Running Test Automation on Ubuntu

Method 1: On an Ubuntu VM

- This method runs all the test automation on a Ubuntu 16.04 VM setup on the MacPro Tower. The details of the VM are as follows
    - OS – Ubuntu 16.04
    - RAM – 8GB
    - HDD – 30GB
    - Provider – VirtualBox
    - Name – GHS_Android_Ubuntu_Automation
- Terminal can be opened on the VM by **Alt + Ctrl + T** or from the applications icon (top left on the desktop).
- The Jenkins data is put in the same format as the other VMs. A folder called Jenkins-slave under the user home directory.

    `/home/tesco/jenkins-slave`
- Latest apk can be downloaded from hockeyapp through the browser (Mozilla Firefox) and can be placed in the desired directory.
- The code is present in both codebase and workspace. Codebase here would serve as a fresh copy of the code. Workspace is where the tests are run.

Method 2: On a Docker Container

- This method runs all the test automation on a Ubuntu Docker Container. The containers are hosted on another Ubuntu VM. The details of the VM are as follows
    - OS – Ubuntu 16.04
    - RAM – 24GB
    - HDD – 200GB
    - Provider – VirtualBox
    - Name – GHS Docker Host
- The docker containers can be started through the command line.

- The containers run without a UI. Thus all the browser tests are set to run using a headless UI Driver Xvfb.
- The Dockerfiles can be found in the Docker_Containers directory in the users home.

  /home/dockerhost/Docker_Containers
- These are the files that are used to create new containers. The Dockerfile can be initiated to build a container with the below command
  - **sudo docker build .**
  - This builds a container from the Dockerfile present in the current directory.
- The existing containers can be listed using the command
  - **sudo docker ps –a**
- The existing images can be listed using the command
  - **sudo docker images**
- To start a container from an image
  - **Sudo docker run –i –t –privileged –v <host_mount_direcotry>:<guest_mount_directory> <image_name>:<tag>**
  - **sudo docker run -i -t --privileged -v /dev/bus/usb/001-002:/dev/bus/usb/001 bharaths/android_automation:1.0**
- To start an already created container
  - **sudo docker start <container_id>**
- To attach the container to the current terminal session,
  - **sudo docker attach <container_id>**
- Within the container, the Jenkins-slave folder would be present at

  /home/jenkins-slave