

CI-CD Spring boot Application Project Screenshots

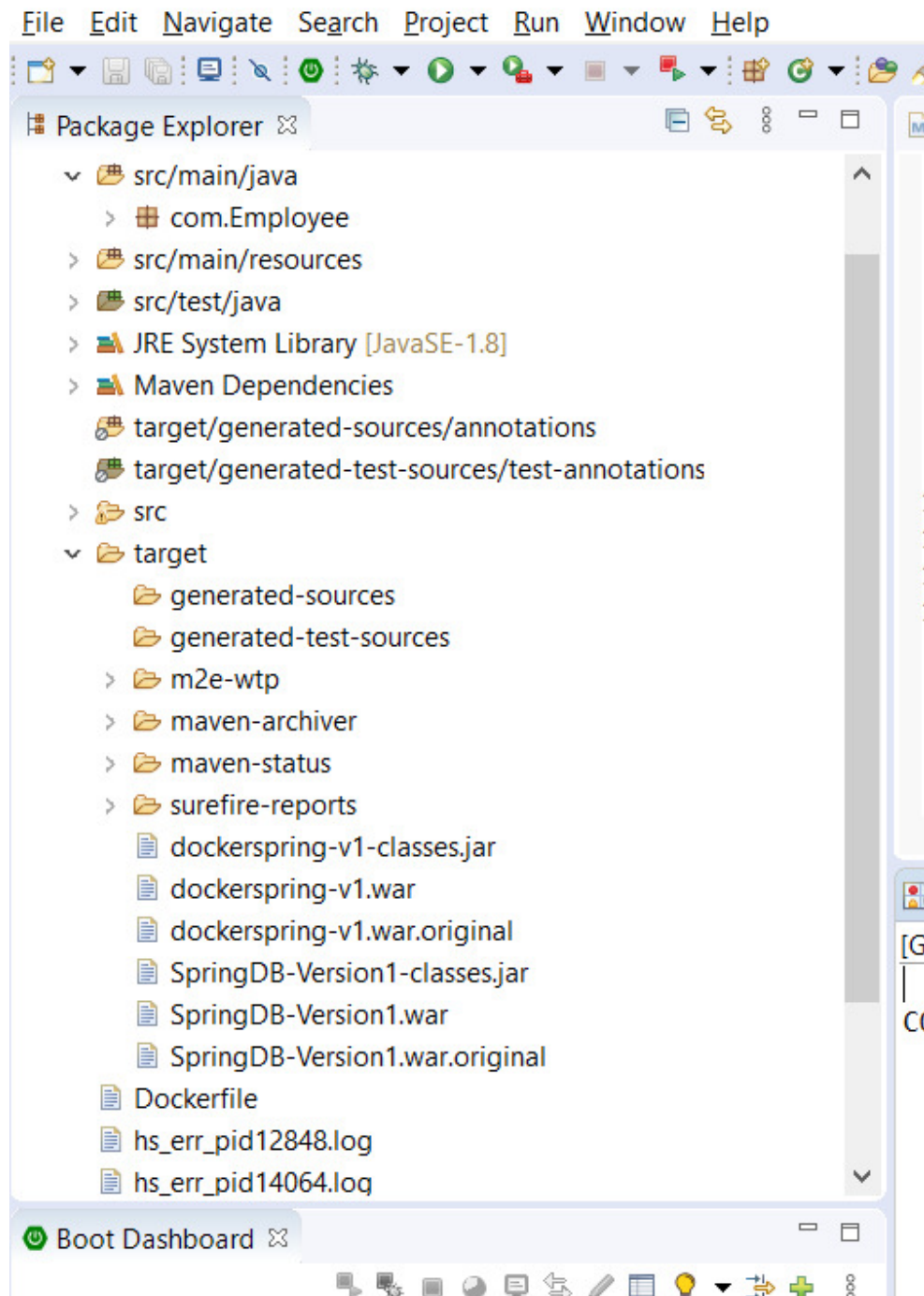
Version History:

Author:	Shanmugam D
Purpose:	Application Screenshots
Date:	27 th March 2022
Version:	1.0

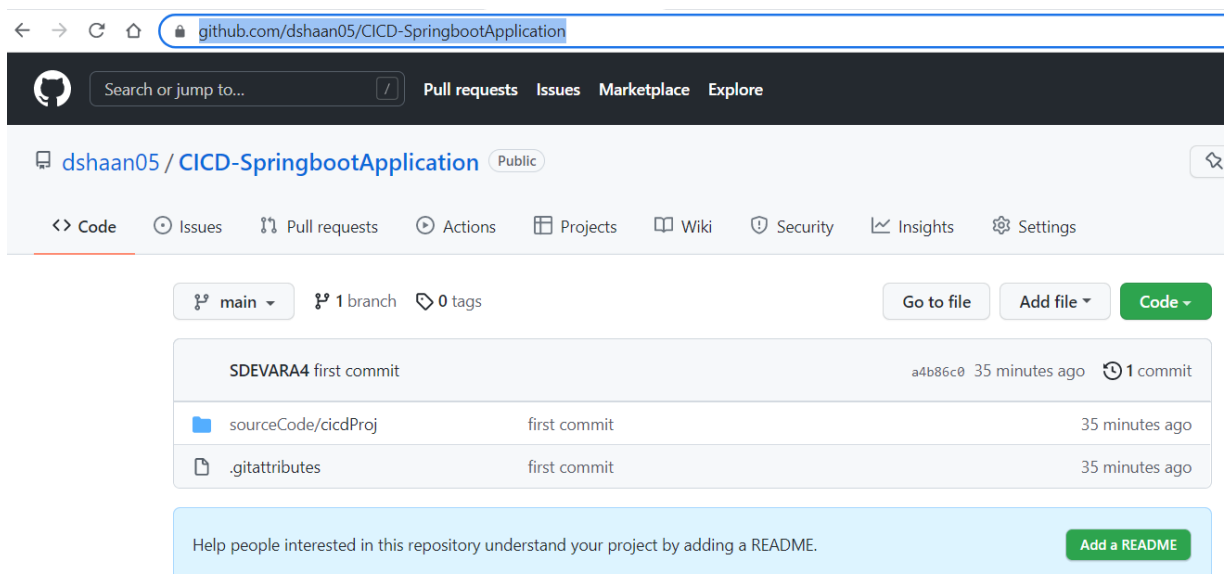
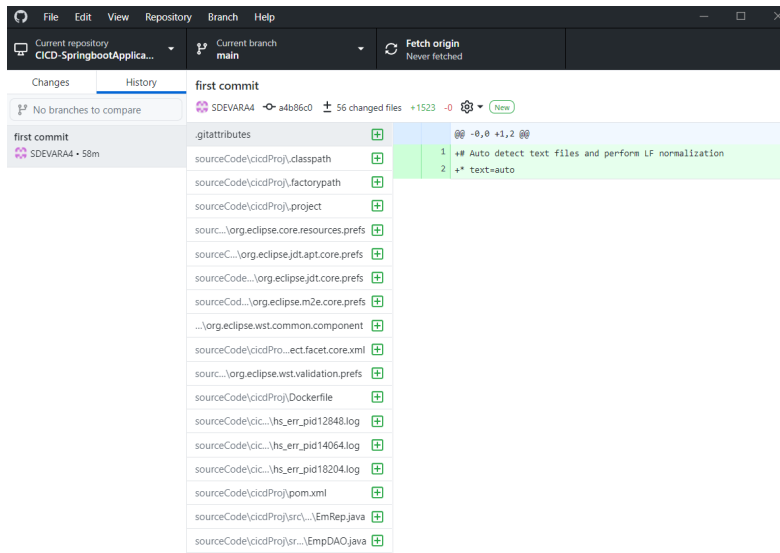
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Eclipse .war file generation:

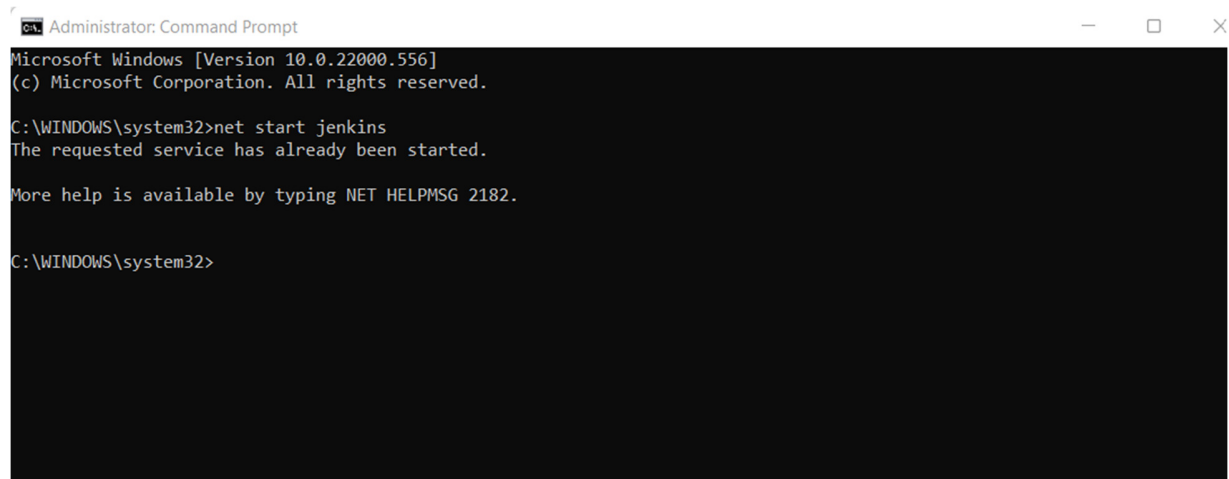


Github:



Jenkins:

Starting Jenkins,



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.556]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>net start jenkins
The requested service has already been started.

More help is available by typing NET HELPMSG 2182.

C:\WINDOWS\system32>
```

Login to Jenkins and create a new project (dockerjenkins here), click on manage Jenkins then download all the required tools from Global tool config, and plugins.

Configure for adding Git repositories and Docker details, then click build now for building the app

The image shows two screenshots of the Jenkins web interface. The top screenshot is the Jenkins dashboard at `localhost:8090`. It features a sidebar with navigation links like 'New Item', 'People', 'Build History', and 'Project Relationship'. The main content area displays a table of builds for the 'dockerjenkins' project. The table has columns for status (S), workspace (W), name, last success, last failure, and last duration. A single build is listed with a green status icon, workspace 'dockerjenkins', and a duration of 16 seconds. Below the table, there are sections for 'Build Queue' (showing no builds) and 'Build Executor Status' (showing 1 idle executor). The bottom screenshot shows the 'Project dockerjenkins' page at `localhost:8090/job/dockerjenkins/`. It includes a sidebar with links like 'Back to Dashboard', 'Status', 'Changes', and 'Workspace'. The main content area has a 'Project dockerjenkins' header, a 'Workspace' section, and a 'Recent Changes' section. Below these, there is a 'Permalinks' section with a list of build links. The 'Build History' section at the bottom shows a list of builds, with the most recent build being '#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest' completed on Mar 27, 2022, at 11:38 AM.

S	W	Name	Last Success	Last Failure	Last Duration
	dockerjenkins		1 min 40 sec	3 days 11 hr	16 sec

Build Queue: No builds in the queue.

Build Executor Status: 1 Idle

Project dockerjenkins

Workspace

Recent Changes

Permalinks

- Last build (#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest), 5 min 19 sec ago
- Last stable build (#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest), 5 min 19 sec ago
- Last successful build (#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest), 5 min 19 sec ago
- Last failed build (#13 bala1988/dockerspring-v1), 1 day 13 hr ago
- Last unsuccessful build (#13 bala1988/dockerspring-v1), 1 day 13 hr ago
- Last completed build (#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest), 5 min 19 sec ago

Build History

#20 bala1988/dockerspring-v1:latest bala1988/dockerspring-v1:latest

Mar 27, 2022, 11:38 AM

After clicking on the build go to build history at bottom to check the console output log, .war file is successfully transferred to Docker as an image file.

localhost:8090/job/dockerjenkins/20/console

Dashboard > dockerjenkins > #20

Console Output

View as plain text

Edit Build Information

Git Build Data

Previous Build

Started by user balaanarethiran@live.in
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\dockerjenkins
The recommended git tool is: NONE
using credential 0f2a88ac-d528-4d1a-ab80-211bd744cf84
> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\dockerjenkins.git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/bala-tw/course6-cicdproj.git # timeout=10
Fetching upstream changes from https://github.com/bala-tw/course6-cicdproj.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git version 2.32.0.windows.2'
using GIT_ASKPASS to set credentials
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/bala-tw/course6-cicdproj.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision a594b1dbfe9ee9c72dbac2ab7691c1ed2f4998df (refs/remotes/origin/main)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f a594b1dbfe9ee9c72dbac2ab7691c1ed2f4998df # timeout=10
Commit message: "Update pom.xml"
First time build. Skipping changelog.
[dockerjenkins] \$ cmd.exe /C "C:\Software\apache-maven-3.8.5\bin\mvn.cmd -f C:\ProgramData\Jenkins\jenkins\workspace\dockerjenkins\sourceCode\cicdPrototype\cicdProj\pom.xml install && exit %ERRORLEVEL%"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.example:dockerspring >-----
[INFO] Building spring db v1
[INFO] -----[war]-----
• • •

REST API Jenkins 2.332.1

ENG INTL 11:39 27-03-2022

localhost:8090/job/dockerjenkins/20/console

Dashboard > dockerjenkins > #20

e019be289189: Layer already exists
27b794c285d8: Pushed
latest: digest: sha256:6395ce58a7a5ad70b8a77d0ab117f9945eae081a5e6fad44d9af8ee296301aa size: 2007
Downloading Docker client latest
Unpacking https://get.docker.com/builds/Windows/x86_64/docker-latest.tgz to
C:\ProgramData\Jenkins\jenkins\tools\org.jenkinsci.plugins.docker.commons.tools.DockerTool on Jenkins
[dockerjenkins] \$ docker push bala1988/dockerpring:v1latest
WARNING: Support for the legacy ~/.dockercfg configuration file and file-format is deprecated and will be removed in an upcoming release
WARNING: Support for the legacy ~/.dockercfg configuration file and file-format is deprecated and will be removed in an upcoming release
The push refers to repository [docker.io/bala1988/dockerpring:v1]
27b794c285d8: Preparing
0607554a700f: Preparing
3add5b0a88e9: Preparing
3cdd9de99b4: Preparing
327e42081bbe: Preparing
6e632f416458: Preparing
e019be289189: Preparing
c9a63110150b: Preparing
6e632f416458: Waiting
e019be289189: Waiting
c9a63110150b: Waiting
327e42081bbe: Layer already exists
0607554a700f: Layer already exists
3add5b0a88e9: Layer already exists
27b794c285d8: Layer already exists
3add5b0a88e9: Layer already exists
6e632f416458: Layer already exists
c9a63110150b: Layer already exists
e019be289189: Layer already exists
latest: digest: sha256:6395ce58a7a5ad70b8a77d0ab117f9945eae081a5e6fad44d9af8ee296301aa size: 2007
Finished: SUCCESS

REST API Jenkins 2.332.1

ENG INTL 11:42 27-03-2022

Docker

Docker image file as below,

Containers / Apps

Images

Volumes

Dev Environments PREVIEW

Images on disk

8 images Total size: 1.28 GB

IN USE

UNUSED

LOCAL

REMOTE REPOSITORIES

☐ In Use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
bala1988/0699d3c0a61c	latest	0699d3c0a61c	1 day ago	569.46 MB
bala1988/dockerspring...	latest	3e55b827781a	less than a minute ago	569.46 MB
bala1988/dockerspring...	<none>	2d50f6538ca3	4 days ago	569.46 MB
docker/getting-started	IN USE latest	bd9a9f733898	about 1 month ago	28.79 MB
hello-world	IN USE latest	feb5d9fea6a5	6 months ago	13.26 KB
mysql	IN USE latest	562c9bc24a08	9 days ago	520.73 MB

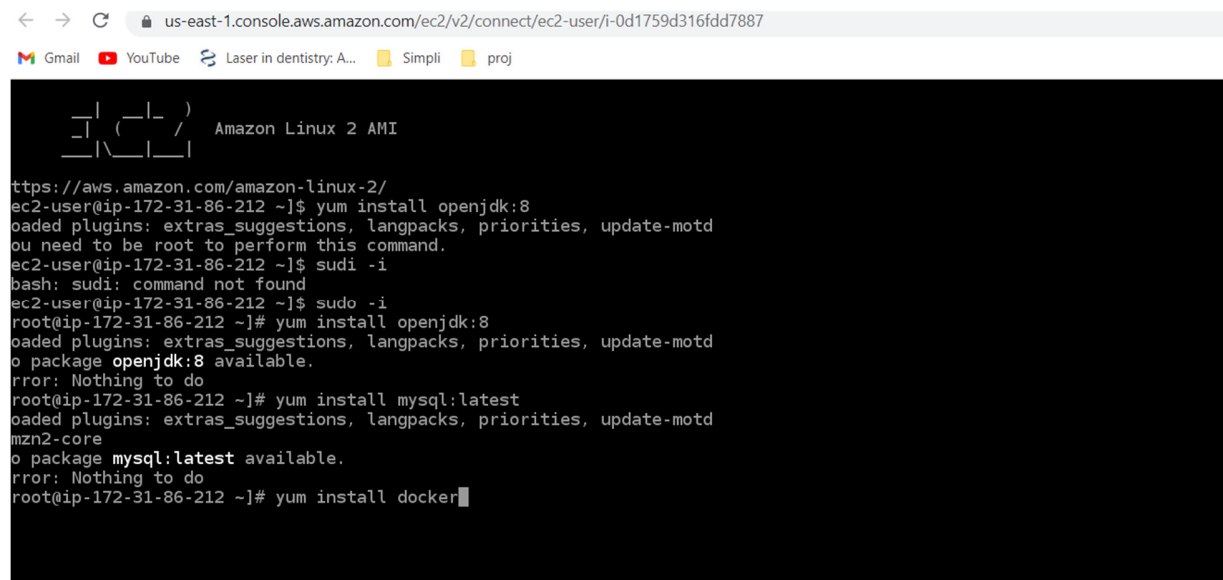
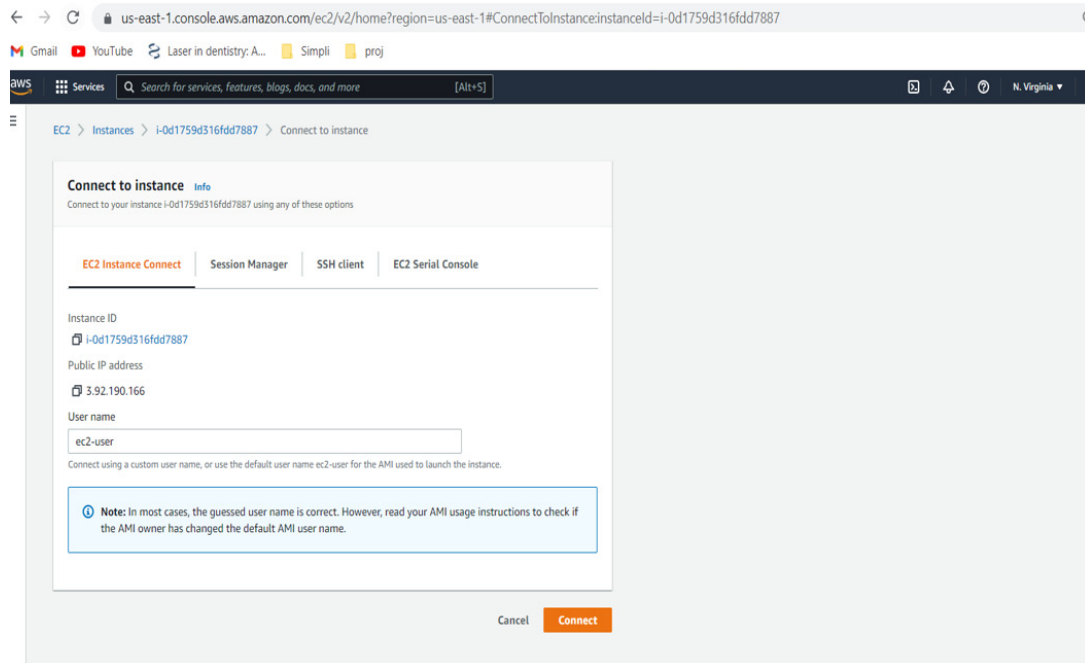
Connect to Remote

Store and backup your images

Unlock vulnerability scanning for greater

Amazon – AWS

Creation of AWS instance, EC2-



Install jdk, mysql, and docker as in screenshot and login to the docker,

```
us-east-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0d1759d316fdd7887

downloading packages:
1/5): libcgrou-0.41-21.amzn2.x86_64.rpm | 66 kB 0
2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm | 81 kB 0
3/5): containerd-1.4.6-8.amzn2.x86_64.rpm | 24 MB 0
4/5): runc-1.0.0-2.amzn2.x86_64.rpm | 3.3 MB 0
5/5): docker-20.10.7-5.amzn2.x86_64.rpm | 42 MB 0
-----
total | 48 MB/s | 69 MB 0
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : runc-1.0.0-2.amzn2.x86_64
Installing : containerd-1.4.6-8.amzn2.x86_64
Installing : libcgrou-0.41-21.amzn2.x86_64
Installing : pigz-2.3.4-1.amzn2.0.1.x86_64
Installing : docker-20.10.7-5.amzn2.x86_64
Verifying : docker-20.10.7-5.amzn2.x86_64
Verifying : containerd-1.4.6-8.amzn2.x86_64
Verifying : runc-1.0.0-2.amzn2.x86_64
Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64
Verifying : libcgrou-0.41-21.amzn2.x86_64
Installed:
docker.x86_64 0:20.10.7-5.amzn2

Dependency Installed:
containerd.x86_64 0:1.4.6-8.amzn2 libcgrou.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.x86_64 0:1.0.0-2.amzn2

complete!
root@ip-172-31-86-212 ~]# service docker start
Redirecting to /bin/systemctl start docker.service
root@ip-172-31-86-212 ~]# docker login -u="bala1988" -p="Docker@2022"
```

Running the docker image file from amazon - ec2 instance

```

44516a0bcb60: Pull complete
a617eb0fde5b: Pull complete
Digest: sha256:6395ce58a7a5ad70b8a77d0ab117f9945eae081a5e6fad44d9af8ee296301aa
Status: Downloaded newer image for bala1988/dockerspring-v1:latest
docker.io/bala1988/dockerspring-v1:latest
[root@ip-172-31-86-212 ~]# docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
bala1988/dockerspring-v1  latest         3e55b827781a   56 minutes ago  569MB
[root@ip-172-31-86-212 ~]# docker run --name docker-msql -e MYSQL_ROOT_PASSWORD=password -e MYSQL_DATABASE=test -e MYSQL_USER=mysql_native_password
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
a4b007099961: Pull complete
a2b610d88fd9: Pull complete
88567843b438: Pull complete
6fc423bf9558: Pull complete
aa8241dfe828: Pull complete
cc662311610e: Pull complete
9832d1192cf2: Pull complete
f2aa1710465f: Pull complete
4a2d5722b8f3: Pull complete
8a246e8d7cac: Pull complete
2f834692d7cc: Pull complete
a37409568022: Pull complete
Digest: sha256:b2ae0f527005d99bacdf3a220958ed171e1eb0676377174f0323e0a10912408a
Status: Downloaded newer image for mysql:latest
8610da0893932eb271a6174109aa0944f3d338f51899b04de163665f4a2b80bd
[root@ip-172-31-86-212 ~]# docker ps -a
CONTAINER ID   IMAGE             COMMAND                  CREATED         STATUS         PORTS          NAMES
8610da089393   mysql:latest     "docker-entrypoint.s..."  9 seconds ago   Exited (1) 7 seconds ago           docker-msql
[root@ip-172-31-86-212 ~]# docker run 3e55b827781a

```

dockerjenkins x bala-tw/cc x New Tab x Practice Lab x Connect to x i-0d1759d3 x java - com x Unable to x how to sta x Cannot sta x + - - - - -

us-east-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0d1759d316dd7887

```

Gmail YouTube Laser in dentistry A... Simpli proj
--sig:proxy          Proxy received signals to the process (default true)
--stop-signal string  Signal to stop a container (default "SIGTERM")
--stop-timeout int    Timeout (in seconds) to stop a container
--storage-opt list     Storage driver options for the container
--sysctl map          Sysctl options (default map[])
--tmpfs list          Mount a tmpfs directory
-t, --tty             Allocate a pseudo-TTY
--ulimit ulimit       Ulimit options (default [])
-u, --user string      Username or UID (format: <name|uid>[:<group|gid>])
--userns string        User namespace to use
--uts string          UTS namespace to use
-v, --volume list     Bind mount a volume
--volume-driver string Optional volume driver for the container
--volumes-from list   Mount volumes from the specified container(s)
-w, --workdir string   Working directory inside the container
[root@ip-172-31-86-212 ~]# docker run -p80:8080 3e55b827781a

=====
:: Spring Boot ::
(v2.6.0)

2022-03-27 07:52:21.800 INFO 1 --- [          main] com.Employee.SpringDbApplication : Starting SpringDbApplication vv1 using Java 1.8.0_322 on b88829dc61f1 with P
ID 1 (/dockerspring-v1.war started by root in /)
2022-03-27 07:52:21.808 INFO 1 --- [          main] com.Employee.SpringDbApplication : No active profile set, falling back to default profiles: default
2022-03-27 07:52:23.711 INFO 1 --- [          main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-03-27 07:52:23.845 INFO 1 --- [          main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 109 ms. Found 1 JPA repository i
nterfaces.
2022-03-27 07:52:25.619 INFO 1 --- [          main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-03-27 07:52:25.651 INFO 1 --- [          main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-03-27 07:52:25.652 INFO 1 --- [          main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55]
2022-03-27 07:52:28.937 INFO 1 --- [          main] org.apache.jasper.servlet.TldScanner   : At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug lo
gging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP c
ompilation time.

```

i-0d1759d316dd7887

Public IPs: 3.92.190.166 Private IPs: 172.31.86.212

ENG INTL 13:25 27-03-2022