Remote Debugging

- Create a Remote run configuration:
  - Run -> Edit Configurations...
  - Click the "+" in the upper left
  - Select the "Remote" option in the left-most pane
  - Choose a name (I named mine "remote-debugging")
  - Click "OK" to save:
- For any Java application use the following command to attach debugger on remote machine.
- This will lead to attach debugger if only the jar file is running on VM not in Container/Docker.

1. java -jar -Xdebug -agentlib:jdwp=transport=dt_socket,server=y,suspend=y,address=8080 vs-backend.war
2. Troubleshoot :
3. If Intellij is unable to attach the remote machine.
4. Check if the Port on the machine is open or not.

Steps to Attach debugger on Docker/Container instance running jar/war file.

- If a jar is run through container/docker then its port are not directly exposed outside.
- We need to open a specific port on which we are trying to attach our intellij debugger.
- Suppose we are attaching debugger on port 7071 of VM address 54.xxx.xxx.xxx.
- As the jar/war is managed through docker so edit docker configuration file first.
- sudo docker ps [To check the status of the docker]
- sudo docker stop 5vs-dev-resource [stop the docker service]
- sudo docker rm 5vs-dev-resource [remove if duplicate error]
- sudo docker build . [Building the image of the docker]
- Edit docker Conf file.
- Vim [file-name :Dockerfile]
- EXPOSE 8081 7071 [Check if the multiple port is exposed by docker]
- CMD ["java","-jar","-Xdebug","-agentlib:jdwp=transport=dt_socket,server=y,suspend=y,address=7071","vs-resource-server.war"]
- Save.
- sudo docker build . [Rebuild the docker]
- sudo docker run -p 8082:8081 -p 7071:7071 <Latest-image-name>
- Run the Intellij with correct configuration in debug mode.
- Refer Links : https://stackoverflow.com/questions/21114066/attach-intellij-idea-debugger-to-a-running-java-process
-
- https://stackoverflow.com/questions/20845056/how-can-i-expose-more-than-1-port-with-docker