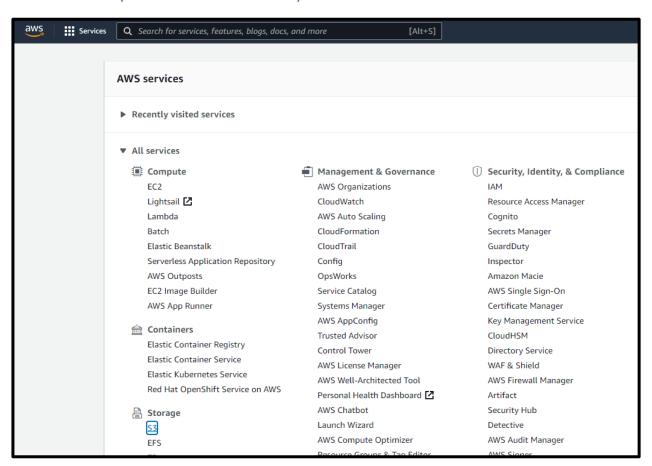
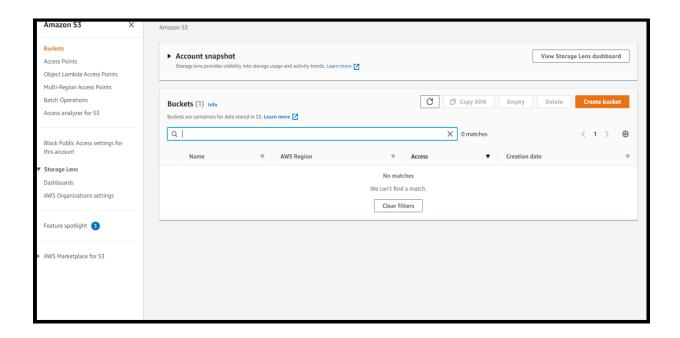
SBA9

SPRINGBOOT APPLICATION IN AWS

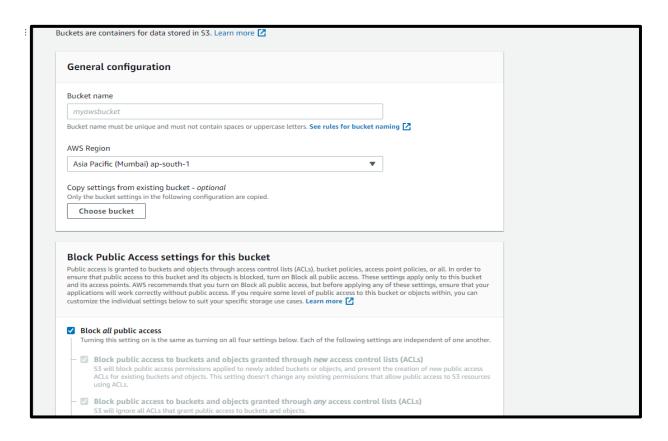
- 1. CREATE AWS ACCOUNT
- 1.1 GO TO THE AWS WEB PAGE (I.E.: https://aws.amazon.com/premiumsupport/knowledge-center/create-and-activate-aws-account/) AND
 - ADD BASIC DETAILS AND
 - ADD CARD INFO
 - PAY THE FEE FOR THE ACC.
 - AFTER ACC. CREATTON GO TO THE HOME PAGE OF AWS
- 2. CREATE A STORAGE SAPCE
- 2.1 SELECT S3 (ALL SERVICES -> STORAGE -> S3)



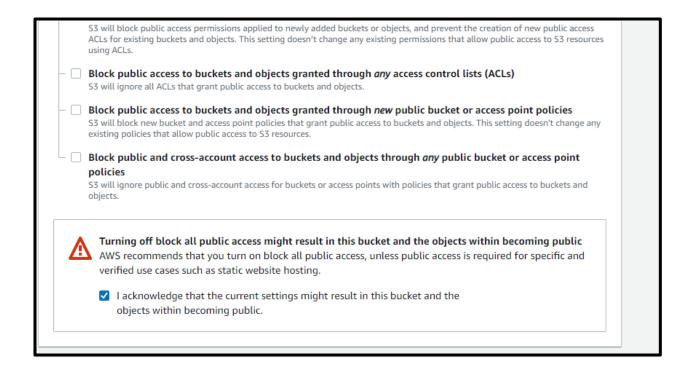
2.2 CREATE A BUCKET



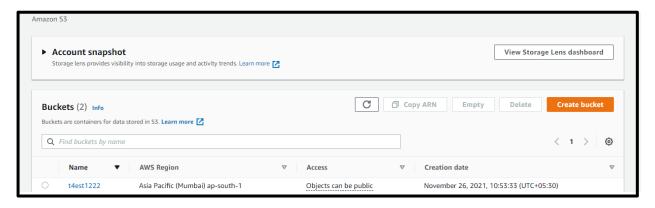
2.3. ADD GENERAL INFO THEN UNTICK TICK THE BLOCK ALL PUBLIC ACCESS (✓ → □)



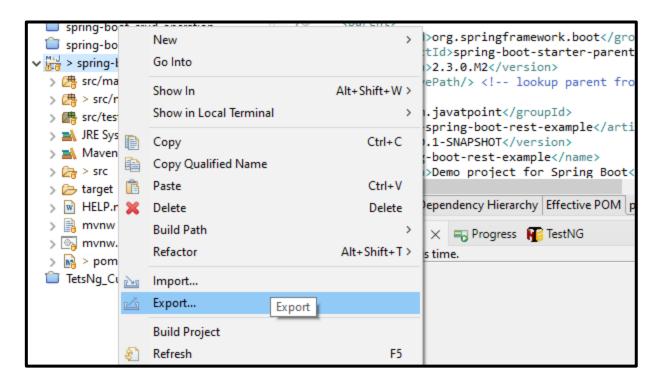
2.4. THEN TICK / "TURNING OFF BLOCK ALL PUBLIC ACCESS".



2.5. FINALLY CLICK CREATE BUCKET BUTTON



- 3. WE NEED TO CREATE WAR OR JAR FILE FOR OUR JAVA SPRINTBOOT PROJECT
- 3.1 GO TO YOUR JAVA PROJECT IN ECLIPSE THEN
 - ONE WAY TO MAKE JAR OR WAR FILE
 - O RIGHT CLICK ON THE PROJECT U WILL SEE AN EXPORT OPTION



- CLICK ON THE EXPORT IT WILL SHOW MANY TYPES OF FILE FORMAT IF YOU WANT TO EXPORT THE FILE IN JAR FORMAT CHOOSE JAVA → JAR OTHERWISE, CHOOSE WAR IN WEB → WAR.
- ANOTHER WAY TO MAKE JAR OR WAR IS THAT IN YOUR PROJECT THERE IS A POM FILE, OPEN IT IN ECLIPSE.

```
> Appiumsample [UST master]
SBA
□ SBA3
                                                                     spring-boot-crud-operation
spring-boot-example
spring-boot-rest-example [UST_JAVA_SDET main]
> 려 src/main/java

<
                                                         11
12
13
14
15
16
17
> # > src/main/resources
 src/test/java
 > M JRE System Library [JavaSE-1.8]
                                                                Maven Dependencies
> 🛵 > src
> 📂 target
> 📓 HELP.md
                                                        189
20
21
229
239
24
25
26
279
28
29
30
319
                                                                concerties>
                                                                <java.version>1.8</java.version>

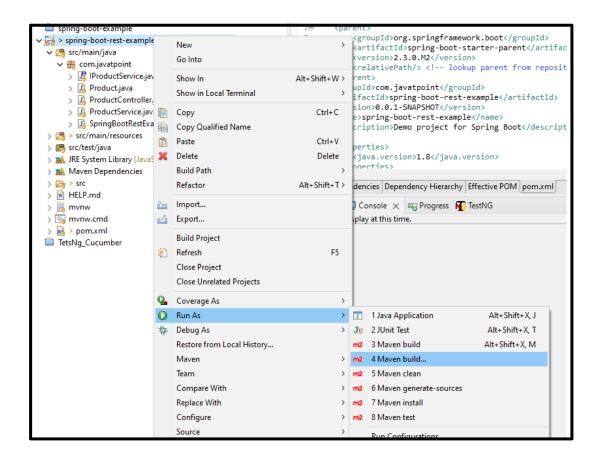
  mvnw
 mvnw.cmd
                                                                <dependencies>
> 🙀 > pom.xml
TetsNg_Cucumber
                                                                    <exclusions>
<exclusion>
                                                         32⊖
                                                                                <groupId>org.junit.vintage</groupId>
  <artifactId>junit-vintage-engine</artifactId>
                                                        33
34
35
36
37
38
39
40⊕
41⊕
42⊕
43
                                                                             </exclusion>
                                                                         </exclusions>
                                                                </dependency>
                                                                                  unTd>org.snringframework.hoot</grounTd>
                                                        Overview Dependencies Dependency Hierarchy Effective POM pom.xml
```

IN HERE

- O ADD A TAG I.E, < PACKAGING>
- O INSIDE THIS TAG ADD WHICH TYPE OF FILE FORMAT WE WANT, PUT IT THERE.

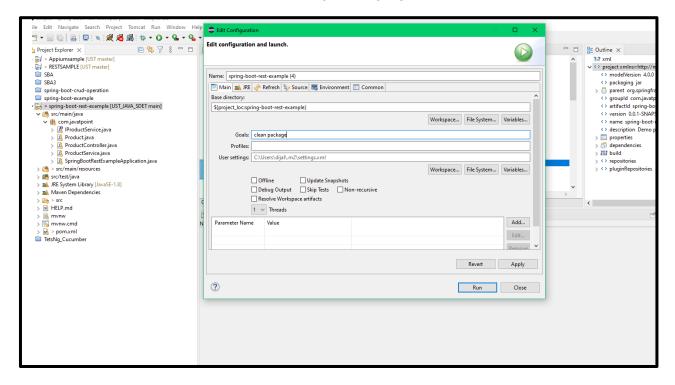
AFTER THAT RIGHT CLICK ON THIS SPRINGBOOT PRICT.

O RUN AS → MAVEN BUILD

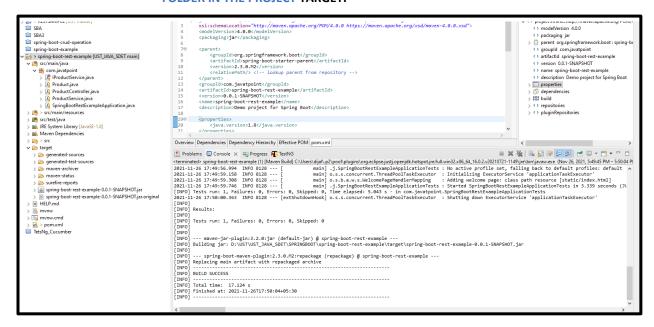


AFTER THAT, INSIDE IN THE CONFIGURATION SET GOAL AS →

CLEAN PACKAGE

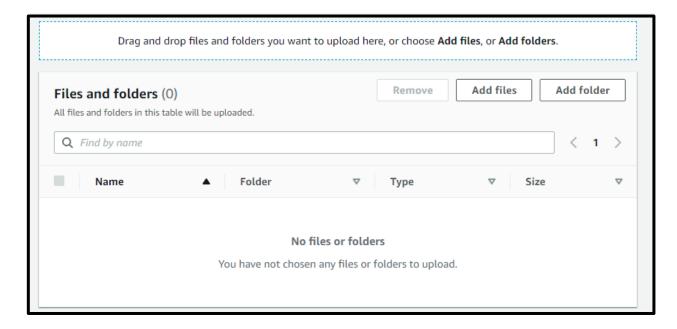


RUN IT, AFTER IT BUILD SUCCESFULL, THEN REFRESH THE PROJECT AND U WILL SEE A
FOLDER IN THE PROJECT TARGET.

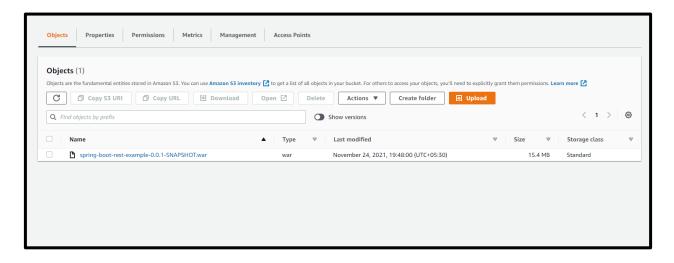


• INSIDE THIS TARGET FOLDER U WILL SEE A JAR FILE.

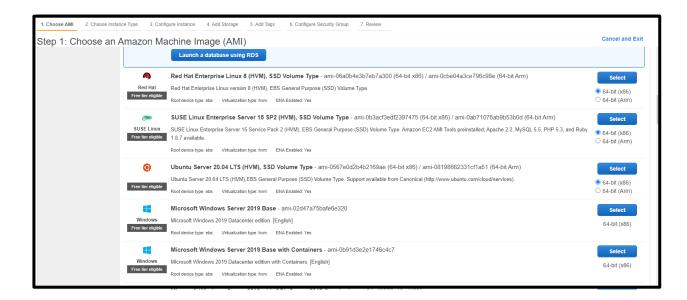
- 4. NEXT STEP GO TO THE AWS \rightarrow S3 \rightarrow OPEN THE BUCKET THAT U CREATED.
- 4.1 IN THAT BUCKET U WILL SEE UPLOAD FILES BUTTON.



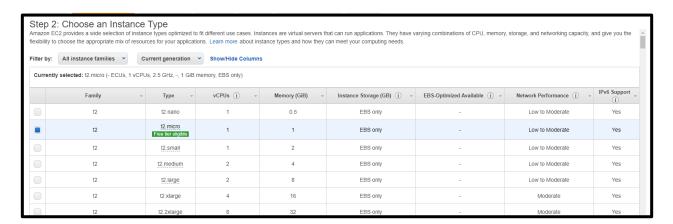
4.2 CLICK ON THAT UPLOAD FILES AND CHOOSE THE FILE (JAR OR WAR) FROM THAT SPRINGBOOT PROJECT LOCATION AFTER THAT UPLOAD IT.



- 5. CREATE A EC2 INSTANCE
- 5.1 GOTO HOME PAGE OF AWS OR CLICK ON THE SERVICES.
- 5.2 CLICK ON THE COMPUTE → EC2
- 5.3 CLICK LAUNCH INSTANCE SELECT A MACHINE (IN HERE I SELECT "Ubuntu Server 20.0.4")



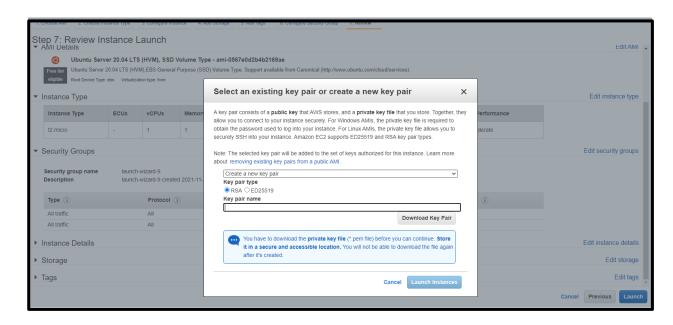
5.4 SELECT FREE TIER TYPE AND GOTO NEXT.



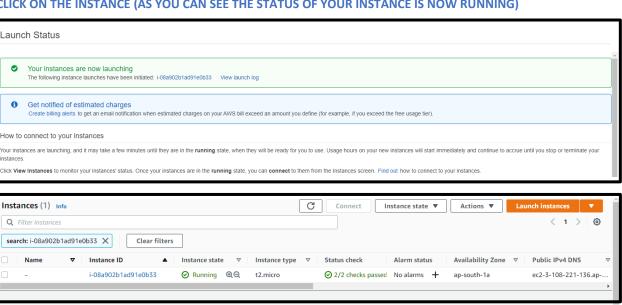
5.5 GOTO 6TH STEP AND CHANGE THE <u>TYPE OF PROTOCOL AND SOURCE</u> LIKE THAT IN THE BELOW IMAGE.THEN GOTO THE 7TH STEP CLICK ON LAUNCH.



5.6 AFTER LAUNCH IT WILL SHOW A WINDOW FOR SELECT SECURITY KEY-PAIR, IF YOU DON'T HAVE IT CLICK ON THE DROP DOWN AND SELECT CREATE A NEW KEY-PAIR. THEN SAVE IT INTO YOUR DESIRED LOCATION.AND CLICK ON LAUNCH INSTANCE.

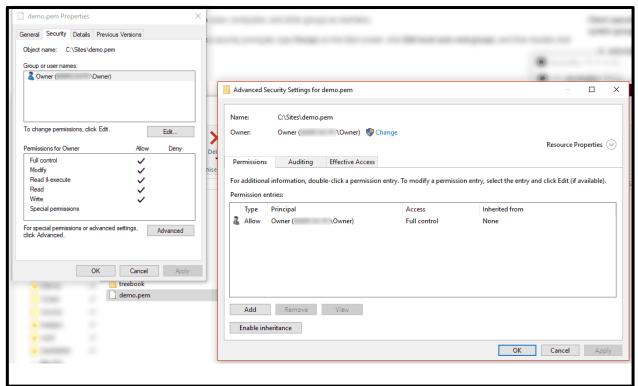


5.7 CLICK ON THE INSTANCE (AS YOU CAN SEE THE STATUS OF YOUR INSTANCE IS NOW RUNNING)

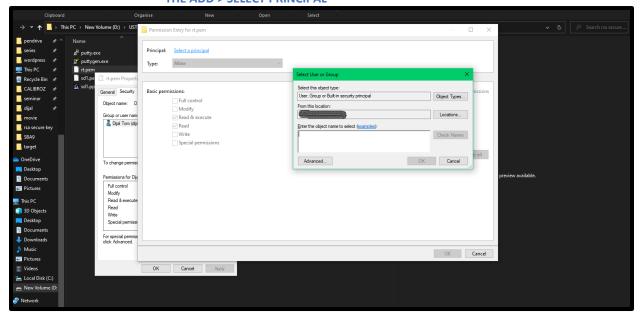


- 5.8 DOWNLOAD PUTTY FOR CONNECTING TO THE SERVER OR USE YOUR OWN CMD FOR CONNECTING THE SEREVR.
 - IF YOU USE PUTTY THEN →DOWNLOAD IT FROM THIS LINK AND CHECK HOW TO USE IT.(https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html)
 - IF YOU USE CMD

- O GOTO THE SECURITY FILE LOCATION THAT YOU DOWNLOADED FROM THE AWS.
- O RIGHT CLICK ON THE (. PEM) FILE AND GOTO THE PROPERTIES AND SELECT ADVANCED.



 THEN DISABLE INHERITANCE > 'CONVERT INHERITED PERMISSIONS INTO EXPLICIT PERMISSION ON THIS OBJECT'> REMOVE ALL USERS AND CLICK ON THE ADD > SELECT PRINCIPAL



- ENTER THE CURRENT USERNAME AND > CHECK NAMES > OK>
 CLICK ON "ALLOW | EVERYONE | FULL CONTROL" > OK > OK (OK UNTIL ALL WINDOWS ARE CLOSED).
- 6. CONNECTING TO THE SERVER
- **6.1 COPY THE SSH COMMAND FROM**
- 6.1.1 GOTO THE CURRENT EC2 INSTANCE THAT YOU CREATED AND RIGHT CLICK ON THE INSTANCE→
 SELECT CONNECT



6.1.2 THEN COPY THE SSH COMMAND

Eg:

ssh -i "rt.pem" ubuntu@ec2-3-108-221-136.ap-south-1.compute.amazonaws.com

- 6.2 THEN GOTO YOUR KEY FILE (.PEM) SAVED LOCATION AND OPEN THE CMD IN THERE.
- 6.2.1 PASTE THE SSH COMMAND THERE AND IT WILL POP UP A MESSAGE AND TYPE YES THEN IT WILL LOOK LIKE IN THE BELOW IMAGE.

```
microsoft Windows [Version 10.0.19043.1348]
(c) Microsoft Corporation. All rights reserved.

D:\UST\rsa secure key>ssh -i "rt.pem" ubuntu@ec2-3-108-221-136.ap-south-1.compute.amazonaws.com
welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1020-aws x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Management: https://lubuntu.com/advantage

System information as of Fri Nov 26 13:53:54 UTC 2021

System load: 0.0 Processes: 98
Usage of /: 17.9% of 7.69GB Users logged in: 0
Memory usage: 20% IPv4 address for eth0: 172.31.32.87

Swap usage: 0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Fri Nov 26 13:17:18 2021 from 103.199.144.97
To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.
```

7. TYPE THE FOLLOWING COMMAND

- 7.1.1 sudo apt update
- 7.1.2 sudo apt-get install default-jre -y
- 7.2 CHECK THE JAVA VERSION
- 7.2.1 java -version

```
done.
ubuntu@ip-172-31-32-87:~$ java -version
openjdk version "11.0.11" 2021-04-20
OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
OpenJDK 64-Bit Server VM (build 11.0.11+9-Ubuntu-0ubuntu2.20.04, mixed mode, sharing)
ubuntu@ip-172-31-32-87:~$
_
```

7.3 COPY THE OBJECT URL FROM S3

7.3.1 OPEN YOUR AWS → GOTO YOUR BUCKET → AND CLICK ON THAT BUCKET → CLICK ON THAT (WAR OR JAR) FILE → COPY THE OBJECT URL

EG: https://yourbucketname.s3.ap-south-1.amazonaws.com/spring-boot.war

- 7.3.2 GOTO THAT CMD AFTER THE JAVA VERSION COMMAND TYPE
- wget https://yourbucketname.s3.ap-south-1.amazonaws.com/spring-boot.war
- Ic
- 7.3.3 COPY THE FILE NAME FROM THE CMD THEN TYPE
- java -jar <u>filename</u>
- 7.4 AFTER IT WILL START THE SPRING-BOOT APPLIACTION
- 7.4.1 THEN GOTO AWS AND GOTO THE CURRENT EC2 INSTANCE THAT YOU CREATED AND RIGHT CLICK ON THE INSTANCE→ SELECT CONNECT->COPY THE PUBLIC DNS
- 8. OPEN ANY WEB-BROWSER SUCH AS, (CHROME, EDGE....ETC)
- 9. PASTE THE URL AND ADD THE PORT NUMBER (THAT U GAVE IN SPRING-BOOT APPLICATION) IN THE URL

EG.

