

## Build and Run a Simple Docker Container

Clone the book repository to run this example in Cloud Shell; we have a bash script titled **date-script.sh** in the chapter folder. The script assigns the current date to a variable and then prints out the date to the console. The Dockerfile will copy the script from the local machine to the docker container file system and execute the shell script when running the container. The Dockerfile to build the container is stored in **docker-intro/hello-world**.

```
# navigate to the folder with images
cd docker-intro/hello-world
```

Let's view the bash script.

```
cat date-script.sh

#!/bin/sh
DATE="$(date)"
echo "Today's date is $DATE"
```

Let's view the Dockerfile.

```
# view the Dockerfile
cat Dockerfile

# base image for building container
FROM docker.io/alpine
# add maintainer label
LABEL maintainer="dvdbisong@gmail.com"
# copy script from local machine to container file system
COPY date-script.sh /date-script.sh
# execute script
CMD sh date-script.sh
```

The Docker image will be built off the Alpine Linux package. See [https://hub.docker.com/\\_/alpine](https://hub.docker.com/_/alpine). The CMD routine executes the script when the container runs.

## Build the Image

Run the following command to build the Docker image.

```
# build the image
docker build -t ekababisong.org/first_image .
```

### Build output

```
Sending build context to Docker daemon 2.048kB
Step 1/4 : FROM docker.io/alpine
latest: Pulling from library/alpine
6c40cc604d8e: Pull complete
Digest: sha256:b3dbf31b77fd99d9c08f780ce6f5282aba076d70a513a8be859d8d3a4d0c92b8
Status: Downloaded newer image for alpine:latest
---> caf27325b298
Step 2/4 : LABEL maintainer="dvdbisong@gmail.com"
---> Running in 306600656ab4
Removing intermediate container 306600656ab4
---> 33beb1ebcb3c
Step 3/4 : COPY date-script.sh /date-script.sh
---> Running in 688dc55c502a
Removing intermediate container 688dc55c502a
---> dfd6517a0635
Step 4/4 : CMD sh date-script.sh
---> Running in eb80136161fe
Removing intermediate container eb80136161fe
---> e97c75dcc5ba
Successfully built e97c75dcc5ba
Successfully tagged ekababisong.org/first_image:latest
```

## Run the Container

Execute the following command to run the Docker container.

```
# show the images on the image
docker images

# run the docker container from the image
docker run ekababisong.org/first_image
```

Today's date is Sun Feb 24 04:45:08 UTC 2019