# Intermediate Registry Runbook

## Pre-requisites

* Provision a Linux server on fyre, preferably RHEL 8 server.
* We don’t need an OpenShift server for this exercise.
* Login to your server as root user
* Install git client if its missing – dnf -y install git
* Clone the repository.
  + git clone https://github.com/bharathdcs/registry-workshop
* Be prepared with your IBM Entitlement key, we will be using for mirroring operation.

## Mirror images to intermediate registry

* Make the scripts executable – chmod 777 registry-workshop/\*.
* Run the ./1-pre-requisties.sh to install the dependencies.
* Prepare your intermediate registry and mirror images by running the following script -./2-intermediate-registry.sh <entitlement key>, pass your entitlement key as an argument.
* Test whether images were mirrored successfully, by logging into olm-utils pod and validating an image.
  + podman exec -it olm-utils-play-v2 /bin/bash
  + oc image info 127.0.0.1:12443/cpopen/ibm-cpd-platform-operator-bundle:5.4.0-13 --insecure=true

## Move your registry to green zone.

* Now lets simulate moving the intermediate images to green zone, run the following script - ./3-export-intermediate.sh
* This script will compress cpd-cli-workspace directory and move it to a new directory called green. Both the compressed workspace and green directory can be found inside your $HOME directory.
* In the subsequent mirror operation, we’ll be using the green directory as our source for images.

## Mirror images intermediate to final registry.

* Perform the final mirror operation by executing the following script –
  + ./4-mirror-private.sh
* The script has following variable set to use the green directory as the new workspace, CPD\_CLI\_MANAGE\_WORKSPACE=~/green/cpd-cli-workspace/olm-utils-workspace
* Try pulling an image from your private registry to confirm whether the mirror operation succeeded
  + podman login --username "admin" --password "passw0rd" $(hostname):5000 --tls-verify=false
  + podman pull $(hostname):5000/cpopen/ibm-cpd-platform-operator-bundle:5.4.0-13 –tls-verify=false