Title: IntelliJ: use docker jvm or docker maven?

Post Body:

I have a docker/jvm instance, which I use from the command line to compile and run java code. IntelliJ's project config requires me to point at a jvm on the filesystem.

So, I was wondering, can I configure intellij to use this docker container? I suppose I could configure a docker container, keep it running, and mount/share its filesystem, but I don't want that -- I want to use my ephemeral container instance.

I have the same idea for using maven -- can I use a docker instance of maven without mounting the filesystem, from within intellij? Again, intellij seems to require a pointer to a filesystem location for maven, so this seems problematic.

Does anyone have any clue if this is possible, or how to go about configuring such a thing?

Accepted Answer:

> Again, intellij seems to require a pointer to a filesystem location for maven, so this seems problematic.

The only way for an application to use another *containerized* one would be for that application itself to be in the same container (or to mount a data volume from another container, which avoids mounting the local filesystem)

So using something like dlsniper/docker-intellij/ (used for go, but easily adapted for java) would work, and allow an IntelliJ *container* to

- share the X11 socket in order to see the containerized application on the host desktop,
  uses **data volumes** (again, without mounting a local filesystem directly):
  - data-volume for the jvm
  - data-volume for the java sources

Highest Rated Answer:

If you're on a posix system, you can make a simple executable shell script that takes command line argument and forwards those to:

```
docker exec [OPTIONS] CONTAINER COMMAND [ARGS...]
```

This may even work on Windows with a batch file.

One problem is when you have to pass in file paths. A solution could be to mount the working directory at an identical path in the container, as on the host.

Don't forget the shebang if you go for a shell script.

On Windows, a filepath may be 'unixified' in a batch file like this:

```
set FILEPATH=%FILEPATH:C:=/c% set FILEPATH=%FILEPATH:\=/%
```