Docker Git Integration

Building a custom Ubuntu Image

JDK 8, VI Editor, MySQL Client, Maven Ubuntu Docker Engine Host OS (Windows/MAC/ Linux) Infrastructure/Server

Time to build a Image from Docker Hub

Step 1: Push your micro service to Git Hub/ BitBucket

Step 2: Login to Docker Hub Account and Link your Git Hub/ BitBucket

account under account settings

Step 3: Create a Docker repository and in build settings select GitHub/ Bitbucket * Select Organisation, * Select Repository

Step 4: Click on Build Rules and Click on Create

Step 5: Goto Build tab and click on Trigger button (Build images takes long time for me it took 20 min [Ubuntu, OpenJDK, Maven Build Tool Generating lar Punning Spring boot application])

Tool, Generating Jar, Running Spring boot application])

Step 6: After build is Success (Should not be InProgress) Pull the repository in your local path.

docker pull kharvinagaraj1/first-spring-boot-app:latest

Step 7: Run it as container

Step 8: Access for whatever you are looking for.

Rename a Docker image

docker images

REPOSITORY TAG IMAGE ID
CREATED SIZE
kharvinagaraj1/first-spring-boot-app latest
1b6bc195fab1 2 hours ago 862MB
spring-boot-app1 latest
965328da5f99 9 hours ago 862MB

docker image tag 1b6bc195fab1 first-spring-boot-app:latest

docker images

REPOSITORY TAG IMAGE ID **CREATED** SIZE kharvinagaraj1/first-spring-boot-app latest 1b6bc195fab1 2 hours ago 862MB first-spring-boot-app latest 1b6bc195fab1 2 hours ago 862MB spring-boot-app1 latest 965328da5f99 10 hours ago 862MB

docker rmi kharvinagaraj1/first-spring-boot-app

Untagged: kharvinagaraj1/first-spring-boot-app:latest

Untagged: kharvinagaraj1/first-spring-boot-

app@sha256:d43f34da22be6d26dbd523b99ef52fe6831bb2354f15ec8e6509f5148

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docker images		TAC	TMAGE TD
REPOSITORY	CTZE	TAG	IMAGE ID
CREATED	SIZE	1-44	1 L C L - 1 O C f - L 1
first-spring-boot-a		latest	1b6bc195fab1
2 hours ago	862MB	1-44	0000004-0400
spring-boot-app1	0.60MD	latest	965328da5f99
10 hours ago	862MB		2.54 .22.5 .4
spring-boot-app	75045	latest	e3f1e82feca1
19 hours ago	758MB	7 . 1 1	201.6 700 . 42
auto-app	7.67145	latest	36bfcc790a43
2 days ago	767MB		174006 046
rest-call-app	- 00MB	latest	cd7132faa316
7 days ago	503MB		CI 0000101 00
first-java-image		latest	6b9289194c98
7 days ago	495MB		
paketobuildpacks/run		base-cnb	a717358311fc
10 days ago	87.2MB		
kharvinagaraj1/my-nginx-tagged		1.0	59bae95439aa
13 days ago	110MB	_	
springio/gs-spring-boot-docker		latest	82d56f8f8358
40 years ago	267MB		
paketobuildpacks/builder		base	511452064e06
40 years ago	558MB		

Test for automated image build in docker hub

Step 1: Make required changes in your micro service (As soon after code gets updated in GitHub, Docker will trigger for a new build) Step 2: Pull the new image in your local path which was built by docker hub.

docker pull kharvinagaraj1/first-spring-boot-app:latest

Step 3: Run it as container

Step 4: Access for whatever you are looking for.