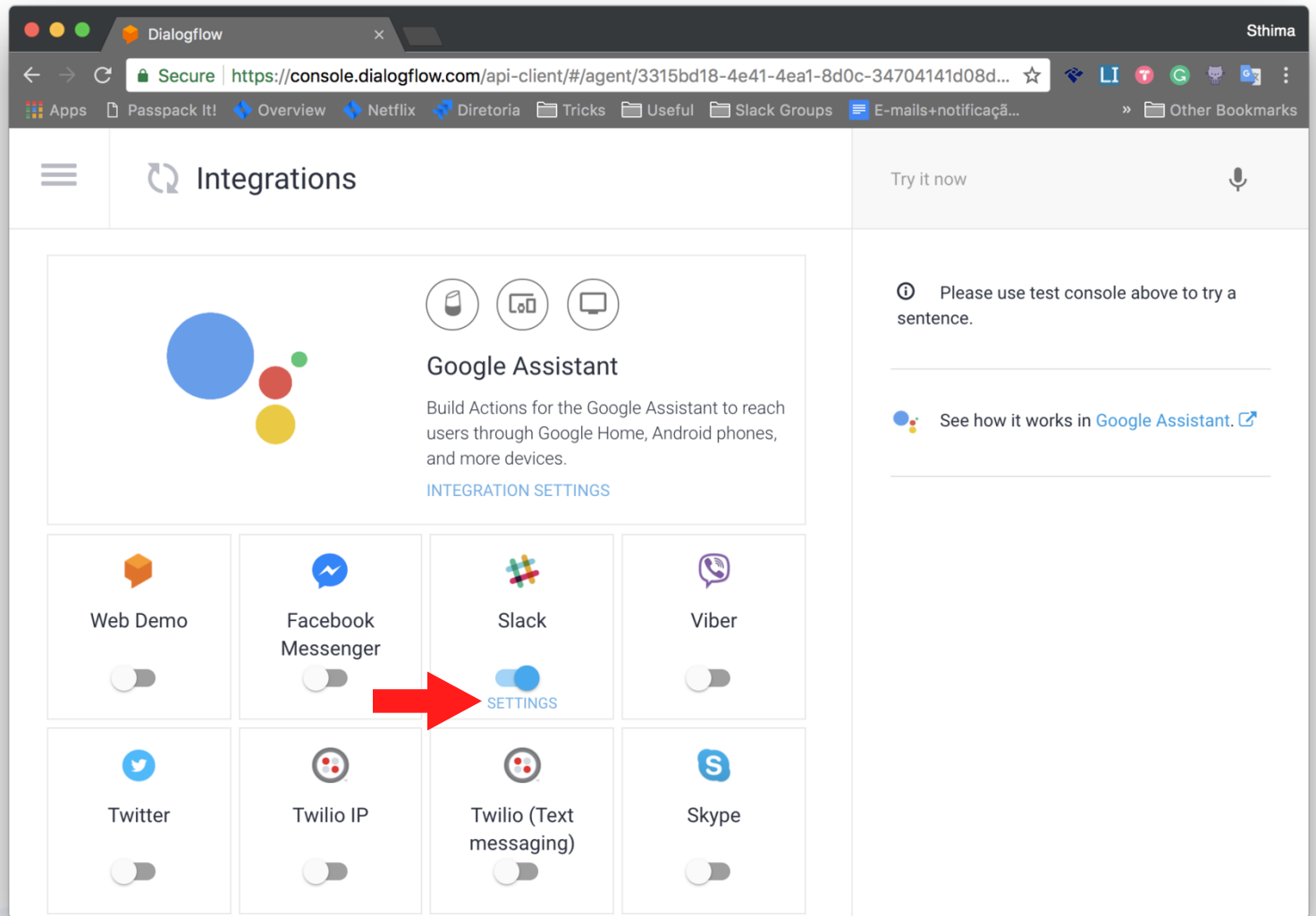
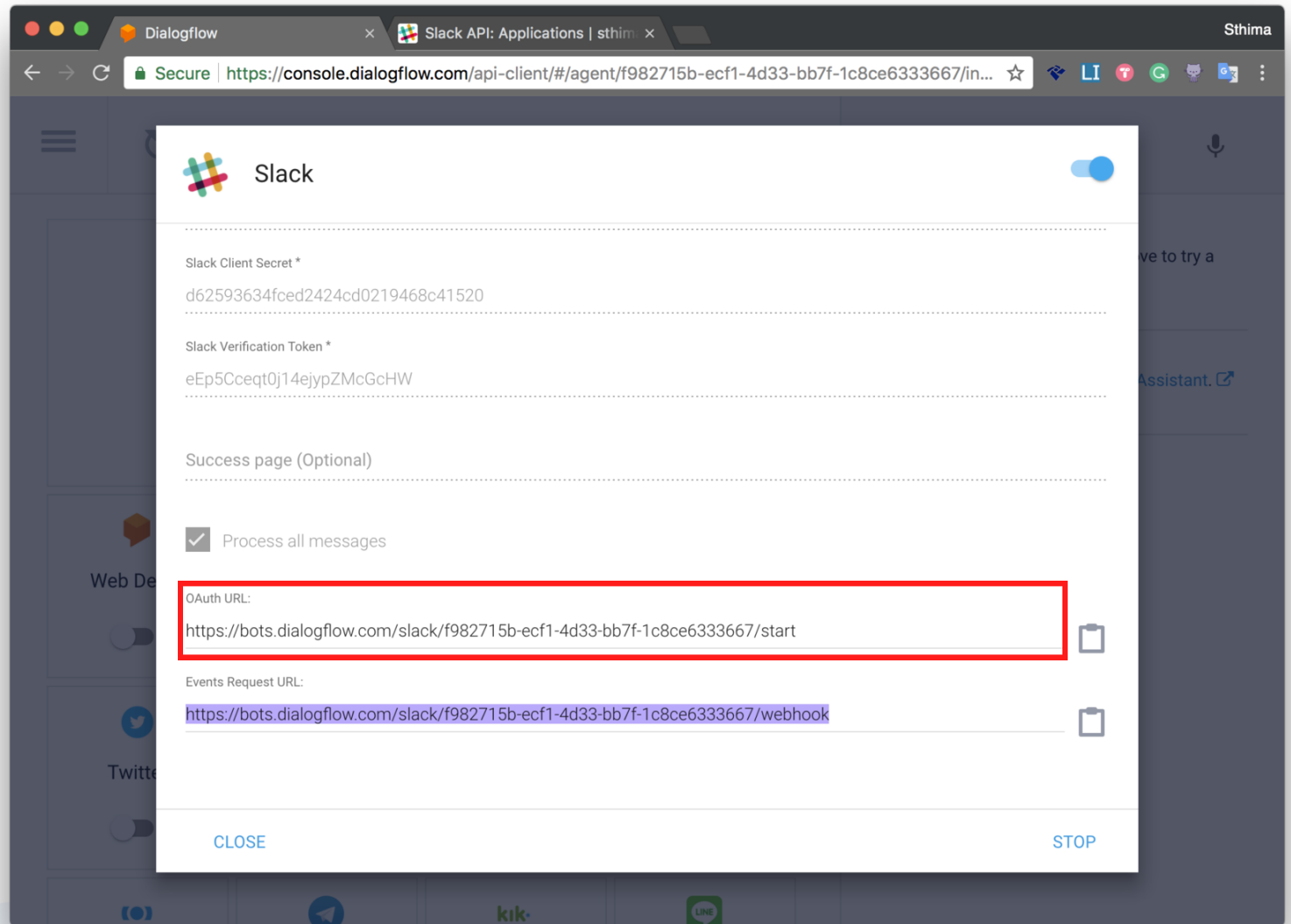
Event Subscriptions
Bot Users
User ID Translation
Slack ♥
Help
Contact
Policies
Our Blog
Bot User
You can bundle a bot user with your app to interact with users in a more conversational manner. Learn more about how bot users work.
Display name
slack_chatbot
Names must be shorter than 80 characters, and can't use punctuation (other than apostrophes and periods).
Default username
slack_chatbot
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


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/3315bd18-4e41-4ea1-8d0c-34704141d08d...
Apps
Passpack It!
Overview
Netflix
Diretoria
Tricks
Useful
Slack Groups
E-mails+notificaçã...
Other Bookmarks
Integrations
Try it now
Google Assistant
Build Actions for the Google Assistant to reach users through Google Home, Android phones, and more devices.
INTEGRATION SETTINGS
Please use test console above to try a sentence.
See how it works in Google Assistant.
Web Demo
Facebook Messenger
Slack
SETTINGS
Viber
Twitter
Twilio IP
Twilio (Text messaging)
Skype


Dialogflow
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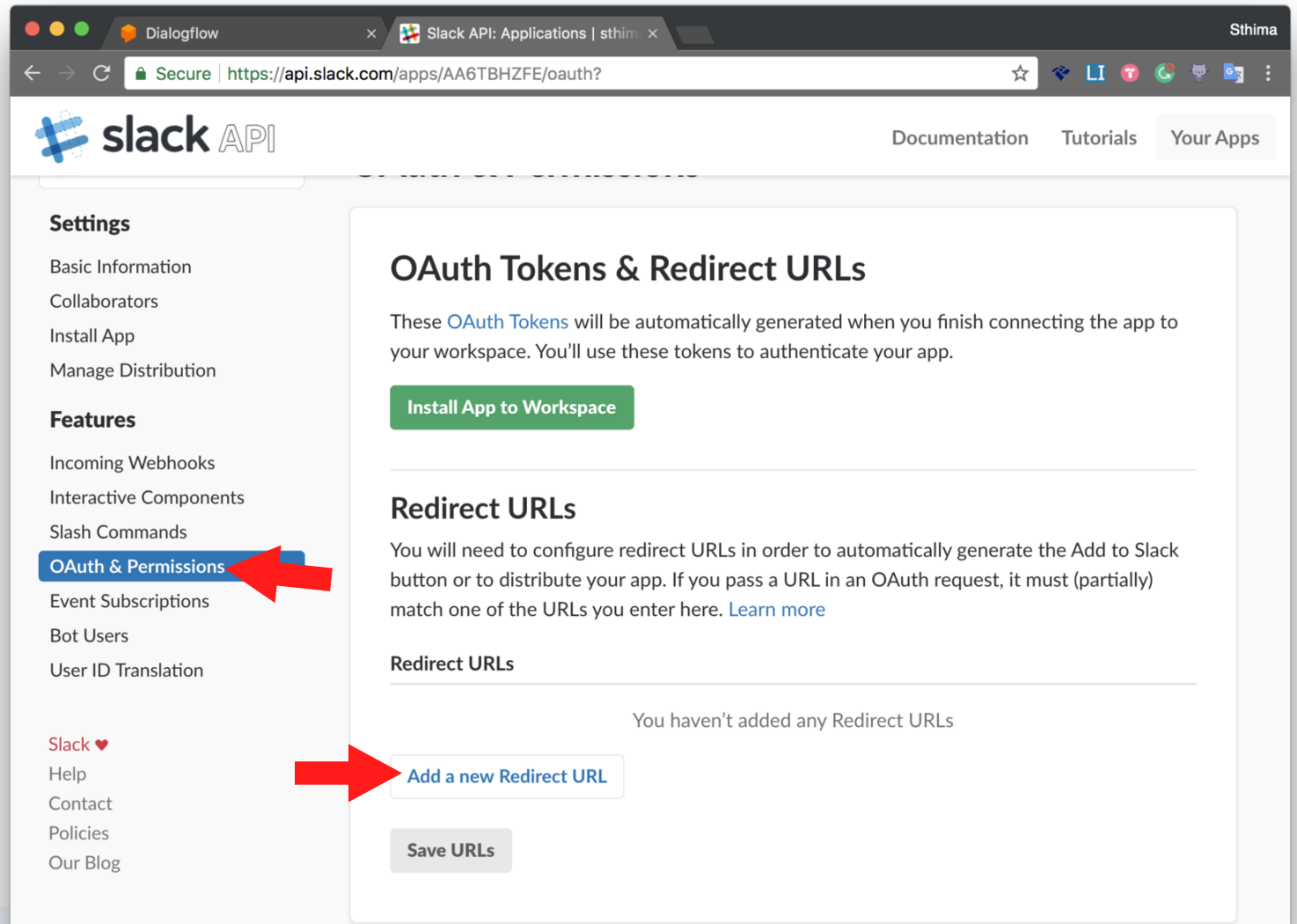
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Slack
Slack Client Secret *
d62593634fced2424cd0219468c41520
Slack Verification Token *
eEp5Cceqt0j14ejypZMcGcHW
Success page (Optional)
Process all messages
OAuth URL:
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6333667/start
Events Request URL:
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6333667/webhook
CLOSE
STOP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Slack ♥
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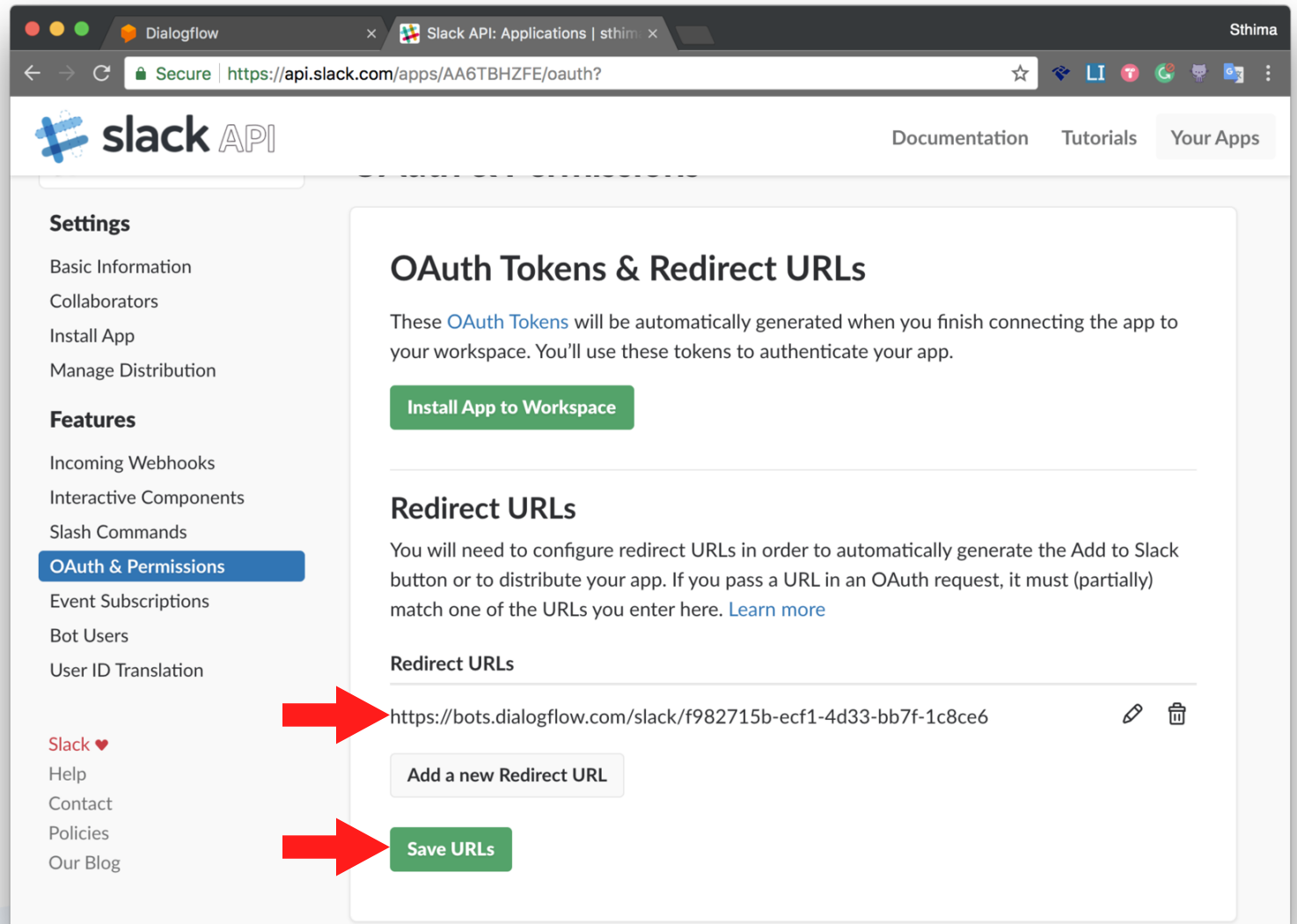
Our Blog
OAuth Tokens & Redirect URLs
These OAuth Tokens will be automatically generated when you finish connecting the app to your workspace. You'll use these tokens to authenticate your app.
Install App to Workspace
Redirect URLs
You will need to configure redirect URLs in order to automatically generate 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
Redirect URLs
You haven't added any Redirect URLs
Add a new Redirect URL
Save URLs


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/oauth?
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Manage Distribution
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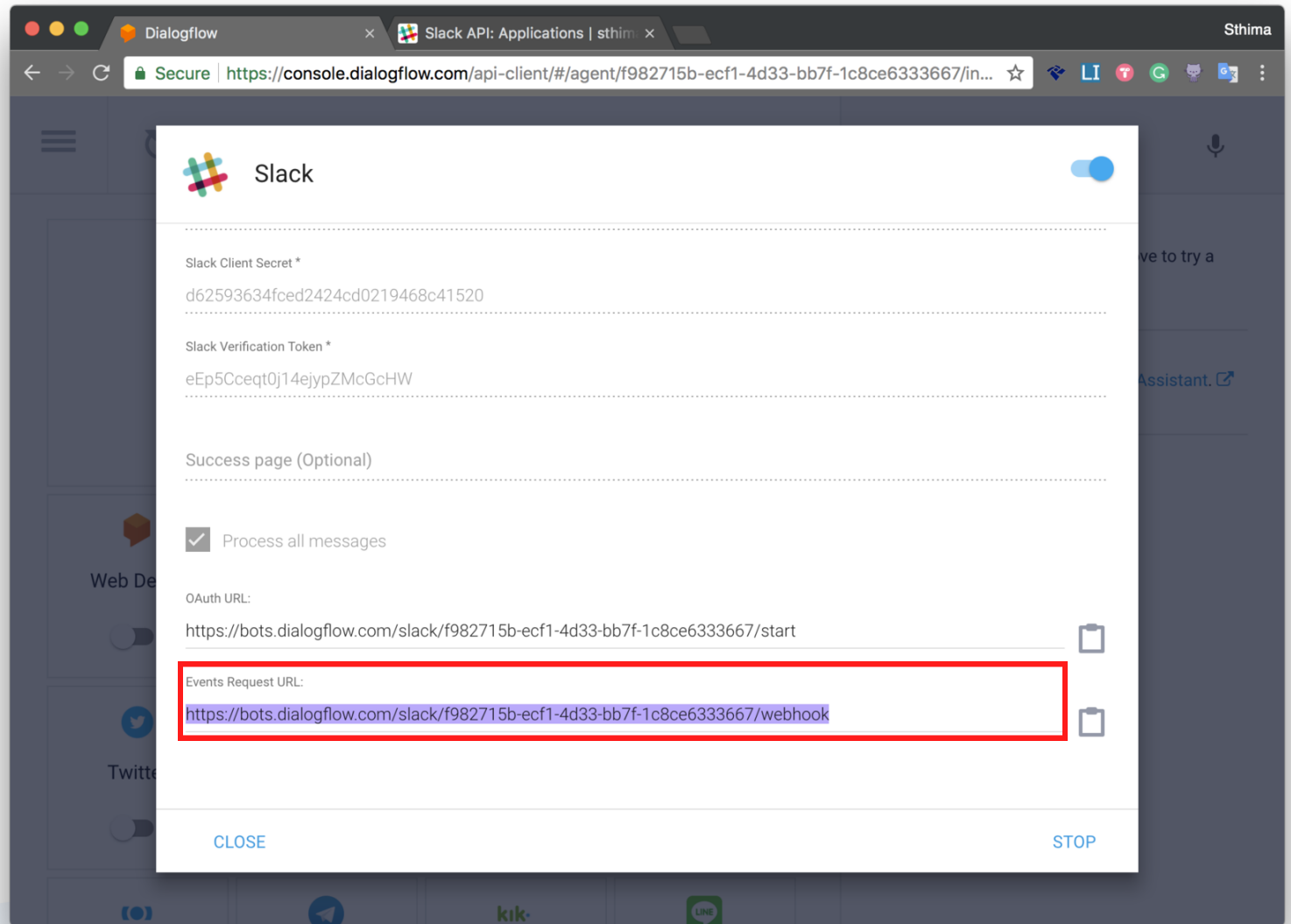
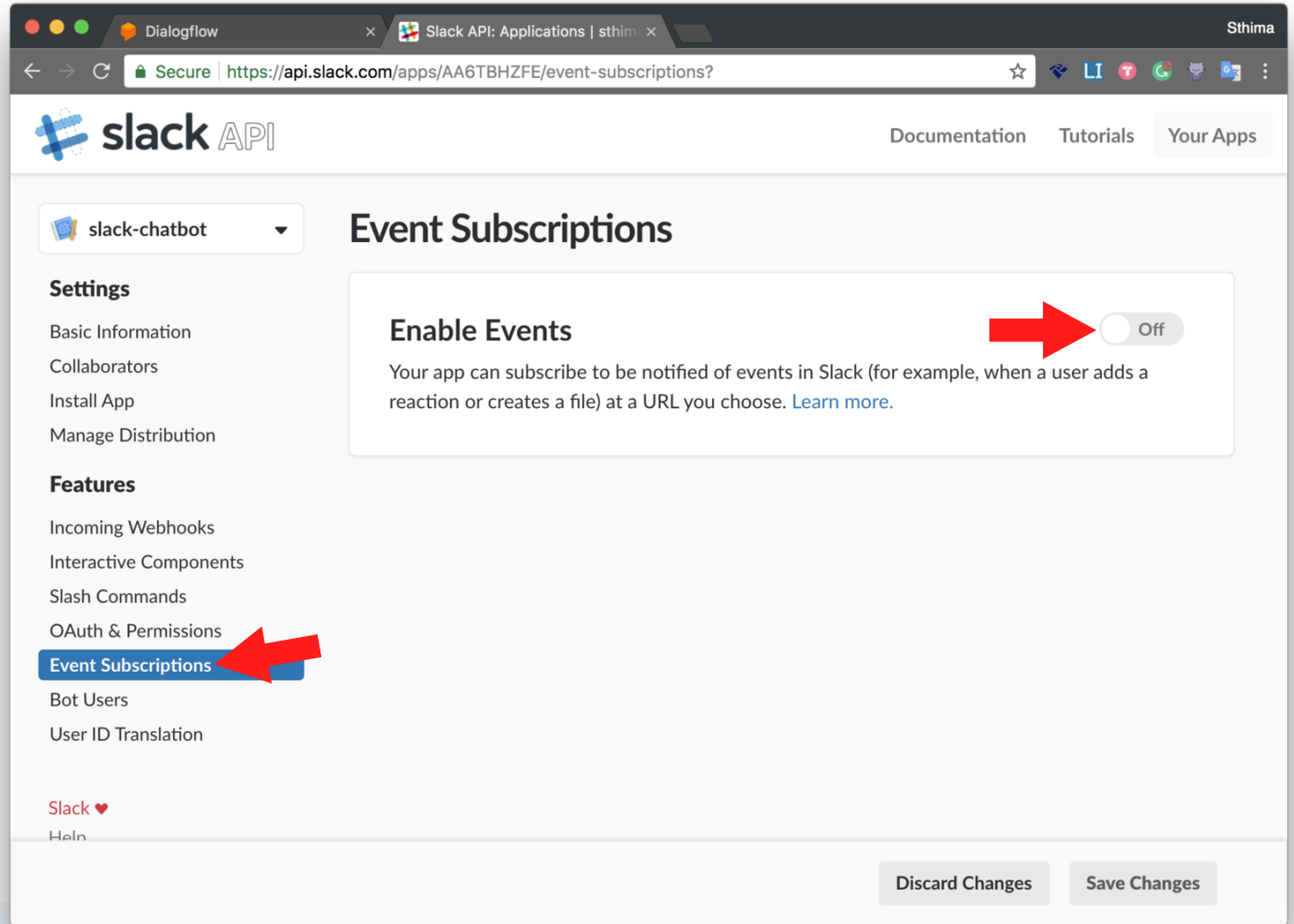
Incoming Webhooks
Interactive Components
Slash Commands
OAuth & Permissions
Event Subscriptions
Bot Users
User ID Translation
Slack ♥
Help
Contact
Policies
Our Blog
OAuth Tokens & Redirect URLs
These OAuth Tokens will be automatically generated when you finish connecting the app to your workspace. You'll 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
Redirect URLs
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6
Add a new Redirect URL
Save URLs


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Slack
Slack Client Secret *
d62593634fced2424cd0219468c41520
Slack Verification Token *
eEp5Cceqt0j14ejypZMcGcHW
Success page (Optional)
Process all messages
OAuth URL:
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6333667/start
Events Request URL:
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6333667/webhook
CLOSE
STOP


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
slack API
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Incoming Webhooks
Interactive Components
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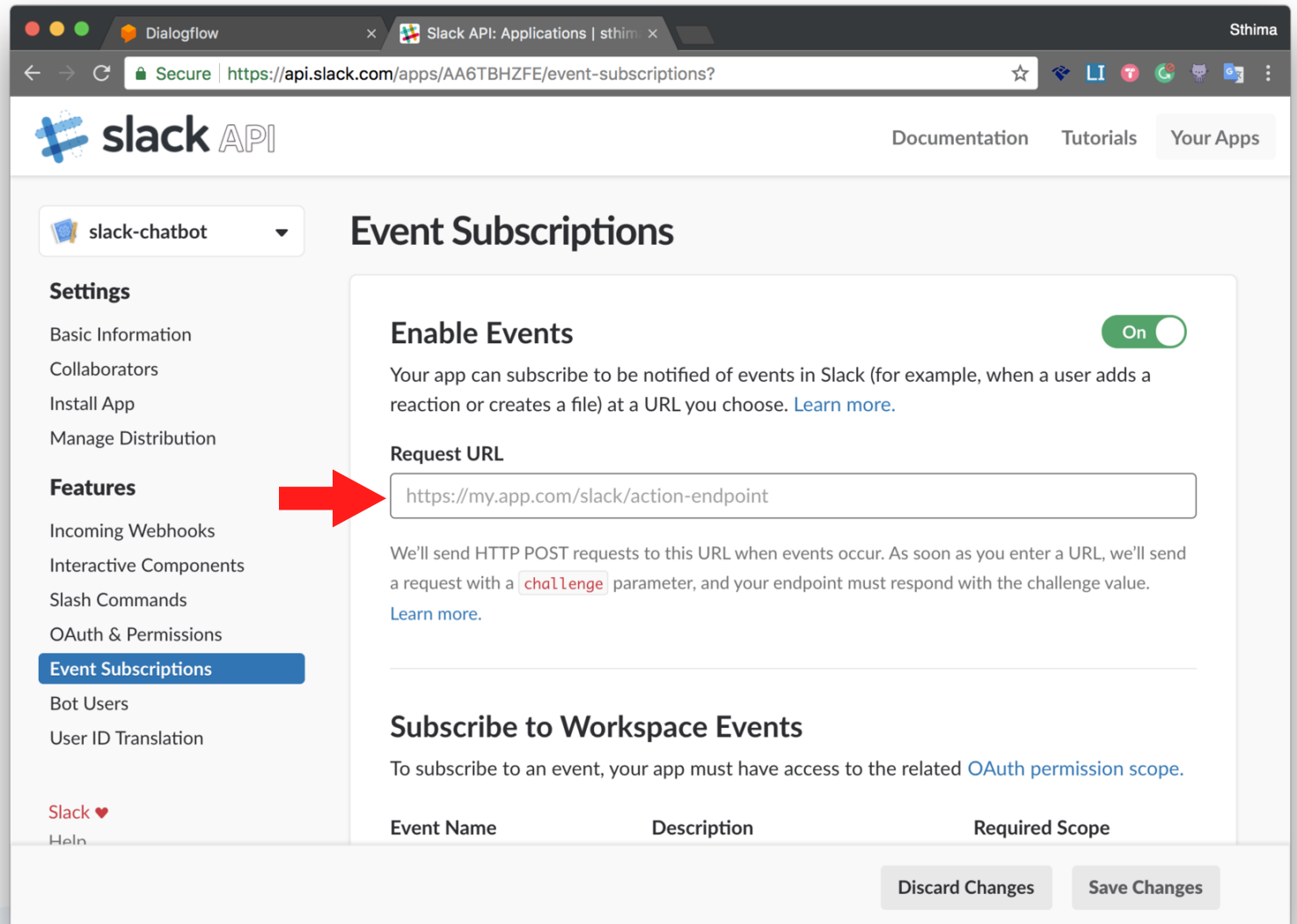
Slack ♥
Help
Event Subscriptions
Enable Events
Off
Your app can subscribe to be notified of events in Slack (for example, when a user adds a reaction or creates a file) at a URL you choose. Learn more.
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
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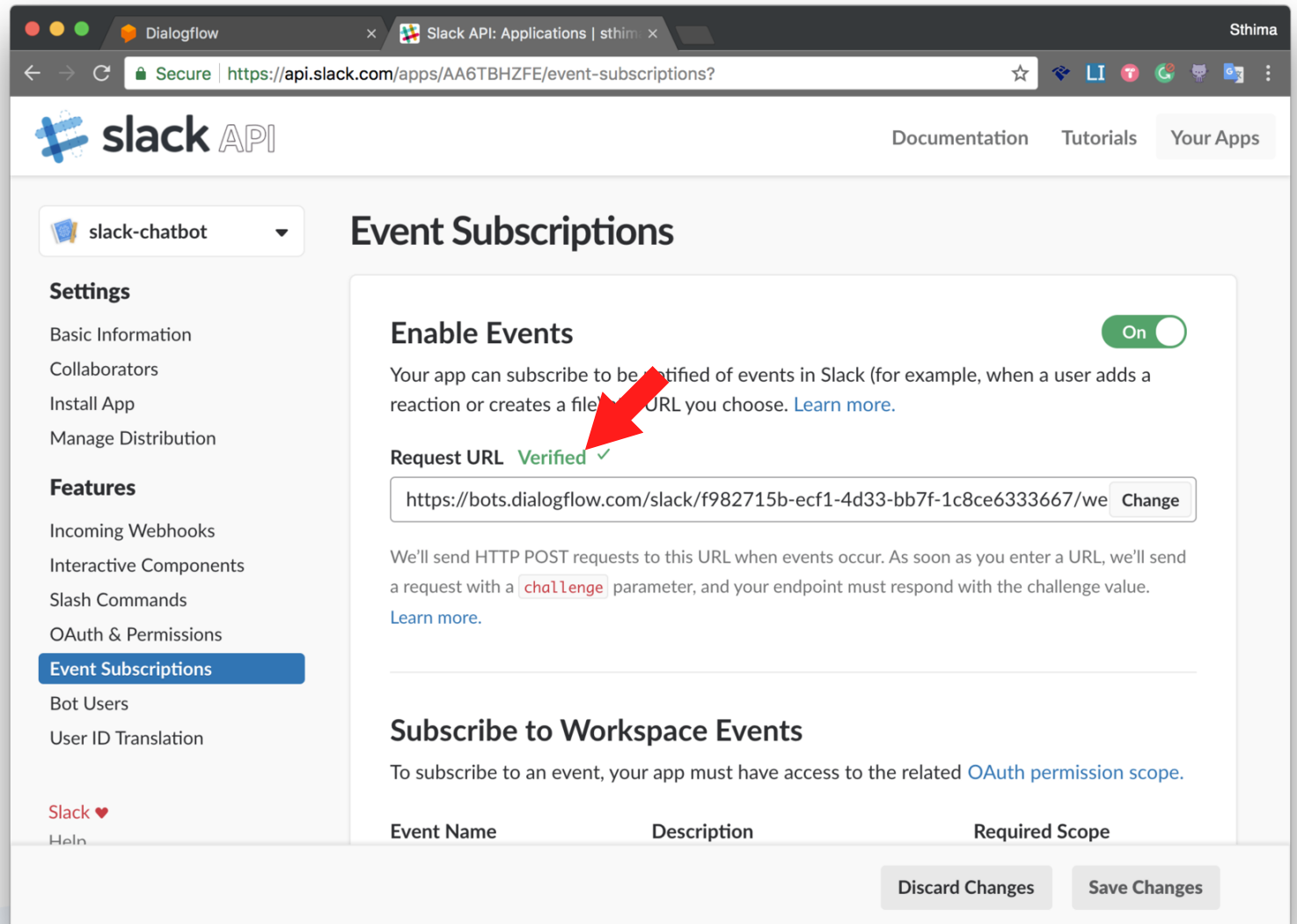
Incoming Webhooks
Interactive Components
Slash Commands
OAuth & Permissions
Event Subscriptions
Bot Users
User ID Translation
Slack ♥
Help
Event Subscriptions
Enable Events
On
Your app can subscribe to be notified of events in Slack (for example, when a user adds a reaction or creates a file) at a URL you choose. Learn more.
Request URL
https://my.app.com/slack/action-endpoint
We'll send HTTP POST requests to this URL when events occur. As soon as you enter a URL, we'll send a request with a challenge parameter, and your endpoint must respond with the challenge value.
Learn more.
Subscribe to Workspace Events
To subscribe to an event, your app must have access to the related OAuth permission scope.
Event Name
Description
Required Scope
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
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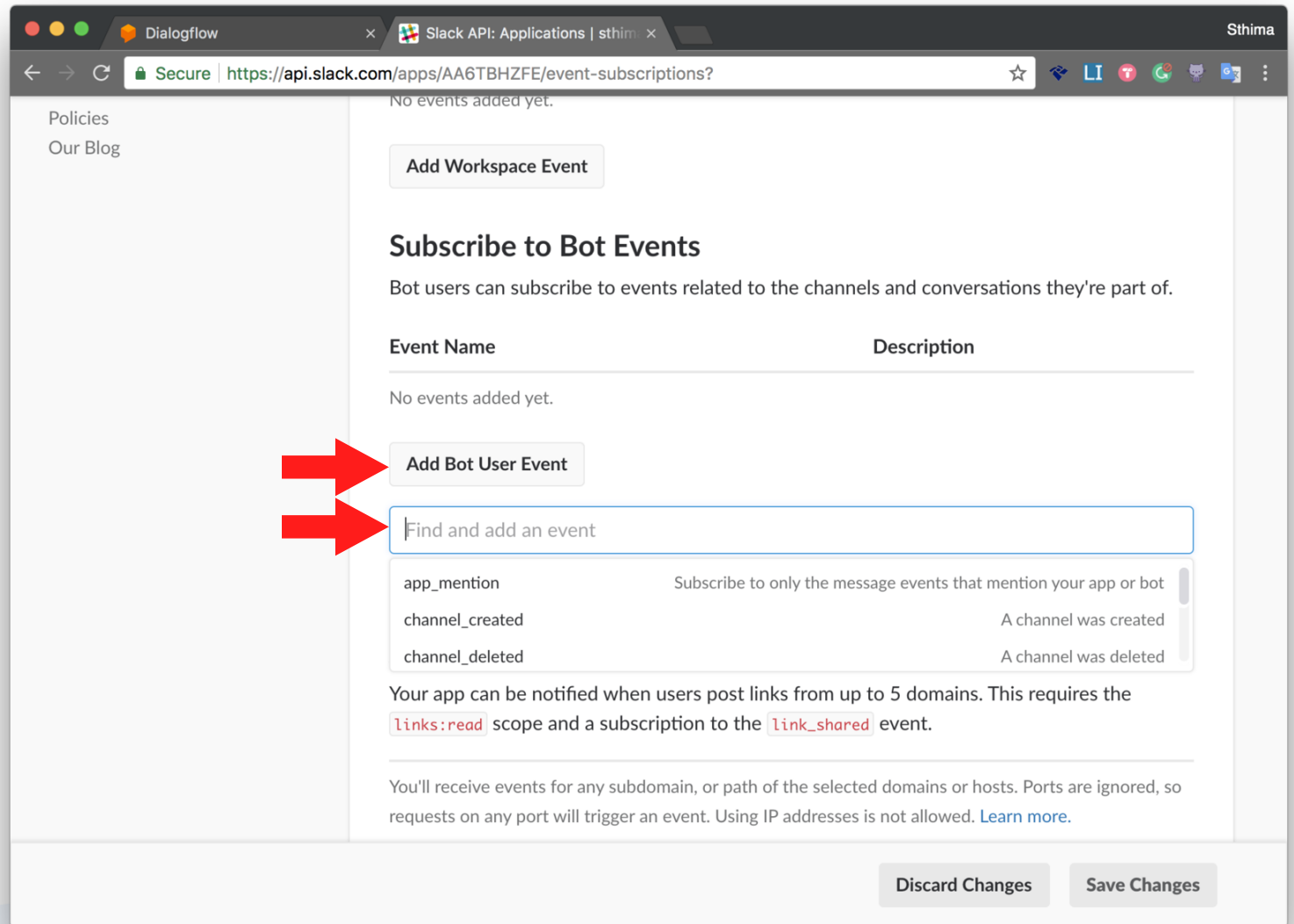
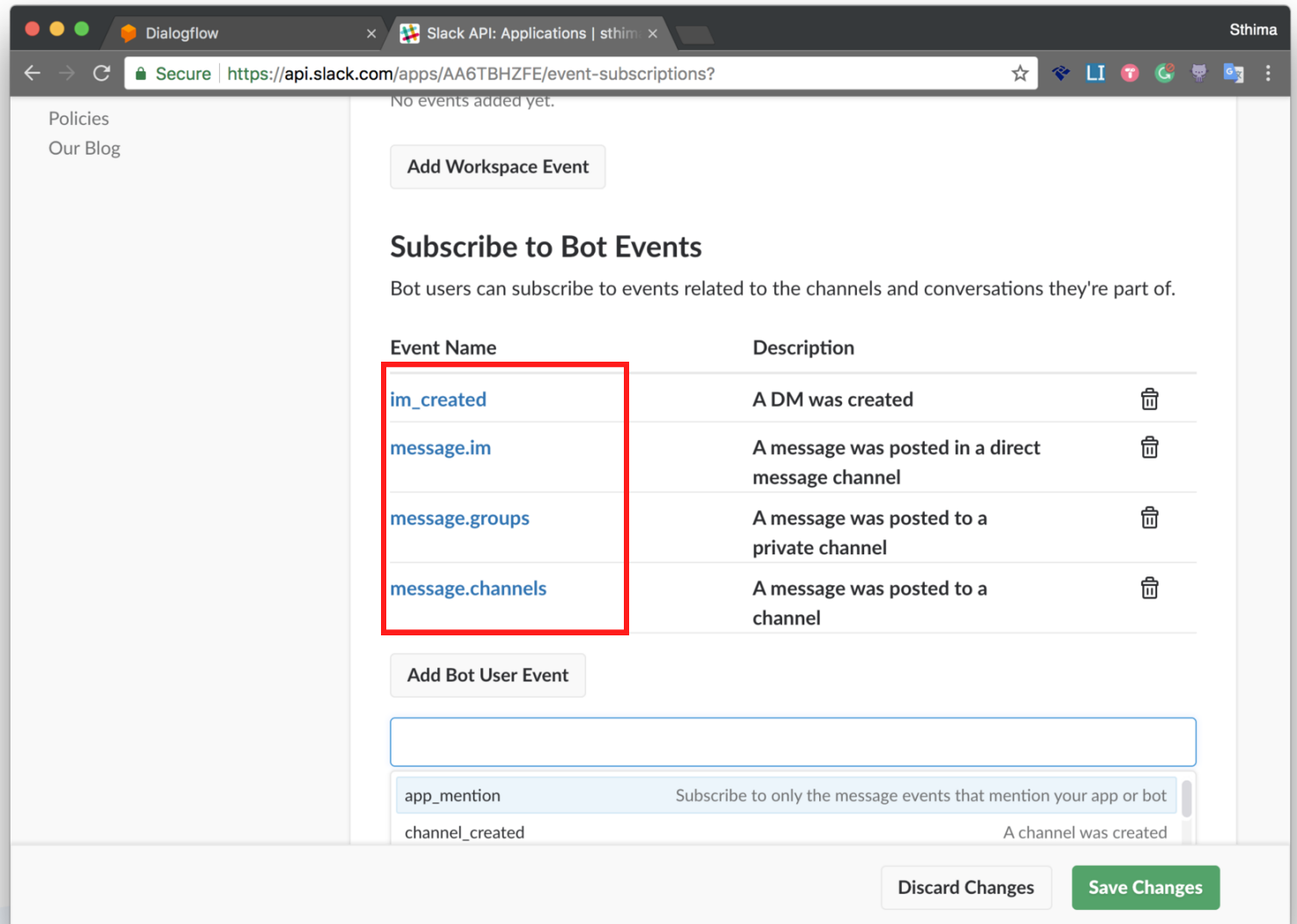
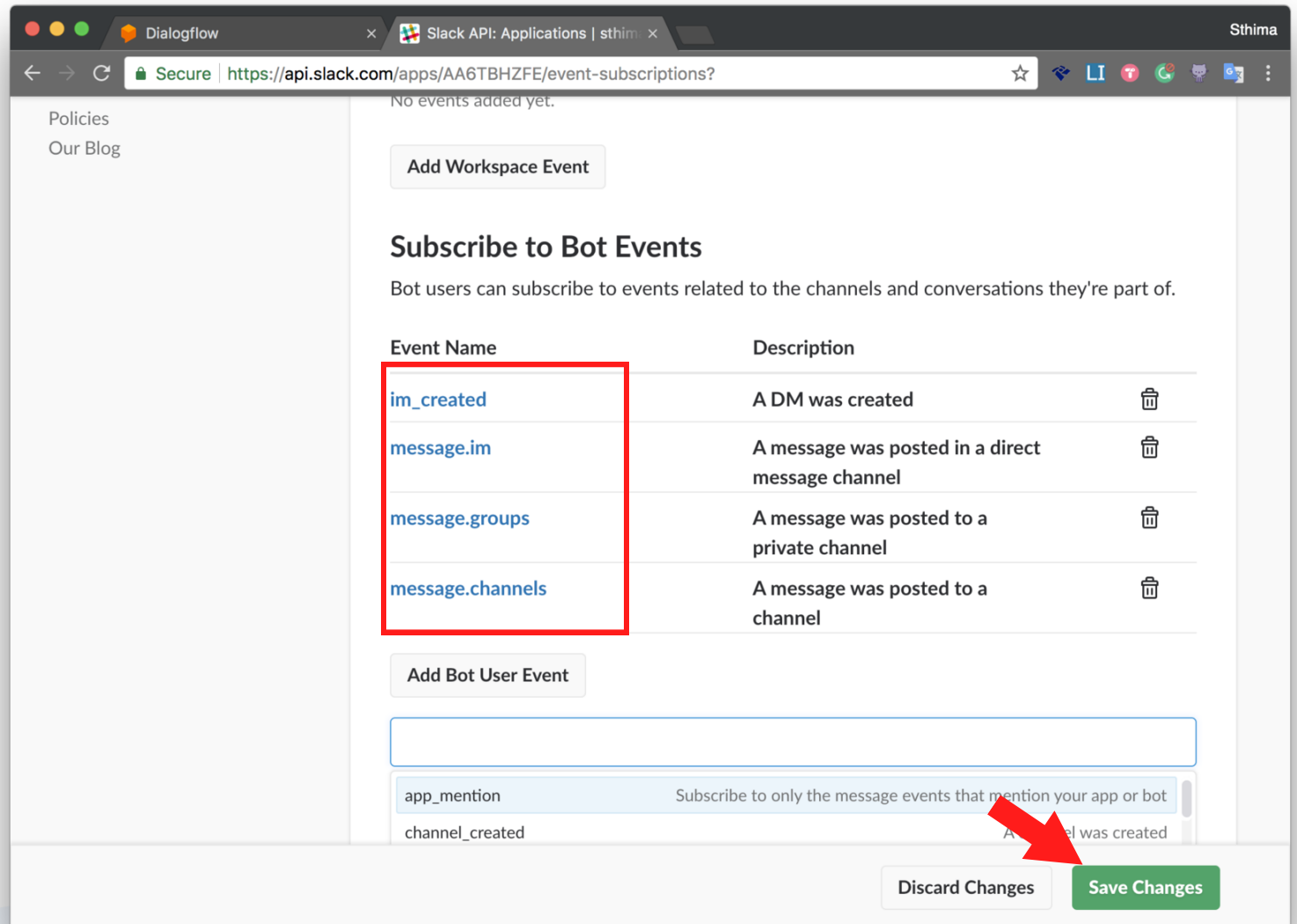
User ID Translation
Slack ♥
Help
Event Subscriptions
Enable Events
On
Your app can subscribe to be tified of events in Slack (for example, when a user adds a reaction or creates a file URL you choose. Learn more.
Request URL Verified ✓
https://bots.dialogflow.com/slack/f982715b-ecf1-4d33-bb7f-1c8ce6333667/we
Change
We'll send HTTP POST requests to this URL when events occur. As soon as you enter a URL, we'll send a request with a challenge parameter, and your endpoint must respond with the challenge value. Learn more.
Subscribe to Workspace Events
To subscribe to an event, your app must have access to the related OAuth permission scope.
Event Name
Description
Required Scope
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
Policies
Our Blog
No events added yet.
Add Workspace Event
Subscribe to Bot Events
Bot users can subscribe to events related to the channels and conversations they're part of.
Event Name
Description
No events added yet.
Add Bot User Event
Find and add an event
app_mention
Subscribe to only the message events that mention your app or bot
channel_created
A channel was created
channel_deleted
A channel was deleted
Your app can be notified when users post links from up to 5 domains. This requires the links:read scope and a subscription to the link_shared event.
You'll receive events for any subdomain, or path of the selected domains or hosts. Ports are ignored, so requests on any port will trigger an event. Using IP addresses is not allowed. Learn more.
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
Policies
Our Blog
No events added yet.
Add Workspace Event
Subscribe to Bot Events
Bot users can subscribe to events related to the channels and conversations they're part of.
Event Name
Description
im_created
A DM was created
message.im
A message was posted in a direct message channel
message.groups
A message was posted to a private channel
message.channels
A message was posted to a channel
Add Bot User Event
app_mention
Subscribe to only the message events that mention your app or bot
channel_created
A channel was created
Discard Changes
Save Changes


Dialogflow
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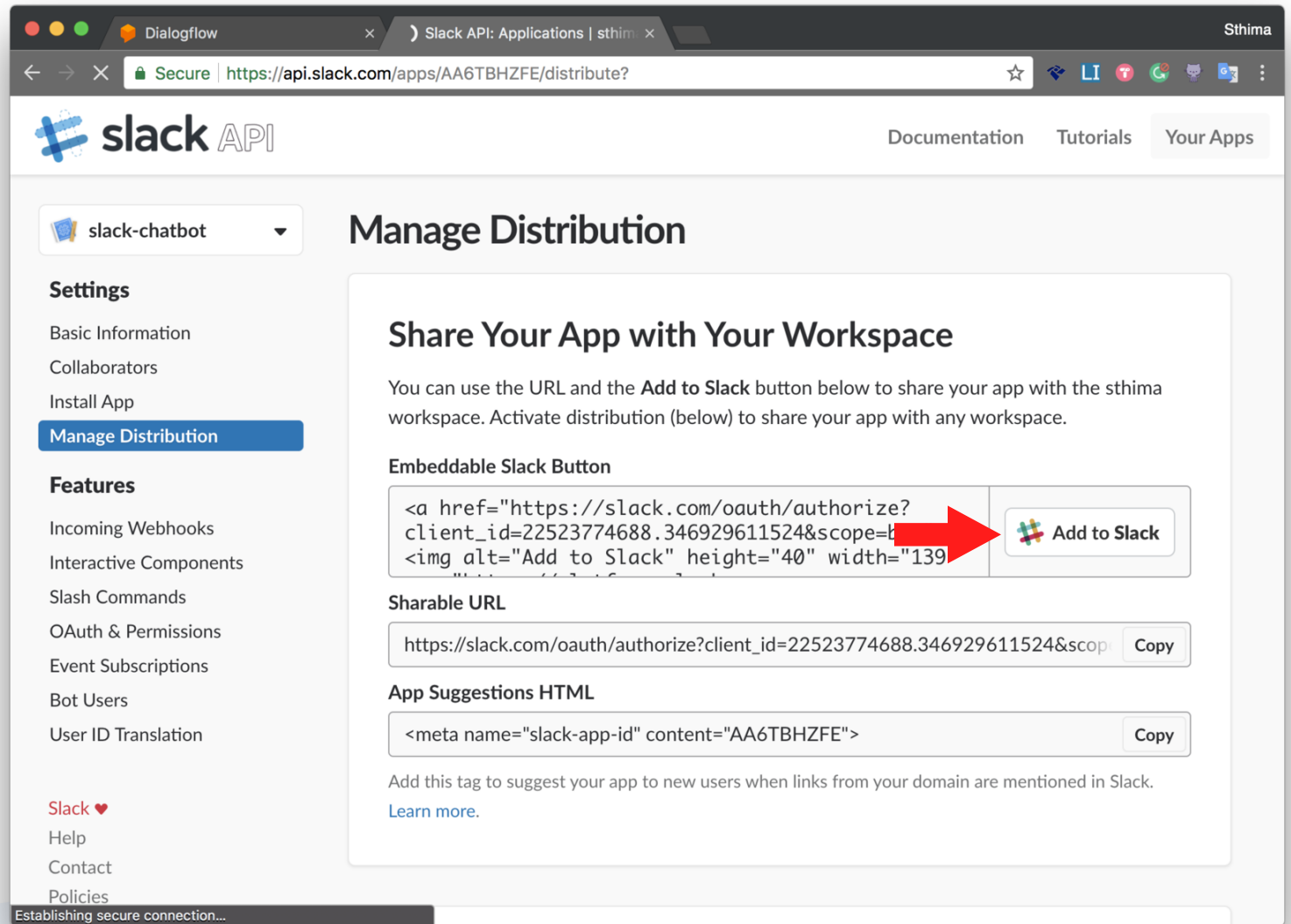
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/event-subscriptions?
Policies
Our Blog
No events added yet.
Add Workspace Event
Subscribe to Bot Events
Bot users can subscribe to events related to the channels and conversations they're part of.
Event Name
Description
im_created
A DM was created
message.im
A message was posted in a direct message channel
message.groups
A message was posted to a private channel
message.channels
A message was posted to a channel
Add Bot User Event
app_mention
Subscribe to only the message events that mention your app or bot
channel_created
Discard Changes
Save Changes


Dialogflow
Slack API: Applications | sthim
Sthima
Secure
https://api.slack.com/apps/AA6TBHZFE/distribute?
slack API
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Incoming Webhooks
Interactive Components
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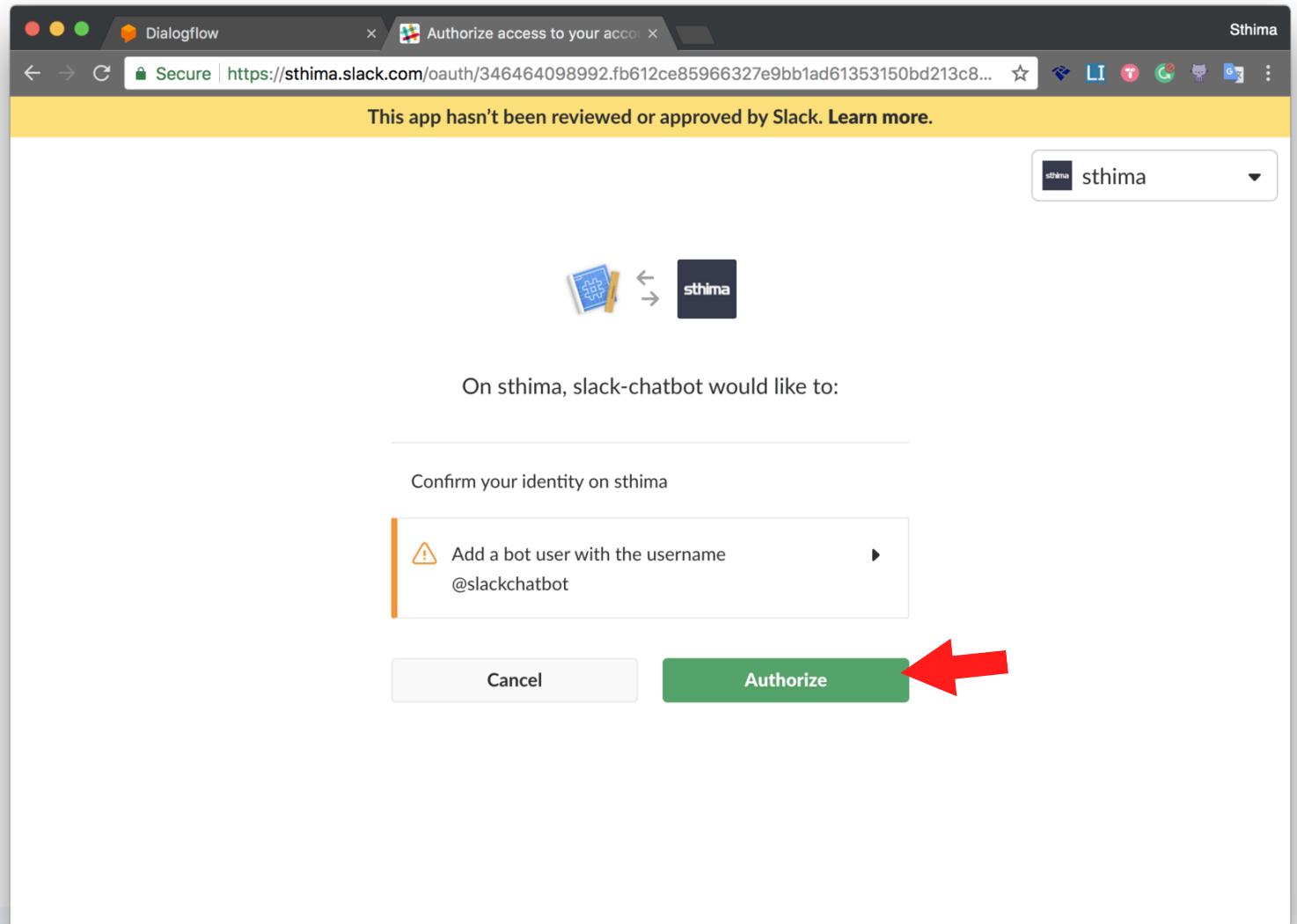
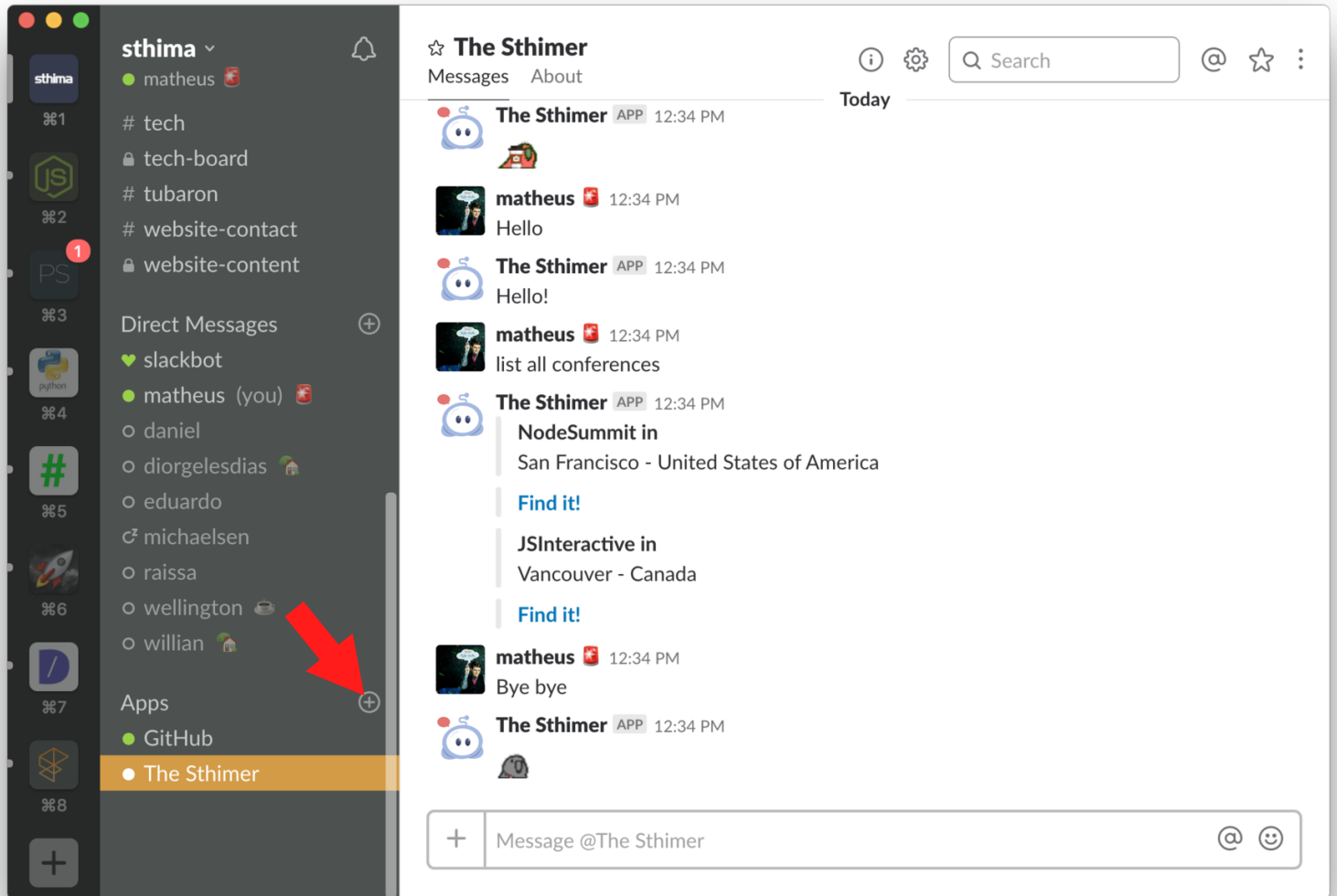
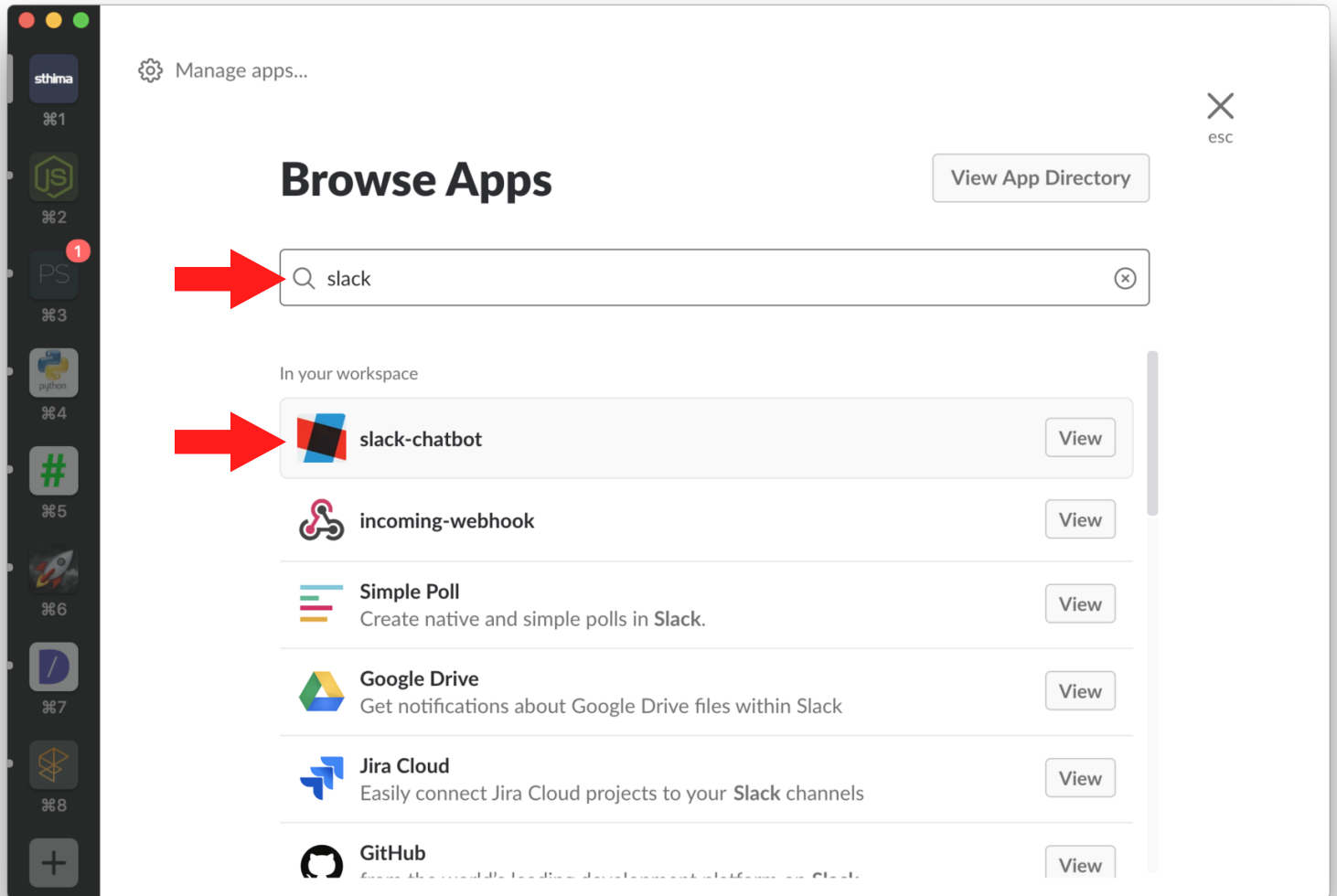
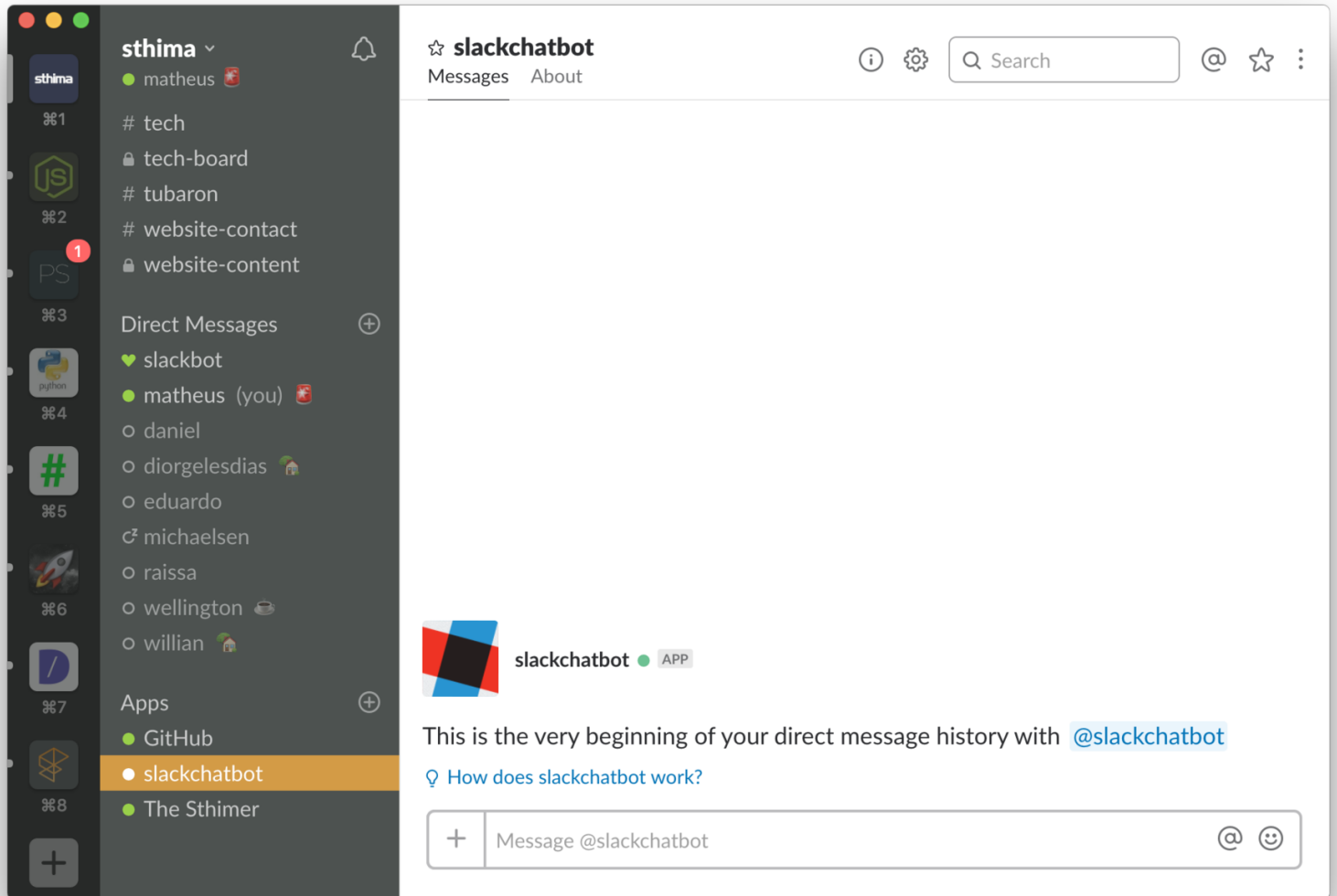
Bot Users
User ID Translation
Slack ♥
Help
Contact
Policies
Manage Distribution
Share Your App with Your Workspace
You can use the URL and the Add to Slack button below to share your app with the sthima workspace. Activate distribution (below) to share your app with any workspace.
Embeddable Slack Button
<a href="https://slack.com/oauth/authorize?
client_id=22523774688.346929611524&scope=b
<img alt="Add to Slack" height="40" width="139
Add to Slack
Sharable URL
https://slack.com/oauth/authorize?client_id=22523774688.346929611524&scop
Copy
App Suggestions HTML
<meta name="slack-app-id" content="AA6TBHZFE">
Copy
Add this tag to suggest your app to new users when links from your domain are mentioned in Slack.
Learn more.
Establishing secure connection...


Dialogflow
Authorize access to your acco
Sthima
Secure
https://sthima.slack.com/oauth/346464098992.fb612ce85966327e9bb1ad61353150bd213c8...
This app hasn't been reviewed or approved by Slack. Learn more.
sthima
sthima
On sthima, slack-chatbot would like to:
Confirm your identity on sthima
Add a bot user with the username @slackchatbot
Cancel
Authorize


sthima
matheus
tech
tech-board
tubaron
website-contact
website-content
Direct Messages
slackbot
matheus (you)
daniel
diorgelesdias
eduardo
michaelsen
raissa
wellington
willian
Apps
GitHub
The Sthimer
The Sthimer
Messages
About
Search
Today
The Sthimer APP 12:34 PM
matheus 12:34 PM
Hello
The Sthimer APP 12:34 PM
Hello!
matheus 12:34 PM
list all conferences
The Sthimer APP 12:34 PM
NodeSummit in
San Francisco - United States of America
Find it!
JSInteractive in
Vancouver - Canada
Find it!
matheus 12:34 PM
Bye bye
The Sthimer APP 12:34 PM
Message @The Sthimer


Manage apps...
esc
Browse Apps
View App Directory
slack
In your workspace
slack-chatbot
View
incoming-webhook
View
Simple Poll
Create native and simple polls in Slack.
View
Google Drive
Get notifications about Google Drive files within Slack
View
Jira Cloud
Easily connect Jira Cloud projects to your Slack channels
View
GitHub
View


sthima
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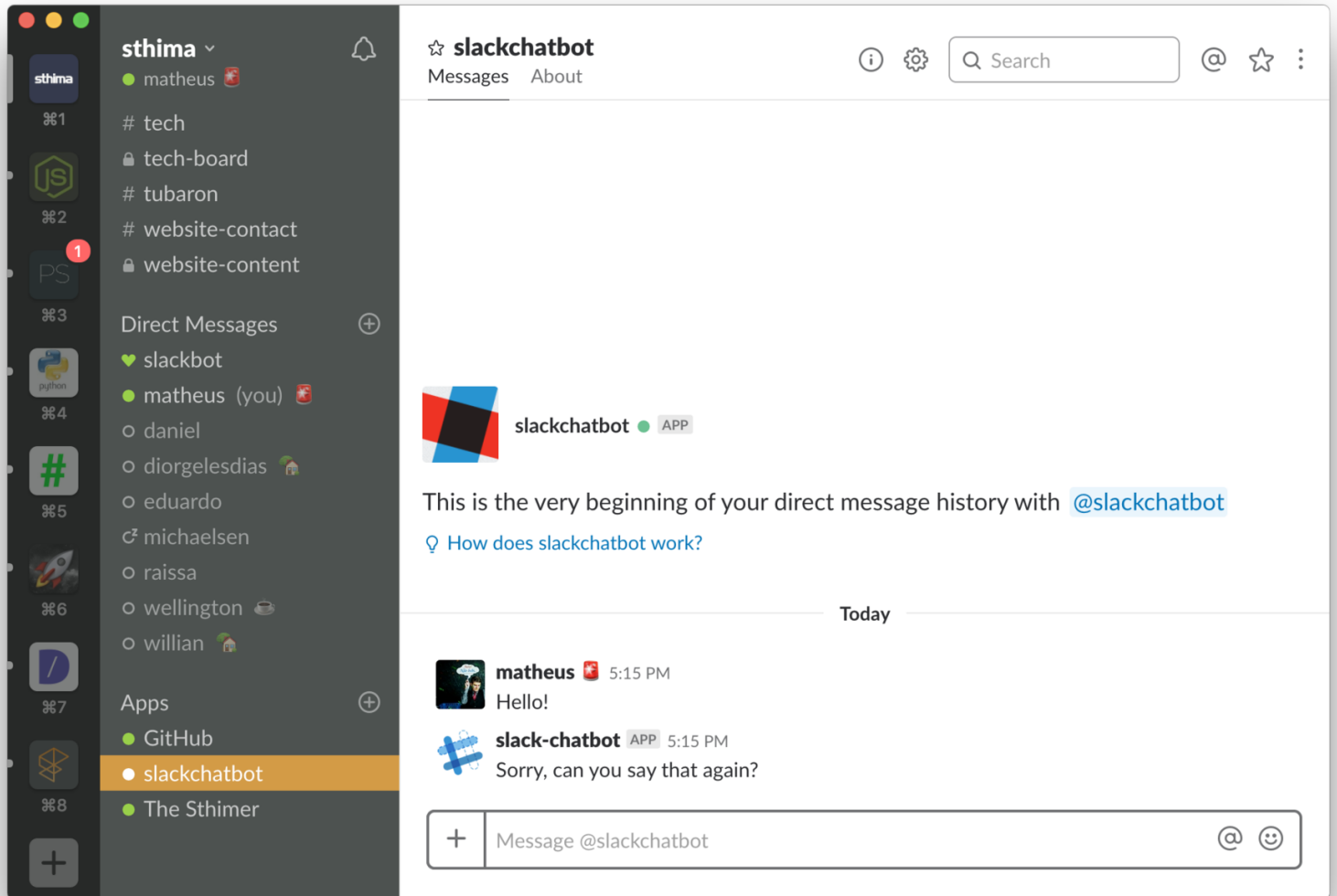
diorgelesdias
eduardo
michaelsen
raissa
wellington
willian
Apps
GitHub
slackchatbot
The Sthimer
slackchatbot
Messages
About
Search
slackchatbot
APP
This is the very beginning of your direct message history with @slackchatbot
How does slackchatbot work?
Message @slackchatbot


sthima
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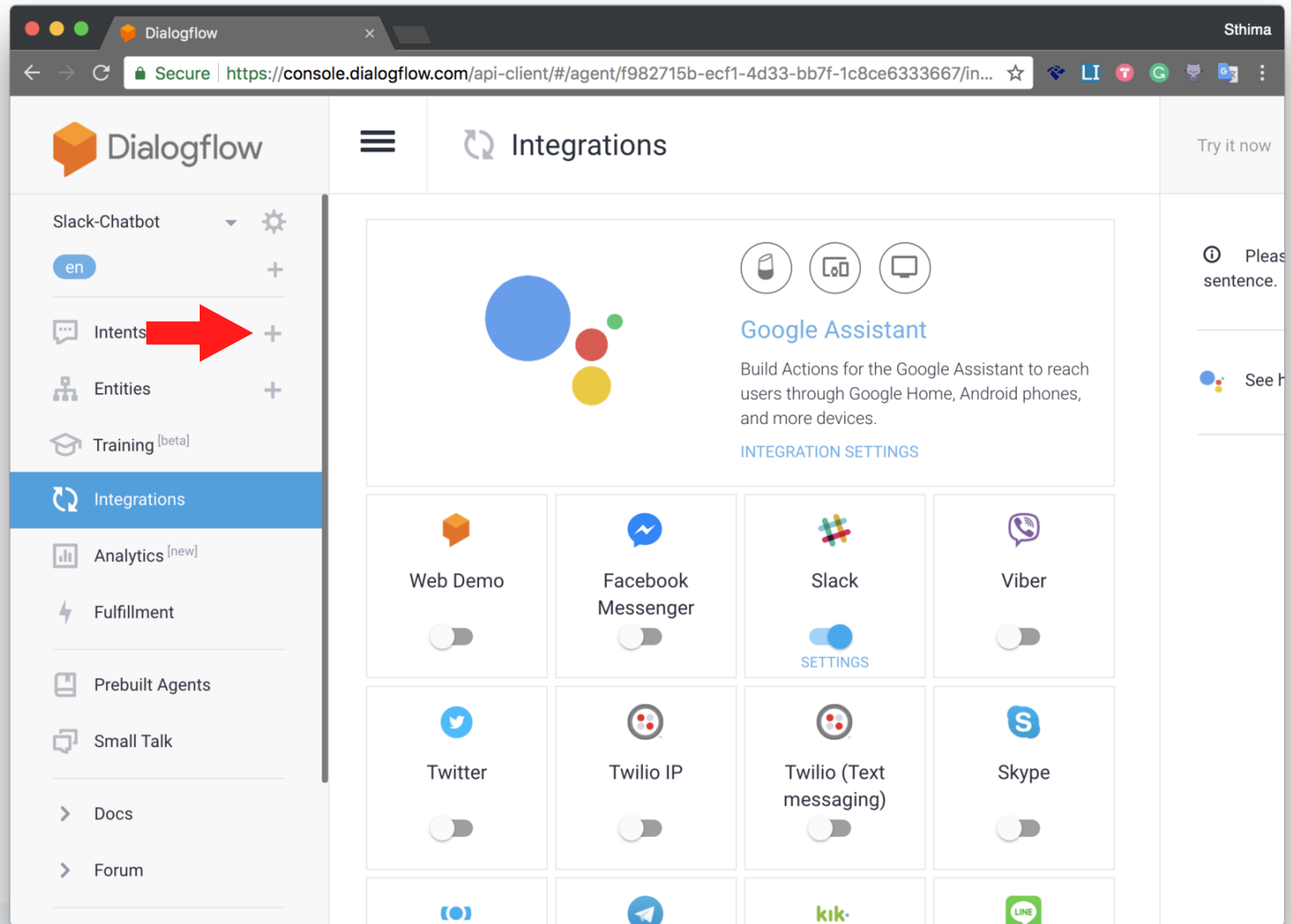
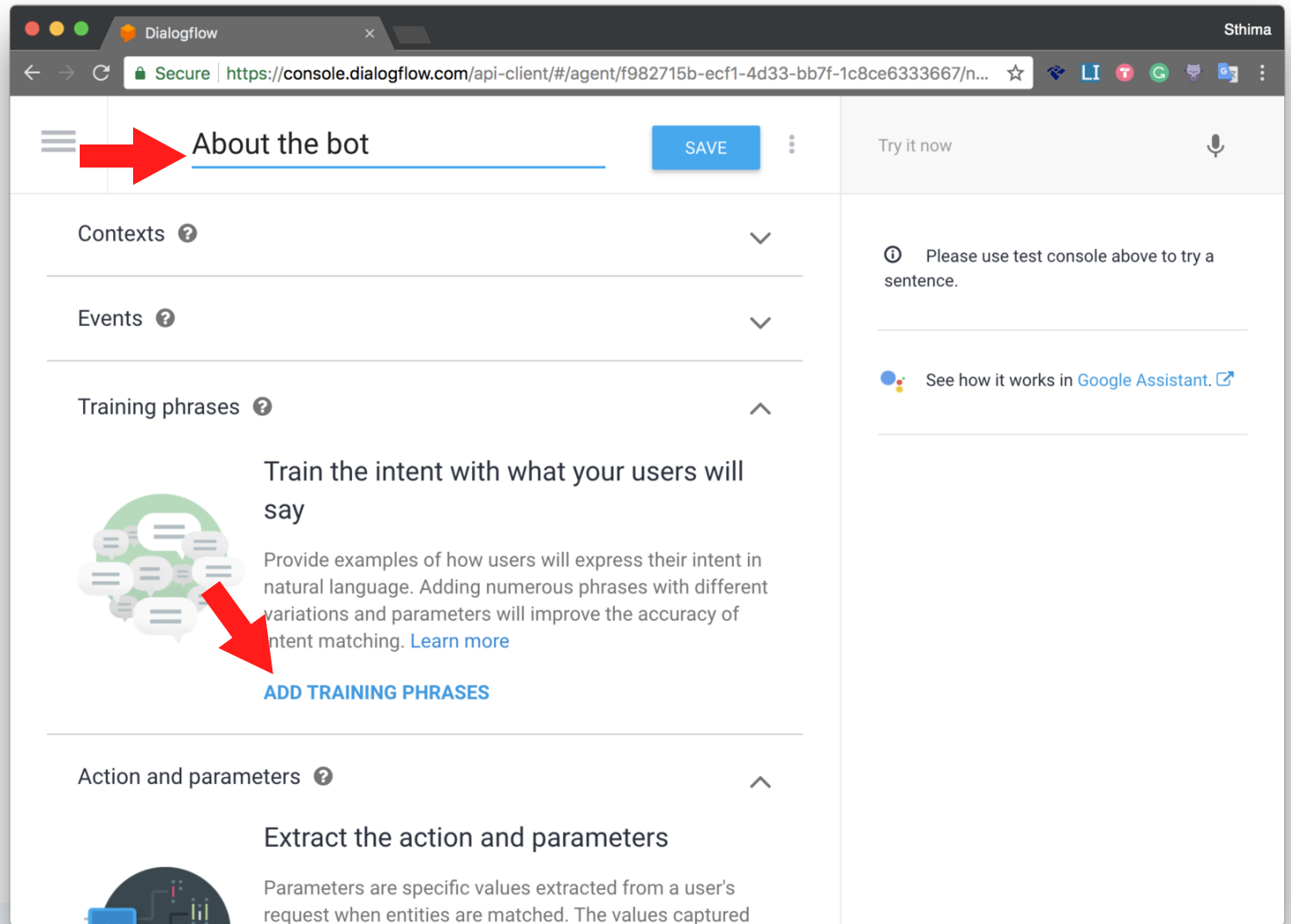
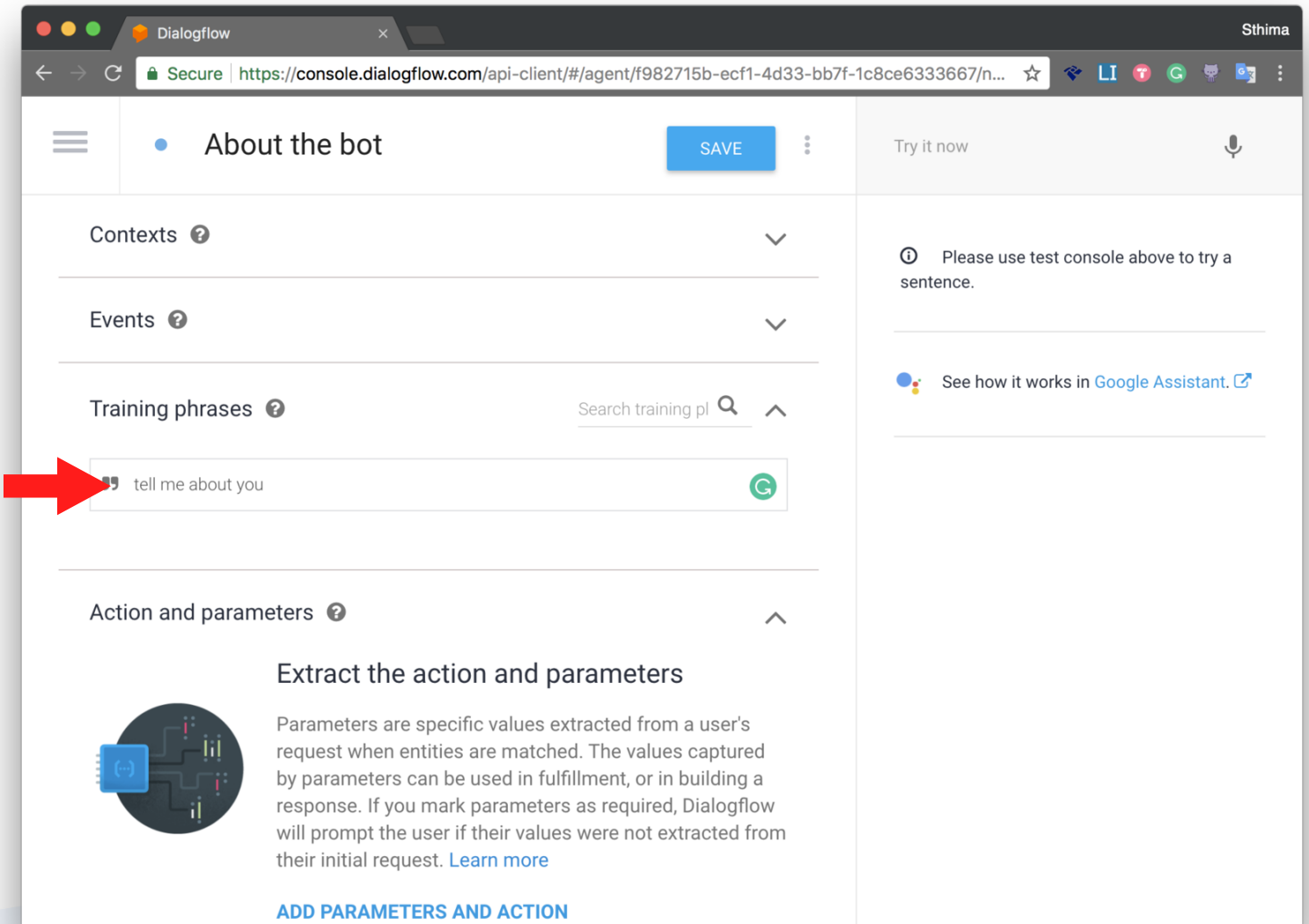
Apps
GitHub
slackchatbot
The Sthimer
slackchatbot
Messages
About
Search
slackchatbot APP
This is the very beginning of your direct message history with @slackchatbot
How does slackchatbot work?
Today
matheus 5:15 PM
Hello!
slack-chatbot APP 5:15 PM
Sorry, can you say that again?
Message @slackchatbot

- Instalar Serverless e Criar projeto
- Configurar Credenciais da AWS
- Fazer deploy no AWS Lambda
- Configurar integração Slack <-> Dialogflow
- Criar **Intenção** no Dialogflow
- Configurar Webhook no Dialogflow
- Implementar resposta no AWS Lambda


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/in...
Dialogflow
Integrations
Try it now
Slack-Chatbot
en
Intents
Entities
Training [beta]
Integrations
Analytics [new]
Fulfillment
Prebuilt Agents
Small Talk
Docs
Forum
Google Assistant
Build Actions for the Google Assistant to reach users through Google Home, Android phones, and more devices.
INTEGRATION SETTINGS
Web Demo
Facebook Messenger
Slack
SETTINGS
Viber
Twitter
Twilio IP
Twilio (Text messaging)
Skype
kik
LINE


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/n...
About the bot
SAVE
Try it now
Contexts
Events
Please use test console above to try a sentence.
See how it works in Google Assistant.
Training phrases
Train the intent with what your users will say
Provide examples of how users will express their intent in natural language. Adding numerous phrases with different variations and parameters will improve the accuracy of intent matching. Learn more
ADD TRAINING PHRASES
Action and parameters
Extract the action and parameters
Parameters are specific values extracted from a user's request when entities are matched. The values captured


Dialogflow
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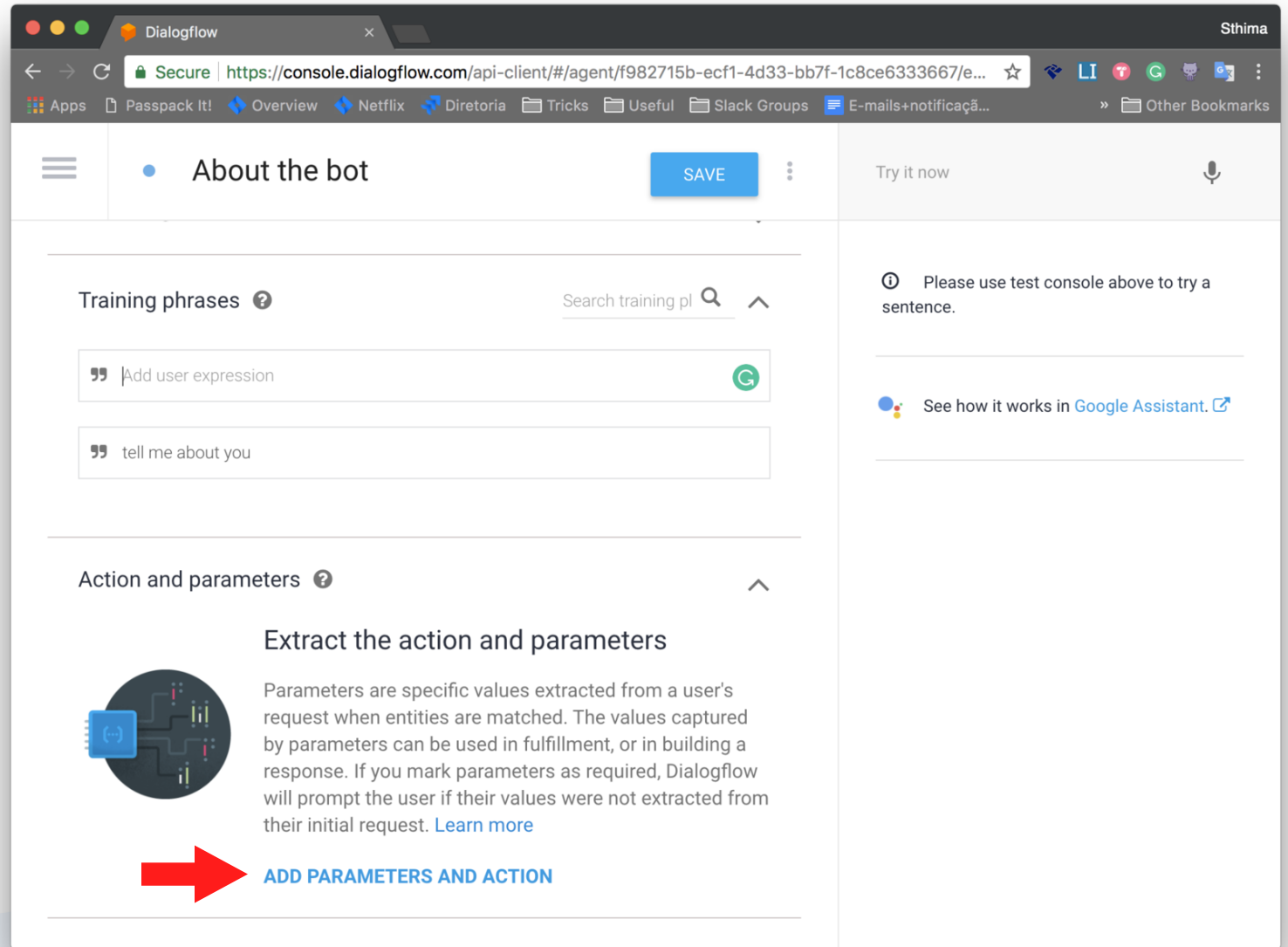
About the bot
SAVE
Try it now
Contexts
Events
Training phrases
Search training pl
tell me about you
Please use test console above to try a sentence.
See how it works in Google Assistant.
Action and parameters
Extract the action and parameters
Parameters are specific values extracted from a user's request when entities are matched. The values captured by parameters can be used in fulfillment, or in building a response. If you mark parameters as required, Dialogflow will prompt the user if their values were not extracted from their initial request. Learn more
ADD PARAMETERS AND ACTION


Dialogflow
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Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/e...
Apps
Passpack It!
Overview
Netflix
Diretoria
Tricks
Useful
Slack Groups
E-mails+notificaçã...
Other Bookmarks
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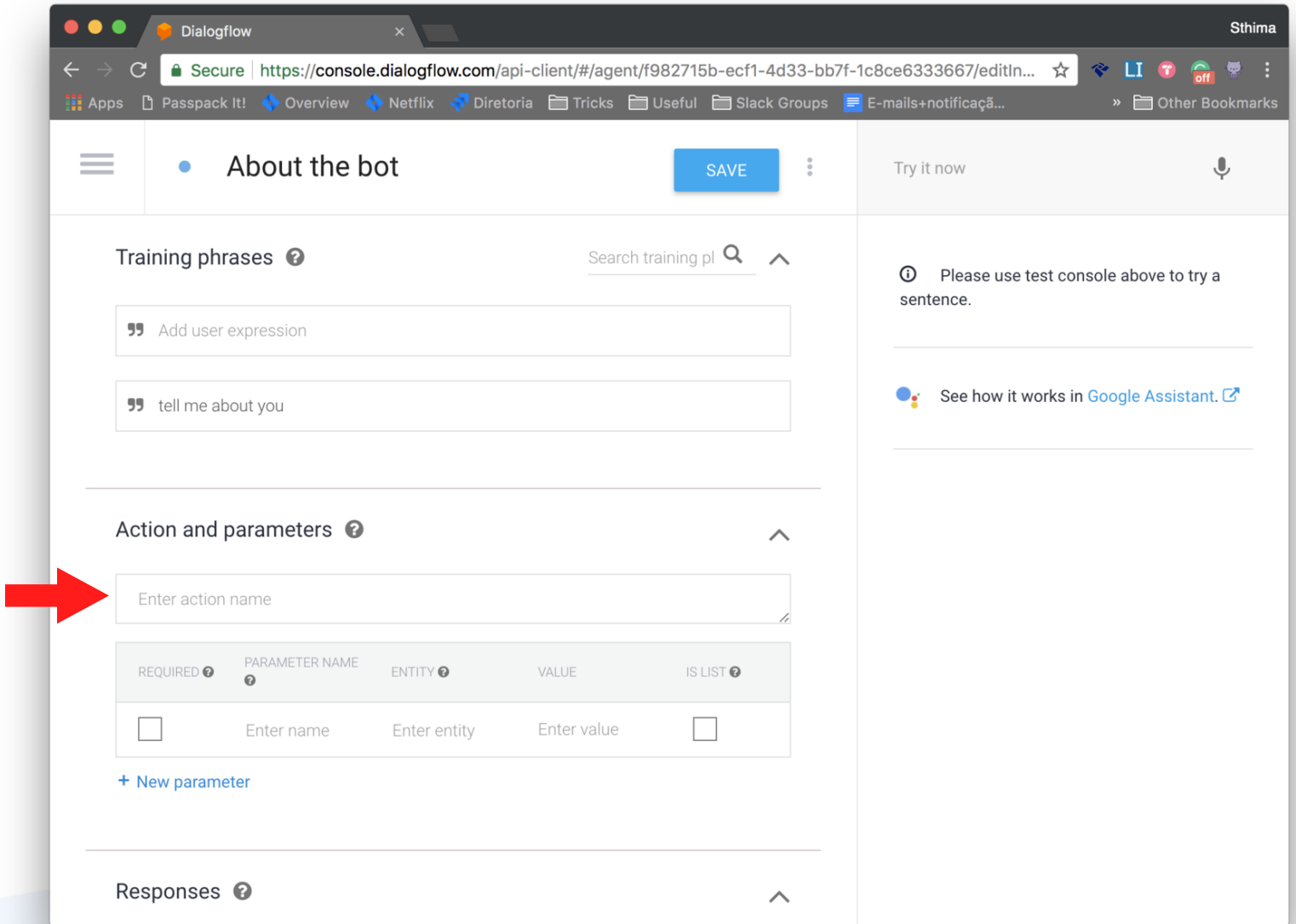
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https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/editIn...
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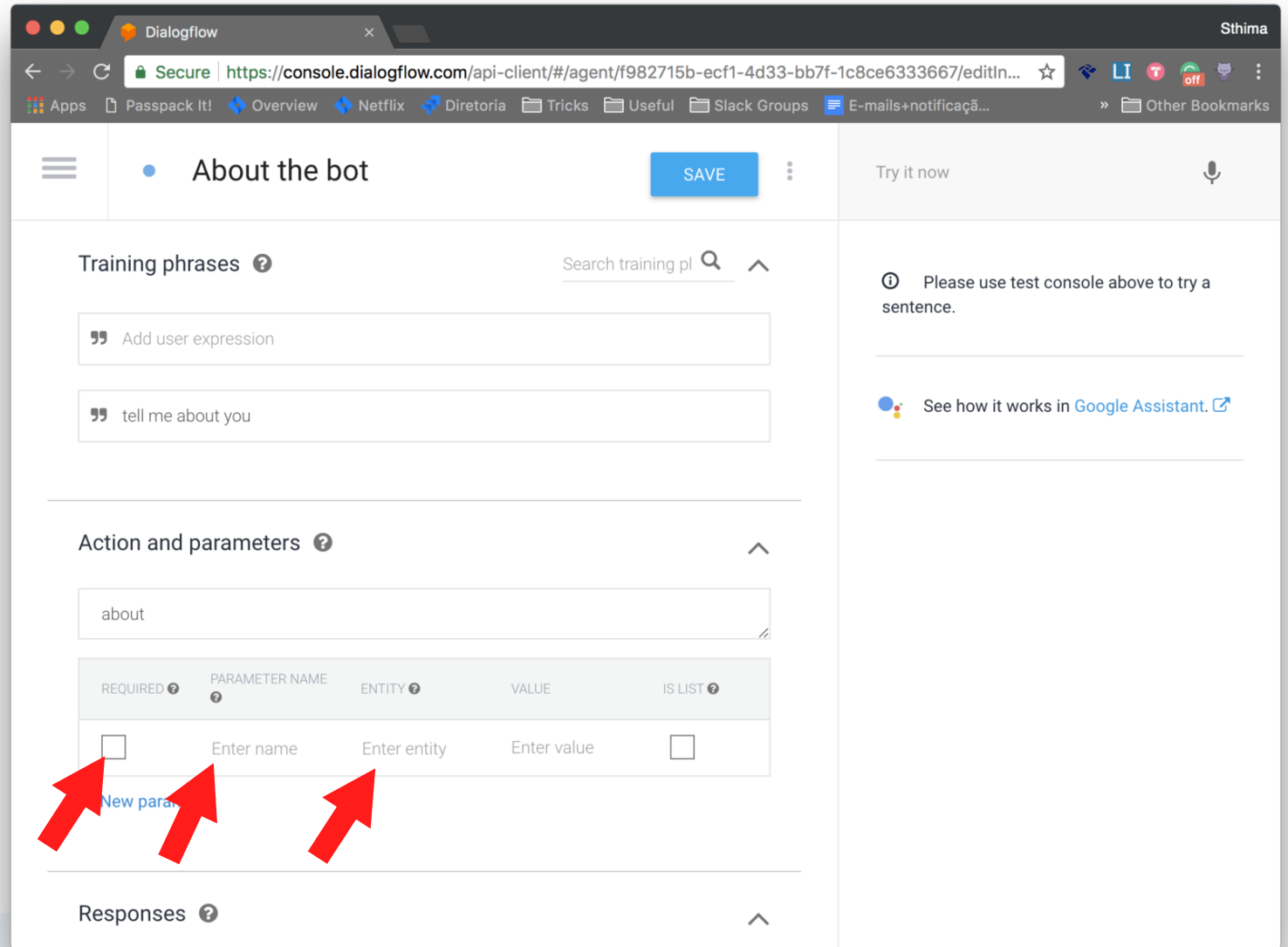
Slack Groups
E-mails+notificaçã...
Other Bookmarks
About the bot
SAVE
Try it now
Training phrases
Search training pl
Add user expression
tell me about you
Please use test console above to try a sentence.
See how it works in Google Assistant.
Action and parameters
Enter action name
REQUIRED
PARAMETER NAME
ENTITY
VALUE
IS LIST
Enter name
Enter entity
Enter value
+ New parameter
Responses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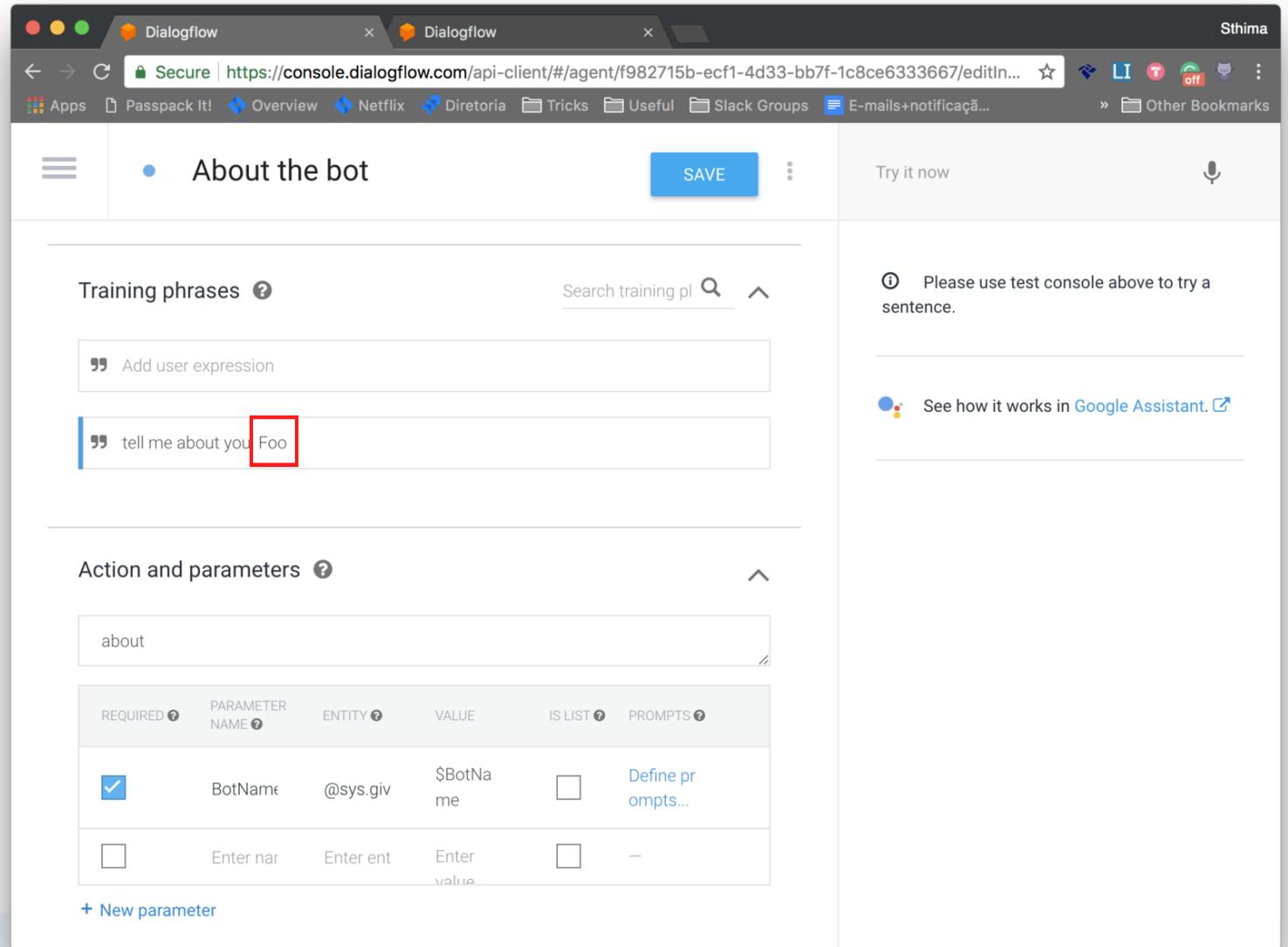
about
REQUIRED
PARAMETER NAME
ENTITY
VALUE
IS LIST
Enter name
Enter entity
Enter value
Responses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E-mails+notificaçã...
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tell me about you Foo
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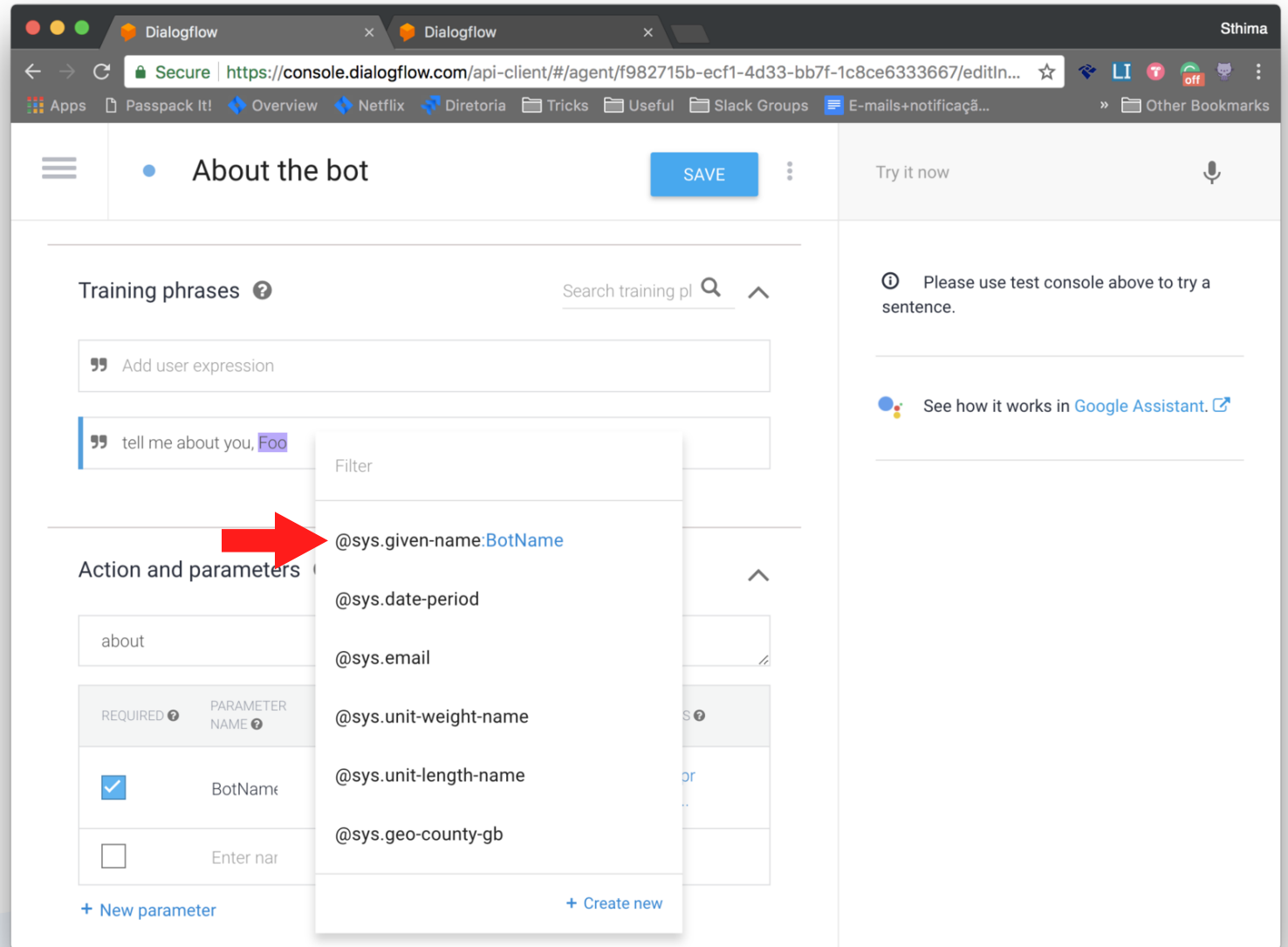
about
REQUIRED
PARAMETER NAME
ENTITY
VALUE
IS LIST
PROMPTS
BotName
@sys.giv
$BotNa me
Define pr ompts...
Enter nar
Enter ent
Enter value
+ New parameter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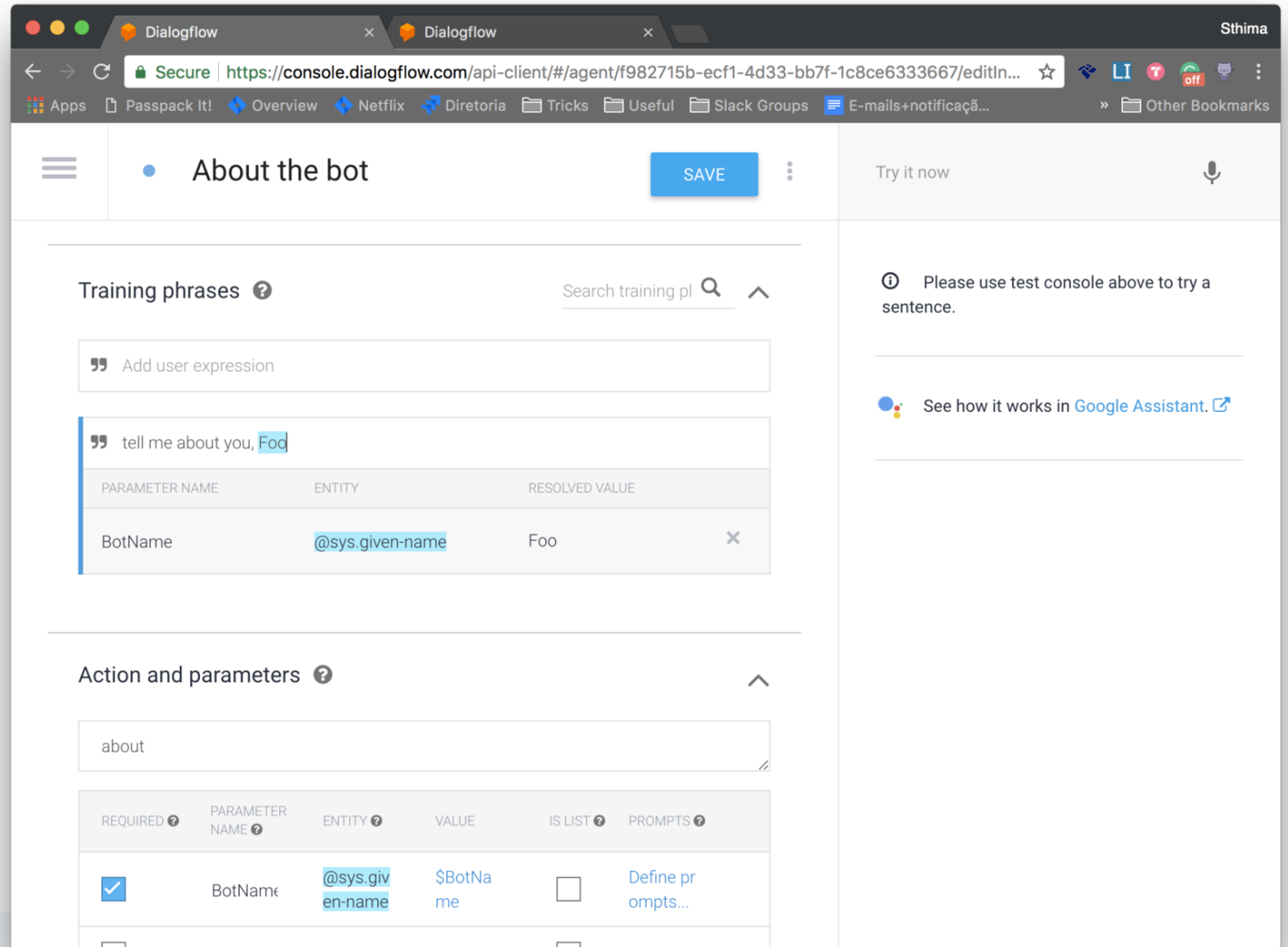
Search training pl
Add user expression
tell me about you, Foo
Filter
@sys.given-name:BotName
@sys.date-period
@sys.email
@sys.unit-weight-name
@sys.unit-length-name
@sys.geo-county-gb
+ Create new
Action and parameters
about
REQUIRED
PARAMETER NAME
BotName
Enter nar
+ New parameter
Please use test console above to try a sentence.
See how it works in Google Assistant.


Dialogflow
Dialogflow
Sthima
Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/editIn...
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Diretoria
Tricks
Useful
Slack Groups
E-mails+notificaçã...
Other Bookmarks
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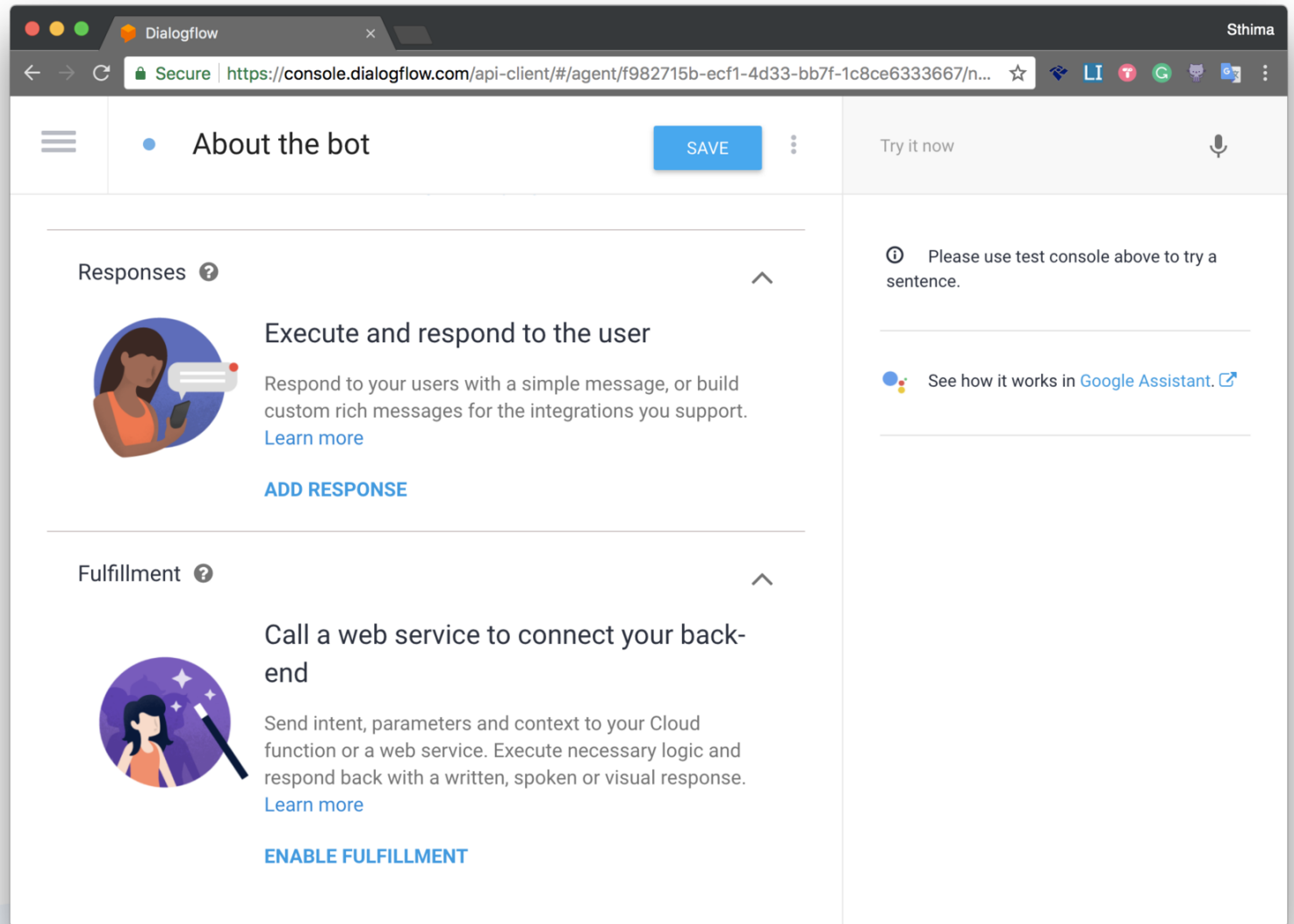
Training phrases
Search training pl
Add user expression
tell me about you, Foo
PARAMETER NAME
ENTITY
RESOLVED VALUE
BotName
@sys.given-name
Foo
Please use test console above to try a sentence.
See how it works in Google Assistant.
Action and parameters
about
REQUIRED
PARAMETER NAME
ENTITY
VALUE
IS LIST
PROMPTS
BotName
@sys.given-name
$BotName
Define prompts...


Dialogflow
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Secure
https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/n...
About the bot
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Try it now
Responses
Execute and respond to the user
Respond to your users with a simple message, or build custom rich messages for the integrations you support.
Learn more
ADD RESPONSE
Please use test console above to try a sentence.
See how it works in Google Assistant.
Fulfillment
Call a web service to connect your back-end
Send intent, parameters and context to your Cloud function or a web service. Execute necessary logic and respond back with a written, spoken or visual response.
Learn more
ENABLE FULFILLMENT

Dialogflow

Sthima

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About the bot

SAVE

Try it now

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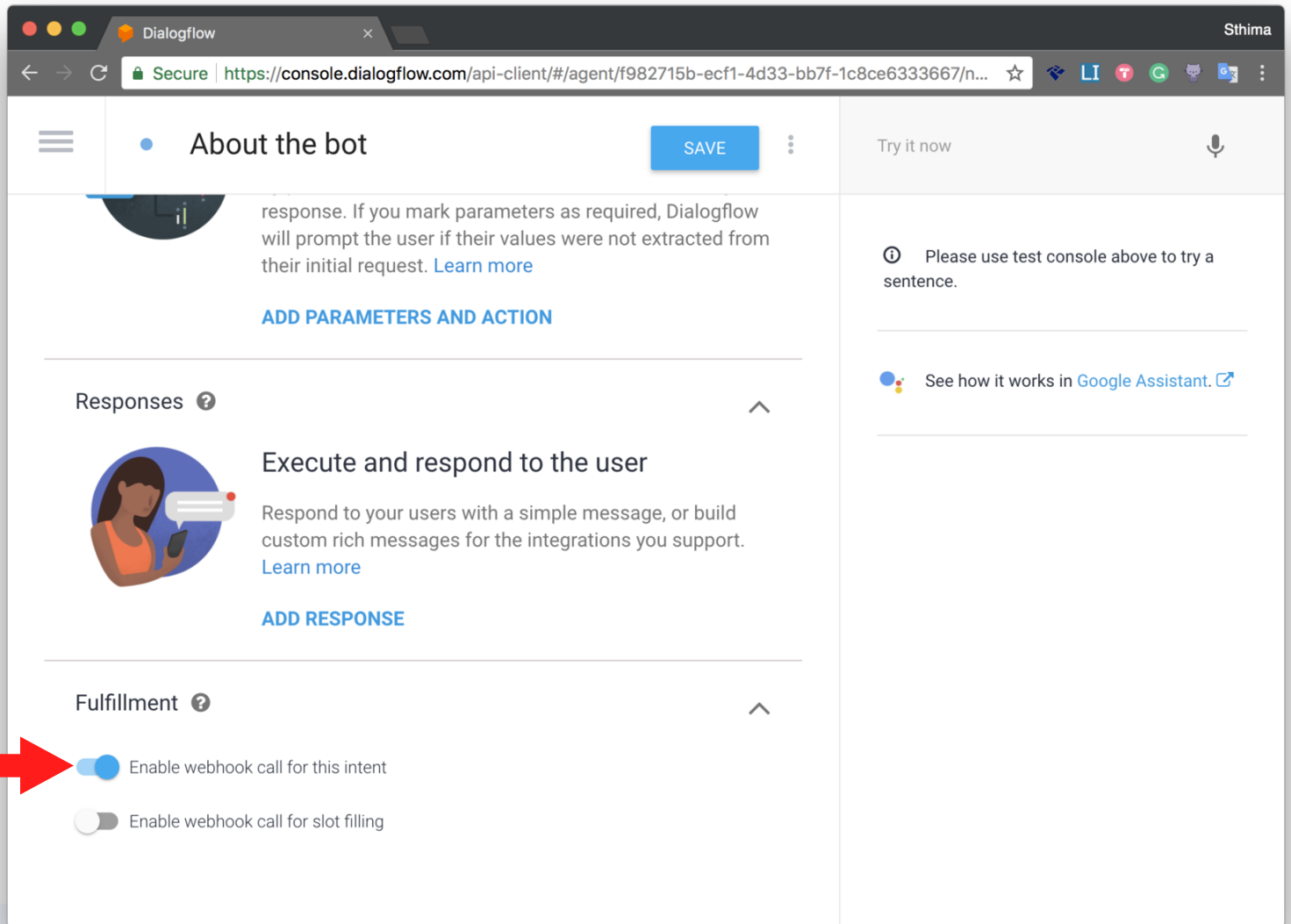
Dialogflow
Sthima
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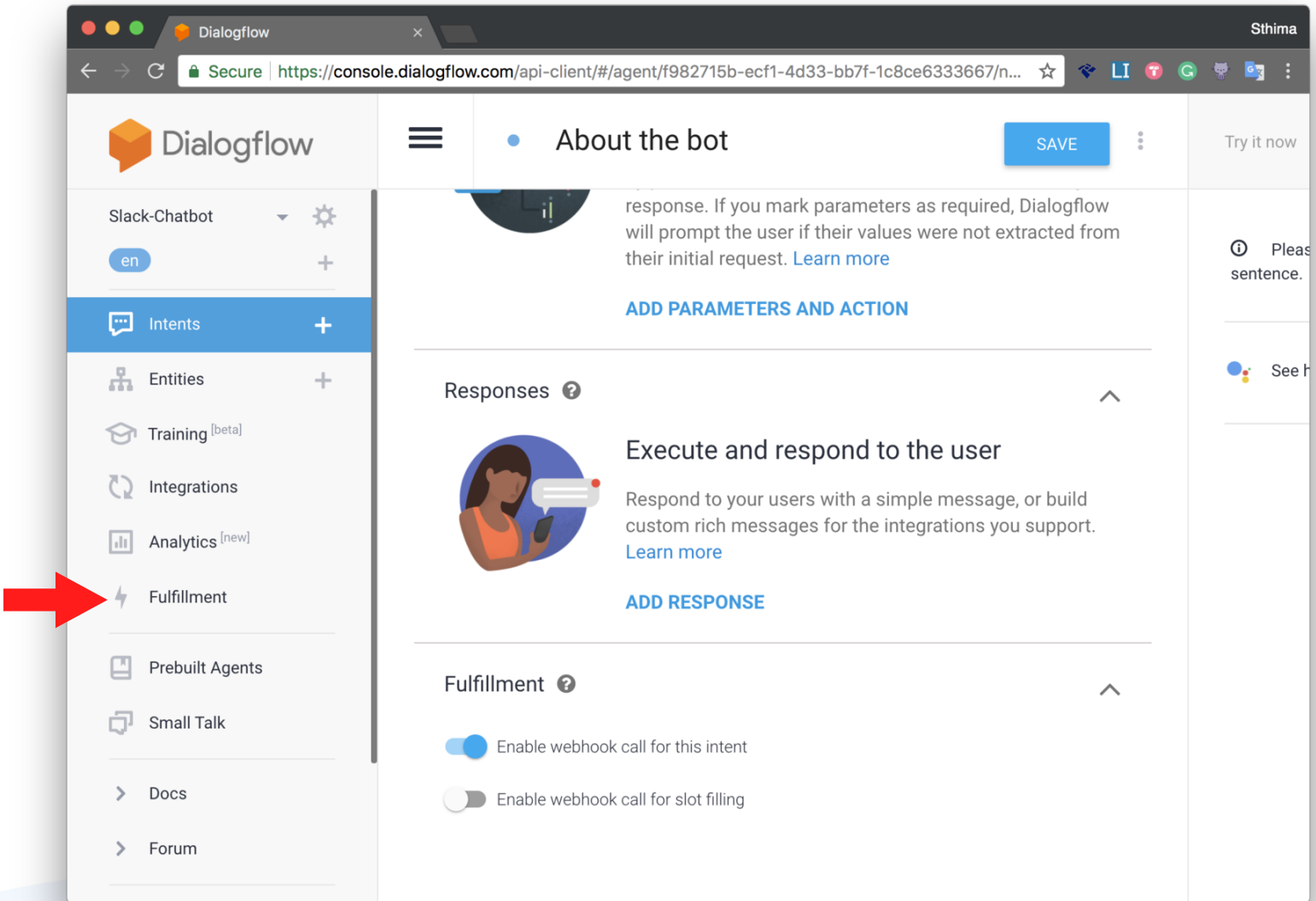
About the bot
SAVE
Try it now
response. If you mark parameters as required, Dialogflow will prompt the user if their values were not extracted from their initial request. Learn more
ADD PARAMETERS AND ACTION
Please use test console above to try a sentence.
See how it works in Google Assistant.
Responses
Execute and respond to the user
Respond to your users with a simple message, or build custom rich messages for the integrations you support. Learn more
ADD RESPONSE
Fulfillment
Enable webhook call for this intent
Enable webhook call for slot filling

- Instalar Serverless e Criar projeto
- Configurar Credenciais da AWS
- Fazer deploy no AWS Lambda
- Configurar integração Slack <-> Dialogflow
- Criar **Intenção** no Dialogflow
- Configurar Webhook no Dialogflow
- Implementar resposta no AWS Lambda


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/n...
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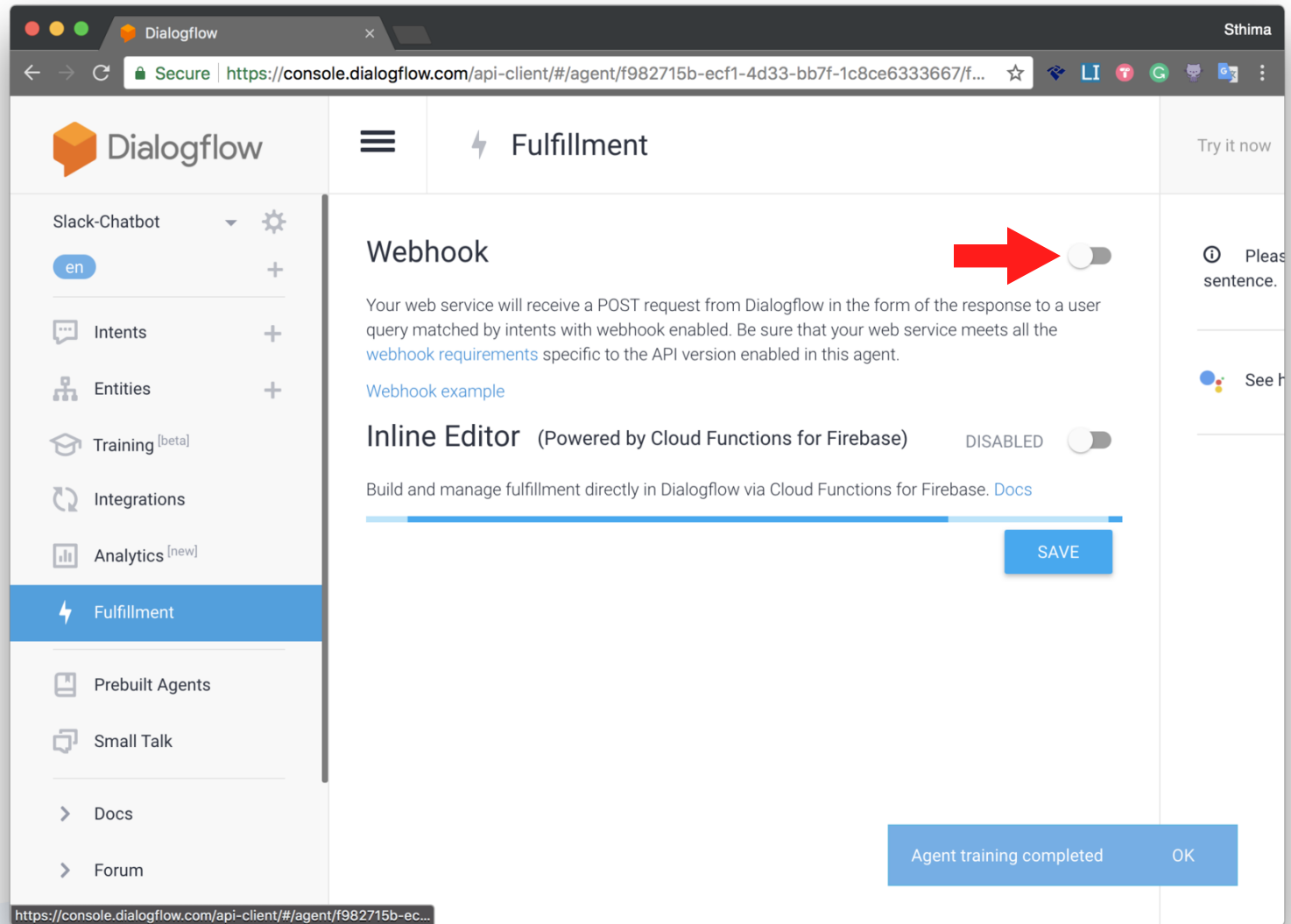
Pleas
sentence.
See h


Dialogflow
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Webhook
Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the webhook requirements specific to the API version enabled in this agent.
Webhook example
Inline Editor (Powered by Cloud Functions for Firebase)
DISABLED
Build and manage fulfillment directly in Dialogflow via Cloud Functions for Firebase. Docs
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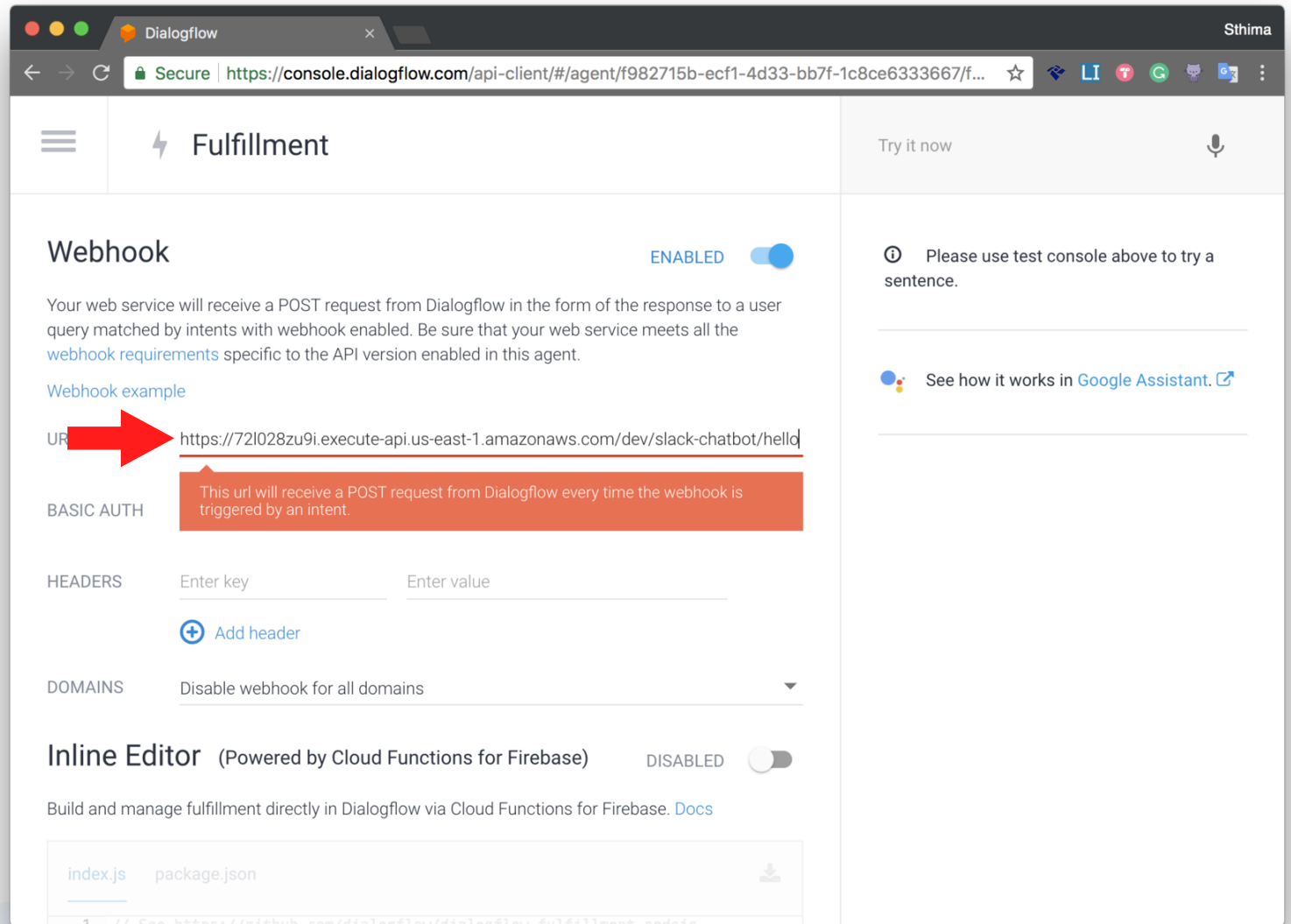
sentence.
See h
Agent training completed
OK
https://console.dialogflow.com/api-client/#/agent/f982715b-ec...


Dialogflow
Sthima
Secure https://console.dialogflow.com/api-client/#/agent/f982715b-ecf1-4d33-bb7f-1c8ce6333667/f...
Fulfillment
Try it now
Webhook
ENABLED
Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the webhook requirements specific to the API version enabled in this agent.
Webhook example
URL
https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev/slack-chatbot/hello
This url will receive a POST request from Dialogflow every time the webhook is triggered by an intent.
BASIC AUTH
HEADERS
Enter key
Enter value
Add header
DOMAINS
Disable webhook for all domains
Inline Editor (Powered by Cloud Functions for Firebase)
DISABLED
Build and manage fulfillment directly in Dialogflow via Cloud Functions for Firebase. Docs
index.js
package.json
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- Instalar Serverless e Criar projeto
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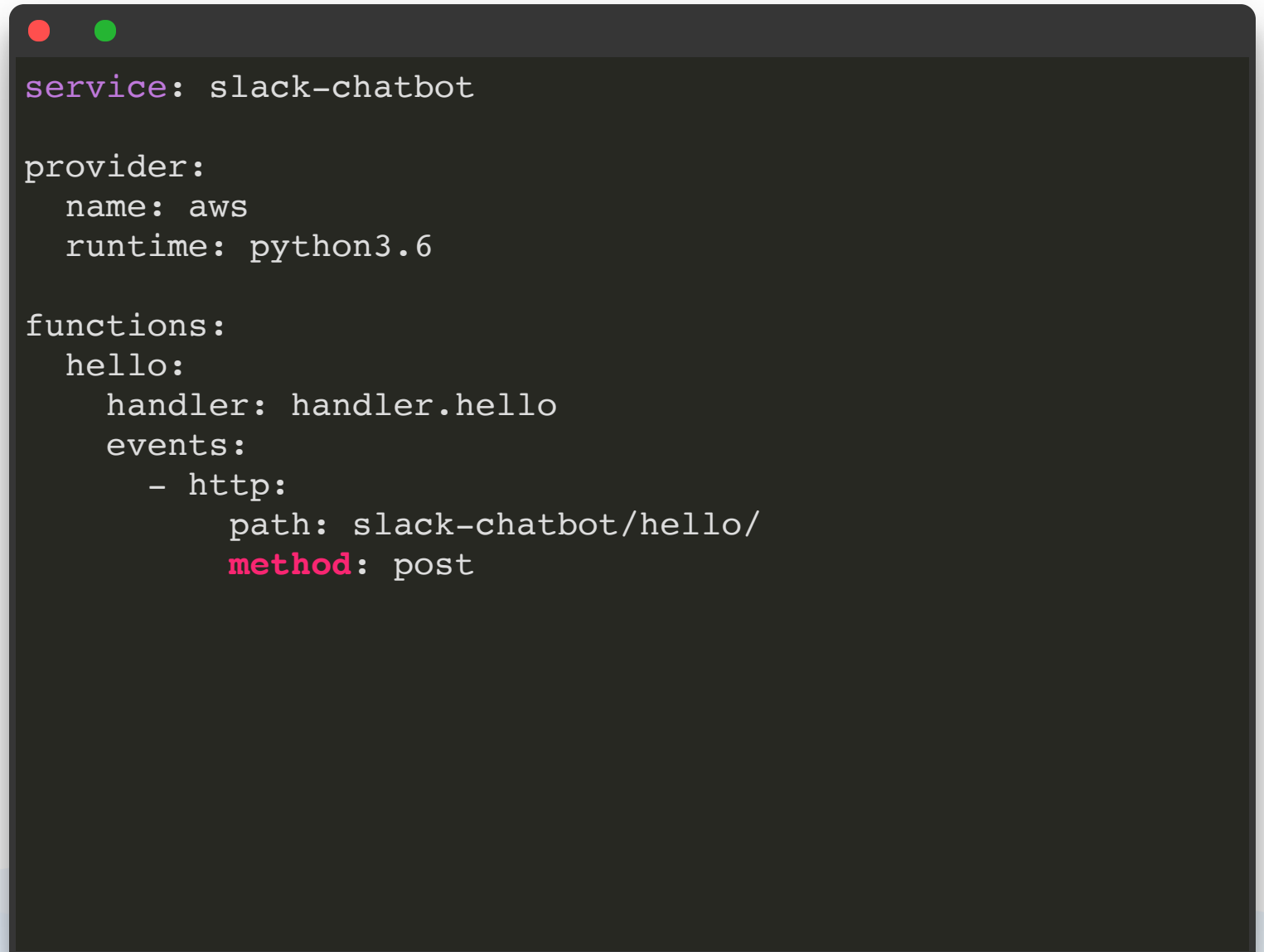
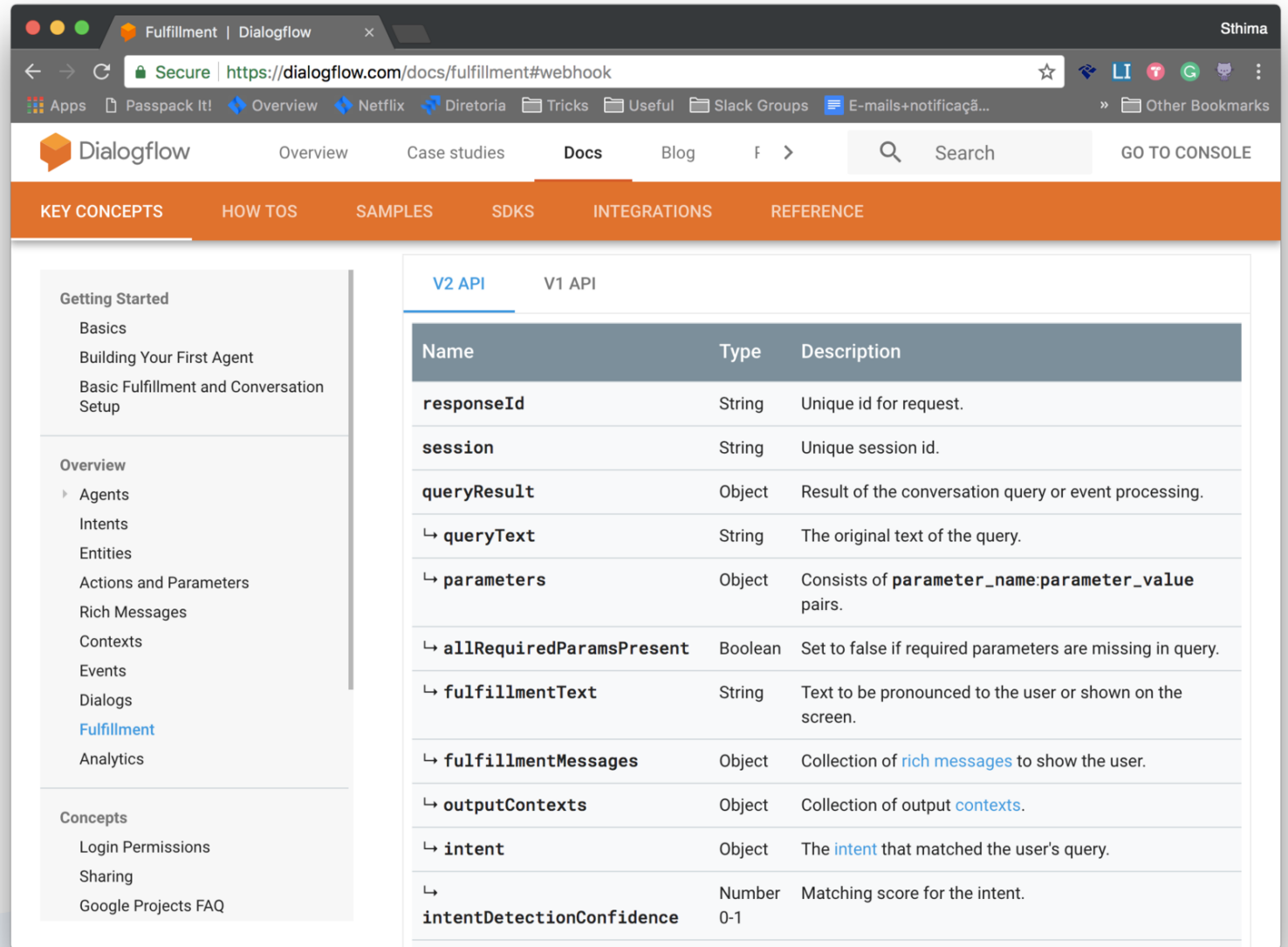


serverless.yml

```python
import json


def hello(event, context):
    data = json.loads(event['body'])
    intent = data['queryResult']['action']
    bot_name = data['queryResult']['parameters']['BotName']
    fulfillment_text = "Sorry, I don't understand what you're saying"

    if intent == "about":
        fulfillment_text = f"I'm your friendly bot named {bot_name}!"

    response = {
        "statusCode": 200,
        "body": json.dumps({
            "fulfillmentText": fulfillment_text
        })
    }

    return response
```

handler.py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Analytics
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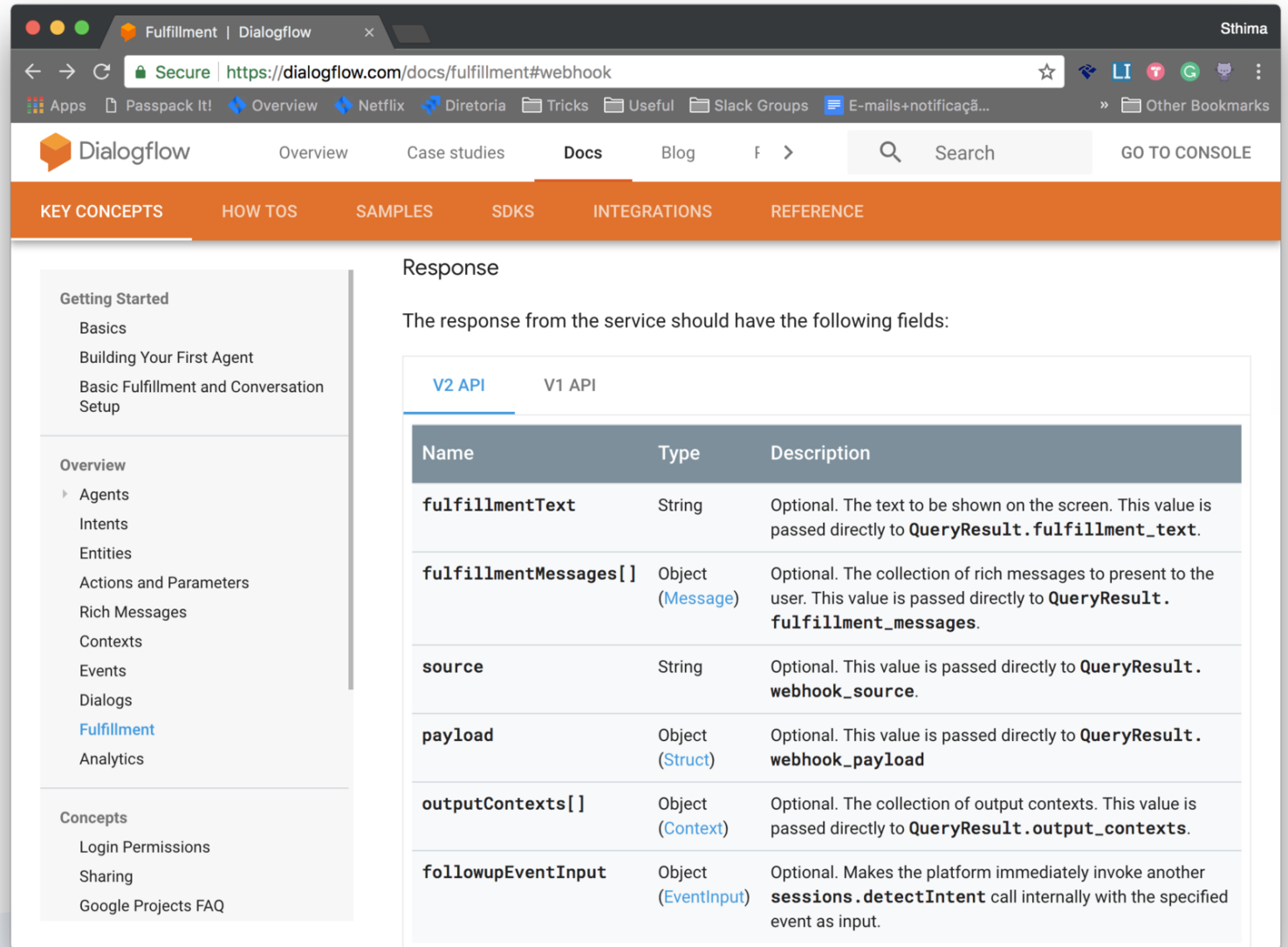
Login Permissions
Sharing
Google Projects FAQ
V2 API
V1 API
Name
Type
Description
responseId
String
Unique id for request.
session
String
Unique session id.
queryResult
Object
Result of the conversation query or event processing.
↳ queryText
String
The original text of the query.
↳ parameters
Object
Consists of parameter_name:parameter_value pairs.
↳ allRequiredParamsPresent
Boolean
Set to false if required parameters are missing in query.
↳ fulfillmentText
String
Text to be pronounced to the user or shown on the screen.
↳ fulfillmentMessages
Object
Collection of rich messages to show the user.
↳ outputContexts
Object
Collection of output contexts.
↳ intent
Object
The intent that matched the user's query.
↳ intentDetectionConfidence
Number 0-1
Matching score for the intent.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Analytics
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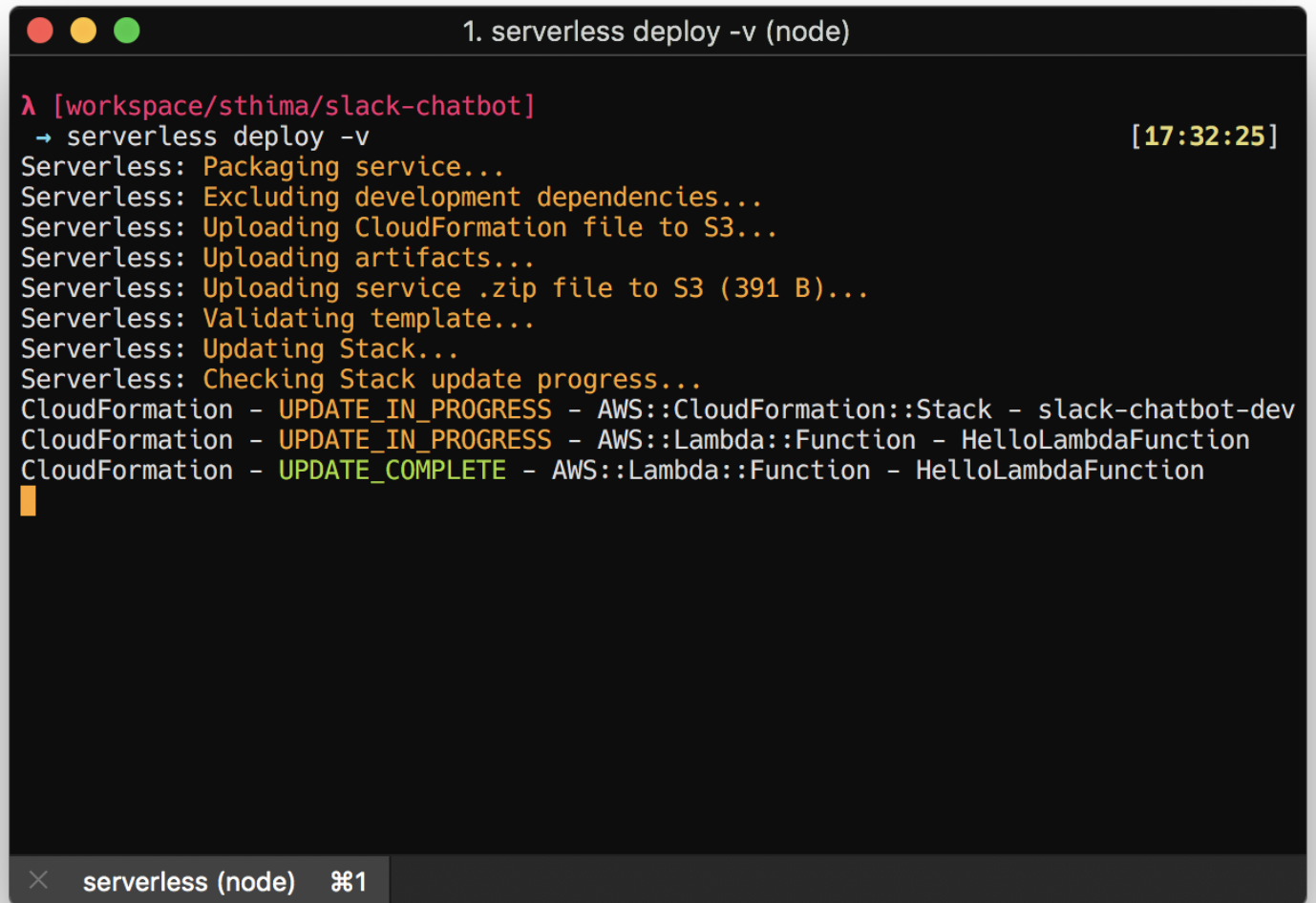
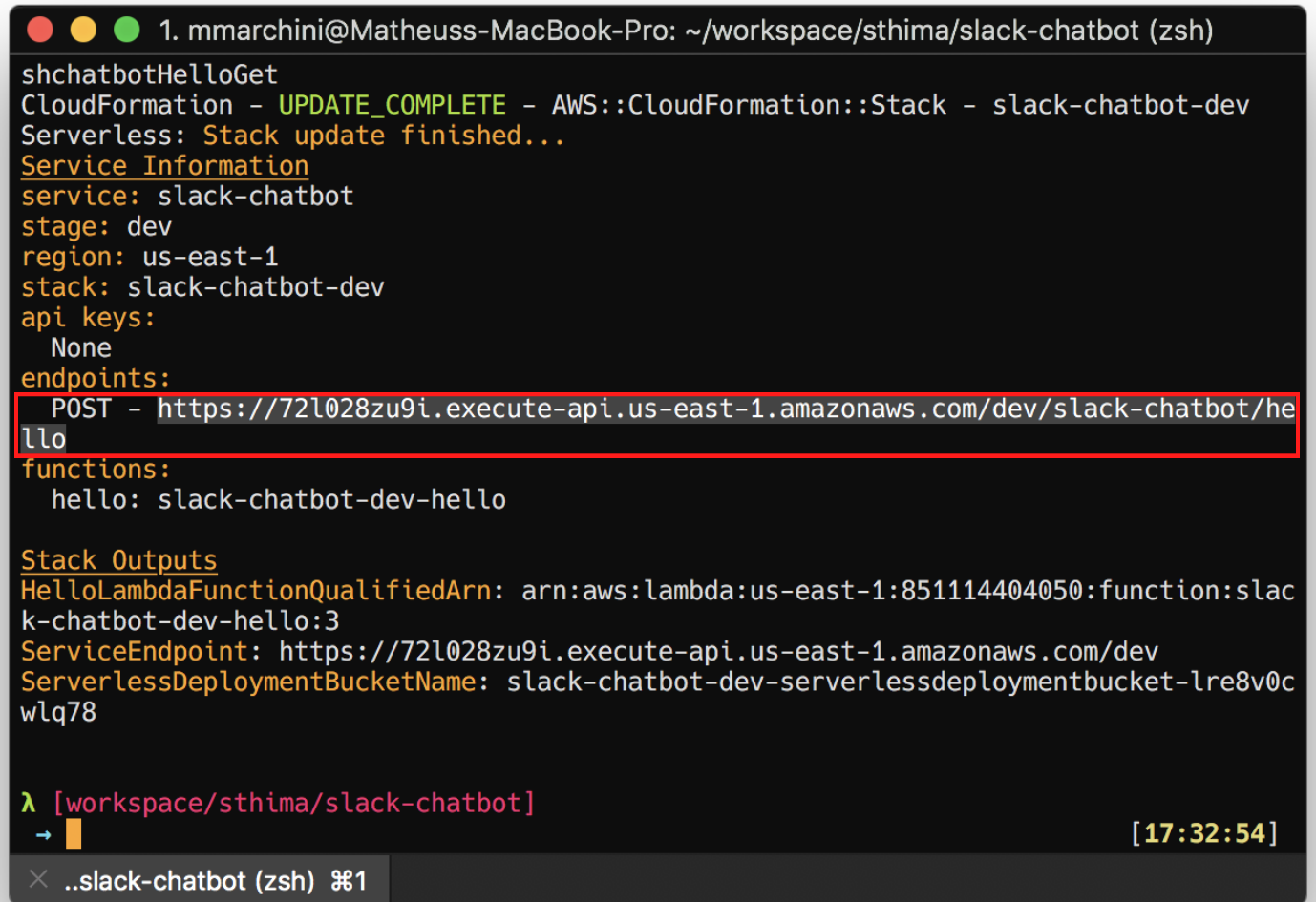
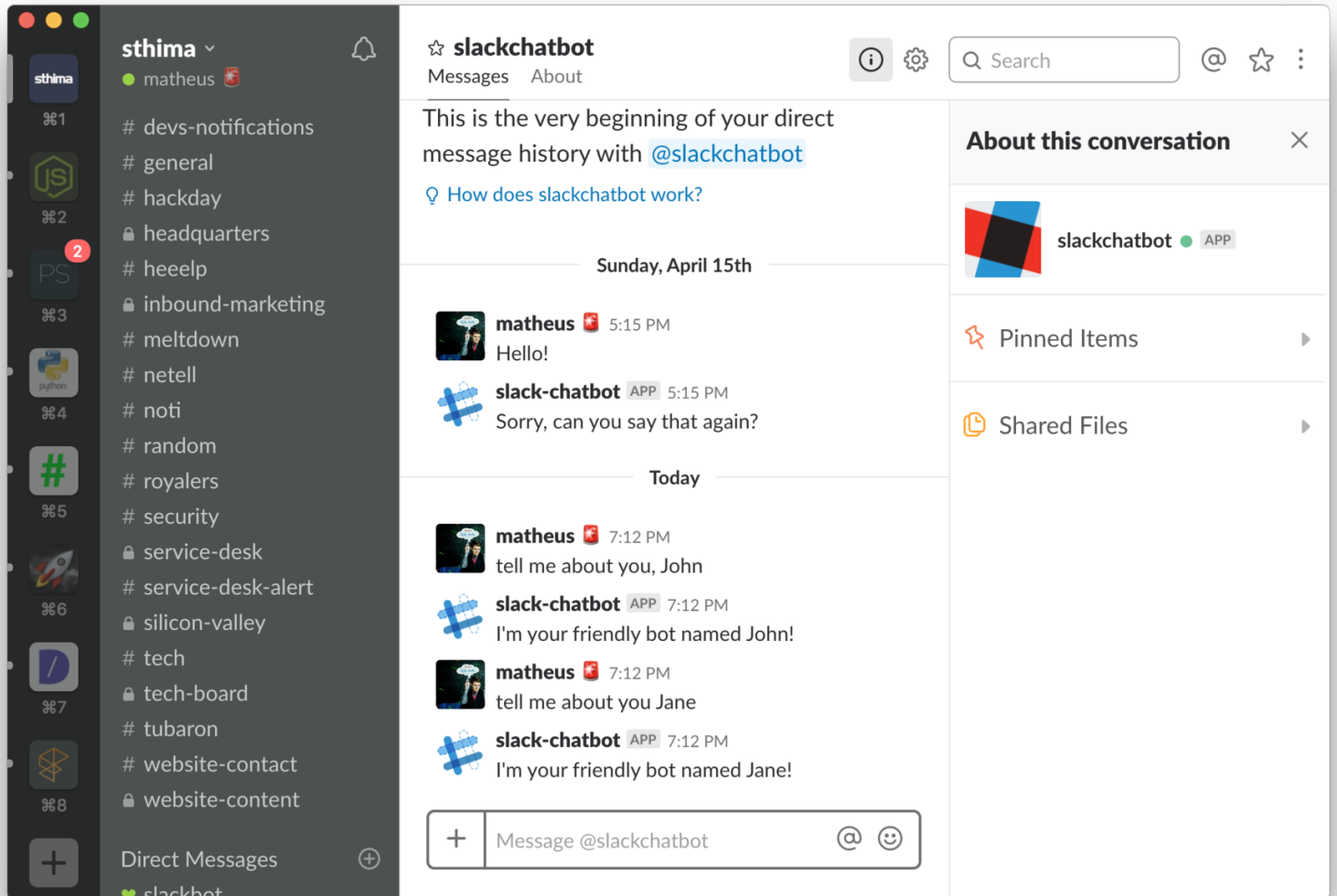
Login Permissions
Sharing
Google Projects FAQ
Response
The response from the service should have the following fields:
V2 API
V1 API
Name
Type
Description
fulfillmentText
String
Optional. The text to be shown on the screen. This value is passed directly to QueryResult.fulfillment_text.
fulfillmentMessages[]
Object (Message)
Optional. The collection of rich messages to present to the user. This value is passed directly to QueryResult.fulfillment_messages.
source
String
Optional. This value is passed directly to QueryResult.webhook_source.
payload
Object (Struct)
Optional. This value is passed directly to QueryResult.webhook_payload
outputContexts[]
Object (Context)
Optional. The collection of output contexts. This value is passed directly to QueryResult.output_contexts.
followupEventInput
Object (EventInput)
Optional. Makes the platform immediately invoke another sessions.detectIntent call internally with the specified event as input.


1. serverless deploy -v (node)
λ [workspace/sthima/slack-chatbot]
→ serverless deploy -v [17:32:25]
Serverless: Packaging service...
Serverless: Excluding development dependencies...
Serverless: Uploading CloudFormation file to S3...
Serverless: Uploading artifacts...
Serverless: Uploading service .zip file to S3 (391 B)...
Serverless: Validating template...
Serverless: Updating Stack...
Serverless: Checking Stack update progress...
CloudFormation - UPDATE_IN_PROGRESS - AWS::CloudFormation::Stack - slack-chatbot-dev
CloudFormation - UPDATE_IN_PROGRESS - AWS::Lambda::Function - HelloLambdaFunction
CloudFormation - UPDATE_COMPLETE - AWS::Lambda::Function - HelloLambdaFunction
serverless (node) ⌘1


1. mmarchini@Matheuss-MacBook-Pro: ~/workspace/sthima/slack-chatbot (zsh)
shchatbotHelloGet
CloudFormation - UPDATE_COMPLETE - AWS::CloudFormation::Stack - slack-chatbot-dev
Serverless: Stack update finished...
Service Information
service: slack-chatbot
stage: dev
region: us-east-1
stack: slack-chatbot-dev
api keys:
None
endpoints:
POST - https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev/slack-chatbot/hello
functions:
hello: slack-chatbot-dev-hello
Stack Outputs
HelloLambdaFunctionQualifiedArn: arn:aws:lambda:us-east-1:851114404050:function:slack-chatbot-dev-hello:3
ServiceEndpoint: https://72l028zu9i.execute-api.us-east-1.amazonaws.com/dev
ServerlessDeploymentBucketName: slack-chatbot-dev-serverlessdeploymentbucket-lre8v0cwlq78
λ [workspace/sthima/slack-chatbot]
→
[17:32:54]
..slack-chatbot (zsh) ⌘1


sthima
matheus
devs-notifications
general
hackday
headquarters
heeelp
inbound-marketing
meltdown
netell
noti
random
royalers
security
service-desk
service-desk-alert
silicon-valley
tech
tech-board
tubaron
website-contact
website-content
Direct Messages
slackbot
slackchatbot
Messages
About
Search
This is the very beginning of your direct message history with @slackchatbot
How does slackchatbot work?
Sunday, April 15th
matheus 5:15 PM
Hello!
slack-chatbot APP 5:15 PM
Sorry, can you say that again?
Today
matheus 7:12 PM
tell me about you, John
slack-chatbot APP 7:12 PM
I'm your friendly bot named John!
matheus 7:12 PM
tell me about you Jane
slack-chatbot APP 7:12 PM
I'm your friendly bot named Jane!
Message @slackchatbot
About this conversation
slackchatbot APP
Pinned Items
Shared Files

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- Criar **Intenção** no Dialogflow
- Configurar Webhook no Dialogflow
- Implementar resposta no AWS Lambda

sthima

www.sthima.com

@mmarkini

http://mmarchini.me/

oss@mmarchini.me

https://github.com/mmarchini/