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Build war file deploy into the tomcat

Successfully installed java, maven, tomcat

```
[DivyaJ@localhost ~]$ sudo systemctl start tomcat
[DivyaJ@localhost ~]$ sudo systemctl status tomcat
● tomcat.service - Apache Tomcat Web Application Container
   Loaded: loaded (/usr/lib/systemd/system/tomcat.service; disabled; vendor
preset: disabled)
   Active: active (running) since Sat 2023-09-30 16:00:32 UTC; 7s ago
 Main PID: 2825 (java)
    Tasks: 37
   Memory: 112.9M
   CGroup: /system.slice/tomcat.service
           └─2825 /usr/lib/jvm/jre/bin/java -Djavax.sql.DataSource.Factor...

Sep 30 16:00:36 localhost.localdomain server[2825]: Sep 30, 2023 4:00:36 ...
Sep 30 16:00:36 localhost.localdomain server[2825]: INFO: Starting servic...
Sep 30 16:00:36 localhost.localdomain server[2825]: Sep 30, 2023 4:00:36 ...
Sep 30 16:00:36 localhost.localdomain server[2825]: INFO: Starting Servle...
Sep 30 16:00:36 localhost.localdomain server[2825]: Sep 30, 2023 4:00:36 ...
Sep 30 16:00:36 localhost.localdomain server[2825]: INFO: Starting Protoc...
Sep 30 16:00:36 localhost.localdomain server[2825]: Sep 30, 2023 4:00:36 ...
Sep 30 16:00:36 localhost.localdomain server[2825]: INFO: Starting Protoc...
Sep 30 16:00:36 localhost.localdomain server[2825]: Sep 30, 2023 4:00:36 ...
Sep 30 16:00:36 localhost.localdomain server[2825]: INFO: Server startup ...
Hint: Some lines were ellipsized, use -l to show in full.
[DivyaJ@localhost ~]$ java -version
openjdk version "1.8.0_382"
OpenJDK Runtime Environment (build 1.8.0_382-b05)
OpenJDK 64-Bit Server VM (build 25.382-b05, mixed mode)
[DivyaJ@localhost ~]$ mvn -version
Apache Maven 3.0.5 (Red Hat 3.0.5-17)
Maven home: /usr/share/maven
Java version: 1.8.0_382, vendor: Red Hat, Inc.
Java home: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.382.b05-1.el7_9.x86_64/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "3.10.0-1160.90.1.el7.x86_64", arch: "amd64", fam
ily: "unix"
[DivyaJ@localhost ~]$
```

clone the repo and navigate to it

```
[DivyaJ@localhost ~]$ git clone https://github.com/abdulmalik07-m/java_proje
ct.git
Cloning into 'java_project'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 1), reused 12 (delta 0), pack-reused 0
Unpacking objects: 100% (15/15), done.
[DivyaJ@localhost ~]$ cd java_project
[DivyaJ@localhost java_project]$
```

execute mvn clean

```
  [DivyaJ@localhost java_project]$ mvn clean
  [INFO] Scanning for projects...
  [INFO]
  [INFO] ------------------------------------------------------------------------
  [INFO] Building Hello World Web Application Repository 1.0.0
  [INFO] ------------------------------------------------------------------------
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.4.1/maven-clean-plugin-2.4.1.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.4.1/maven-clean-plugin-2.4.1.pom (5
  KB at 2.1 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/18/maven-plugins-18.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/18/maven-plugins-18.pom (13 KB at 34.1 KB/s
  ec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/16/maven-parent-16.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/16/maven-parent-16.pom (23 KB at 70.1 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/apache/7/apache-7.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/apache/7/apache-7.pom (15 KB at 68.4 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.4.1/maven-clean-plugin-2.4.1.jar
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.4.1/maven-clean-plugin-2.4.1.jar (23
   KB at 66.7 KB/sec)
  [INFO]
  [INFO] --- maven-clean-plugin:2.4.1:clean (default-clean) @ hello-world-war ---
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (2 KB at 5.1 KB
  /sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom (9 KB at 45.5 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom (15 KB at 30.3 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (4 KB at 12.2 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/2.0.5/plexus-utils-2.0.5.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/2.0.5/plexus-utils-2.0.5.pom (4 KB at 11.7 KB/sec
  )
  Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/2.0.6/plexus-2.0.6.pom
  Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus/2.0.6/plexus-2.0.6.pom (17 KB at 23.7 KB/sec)
  Downloading: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/2.0.5/plexus-utils-2.0.5.jar
  Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/2.0.5/plexus-utils-2.0.5.jar (218 KB at 170.3 KB/
  sec)
  [INFO] ------------------------------------------------------------------------
  [INFO] BUILD SUCCESS
  [INFO] ------------------------------------------------------------------------
  [INFO] Total time: 8.533s
  [INFO] Finished at: Sat Sep 30 16:05:26 UTC 2023
  [INFO] Final Memory: 7M/17M
  [INFO] ------------------------------------------------------------------------
  [DivyaJ@localhost java_project]$
```

execute mvn package to build it

```
[INFO]
[INFO] BUILD SUCCESS
[INFO] --------------------------------
[INFO] Total time: 1:08.025s
[INFO] Finished at: Sat Sep 30 16:07:34 UTC 2023
[INFO] Final Memory: 11M/96M
[INFO] --------------------------------
[DivyaJ@localhost java_project]$
```
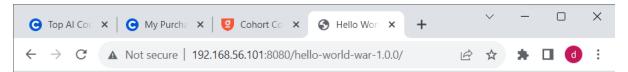
navigate to target

```
[DivyaJ@localhost java_project]$ cd target
```

copy the war file into tomcat webapps folder and restart tomcat

```
[DivyaJ@localhost target]$ sudo cp hello-world-war-1.0.0.war /usr/shar
e/tomcat/webapps
[sudo] password for DivyaJ:
[DivyaJ@localhost target]$ sudo systemctl restart tomcat
```

access the page

Hello World!

It is now Sat Sep 30 16:15:46 UTC 2023

You are coming from 192.168.56.1