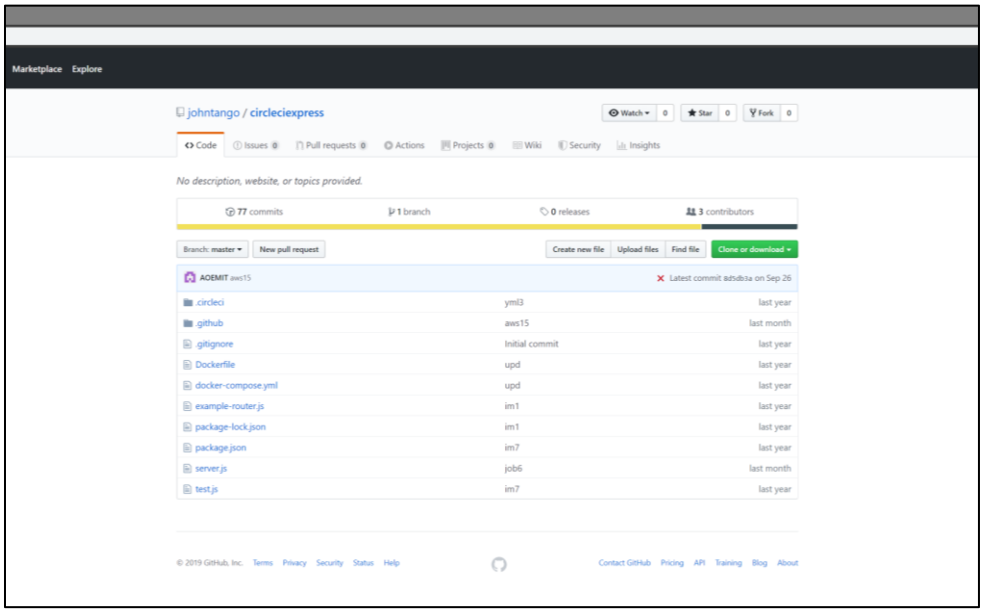
Assignment 4

Overall Steps:

1. ***Fork the repo from: https://github.com/johntango/circleciexpress***

Navigate to the circleCI example GitHub Repo on Prof. Williams GitHub (here: https://github.com/johntango/circleciexpress) and fork this so that you have a copy of the repo in your own account that you can edit at will without affecting their or anyone else's copy. To fork click the *Fork* button on the top right-hand corner of the screen.


Marketplace Explore
johntango / circleciexpress
Watch 0 Star 0 Fork 0
Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights

No description, website, or topics provided.

77 commits · 1 branch · 0 releases · 3 contributors

Branch: master · New pull request · Create new file · Upload files · Find file · Clone or download

AOEMIT aws15 — Latest commit adsdb3a on Sep 26

.circleci	yml3	last year
.github	aws15	last month
.gitignore	Initial commit	last year
Dockerfile	upd	last year
docker-compose.yml	upd	last year
example-router.js	im1	last year
package-lock.json	im1	last year
package.json	im7	last year
server.js	job6	last month
test.js	im7	last year

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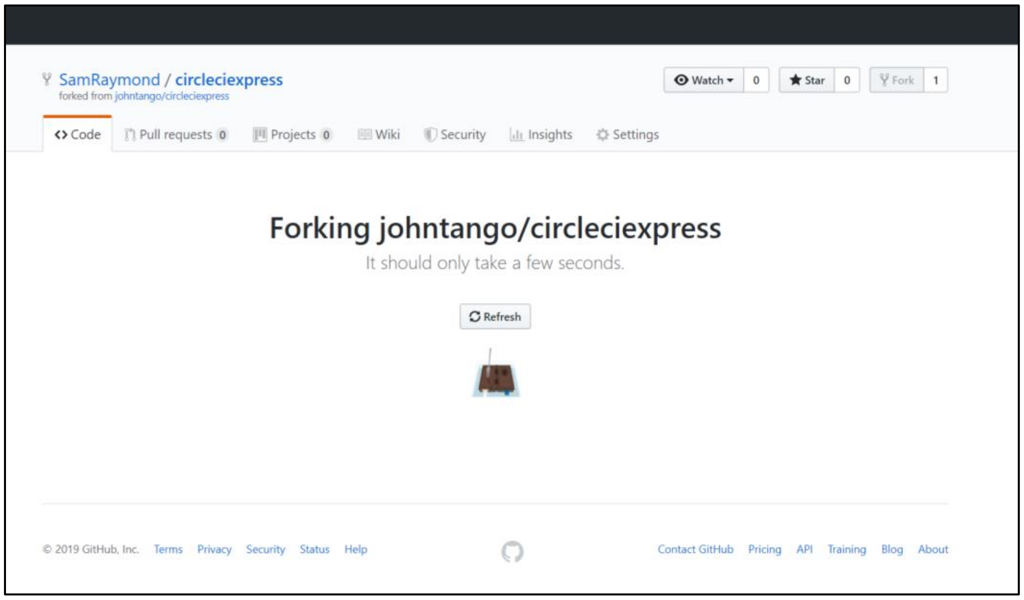
You will see GitHub performing the forking and once it completes, you will be taken to your account and your forked version of the repo.


SamRaymond / circleciexpress
forked from johntango/circleciexpress
Watch 0
Star 0
Fork 1
Code
Pull requests 0
Projects 0
Wiki
Security
Insights
Settings

Forking johntango/circleciexpress

It should only take a few seconds.

Refresh
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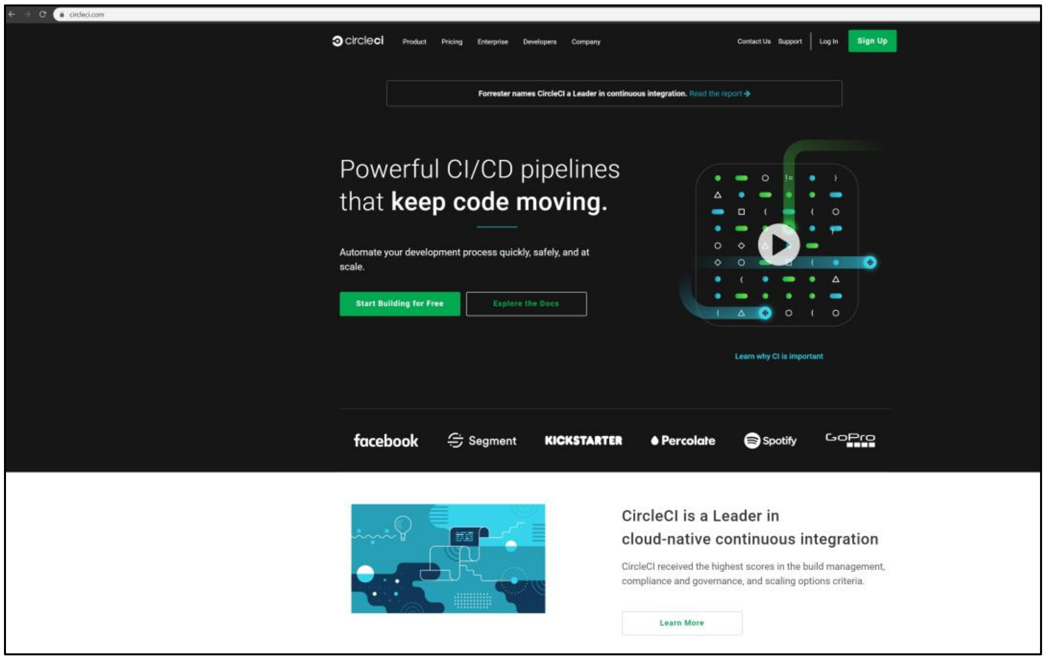
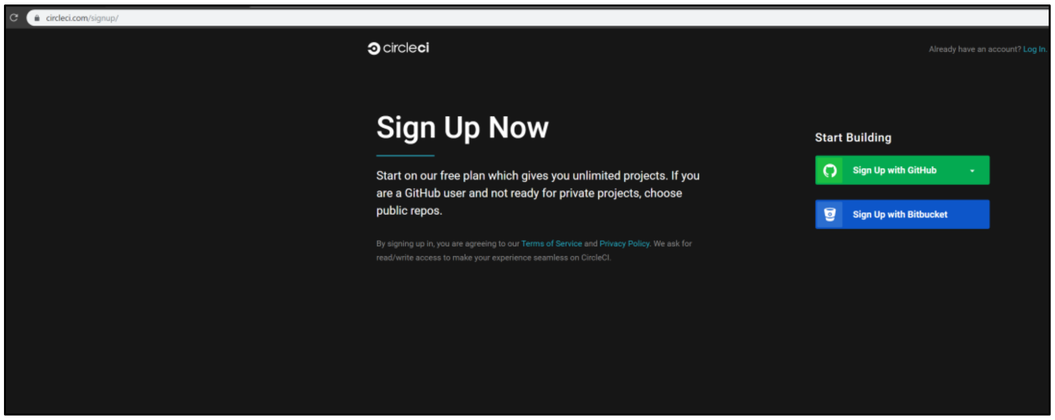
You will be downloading (cloning) this repo soon to make sure you are able to clone from this account to the machine you are using.

1. ***Sign up to CircleCI and link the GitHub profile***

Navigate to circleci.com to sign up for an account. Click on the *Sign-Up* button on the top right corner of the page.


circleci
Product Pricing Enterprise Developers Company
Contact Us Support Log In Sign Up
Forrester names CircleCI a Leader in continuous integration. Read the report →
Powerful CI/CD pipelines that keep code moving.
Automate your development process quickly, safely, and at scale.
Start Building for Free
Explore the Docs
Learn why CI is important
facebook
Segment
KICKSTARTER
Percolate
Spotify
GoPro
CircleCI is a Leader in cloud-native continuous integration
CircleCI received the highest scores in the build management, compliance and governance, and scaling options criteria.
Learn More

We will be linking our GitHub account to CircleCI so when prompted, select the "Sign Up with GitHub" option.


circleci.com/signup/

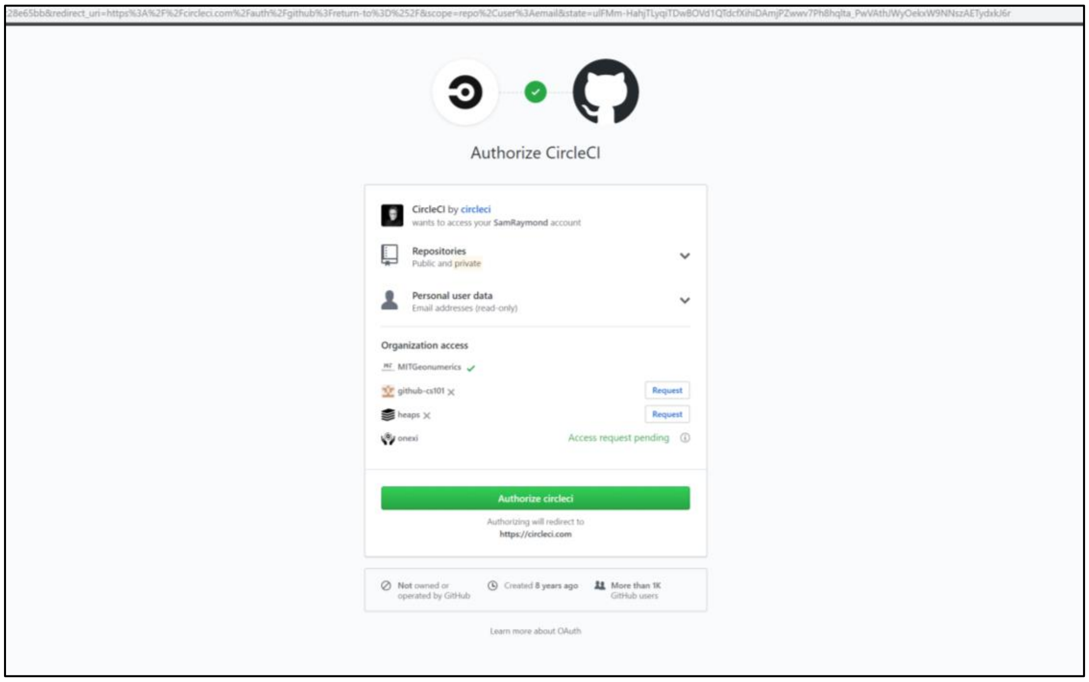
Already have an account? Log In.

Sign Up Now

Start on our free plan which gives you unlimited projects. If you are a GitHub user and not ready for private projects, choose public repos.

By signing up in, you are agreeing to our Terms of Service and Privacy Policy. We ask for read/write access to make your experience seamless on CircleCI.

You will then be prompted to either sign in to GitHub or be taken straight to the authorization page. This will tell us what CircleCI needs to have access to so it can function.


Authorize CircleCI

CircleCI by circleci wants to access your SamRaymond account

Repositories: Public and private

Personal user data: Email addresses (read-only)

Organization access

MITGeonumerics ✓

github-cs101 ✗ Request

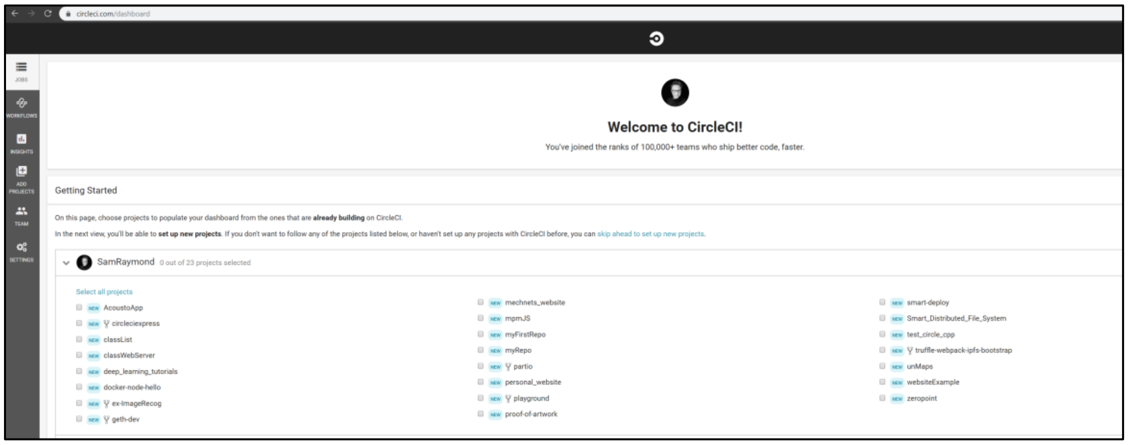
heaps ✗ Request

onexi Access request pending

Authorizing will redirect to https://circleci.com

Not owned or operated by GitHub · Created 8 years ago · More than 1K GitHub users

Authorize CircleCI by clicking the button and you will be taken to your new dashboard.


circleci.com/dashboard

Welcome to CircleCI!

You've joined the ranks of 100,000+ teams who ship better code, faster.

Getting Started

On this page, choose projects to populate your dashboard from the ones that are **already building** on CircleCI.

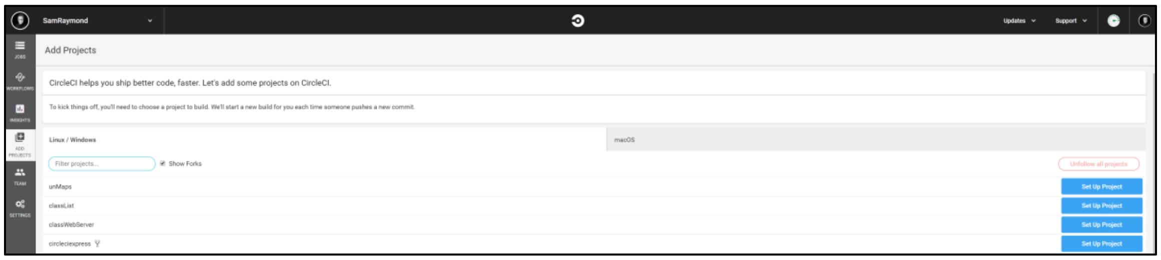
In the next view, you'll be able to **set up new projects**. If you don't want to follow any of the projects listed below, or haven't set up any projects with CircleCI before, you can skip ahead to set up new projects.

SamRaymond 0 out of 23 projects selected

Select all projects

NEW AcoustoApp	NEW mechnets_website	NEW smart-deploy
NEW circleciexpress	NEW mpmJS	NEW Smart_Distributed_File_System
NEW classList	NEW myFirstRepo	NEW test_circle_cpp
NEW classWebServer	NEW myRepo	NEW truffle-webpack-ipfs-bootstrap
NEW deep_learning_tutorials	NEW partio	NEW unMaps
NEW docker-node-hello	NEW personal_website	NEW websiteExample
NEW ex-ImageRecog	NEW playground	NEW zeropoint
NEW geth-dev	NEW proof-of-artwork	

Your dashboard will likely look similar to the image above, however with fewer/more projects (this depends on how many repos you have in your GitHub account). We will link our circleciexpress repo that we just forked. To do this click on the *ADD PROJECTS* button on the left menu.



Add Projects

CircleCI helps you ship better code, faster. Let's add some projects on CircleCI.

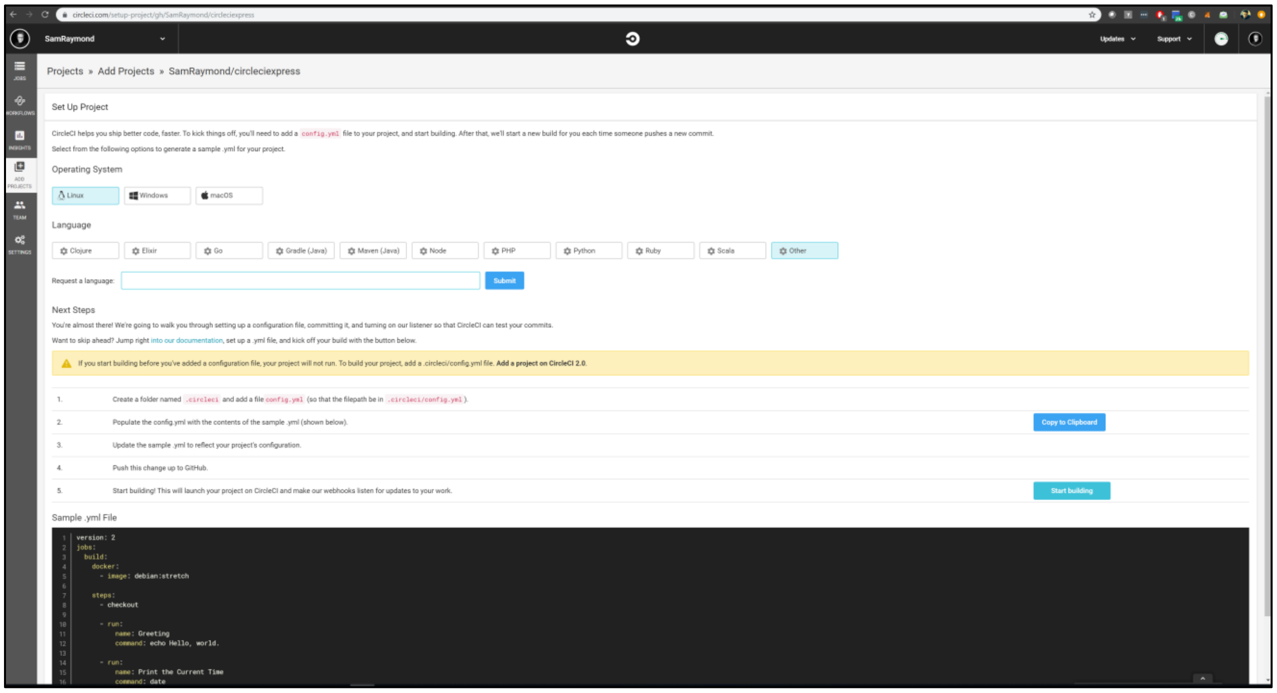
To kick things off, you'll need to choose a project to build. We'll start a new build for you each time someone pushes a new commit.

Linux / Windows | macOS

Filter projects... ✓ Show Forks | Unfollow all projects

unMaps	Set Up Project
classList	Set Up Project
classWebServer	Set Up Project
circleciexpress	Set Up Project

Here you will be given the option on the far right to *Set Up Project* on the circleciexpress repo. Click this button.


circleci.com/setup-project/gh/SamRaymond/circleciexpress

SamRaymond

Projects » Add Projects » SamRaymond/circleciexpress

Set Up Project

CircleCI helps you ship better code, faster. To kick things off, you'll need to add a `config.yml` file to your project, and start building. After that, we'll start a new build for you each time someone pushes a new commit.

Select from the following options to generate a sample .yml for your project.

Operating System

[✓ Linux] Windows macOS

Language

Clojure Elixir Go Gradle (Java) Maven (Java) Node PHP Python Ruby Scala [✓ Other]

Request a language: Submit

Next Steps

You're almost there! We're going to walk you through setting up a configuration file, committing it, and turning on our listener so that CircleCI can test your commits.

Want to skip ahead? Jump right into our documentation, set up a .yml file, and kick off your build with the button below.

If you start building before you've added a configuration file, your project will not run. To build your project, add a .circleci/config.yml file. **Add a project on CircleCI 2.0.**

1. Create a folder named `.circleci` and add a file `config.yml` (so that the filepath be in `.circleci/config.yml`).
2. Populate the config.yml with the contents of the sample .yml (shown below). Copy to Clipboard
3. Update the sample .yml to reflect your project's configuration.
4. Push this change up to GitHub.
5. Start building! This will launch your project on CircleCI and make our webhooks listen for updates to your work. Start building

Sample .yml File

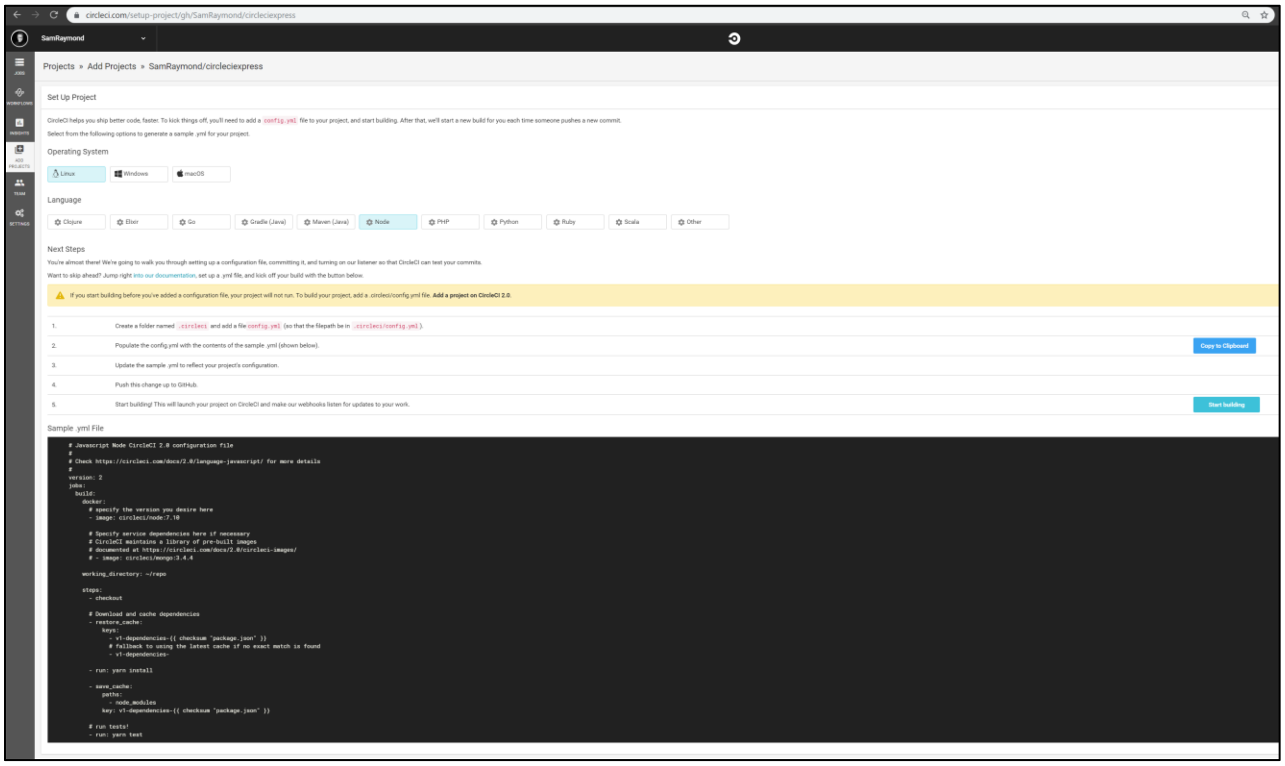
```
version: 2
jobs:
  build:
    docker:
      - image: debian:stretch

    steps:
      - checkout

      - run:
          name: Greeting
          command: echo Hello, world.

      - run:
          name: Print the Current Time
          command: date
```

You will see the initial setup for the project displayed in the image above. Since we have NodeJS code, we need to select the Node option in the Language section. The rest can stay as it is.


circleci.com/setup-project/gh/SamRaymond/circleciexpress

SamRaymond

Projects » Add Projects » SamRaymond/circleciexpress

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Sample .yml File

```
# Javascript Node CircleCI 2.0 configuration file
#
# Check https://circleci.com/docs/2.0/language-javascript/ for more details
#
version: 2
jobs:
  build:
    docker:
      # specify the version you desire here
      - image: circleci/node:7.10

      # Specify service dependencies here if necessary
      # CircleCI maintains a library of pre-built images
      # documented at https://circleci.com/docs/2.0/circleci-images/
      # - image: circleci/mongo:3.4.4

    working_directory: ~/repo

    steps:
      - checkout

      # Download and cache dependencies
      - restore_cache:
          keys:
            - v1-dependencies-{{ checksum "package.json" }}
            # fallback to using the latest cache if no exact match is found
            - v1-dependencies-

      - run: yarn install

      - save_cache:
          paths:
            - node_modules
          key: v1-dependencies-{{ checksum "package.json" }}

      # run tests!
      - run: yarn test
```

You can see that the text in the black box has changed with this selection. This "config.yml" file is something we will need to put into our forked repo. Normally this would be added as a fresh file. However, the repo that we forked already has a file like this, in a folder called " .circle", so all we need to do is copy the text in the black area and paste that in the file on our repo and push it back to connect CircleCI.

2. Clone the GitHub repo you forked

Using your GitHub account, clone the circleciexpress repo to your local machine. If you need to recall how to do this, refer to the primer material for GitHub.

3. Make a change to the repo on the local machine

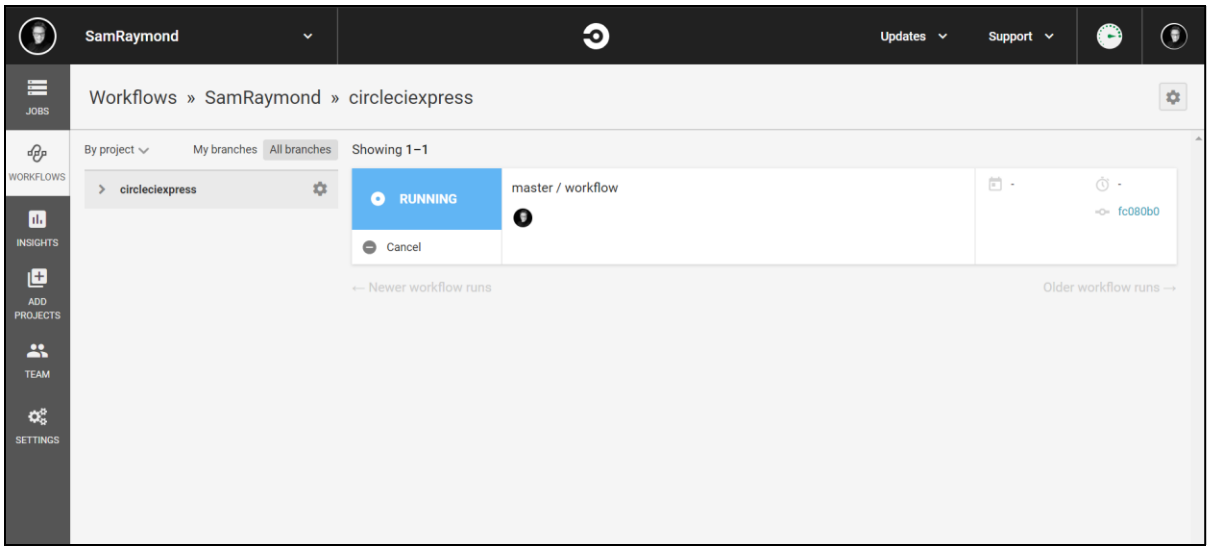
In the downloaded repo, you will see a folder called ".circleci". In this folder there is a file, config.yml. You will need to open that file in VSCode remove all of the contents of that file and replace it with the text that CircleCI provides. You can use the "Copy to Clipboard" button on the webpage to copy the necessary text. Paste this in the file and save it. The file should only have the text that the webpage recommends.

4. Do a Git push for the new work

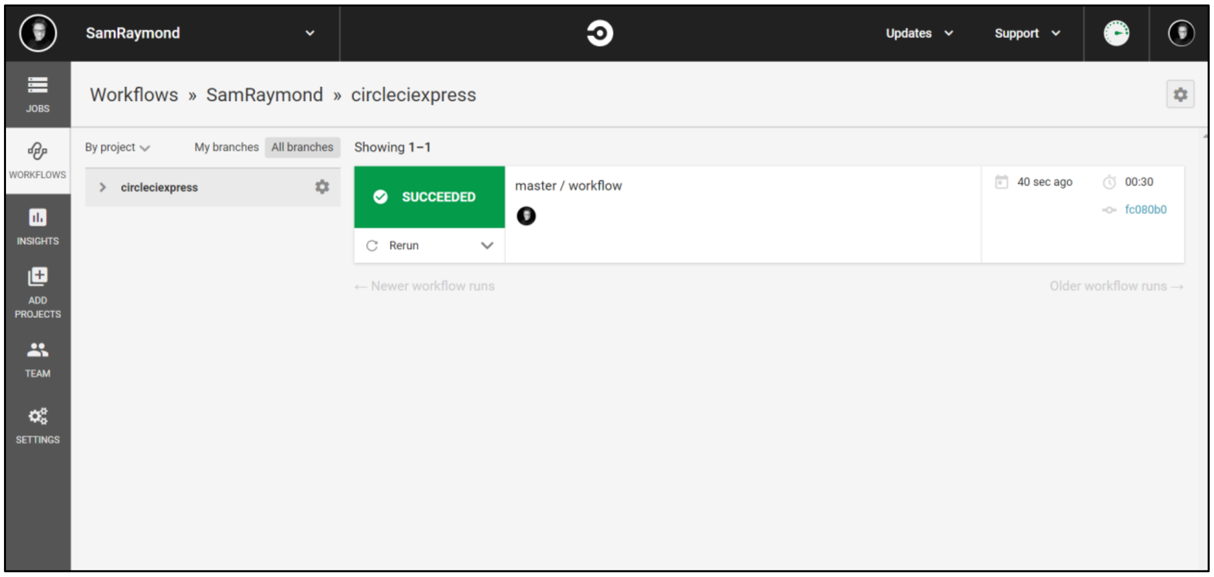
To ensure that CircleCI is watching this repo, perform a git add/commit/push cycle (again refer to the primer if you need to refresh how to do this) so that this change to the file is reflected in your repo on your GitHub.

5. Check CircleCI for the testing

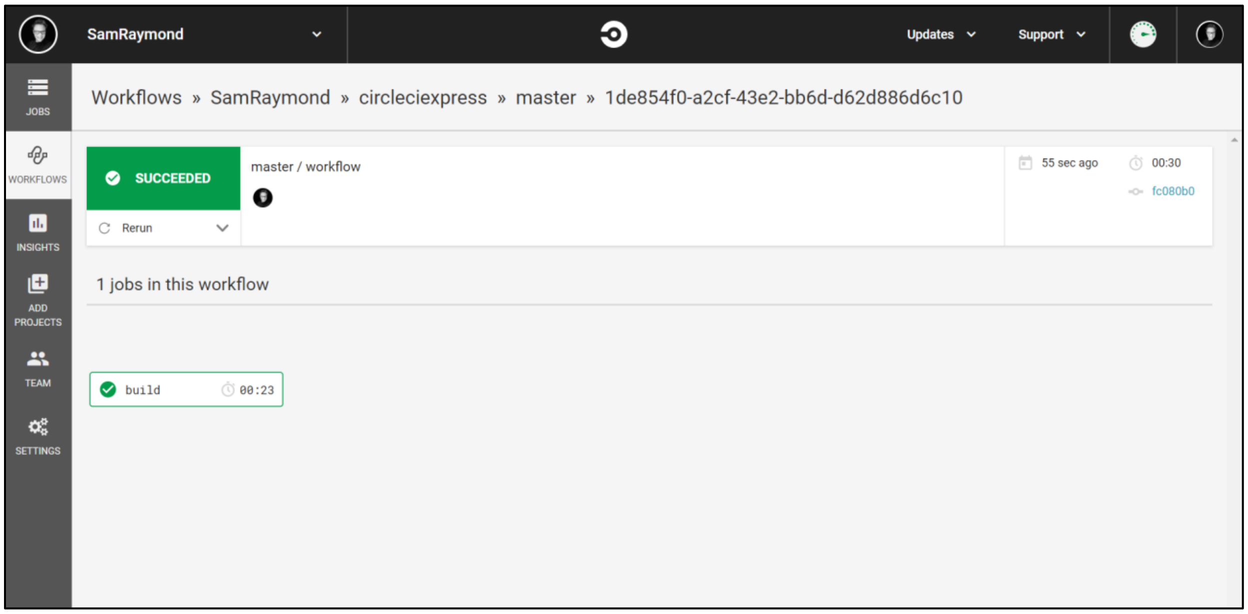
Once you have pushed the changes to your GitHub, go back to your CircleCI page and click on the *WORKFLOWS* tab on the left menu. You will see that the test is being run on CircleCI.



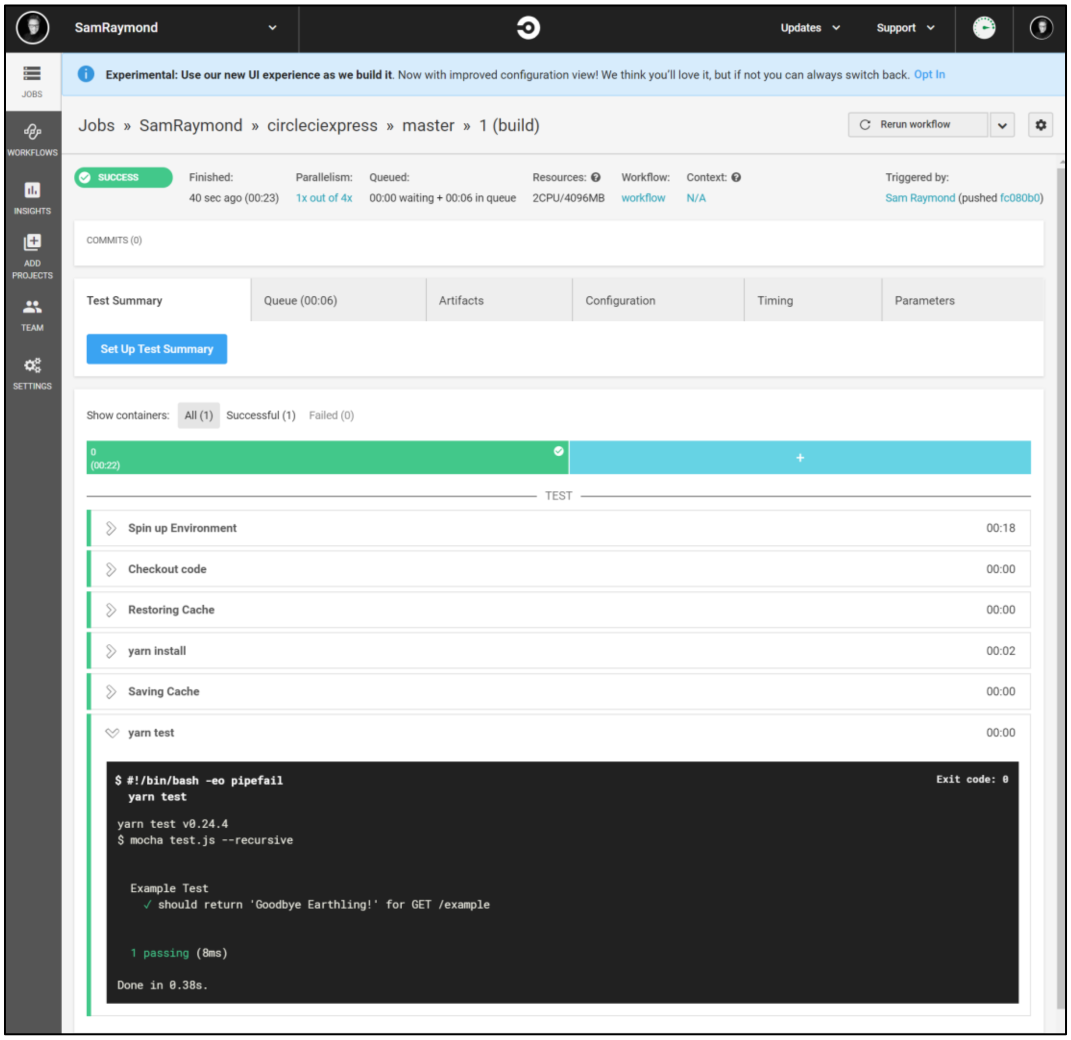
After one-two mins you will see that this has succeeded with the green message replacing the "running" message.



Click on the *succeeded* button so we can see what was run.



You can see that there was one job in this workflow, this is defined in the config file and as such, many things can be performed by altering this config.yml file. Click on the build with the green tick to see what commands were performed.



Experimental: Use our new UI experience as we build it. Now with improved configuration view! We think you'll love it, but if not you can always switch back. Opt In

Jobs » SamRaymond » circleciexpress » master » 1 (build)

Finished: 40 sec ago (00:23) · Parallelism: 1x out of 4x · Queued: 00:00 waiting + 00:06 in queue · Resources: 2CPU/4096MB · Workflow: workflow · Context: N/A · Triggered by: Sam Raymond (pushed fc080b0)

COMMITS (0)

Show containers: All (1) Successful (1) Failed (0)

0 (00:22)

Spin up Environment	00:18
Checkout code	00:00
Restoring Cache	00:00
yarn install	00:02
Saving Cache	00:00
yarn test	00:00

```
$ #!/bin/bash -eo pipefail                                          Exit code: 0
  yarn test

yarn test v0.24.4
$ mocha test.js --recursive


  Example Test
    ✓ should return 'Goodbye Earthling!' for GET /example


  1 passing (8ms)

Done in 0.38s.
```

You can see several steps that were performed for this test, clicking on each of them expands to give the command line responses, the yam test shows that this passed the test of responding with “Goodbye Earthling!”. More details of why this message was produced can be found in the video with this walkthrough.