

08.07May.ContinuesBuilding

7 May 2023 04:10 PM

- ① Continuous Building.
- ② Continuous Testing.
- ③ Continuous Integration
- ④ Continuous Monitoring
- ⑤ Continuous Deployment
- ⑥ Continuous Development.

①	②	③
<u>Java</u>	<u>python</u>	<u>Go</u>
VCS = Github	GitLab	
Build = Maven	Build = PyBuilder.	
PL = Java	PL = Python.	
FW = Spring.	FW = Django, Flask.	

- 1) Create Arch
- 2) Git Repo
- 3) Build Tool
- 4) Test
- 5) Deploy (Dev/Test)

- ① Java
 - ② Maven
 - ③ Library = POM.XML
- JUnit 4/5

Install Java(JDK, JRE)

```
$ sudo apt update
```

```
$ sudo apt install openjdk-17-jre -y
```

```
$ sudo apt install openjdk-17-jdk -y
```

```
$ sudo apt install maven -y
```

```
$ mvn --version
```

```
$ mvn archetype:generate -DgroupId=com.nubeera.app \
-DartifactId=console-app \
-DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
```

```
$ cd console-app
```

Changes Required...

```
$ code .
```

```
$ mvn clean
```

If you have java 17 then update pom.xml following line after version tag:

```
<properties>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
</properties>
```

```
$ mvn package ( compile, test, archive)
```

```
$ java -cp target/console-app*.jar com.nubeera.app.App
```

USING COMPILE MAVEN GOAL(DEVELOPER TEAM)

```
$ mvn archetype:generate -DgroupId=com.nubeera.app \
-DartifactId=console-app \
-DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
```

```
$ cd console-app
```

```
$ mvn clean
```

```
$ mvn compile (java --> class)
```

```
$ cd target/classes
```

```
$ java com.nubeera.app.App
```

USING TEST MAVEN GOAL(TESTER TEAM)

```
$ mvn archetype:generate -DgroupId=com.nubeera.app \
-DartifactId=console-app \
```

-DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false

\$ cd console-app

\$ mvn clean

\$ mvn test > build-test-report.txt

\$ cd target/surefire-reports

\$ cat TEST*.xml

\$ mvn test-compile

\$ mvn package

Troubleshooting on Java17 Steps:

If you have java 17 then update pom.xml following line after version tag:

<properties>

 <maven.compiler.source>1.8</maven.compiler.source>

 <maven.compiler.target>1.8</maven.compiler.target>

</properties>