Questions

1. Indicate the two different ways of creating a new image.

   docker commit after changing an already existing container or via a dockerfile using docker build

2. Indicate when does docker add a new image layer to an image.

   After each instruction of a dockerfile, docker will add a new image to the FROM image

3. If you have your web application in a directory called “web” explain with your own words how you can create a docker image that contains that app. You can use an example.

   Create a dockerfile on the web directory to containerize the app → docker compose build, that way you get a new image

4. Indicate the benefits of using Docker Compose.

   It allows for a quicker way to use multiple container when our project uses many

5. Explain the following lines from a docker compose file:

   services: os diferentes paquetes
   web: paquete web
   build: . ruta ó dockerfile da imaxe do paqeute
   depends_on: como depende de algo executase primero ese
   - db
   db: paqeute db, execútase primeiro pq o web depende del
   image: mysql:8.0 imaxe do paquete

   - Are the “web” service and the “db” service in this example connected?

     By default, docker compose connects all services so yes

   - Write the command to run these services.

     docker compose up

   - How many containers are created the first time that we run these services?

     One for each service in the docker compose file

   - Are these containers connected through a network?

     Yes

   - If we change the Docker file and the image has been created previously. What command must we execute so that the image is created again taking into account the new Dockerfile?

     docker compose build

6. What is the purpose of using volumes?

   To have multiple containers access the same information in your local machine