

# Solution

The solution to exercise 2

If you have cracked the code and were able to solve the problem, you might be feeling a little overwhelmed now. Since you have written your first Dockerfile and it worked, kudos to you.

If you were not able to solve it, no issues. Revise your lessons, specifically, “Build your First Docker Image”. Most probably, you will be able to solve if you follow along with that lesson.

Even if you are not able to solve it, go through this solution, and implement it again. This way, you will understand it thoroughly.

```
import datetime, pytz

# Timezone can be changed to any allowed values.
current_time = datetime.datetime.now(pytz.timezone('Asia/Kolkata')).strftime(" %m.%d.%Y %H:%M:%S %p")

print(current_time)
```

All the steps required to build an image are written in Dockerfile. So, to complete the solution to our problem we have to:

1. Mention the base image to pull from Docker Hub with `FROM python:3.8`
2. Specify a working directory where all the code files will be copied with `WORKDIR /exercise_2`
3. Copy the requirements.txt file to the container so that we can install dependencies before running the program with `COPY requirements.txt requirements.txt`
4. Run the command to install dependencies with `RUN pip install -r requirements.txt`
5. Now that all dependencies are installed, we will copy our code files from the host machine to the container with `ADD . .` “.” represents the current directory of the host and container. Since we have already mentioned the WORKDIR, Docker will consider the WORKDIR as the current working

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6. Finally, we run our python script with `CMD ["python", "date_time.py"]`

That's it. I hope this was pretty easy to follow.

This will build your foundation for the next lesson. Play around with the code and try different Dockerfile commands.

Once you are done, proceed to the next section, where you will learn to establish a connection between two containers using Docker networks.