### Build a Serverless Github Bot in GCP

Franklin Diaz

DE:AD:10:C5

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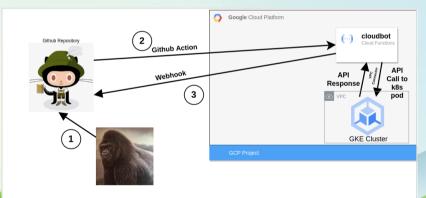




# Overview: Usage

The big picture for operation.

1111



# Overview: Deployment

The big picture for deployment.



#### Outline

A high level overview of the learning path is as follows:

- Prerequisites
- Github setup.
- Set up a development environment.
- Review the Python source for the bot.
- Configure Terraform and deploy the bot.
- Test it out
- Explore possibilities for extending the functionality.

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## Setup: VSCode

#### VSCode (https://code.visualstudio.com)

- Windows 64 bit User Installer: VSCodeUserSetup-x64-1.73.1.exe
- Mac Universal: VSCode-darwin-universal.zip
- Linux (Debian, Ubuntu): code\_1.73.1-1667967334\_amd64.deb
- Linux (Red Hat, Fedora, SUSE): code-1.73.1-1667967421.el7.x86\_64.rpm

Click this link for details on using dev containers in VSCode







INTRODUCTION PRE-WORK

## Setup: git

#### GIT (https://git-scm.com/downloads)

- Windows 32 Bit: Git-2.38.1-64-bit.exe
- Windows 64 Bit: Git-2.38.1-32-bit.exe
- Mac: git-2.15.0-intel-universal-mavericks.dmg



## Setup: Docker Desktop

Docker Desktop (https://www.docker.com/)

- Windows: Docker Desktop Installer.exe
- MacOS (Intel Chip): Docker.dmg
- MacOS (M1 Chip): Docker.dmg
- Linux instructions can be found: here

Click here to see Docker setup steps from Microsoft





INTRODUCTION PRF-WORK

# Setup: Clone and Open the Project Repository

- Time to clone the repository.
- Click this link for the Github repository
- Here is the Microsoft VSCode dev containers tutorial







INTRODUCTION PRE-WORK **PYTHON EXTRA** 

## Extra: Connect it to your GKE cluster

I can demo this or we can try it if we have time.



INTRODUCTION **EXTRA** 

## Future: Scan the PR comments for commands

The Cloud Function could monitor the PR for certain strings, using these to trigger actions.



INTRODUCTION **EXTRA** 

#### Resources

Click here for Session Details

Project source files are available:

https://github.com/devsecfranklin/workshop-codemash-2023

Prerequisites are available at this link.



## Contact

Mastodon:

"@devsecfranklin@defcon.social"

E-mail: devsecfranklin@duck.com

