## Prerequisites:

- Docker installed in VDI (https://learn.microsoft.com/en-us/windows/wsl/install)

- IE App publisher (https://favoyuse.iehub.eu1.edge.siemens.cloud/home)

## Build mendix App using docker desktop:

1. Download mendix buildpack from git https://github.com/mendix/docker-mendix-buildpack

a. Unzip it and store it in any drive. Maybe C

2. Start docker in wsl

3. Create a new folder called 'build' inside the extracted buildpack folder

4. Goto mendix studio pro: Version controll --> Update (to get the latest yaml file and recent updates)

5. Now click Project--> Create Deployment Package --> Version = No --> OK

6. Click Project --> Show project dorectory in Explorer

7. Check for newly created 'releases' folder in the project folder and Open it

8. You can see one .mda file. Click on it-->right click-->extract files. There will be four folders inside (model,native, tmp, web)

9. Move all 4 folders to the 'build' folder created inside buildpack folder in step 3

10. Now go back one level and run command line interface (type ‘wsl’ in address bar)

11. Create image for the mendix App using the command '

**docker build --build-arg BUILD\_PATH=build --build-arg CF\_BUILDPACK=v4.30.2 -t connectivity/<version>:<perf> .'**

a. CF\_Buildpack version can be verified in the dockerbuild pack folder. See version in cf\_buildpack.version file.Replace <perf> with ‘latest’.

b. Image name written after -t will be used in YAML file

c. Run without quotes and remember the dot in the end

d. check if image has been succesfully created

e. Replace the <version> with svn version number (example Connectivity/1418)

12. Open 'tests' folder and open file 'docker-compose-postgres.yml' in notepad++

13. Change image name to 'connectivity/1418:v1.0.0', change port to 38080:8080

14. Remove healthchecks for mendix app and db for local testing. The file should like the image in right after saving

15. Test the deployment locally using the command '**docker-compose -f tests/docker-compose-postgres.yml up** '.

When there are any errors try '**docker-compose -f tests/docker-compose-postgres.yml up -d**'.

If you could open the app in localhost:38080 then it is working

## Deploy in Edge using IE Publisher App:

1. Open IE Publisher App after installing

2. For first time, select any folder as workspace (maybe create a new folder in c drive as 'IE Publish')

3. Add a docker engine. Docker Engine IP = localhost, port = 2375 hit connect

4. Click 'Go online' to connect to IEM

5. Type the IEM address without extensions (https://eagleprod-iem.industry.siemens.de) and connect

6. Provide username and password

7. Create new Application in IEM under my projects

a. If exisitng already, click on App under My projects in IE publisher app

8. Click + or Add new Version --> OK

9. In this Page click import YAML in top right corner

10. Import the YAML from customimpl folder (verify whether this the updated one, no worries if you have updated the project in the beginning)

11. After uploading YAML file --> Review --> Validate create

12. Check version number. In case of error change the verison number and create/OK

13. Click Upload (this takes a while to upload to IEM)

14. After successful upload, goto IEM, my projects click on mendix app and hit Publish

15. Finally check the verison in the Catalog (it should be the latest one)