**What is Semaphore:**

Semaphore is a continuous integration and deployment service used for testing and deploying software projects hosted on GitHub and BitBucket

Open source projects can use semaphore for free in its full capacity, free use for private projects is limited to 100 builds per month

One of the biggest feature is native Docker Support.

Offers features called Boosters, reduces the duration of running a test suite to that of the longest test through automatic parallelization of builds for Ruby.

Language Support: C/C++, Clojure, Elixir, Go, Java, Javascript, PHP, Python, Ruby and Scala.

Supported frameworks include: test/unit, RSpec, Cucumber, Steak, Capybara, Webkit, Jasmine, Karma, Minitest, Poltergeist, PhantomJS

Deployment integrations include AWS, Heroku, Capistrano and Cloud 66

Once the branch is selected Semaphore will determine the config of the project, extracting meta info.

After config Semaphore begins testing. If a test is failed the developer needs to further configure and fix the code until the test is green.