# Use virtual machine hyperv-vm-1

```
docker-machine ls
NAME            ACTIVE    DRIVER        STATE      URL
SWARM    DOCKER      ERRORS
hyperv-vm-1    -         virtualbox    Running    tcp://
192.168.99.100:2376          v19.03.12
hyperv-vm-2    -         virtualbox    Running    tcp://
192.168.99.101:2376          v19.03.12

docker-machine env hyperv-vm-1
export DOCKER_TLS_VERIFY="1"
export DOCKER_HOST="tcp://192.168.99.100:2376"
export DOCKER_CERT_PATH="/Users/nagarajskharvi/.docker/machine/
machines/hyperv-vm-1"
export DOCKER_MACHINE_NAME="hyperv-vm-1"
# Run this command to configure your shell:
# eval $(docker-machine env hyperv-vm-1)

eval $(docker-machine env hyperv-vm-1)
docker-machine ls
NAME            ACTIVE    DRIVER        STATE      URL
SWARM    DOCKER      ERRORS
hyperv-vm-1    *         virtualbox    Running    tcp://
192.168.99.100:2376          v19.03.12
hyperv-vm-2    -         virtualbox    Running    tcp://
192.168.99.101:2376          v19.03.12
docker-compose-postgresql % ls
docker-compose.yml    spring-boot-postgres ubuntu-openjdk11
```

# Building image from docker-compose command (Uses docker-compose.yml file)

```
docker-compose build
db uses an image, skipping
Building web
Step 1/5 : FROM kharvinagaraj1/ubuntu-openjdk11:1.0
1.0: Pulling from kharvinagaraj1/ubuntu-openjdk11
da7391352a9b: Pull complete
14428a6d4bcd: Pull complete
2c2d948710f2: Pull complete
d502cfd7018c: Pull complete
fbea45dd0f5e: Pull complete
7e658dde4267: Pull complete
Digest:
sha256:6c0d7c29f0d106b66c136e7715becc5a8de3b9882cbe933da939c8e0eaf2b
6a6
Status: Downloaded newer image for kharvinagaraj1/ubuntu-
openjdk11:1.0
 ---> 96ec94b01aca
Step 2/5 : LABEL "Maintainer"="Nagaraj S Kharvi"
 ---> Running in 7c119b502b43
Removing intermediate container 7c119b502b43
 ---> 5772cf889505
```

```
Step 3/5 : ADD . /usr/local/spring-boot-postgres
 ---> 89d324dfa6e1
Step 4/5 : RUN cd /usr/local/spring-boot-postgres && mvn install
 ---> Running in 5f09f10da630
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by
com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/
share/maven/lib/guice.jar) to method
java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,ja
va.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of
com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further
illegal reflective access operations
WARNING: All illegal access operations will be denied in a future
release
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/
springframework/boot/spring-boot-starter-parent/2.4.1/spring-boot-
starter-parent-2.4.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
springframework/session/spring-session-bom/2020.0.1/spring-session-
bom-2020.0.1.pom (2.7 kB at 7.0 kB/s)
[INFO]
[INFO] -----------------< com.example:spring-boot-postgres
>------------------
[INFO] Building spring-boot-postgres 0.0.1-SNAPSHOT
[INFO] ------------------------------
[ jar ]------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/
springframework/boot/spring-boot-maven-plugin/2.4.1/spring-boot-
maven-plugin-2.4.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
springframework/spring-core/5.3.2/spring-core-5.3.2.jar (1.5 MB at
32 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-
resources) @ spring-boot-postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/org/
apache/maven/maven-plugin-api/3.1.0/maven-plugin-api-3.1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
apache/commons/commons-lang3/3.8.1/commons-lang3-3.8.1.jar (502 kB
at 61 kB/s)
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 1 resource
[INFO] The encoding used to copy filtered properties files have not
been set. This means that the same encoding will be used to copy
filtered properties files as when copying other filtered resources.
This might not be what you want! Run your build with --debug to see
which files might be affected. Read more at https://
maven.apache.org/plugins/maven-resources-plugin/examples/filtering-
properties-files.html
```

```
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @
spring-boot-postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/org/
apache/maven/maven-plugin-api/3.0/maven-plugin-api-3.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/com/
thoughtworks/qdox/qdox/2.0-M9/qdox-2.0-M9.jar (317 kB at 50 kB/s)
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 2 source files to /usr/local/spring-boot-postgres/
target/classes
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-
testResources) @ spring-boot-postgres ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory /usr/local/spring-boot-
postgres/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-
testCompile) @ spring-boot-postgres ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to /usr/local/spring-boot-postgres/
target/test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @
spring-boot-postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/org/
apache/maven/surefire/maven-surefire-common/2.22.2/maven-surefire-
common-2.22.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
junit/platform/junit-platform-engine/1.3.1/junit-platform-
engine-1.3.1.jar (135 kB at 129 kB/s)
[INFO]
[INFO] -------------------------------------------------------
[INFO]  T E S T S
[INFO] -------------------------------------------------------
[INFO] Running com.example.demo.SpringBootPostgresApplicationTests
14:37:44,181 |-INFO in ch.qos.logback.classic.LoggerContext[default]
- Could NOT find resource [logback-test.xml]
14:37:44,182 |-INFO in ch.qos.logback.classic.LoggerContext[default]
- Could NOT find resource [logback.groovy]
14:37:44,182 |-INFO in ch.qos.logback.classic.LoggerContext[default]
- Found resource [logback.xml] at [file:/usr/local/spring-boot-
postgres/target/classes/logback.xml]
14:37:44,486 |-INFO in
ch.qos.logback.classic.joran.action.ConfigurationAction - debug
attribute not set
14:37:44,495 |-WARN in
ch.qos.logback.core.joran.action.IncludeAction - Could not find
resource corresponding to [/org/springframework/boot/logging/
logback/base.xml]
14:37:44,496 |-INFO in
ch.qos.logback.core.joran.action.AppenderAction - About to
instantiate appender of type [ch.qos.logback.core.ConsoleAppender]
```

```
14:37:44,503 |-INFO in
ch.qos.logback.core.joran.action.AppenderAction - Naming appender as
[CONSOLE]
14:37:44,518 |-INFO in
ch.qos.logback.core.joran.action.NestedComplexPropertyIA - Assuming
default type [ch.qos.logback.classic.encoder.PatternLayoutEncoder]
for [encoder] property
14:37:44,627 |-INFO in
ch.qos.logback.core.joran.action.AppenderAction - About to
instantiate appender of type
[ch.qos.logback.core.rolling.RollingFileAppender]
14:37:44,639 |-INFO in
ch.qos.logback.core.joran.action.AppenderAction - Naming appender as
[ROLLING_FILE]
14:37:44,653 |-INFO in
c.q.l.core.rolling.SizeAndTimeBasedRollingPolicy@1623009085 -
setting totalSizeCap to 10 MB
14:37:44,655 |-INFO in
c.q.l.core.rolling.SizeAndTimeBasedRollingPolicy@1623009085 -
Archive files will be limited to [1 MB] each.
14:37:44,657 |-INFO in
c.q.l.core.rolling.SizeAndTimeBasedRollingPolicy@1623009085 - No
compression will be used
14:37:44,658 |-INFO in
c.q.l.core.rolling.SizeAndTimeBasedRollingPolicy@1623009085 - Will
use the pattern logs/app_%d{dd-MM-yyyy}_%i.log for the active file
14:37:44,661 |-INFO in
ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@121314f7 - The
date pattern is 'dd-MM-yyyy' from file name pattern 'logs/app_%d{dd-
MM-yyyy}_%i.log'.
14:37:44,661 |-INFO in
ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@121314f7 - Roll-
over at midnight.
14:37:44,691 |-INFO in
ch.qos.logback.core.rolling.SizeAndTimeBasedFNATP@121314f7 - Setting
initial period to Sat Dec 19 13:45:07 GMT 2020
14:37:44,702 |-INFO in
ch.qos.logback.core.rolling.RollingFileAppender[ROLLING_FILE] -
Active log file name: logs/app.log
14:37:44,702 |-INFO in
ch.qos.logback.core.rolling.RollingFileAppender[ROLLING_FILE] - File
property is set to [logs/app.log]
14:37:44,707 |-INFO in
ch.qos.logback.classic.joran.action.RootLoggerAction - Setting level
of ROOT logger to INFO
14:37:44,707 |-INFO in
ch.qos.logback.core.joran.action.AppenderRefAction - Attaching
appender named [CONSOLE] to Logger[ROOT]
14:37:44,707 |-INFO in
ch.qos.logback.core.joran.action.AppenderRefAction - Attaching
appender named [ROLLING_FILE] to Logger[ROOT]
14:37:44,708 |-INFO in
ch.qos.logback.classic.joran.action.LoggerAction - Setting level of
logger [com.example.demo] to DEBUG
```

```
14:37:44,708 |-INFO in
ch.qos.logback.classic.joran.action.ConfigurationAction - End of
configuration.
14:37:44,708 |-INFO in
ch.qos.logback.classic.joran.JoranConfigurator@130c12b7 -
Registering current configuration as safe fallback point


[19-12-2020 14:37:45.221] [/] [main] INFO
o.s.b.t.c.SpringBootTestContextBootstrapper.buildDefaultMergedContex
tConfiguration - Neither @ContextConfiguration nor @ContextHierarchy
found for test class
[com.example.demo.SpringBootPostgresApplicationTests], using
SpringBootContextLoader
[19-12-2020 14:37:45.301] [/] [main] INFO
o.s.t.c.s.AbstractContextLoader.generateDefaultLocations - Could not
detect default resource locations for test class
[com.example.demo.SpringBootPostgresApplicationTests]: no resource
found for suffixes {-context.xml, Context.groovy}.
[19-12-2020 14:37:45.317] [/] [main] INFO
o.s.t.c.s.AnnotationConfigContextLoaderUtils.detectDefaultConfigurat
ionClasses - Could not detect default configuration classes for test
class [com.example.demo.SpringBootPostgresApplicationTests]:
SpringBootPostgresApplicationTests does not declare any static, non-
private, non-final, nested classes annotated with @Configuration.
[19-12-2020 14:37:45.941] [/] [main] INFO
o.s.b.t.c.SpringBootTestContextBootstrapper.getOrFindConfigurationCl
asses - Found @SpringBootConfiguration
com.example.demo.SpringBootPostgresApplication for test class
com.example.demo.SpringBootPostgresApplicationTests
[19-12-2020 14:37:46.337] [/] [main] INFO
o.s.b.t.c.SpringBootTestContextBootstrapper.getDefaultTestExecutionL
istenerClassNames - Loaded default TestExecutionListener class names
from location [META-INF/spring.factories]:
[org.springframework.boot.test.mock.mockito.MockitoTestExecutionList
ener,
org.springframework.boot.test.mock.mockito.ResetMocksTestExecutionLi
stener,
org.springframework.boot.test.autoconfigure.restdocs.RestDocsTestExe
cutionListener,
org.springframework.boot.test.autoconfigure.web.client.MockRestServi
ceServerResetTestExecutionListener,
org.springframework.boot.test.autoconfigure.web.servlet.MockMvcPrint
OnlyOnFailureTestExecutionListener,
org.springframework.boot.test.autoconfigure.web.servlet.WebDriverTes
tExecutionListener,
org.springframework.boot.test.autoconfigure.webservices.client.MockW
ebServiceServerTestExecutionListener,
org.springframework.test.context.web.ServletTestExecutionListener,
org.springframework.test.context.support.DirtiesContextBeforeModesTe
stExecutionListener,
org.springframework.test.context.support.DependencyInjectionTestExec
utionListener,
org.springframework.test.context.support.DirtiesContextTestExecution
Listener,
```

org.springframework.test.context.transaction.TransactionalTestExecut
ionListener,
org.springframework.test.context.jdbc.SqlScriptsTestExecutionListene
r,
org.springframework.test.context.event.EventPublishingTestExecutionL
istener]
[19-12-2020 14:37:46.776] [/] [main] INFO
o.s.b.t.c.SpringBootTestContextBootstrapper.getTestExecutionListener
s - Using TestExecutionListeners:
[org.springframework.test.context.web.ServletTestExecutionListener@1
253e7cb,
org.springframework.test.context.support.DirtiesContextBeforeModesTe
stExecutionListener@2d36e77e,
org.springframework.boot.test.mock.mockito.MockitoTestExecutionListe
ner@61c9c3fd,
org.springframework.boot.test.autoconfigure.SpringBootDependencyInje
ctionTestExecutionListener@3b0c9195,
org.springframework.test.context.support.DirtiesContextTestExecution
Listener@366c4480,
org.springframework.test.context.transaction.TransactionalTestExecut
ionListener@2c7b5824,
org.springframework.test.context.jdbc.SqlScriptsTestExecutionListene
r@302a07d,
org.springframework.test.context.event.EventPublishingTestExecutionL
istener@5cdd09b1,
org.springframework.boot.test.mock.mockito.ResetMocksTestExecutionLi
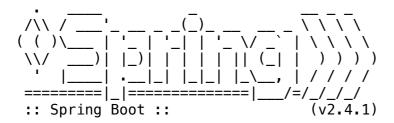stener@8c11eee,
org.springframework.boot.test.autoconfigure.restdocs.RestDocsTestExe
cutionListener@7e8dcdaa,
org.springframework.boot.test.autoconfigure.web.client.MockRestServi
ceServerResetTestExecutionListener@681a8b4e,
org.springframework.boot.test.autoconfigure.web.servlet.MockMvcPrint
OnlyOnFailureTestExecutionListener@5cbe877d,
org.springframework.boot.test.autoconfigure.web.servlet.WebDriverTes
tExecutionListener@5c08c46a,
org.springframework.boot.test.autoconfigure.webservices.client.MockW
ebServiceServerTestExecutionListener@4cf8b2dc]

```
  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.4.1)
```

[19-12-2020 14:37:48.016] [/] [main] INFO
c.e.d.SpringBootPostgresApplicationTests.logStarting - Starting
SpringBootPostgresApplicationTests using Java 11.0.9.1 on
5f09f10da630 with PID 66 (started by root in /usr/local/spring-boot-
postgres)
[19-12-2020 14:37:48.044] [/] [main] DEBUG
c.e.d.SpringBootPostgresApplicationTests.logStarting - Running with
Spring Boot v2.4.1, Spring v5.3.2

```
[19-12-2020 14:37:48.097] [/] [main] INFO
c.e.d.SpringBootPostgresApplicationTests.logStartupProfileInfo - No
active profile set, falling back to default profiles: default
[19-12-2020 14:37:53.124] [/] [main] INFO
o.s.s.c.ThreadPoolTaskExecutor.initialize - Initializing
ExecutorService 'applicationTaskExecutor'
[19-12-2020 14:37:54.492] [/] [main] INFO
c.e.d.SpringBootPostgresApplicationTests.logStarted - Started
SpringBootPostgresApplicationTests in 7.242 seconds (JVM running for
12.363)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time
elapsed: 11.522 s - in
com.example.demo.SpringBootPostgresApplicationTests
[19-12-2020 14:37:55.641] [/] [SpringContextShutdownHook] INFO
o.s.s.c.ThreadPoolTaskExecutor.shutdown - Shutting down
ExecutorService 'applicationTaskExecutor'
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ spring-boot-
postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/org/
apache/maven/shared/file-management/3.0.0/file-management-3.0.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
apache/commons/commons-compress/1.19/commons-compress-1.19.jar (615
kB at 179 kB/s)
[INFO] Building jar: /usr/local/spring-boot-postgres/target/spring-
boot-postgres-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.4.1:repackage (repackage) @
spring-boot-postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/org/
springframework/boot/spring-boot-buildpack-platform/2.4.1/spring-
boot-buildpack-platform-2.4.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/
codehaus/plexus/plexus-utils/3.2.1/plexus-utils-3.2.1.jar (262 kB at
25 kB/s)
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @
spring-boot-postgres ---
Downloading from central: https://repo.maven.apache.org/maven2/
junit/junit/3.8.1/junit-3.8.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/
commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 173
kB/s)
[INFO] Installing /usr/local/spring-boot-postgres/target/spring-
boot-postgres-0.0.1-SNAPSHOT.jar to /root/.m2/repository/com/
example/spring-boot-postgres/0.0.1-SNAPSHOT/spring-boot-
postgres-0.0.1-SNAPSHOT.jar
[INFO] Installing /usr/local/spring-boot-postgres/pom.xml to /
```

```
root/.m2/repository/com/example/spring-boot-postgres/0.0.1-SNAPSHOT/
spring-boot-postgres-0.0.1-SNAPSHOT.pom
[INFO]
------------------------------------------------------------------------
----
[INFO] BUILD SUCCESS
[INFO]
------------------------------------------------------------------------
----
[INFO] Total time:  04:34 min
[INFO] Finished at: 2020-12-19T14:38:41Z
[INFO]
------------------------------------------------------------------------
----
Removing intermediate container 5f09f10da630
 ---> ba29afa43ca4
Step 5/5 : CMD ["java", "-cp", "/usr/local/spring-boot-postgres/
target/spring-boot-postgres-0.0.1-SNAPSHOT.jar.original",
"com.example.demo.connection.TestConnection"]
 ---> Running in 6cfab3d8cf2f
Removing intermediate container 6cfab3d8cf2f
 ---> 2e46215ffeef

Successfully built 2e46215ffeef
Successfully tagged spring-boot-postgres:latest
```

## Running built image from docker-compose command detached mode
`docker-compose up -d`
```
Starting postgresqldatabase ... done
Starting docker-compose-postgresql_web_1 ... done
```

## View running containers in virtual machine
`docker-compose ps`
```
                Name                           Command
State           Ports
------------------------------------------------------------------------
----------------------------
docker-compose-postgresql_web_1   java -jar /usr/local/sprin ...
Up
postgresqldatabase                docker-entrypoint.sh postgres
Up      0.0.0.0:5432->5432/tcp
```

## View running container logs using service name in virtual machine
`docker-compose logs web`
```
Attaching to docker-compose-postgresql_web_1
web_1  |   .   ____          _            __ _ _
web_1  |  /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
web_1  | ( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
web_1  |  \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
web_1  |   '  |____| .__|_| |_|_| |_\__, | / / / /
web_1  |  =========|_|==============|___/=/_/_/_/
```

```
web_1  | :: Spring Boot ::                 (v2.4.1)
web_1  |
web_1  | 2020-12-19 18:50:40.452  INFO 1 --- [         main]
c.e.demo.SpringBootPostgresApplication   : Starting
SpringBootPostgresApplication v0.0.1-SNAPSHOT using Java 11.0.9.1 on
web with PID 1 (/usr/local/spring-boot-postgres/target/spring-boot-
postgres-0.0.1-SNAPSHOT.jar started by root in /)
web_1  | [19-12-2020 18:50:40.452] [/] [main] INFO
c.e.d.SpringBootPostgresApplication.logStarting - Starting
SpringBootPostgresApplication v0.0.1-SNAPSHOT using Java 11.0.9.1 on
web with PID 1 (/usr/local/spring-boot-postgres/target/spring-boot-
postgres-0.0.1-SNAPSHOT.jar started by root in /)
web_1  | 2020-12-19 18:50:40.468 DEBUG 1 --- [         main]
c.e.demo.SpringBootPostgresApplication   : Running with Spring Boot
v2.4.1, Spring v5.3.2
web_1  | [19-12-2020 18:50:40.468] [/] [main] DEBUG
c.e.d.SpringBootPostgresApplication.logStarting - Running with
Spring Boot v2.4.1, Spring v5.3.2
web_1  | 2020-12-19 18:50:40.482  INFO 1 --- [         main]
c.e.demo.SpringBootPostgresApplication   : No active profile set,
falling back to default profiles: default
web_1  | [19-12-2020 18:50:40.482] [/] [main] INFO
c.e.d.SpringBootPostgresApplication.logStartupProfileInfo - No
active profile set, falling back to default profiles: default
web_1  | 2020-12-19 18:50:43.766  INFO 1 --- [         main]
o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with
port(s): 8080 (http)
web_1  | [19-12-2020 18:50:43.766] [/] [main] INFO
o.s.b.w.e.tomcat.TomcatWebServer.initialize - Tomcat initialized
with port(s): 8080 (http)
web_1  | 2020-12-19 18:50:43.800  INFO 1 --- [         main]
o.apache.catalina.core.StandardService   : Starting service [Tomcat]
web_1  | [19-12-2020 18:50:43.800] [/] [main] INFO
o.a.catalina.core.StandardService.log - Starting service [Tomcat]
web_1  | 2020-12-19 18:50:43.807  INFO 1 --- [         main]
org.apache.catalina.core.StandardEngine  : Starting Servlet engine:
[Apache Tomcat/9.0.41]
web_1  | [19-12-2020 18:50:43.807] [/] [main] INFO
o.a.catalina.core.StandardEngine.log - Starting Servlet engine:
[Apache Tomcat/9.0.41]
web_1  | 2020-12-19 18:50:43.967  INFO 1 --- [         main]
o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring
embedded WebApplicationContext
web_1  | [19-12-2020 18:50:43.967] [/] [main] INFO  o.a.c.c.C.
[Tomcat].[localhost].[/].log - Initializing Spring embedded
WebApplicationContext
web_1  | 2020-12-19 18:50:43.968  INFO 1 --- [         main]
w.s.c.ServletWebServerApplicationContext : Root
WebApplicationContext: initialization completed in 3297 ms
web_1  | [19-12-2020 18:50:43.968] [/] [main] INFO
o.s.b.w.s.c.ServletWebServerApplicationContext.prepareWebApplication
Context - Root WebApplicationContext: initialization completed in
3297 ms
web_1  | 2020-12-19 18:50:45.263  INFO 1 --- [         main]
```

```
o.s.s.concurrent.ThreadPoolTaskExecutor  : Initializing
ExecutorService 'applicationTaskExecutor'
web_1  | [19-12-2020 18:50:45.263] [/] [main] INFO
o.s.s.c.ThreadPoolTaskExecutor.initialize - Initializing
ExecutorService 'applicationTaskExecutor'
web_1  | 2020-12-19 18:50:45.973  INFO 1 --- [          main]
o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on
port(s): 8080 (http) with context path ''
web_1  | [19-12-2020 18:50:45.973] [/] [main] INFO
o.s.b.w.e.tomcat.TomcatWebServer.start - Tomcat started on port(s):
8080 (http) with context path ''
web_1  | 2020-12-19 18:50:46.016  INFO 1 --- [          main]
c.e.demo.SpringBootPostgresApplication   : Started
SpringBootPostgresApplication in 7.17 seconds (JVM running for
9.406)
web_1  | [19-12-2020 18:50:46.016] [/] [main] INFO
c.e.d.SpringBootPostgresApplication.logStarted - Started
SpringBootPostgresApplication in 7.17 seconds (JVM running for
9.406)
```

`docker-compose ps`
```
             Name                              Command
State           Ports
-----------------------------------------------------------------------
-----------------------------
docker-compose-postgresql_web_1   java -jar /usr/local/sprin ...
Up
postgresqldatabase                docker-entrypoint.sh postgres
Up      0.0.0.0:5432->5432/tcp
```

## Bring down running container using docker-compose command
`docker-compose down`
```
Stopping docker-compose-postgresql_web_1 ... done
Stopping postgresqldatabase              ... done
Removing docker-compose-postgresql_web_1 ... done
Removing postgresqldatabase              ... done
Removing network docker-compose-postgresql_default
```

`docker-compose ps`
```
Name    Command    State    Ports
----------------------------
```

`docker-compose up -d`
```
Creating network "docker-compose-postgresql_default" with the
default driver
Creating postgresqldatabase ... done
Creating docker-compose-postgresql_web_1 ... done
```

## To build specific image/service
`docker-compose build web`
`docker-compose build db`

To stop service
`docker-compose stop web`
`docker-compose start web`

Building image and running at the same time from
docker-compose command (Uses docker-compose.yml file)
`docker-compose up --build -d`