Guys don't want to commit!



When I initially wrote this scenario, Twitter Developer Account could still be instantaneously registered. However, now it takes several days (weeks?) to process a registration requests, so chances are you have not been registered yet.

As an alternative to Twitter, consider using our SynTouch Yammer channels for sending out your message instead.

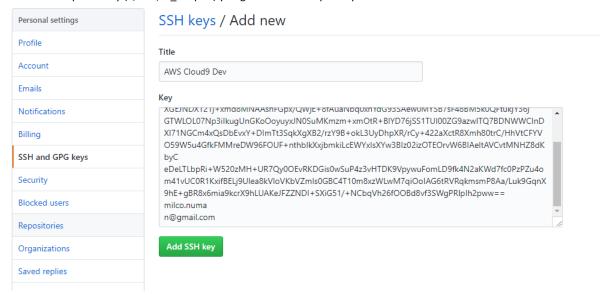
Use the Yammer Python SDK (https://developer.yammer.com/docs/python-sdk) and a test token (https://developer.yammer.com/docs/test-token).

Beware, you're in uncharted waters here – but you chose a challenging assignment!

- 1) Use your current account at twitter or register a new account
- 2) Register a new app on this Twitter account, you'll need:
 - a. Consumer key (API key)
 - b. Consumer secret (API secret)
 - c. Access token (generate)
 - d. Access token secret (generated with the access token)
- 3) Create a new empty repository in Github (note the URL)
- 4) Create a new empty repository on your Cloud9 instance (from a terminal window):

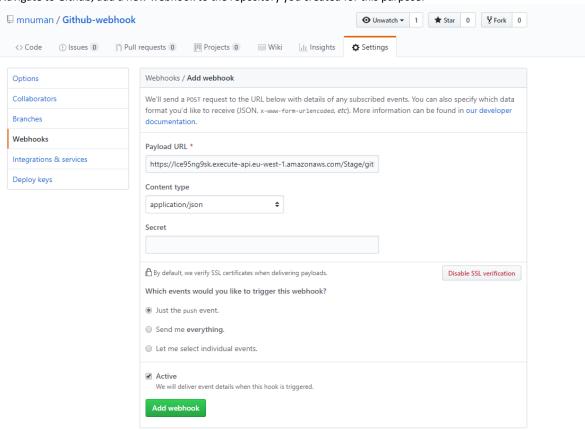
git init .
git remote add origin git@github.com:<your-github-username>/<Your-GithubReponame>

- 5) Generate a new keypair from your Cloud9 terminal window: ssh-keygen -t rsa -b 4096 -C "your-email-for-github"
- 6) Configure your git client by setting your identity for git (Cloud9, terminal window): git config --global user.name "User name to show in github" git config global user.email "your-github-email-here"
- 7) Now ad d the public key (~/.ssh/id_rsa.pub) you generated in step 6 to your Github account:



- 8) Create a new serverless application + function in Cloud9, type empty python 3.6, triggered by API Gateway on resource path /github, no security. Defaults apply.
- 9) Deploy the API to AWS to get an URL for the API from API gateway

10) Navigate to Github, add a new webhook to the repository you created for this purpose:



- 11) Test from Github that the invoke works
- 12) Now commit your code from Cloud9's terminal window and push this to Github. This should trigger the actual lambda function.
- 13) Verify in CloudWatch that your lambda function has been triggered and inspect the payload.
- 14) Change into your Application's directory using the Cloud9 terminal window and install the Twitter package here locally:
 - pip install tweepy -t .
- 15) Generate the requirements file and prevent the dependencies from being checked in by editing the .gitignore file:

```
milco:~/environment/GithubWebhook (master) $ pip freeze > requirements.txt
milco:~/environment/GithubWebhook (master) $ more .gitignore
.application.json
certifi/
chardet/
examples/
idna/
oauthlib/
requests/
requests_oauthlib/
tweepy/
urllib3/
milco:~/environment/GithubWebhook (master) $
```

16) Add the secrets/keys as configuration variables to your configuration template (the yaml template):

```
template.yaml x +

AMSTemplateFormatVersion: '2010-09-09'
Transform: 'AMS::Serverless-2016-10-31'
Description: An AMS Serverless Specification template describing your function.
Resources:
GithubMebhook:
Type: 'AMS::Serverless::Function'
Properties:
Handler: GithubMebhook/lambda_function.lambda_handler
Runtime: python3.6
Description: 'Tweet on commit'
HemorySize: 128
Timeout: 15
Timeout: 15
CONSUMER EK: SQMYVEUSX6L4EtSqe:00mR8SQ
CONSUMER EK: SQMYVEUSX6L4EtSqe:00mR8SQ
CONSUMER EK: P166MF54Q103pR3OmzXZeH16CAKUZ9MSiuKEYVDMFeIBR4gvC
ACCESS_TOKEN: 966365883114409984-DPL:fbbqr5biFLcXNqzjXtgbzs1237rq
ACCESS_TOKEN: SECRET: t7gEDS5ecCevXUJaeLGcLZ7CeZ2cFGtDoxp34svpaEQ9yb
Events:
LambdaMicroservice:
Type: Api
Properties:
Path: /github
Mcthod: AMY
GithubMebhookPermission:
Type: 'AMS::Lambda::ProvkeFunction'
FunctionName:
Fin::GetAtt':
- GithubMebhook
- Arn

Fin::GetAtt':
- GithubMebhook
- Arn

Principal: apigateway.amazonaws.com
SourceArn:
'Fn::Sub': 'arn:aws:execute-api:${AMS::Region}:${AMS::AccountId}:*/*/**
```

17) Finish the implementation code in Python:

```
| Import | Samper | S
```

- 18) Now deploy the API again, since the code has changed since last push.
- 19) Finish up by committing your changed code to Github
- 20) Now you should see a message on twitter:



Hi, Milco Numan just commited with message Take author/message from head_commit instead of commits array!

