

Devsops

PRGM1:-

- 1) Create a Maven Project
- 2) SRC/main/java
 - ↳ Create new Package → com.dsce
 - ↳ New class → APP
- 3) SRC/test/java
 - ↳ Create new Package → com.dsce
 - ↳ New class → AppTest
- ↳ Go to Maven Repo & Paste 7.1.3 <D>
- 3) SRC/main/resources
 - ↳ New File → config.properties
- 4) Maven Build, clean, compile, install
- 5) install Gradle, Gradle-version, Gradle-init
- 6) Goto → help Eclipse marketplace
 - ↳ install Testing

PRGM: 3

- Create Maven Project `com.dsce -> PRGM3a`
- SRC
 - ↳ main
 - ↳ webapp
 - ↳ RC → Create Folder File [index.html]
 - ↳ Create folder [WEB-INF]
 - ↳ WEB-INF → Create file [web.xml]
- Create web.xml [Plugin file]
- Create index.html [Basic HTML code]
- pom.xml [Maven Build -> clean, install]
- Open VS Code
 - Open folder (Cut & Paste your PRGM3a Path)
 - New file
 - ↳ Docker File → write code
 - ↳ COPY PRGM3a.war & Paste in COPY from /target/
- ↳ Open Terminal
 - ↳ Docker Build -t app -
 - ↳ Docker run -d -p 8085:8080 app
 - ↳ Open Chrome -> localhost:8085

3b)

-> Create New Folder

↳ multi-container

-> vs code

↳ open the new folder created

-> create new app (yml)

↳ app1

↳ app2

-> create -> File

↳ docker-compose.yml

-> Create File on app1

↳ app1.yml

↳ Dockerfile

↳ Requirements.txt

-> Same on app2

-> app1? -> Type code

↳ from flask

-> Dockerfile -> Type code

-> Req.txt -> flask==3.0.0

2 app 4 -> Type code

↳ Dockerfile ->

Req.txt -> requirements==2.3.1-0

-> docker-compose.yml -> Type code

-> Terminal -> docker-compose build

docker-compose up

< PRGm 4

- 1) github.com/kubermates/minikube/releases/latest -
- download minikube-windows-amd64.exe
- After download Rename as minikube

→ Create new folder as minikube

- Path
- Copy the downloaded minikube & Paste it new minikube folder
 - Run it
 - Copy Path & Edit System Environment in both new

→ in minikube cmd

→ minikube start --driver=docker

→ Create New folder → PRGm 4 & Open in VS Code

→ create app.py

→ deployment.yaml

→ service.yaml

→ Dockerfile

→ Requirement.txt

Terminal

→ minikube start

→ docker build -t downerman /imag name

→ docker push dn /s n

→ kubectl apply -f deploy.yaml

→ service.yaml

→ kubectl port-forward svc/hello-world 5000/5000

Prgm 2

→ Create Maven Project

↳ com.dscc - Prgm2 - clean

→ SRC - webapp

↳ File → index.html

↳ WEB-INF (Folder)

↳ File (web.xml)

→ index.html (Own File)

→ Plugin → en web.xml

→ Prgm 2 (Update Project)

↳ Properties Copy Path

→ cmd → cd "Path"

→ git init

→ Prgm 2

↳ Team → Share Project - Select git

→ Not do Github

→ Create Repo (Program 2)

→ Copy Repo Path

→ Prgm 2 → Team → Commit [Version 1]

→ Select all files from unstaged & Add in Staged (drag)

↳ Commit

→ Push head [Github username & Token Id]

→ For To Rem Select Repo & Add to local → Generate Token

→ Preview → Push (Check in get all file name)

→ To must download 9 for windows
→ (32 bit / 64)

Give Tomcat a Credential (note it)

↳ Change Role → manager-gui to manager-script
↳ Refresh

↳ download Apache-maven (3.9.10 bin zip)
maven Install

→ Check the downloaded maven & Extract to Tomcat
bin (1)

→ & Path on System Variables

→ Go to Jenkins

Install Plugins

1) get

2) deployment container

3) maven integration

→ Tool → maven → name & (env. Path) Save

→ + New Item

Name → Program?

↳ Freestyle Project → OK

↳ Select get

↳ Paste get URL

↳ Add build step → invoke deployment maven targets

↳ maven 3.9.10

↳ clean-install

→ Add Port build

↳ Deploy war (can be a

↳ ** / *.war

Context Path → /Prgrm 2

→ Add Tomcat buildtools

→ Tomcat url localhost:8089/manager/text

→ Save

→ Build Now

→ Allow check localhost:8089/Prgrm 2 /