Title: Running mvn install from Dockerfile gives error but, running it from inside the container is successful Post Body:

I have a project at https://github.com/picklu13/dockerbuildtest. When I run docker-compose up --build from the builders directory, the build errors with '[ERROR] The goal you specified requires a project to execute but there is no POM in this directory (/app). Please verify you invoked Maven from the correct directory. -> [Help 1]'

Now if I comment out the last line of the Dockerfile # RUN mvn clean package and run docker-compose up --build, the container starts up. Then I go into the container with docker exec -it <id> bash and run mvn clean install which succeeds.

My question is, why did the first build fail with no pom.xml error although it was already present.

Accepted Answer:

In your first case, you're running build from builders directory but the context passed to Docker does not contains pom.xml (it contains what is in your current directory as per docker-compose instruction context: .)

In your second case, up will mount your project's directory in app with:

```
volumes: - ~/dockerbuildtest/:/app/
```

Meaning that ~/dockerbuildtest/pom.xml will appear in container as /app/pom.xml. Running mvn from app now works.

why did the first build fail with no pom.xml error although it was already present

It was not present: in first build, there is no pom.xml copied into your image (see $\underline{\mathtt{COPY}}$ instruction).

You could ensure your context contains pom.xml by running your build command from your project's root directory and specifying Dockerfile such as:

build: # will use current directory as build context # by running from your project's root dir, context will of

And copy your pom.xml in your Dockerfile such as:

[...] WORKDIR /app # copy pom.xml from context into image COPY pom.xml /app/pom.xml # run from /app directory which now co

Highest Rated Answer:

You mount a volume and I think by the time the container boots up, the specified resource is not at said location, due to the volume not yet being loaded.

You could try to not use a volume and instead use a COPY command in your dockerfile to make sure the resource is actually in /app before the container starts.

[EDIT] Even if you scenario does not allow you to do so, I recommend still testing with the COPY to see if this indeed is a volume problem.