Homework Assignment #2 – Platform as a Service Hands-On

- **Cloud Foundry**: Deploy an application in Bluemix using Cloud Foundry (60%)
  - Go to: [https://github.com/rofrano/nyu_hw2](https://github.com/rofrano/nyu_hw2) and clone this Ruby on Rails application called: “NYU Cloud Blog” (the README.md file will have instructions)
  - Use the Vagrantfile in the project you just cloned to create a local Ruby on Rails environment and run the NYU Cloud Blog application (10%)
    - Note that the local application is using the MySQL database in a Docker container locally. This is important when you go to deploy into Bluemix!
    - Show us the app running on your laptop
  - Deploy the NYU Cloud Blog on Bluemix using Cloud Foundry Ruby Services (50%)
    - You will need to create both a Ruby environment and a Database Service for MySQL (I recommend using ClearDB)
    - Steps 4 and 6 in this tutorial will give you hints on how to deploy (but they are using DB2 so don’t follow exactly): [http://www.ibm.com/developerworks/cloud/library/cl-bloqrails-app/](http://www.ibm.com/developerworks/cloud/library/cl-bloqrails-app/)
    - Show us the app running at a URL in the Bluemix cloud

- **Container Cloud**: Deploy a web site in Bluemix using Containers (40%)
  - Create a Docker image from nginx and add at least one web page to it and run a container locally on your laptop (20%)
    - Show us your Dockerfile or steps to reproduce if created manually
    - Show us the app running at a URL on your laptop
  - Push your nginx Docker image to Bluemix and run it in the Container Cloud (20%)
    - Show us the steps you took to push your image to Bluemix and deploy it
    - Show us the app running at a URL in the Bluemix cloud