

## REVIEW DRAFT - CISCO CONFIDENTIAL



# Creating a Docker Image

Use this procedure to create the docker image for a stateful app and add it to the image directory.

### Before You Begin

- You have obtained the reference docker image provided by Cisco.

### Procedure

- Step 1** Log in to your local workspace.
- Step 2** Enter the command `docker load -i path to base docker image` to upload the reference docker image.
- Step 3** (Optional) To remove the Cobra SDK and Acitoolkit package from the reference image perform the following steps. Removing the packages, will decrease the size of the container.
  - a) Remove the Cobra SDK and Acitoolkit packages from the reference image.
  - b) Enter the commands `pip uninstall acicobra` and `pip uninstall acimodel` to remove the Cobra SDK package provided in the reference image.
  - c) Enter the command `pip uninstall acitoolkit` to remove the Acitoolkit package provided in the reference image.
- Step 4** Enter the command `docker images` to retrieve the image ID.
- Step 5** Enter the command `docker run -d Image_ID tail -f /dev/null` to run the docker container and mount the packages.
- Step 6** Enter the command `docker ps` to retrieve the docker container ID.
- Step 7** Enter the command `docker exec -it Container_ID /bin/bash` to connect to the docker container.
- Step 8** Install the packages in the container.
- Step 9** Enter the command `docker commit Container_ID Image_Name: Tag` to commit the updates.
- Step 10** Enter the command `docker save Image_Name: Tag | gzip -c > path to the output directory` to save the image as a `tgz` file.

**Note** In the `docker save` command, use `Image_Name : Tag` and do not use `Image_ID`.
- Step 11** Add the `tgz` file to the image folder of the app.