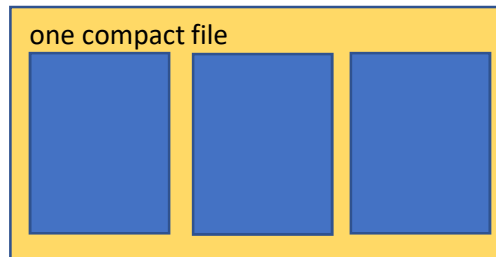image file

One compact file built by combing all libraries/files of an application

Images are read only / ready to use
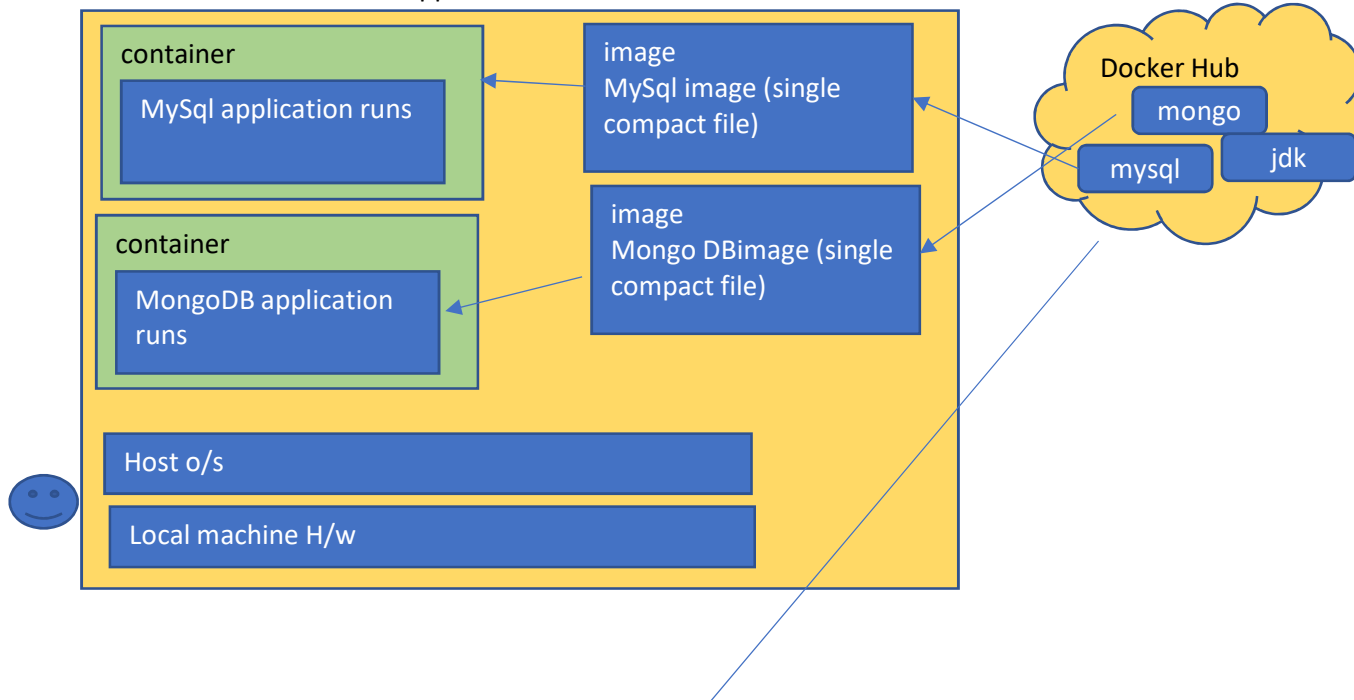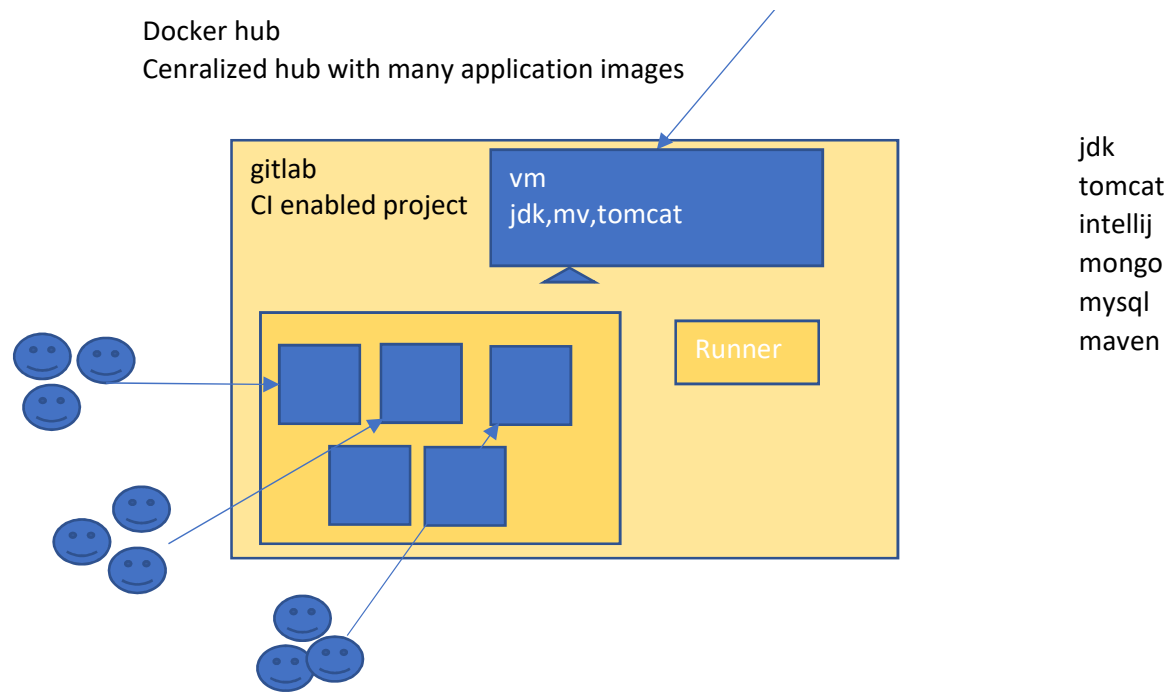
one compact file

How to use image

Images can be executed as applications in containers

Container

Virtual environment for an application to run

container

MySql application runs

image
MySql image (single compact file)

container

MongoDB application runs

image
Mongo DBimage (single compact file)

Host o/s

Local machine H/w

Docker Hub

mongo

mysql

jdk

Docker hub
Cenralized hub with many application images

gitlab
CI enabled project

vm
jdk,mv,tomcat

Runner

jdk
tomcat
intellij
mongo
mysql
maven

Steps to enable CI on our project

Step 1   Make sure one springboot application ready with all layers with crud operations
                 including testings

Step 2   Push above project to myrepos root folder of the repos
              created new repos
              cloned to local machine
              copy all project files into cloned folder
              push to master

all project files must be in root folder of repository

Step 3   Open project in gitlab->webide

Step 4   create .gitlab-ci.yml in root folder
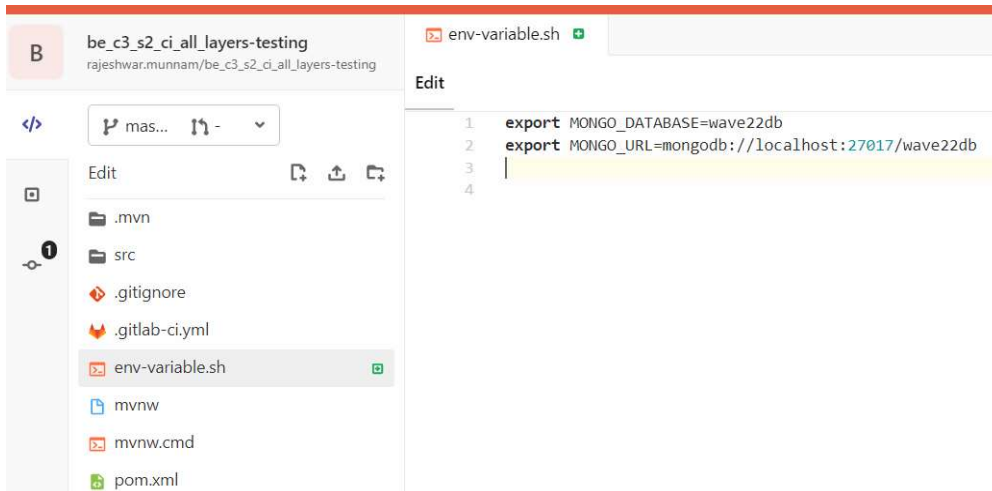
B	be_c3_s2_ci_all_layers-testing
	rajeshwar.munnam/be_c3_s2_ci_all_layers-testing

</>   ⌥ mas... ⤴ -   ⌄

Edit

📁 .mvn

📁 src

◈ .gitignore

🦊 .gitlab-ci.yml

📄 mvnw

🖥 mvnw.cmd

📄 pom.xml

📄 .gitlab-ci.yml   428 Bytes

```
 1    image: 'maven:latest'
 2
 3    stages:
 4        - test
 5        - build
 6
 7    services:
 8        - 'mongo:3.4-jessie'
 9
10    variables:
11        MONGO_DATABASENAME: "wave22db"
12        MONGO_URL: "mongodb:/mongo/wave22db"
13
14    maven-test:
15        stage: test
16        script: "mvn test"
17        tags:
18            - MYREPOS_PROD_RUNNER
19    maven-build:
20        stage: build
21        script: "mvn package"
22        tags:
23            - MYREPOS_PROD_RUNNER
24
25        artifacts:
26            paths:
27                - target/*.jar
```

Step 5   edit yml file
           commit into master branch

Step 6   create env file in root folder
             env-variable.sh

Commit into master branch

Step 7   edit application.properties

Commit into master branch

B   be_c3_s2_ci_all_layers-testing 🔒
Project ID: 117199

🔔 ▾   ☆ Star   0   ⑂ Fork   0

⊷ **2** Commits   ⑂ **1** Branch   ⬜ **0** Tags   ▤ **532 KB** Files   ▤ **538 KB** Storage

be_c3_s2_ci_all_layers-testing

| master ▾ | be_c3_s2_ci_all_layers-testing / | + ▾ | | History | Find file | Web IDE | ⬇ ▾ | Clone ▾ |

Update src/main/resources/application.properties
rajeshwar.munnam@niit.com authored 1 minute ago

❌   31b35434 📋

⊗ failed   **Pipeline #6038** triggered 2 minutes ago by   **rajeshwar.munnam@niit.com**

Update src/main/resources/application.properties

🕐 2 jobs for `master` in 16 seconds (queued for 2 seconds)

⚑   latest

⊷   31b35434 📋

⤼   No related merge requests found.

Pipeline   Needs   Jobs 2   Failed Jobs 1   Tests 0

Test	Build ▶
❌ maven-test 🔄	» maven-build