

Lab 4 – Dockerfile

Build docker image

Build image from scratch

1. Write a C program that displays "Hello DevOps !!".
2. Compile the program with a **static library**.
3. Write a dockerfile file with the following content:

```
FROM      scratch
COPY      app  app
CMD       ["/app"]
```

4. Build image myapp:1.0
5. Create new container with builded image.

Build mediawiki images

6. Clone the following mediawiki project from the remote repository :
<https://github.com/brahimhamdi/wikimedia>

Change to the wikimedia folder

7. Describe the Dockerfile in the wiki_app folder.

Based on this Dockerfile, build wiki_app:1.0 image and then test it.

8. Describe the Dockerfile in the wiki_db folder.

Based on this Dockerfile, build wiki_db:1.0 image and then test it.

9. Install the application.

Push docker images to remote registry

10. Create an account on hub.docker.com registry.

11. Tags all images with your GitHub username.

Example :

```
docker tag wiki_app:1.0 brahimhamdi/mywiki_app:1.0
```

12. push all images to dockerhub.

13. Delete locally all pushed images.

Test pushed images.