**AWS CodeBuild**

* AWS hosted CI solution
  + Free-tier eligible
    - 100 build minutes on a small instance ($0.005/min after)

* a fully managed build service that compiles source code, runs tests, and produces software packages that are ready to deploy

* Requires build specification document called the **buildspec.yml** to be placed in the root directory of the project

* Defines what scripts should be executed in the various **phases** of the build lifecycle:

* install
* pre\_build
* build
* post\_build

* Allows for the declaration of any build artifacts and what to do with them

* **The buildspec.yml contains the following:**
* version
  + Required
  + Represents the build specification version
  + 0.2 is recommended (0.1 ran phases in separate shells)

* env
  + Optional
  + Represents information for one or more custom environment variables

* phases
  + Required
  + Represents the commands ran during each build phase

* finally
  + Optional
  + Executed after the commands in the "commands" section of each build phase

* artifacts
  + Optional
  + Represents information about where to find the build output and how to move the packaged software to it

* cache
  + Optional
  + Represents information about where files can be prepared for uploading to an S3 cache bucket