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□ Legat de subtask Side projects on Dell laptop #j35q10 □ Ignite server nodes as Docker containers documentation □ https://apacheignite.readme.io/docs/docker-deployment □ https://ignite.apache.org/docs/latest/installation/installing-using-docker □ lists are empty								
docker network list docker image list docker container list -a								
☐ Create new Docker network								
docker network create spring-ignite-net								
☐ Start Ignite server container in Windows CMD (not in Git Bash)								
<pre>docker run -dnetwork spring-ignite-netpublish 10800:10800 -p 8080:8080 -p 42112:42112 -p 47500:47500 -p 47100:47100 -v C:/javaDev/libs/:/opt/ignite/apache-ignite/libs/user_libs -v C:/javaDev/apache- ignite/examples/config:/ignite-configs -e CONFIG_URI=/ignite-configs/example-ignite.xml apacheignite/ignite:2.7.5</pre>								
<ul> <li>□ Create new Maven Spring Boot (client) Project</li> <li>□ name O6-spring-boot-ignite</li> <li>□ Replace "mains" with REST endpoints</li> <li>□ mvn package to create docker image</li> <li>□ Start container from spring boot ignite client project</li> <li>□ From image cosdin/spring-ignite:0.0.1-SNAPSHOT (created with mvn package with the docker maven plugin)</li> <li>□ With -v to mount the ignite config xml into the container and -e to set or override the path to xml from local machine with the one in the container</li> <li>□ For this container I used the same config xml mounted for the ignite server node container from the local filesys from C:/javaDev/apache-ignite/examples/config:/ignite-configs</li> </ul>								
docker run -d -p 5000:5000network=spring-ignite-net -v C:/javaDev/apache-ignite/examples/config:/ignite-configs -e IGNITE_CONFIG_XML_PATH=/ignite-configs/example-ignite.xml cosdin/spring-ignite:0.0.1-SNAPSHOT								
<ul> <li>□ Spring boot ignite client project 06-spring-boot-ignite performs all crud (against an ignite server node started as docker container) (the path to ignite config xml is different between the 2 set from the IGNITE_CONFIG_XML_PATH property from application.properties file)</li> <li>□ started as spring boot project from CMD as usual</li> <li>□ started as docker container</li> <li>□ Create Gradle libs project containing the entity class only</li> <li>□ necessary for Ignite server node container classpath</li> <li>□ name 06-spring-boot-ignite-libs-gradle</li> <li>□ sync with git</li> <li>□ Start 2 Docker containers in new Docker network</li> <li>□ 1 Ignite server nodes</li> <li>□ 1 Spring Boot Ignite client</li> <li>□ Check the 2 containers are present in the Docker network</li> </ul>								
docker inspect spring-ignite-net								
<ul> <li>□ Ignite docker containers are started from an image with specific version apacheignite/ignite:2.7.5, version 2.7.5 is used in the Ignite client libs from the Java projects</li> <li>□ View records with DBeaver in Ignite distributed cache</li> <li>□ Add files from local machine filesys in docker container filesys with -v. In this case used to mount ignite config xml and to .jar user libraries</li> <li>□ Explore filesys of docker container (check if ignite xml config file and .jar are mounted into container)</li> </ul>								

```
docker exec -it zealous buck bash
 docker exec -it zealous buck sh
□ exit container filesys explore - use the escape sequence CTRL+P followed by CTRL+Q
□ start server node locally from cmd
 ignite.bat C:/javaDev/apache-ignite/examples/config/example-ignite.xml
☐ How to Fix java.lang.UnsupportedClassVersionError thrown in Eclipse and in Ignite container when loading
  class from custom classpath
  □ for Eclipse: went to Windows - Preferences - Java - Compiler - Compiler compliance level from 12 to 1.8
 java.lang.UnsupportedClassVersionError: ignite/spring/EmployeeDTO has been compiled by a more recent version of
 the Java Runtime (class file version 56.0), this version of the Java Runtime only recognizes class file
 versions up to 52.0]
  ☐ For Gradle project in build.gradle
 apply plugin: 'java'
 compileJava {
     sourceCompatibility = '1.8'
     targetCompatibility = '1.8'
 }
☐ remove all containers, images and created custom network
```