Module 5 – Shell vs Exec: Lab

# Lab Objectives

Executing processes using exec form

Executing processes using shell form

1. Using Exec form

1. Create a new folder for the exercise, such as **~/docker/shell\_vs\_exec\_exercise**.
2. In that folder create a Dockerfile containing the following:

FROM alpine:latest

CMD ping google.com

1. Build an image from this Dockerfile and run it in a container.
2. Run **docker ps** and you will be able to see under the **COMMAND** column for you container that the initial process was started as a shell.

/bin/sh –C ‘ping google.com’

2. Using Shell form

1. Edit the Dockerfile so that it looks like below. Note that we have to give the full path to the application that we want to run because we are no longer using the shell, this means that we cannot utilise the PATH environment variable.

FROM alpine:latest

CMD [“/bin/ping”, “google.com”]

1. Build a new Docker image and run it in a container.
2. Run **docker ps** again and you should be able to see that shell was not used this time.

/bin/ping google.com

3. Finish up

1. Stop and delete all the containers that you created
2. Remove all of the images that you created