

Unit Testing

Shape Detection

To test my shape detection, the prerequisite is that the machines need to have Python 3.8 and all the dependencies such as numpy,cv2 and the shape dependencies such as the yolov3,...

On running the scripts ShapeDetection.py, the tester will need to adjust the path to the shape dependencies and input the image that needs to be shape-detected and the output will be shown on each console.

Docker

To test my Docker migration code the prerequisite is that all the machines on which the docker will be set up should have ubuntu 16.04 image.

On running the scripts [container-launch-list-package.sh](#), [container-migration.sh](#) and [container-restore-start.sh](#) in order the entire migration process of the container from source node to destination node will take place.

In the first node we have to run [container-launch-list-package.sh](#) and then on the destination node we have to run. It is very important that the path of /var/lib/lxd should be written very carefully for backup and restore over ssh.

Also the path where the container will start in the destination node has to specified carefully local to each machine.