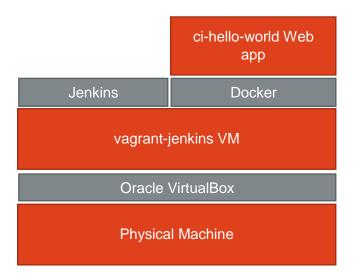


CI/CD CHALLENGE

STEP 1. PREPARATION

In this step we will be using Vagrant in order to install a virtual machine with Jenkins and Docker inside. The next figure shows the global architecture:



Follow the next steps:

- a. Install Oracle VirtualBox if you haven't already
- b. Install Vagrant following the official documentation.
- c. Clone the git repository in https://github.com/andresrrey/vagrant-jenkins and follow the instructions in the readme file in order to deploy the machine. Keep in mind that the machine build could take several minutes.
- d. Access your Jenkins instance and follow the installation wizard.
- e. Fork the repository in https://github.com/andresrrey/cichallenge to have your own copy.
- f. Obtain the forked repository URL and clone it. This is the application that you will need to change for your pipeline



STEP 2. BUILDING YOUR CI PIPELINE

With your environment ready, you can now proceed to create the CI Pipeline. Do NOT use Jenkinsfile based solutions. Your solution should look like this:

Prepare

Clone the repository on the jenkins server and set up everything needed for the next steps



Build

Build a Docker image based on the Dockerfile included on the webapp. You can try to build the image inside the VM manually first if it helps.



Test

This step should run the prepared test for the app. Make sure this step fails if the tests do so.



Push

Push the previously built image to the public docker hub registry. You will need to create an account at https://hub.docker.com/ and to set up its credentials on Jenkins



Deploy

Finally the pipeline must run the docker image. This step must have a manual confirmation in order to terminate the image once you have verified that you can access the application.

EVALUATION

You will present the final result to Andrés Romero at the end of the challenge. The challenge must be presented on March 9th.

TIP: It's not enough if it works! You need to fully understand each line of the app and the configuration for the evaluation!