

Jenkins Assignment 2

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You are working for an MNC - Software Solutions company as a DevOps Engineer and Company would want you to establish the CICD pipeline in their organization by automating various workflows. You are requested to establish following task.

1. Setup a Jenkins server on AWS ubuntu machine.
2. Create a pipeline project.
3. Configure below git repository to code checkout.

GitHub : Repo URL

4. Compile the source code using Maven
5. Execute the Junit test cases using Maven
6. Package the application as war.
7. Install the tomcat9 server on AWS ubuntu machine.
8. Deploy the packaged application on Tomcat9.
9. Verify the application after successful deployment using browser.

```

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ addressbook ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /root/workspace/jenmavengit/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ addressbook ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 13 source files to /root/workspace/jenmavengit/target/classes
[INFO] /root/workspace/jenmavengit/src/main/java/com/edurekademo/tutorial/addressbook/AddressbookUI.java: Some input files use or override a deprecated API.
[INFO] /root/workspace/jenmavengit/src/main/java/com/edurekademo/tutorial/addressbook/AddressbookUI.java: Recompile with -Xlint:deprecation for details.
[INFO] /root/workspace/jenmavengit/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java:
/root/workspace/jenmavengit/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java uses unchecked or unsafe operations.
[INFO] /root/workspace/jenmavengit/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java: Recompile with -Xlint:unchecked for details.
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ addressbook ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ addressbook ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 5 source files to /root/workspace/jenmavengit/target/test-classes
[INFO] /root/workspace/jenmavengit/src/test/java/com/edurekademo/utilities/TestGenericComparator.java:
/root/workspace/jenmavengit/src/test/java/com/edurekademo/utilities/TestGenericComparator.java uses or overrides a deprecated API.
[INFO] /root/workspace/jenmavengit/src/test/java/com/edurekademo/utilities/TestGenericComparator.java: Recompile with -Xlint:deprecation for details.
[INFO]
Running com.edurekademo.utilities.TestHexAsciiConversion
74657374696e6720617363696920636f6e76657274696f6e20696e746f2068657861646563696d616c
testing ascii conversion into hexadecimal
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.032 sec - in com.edurekademo.utilities.TestHexAsciiConversion
Running com.edurekademo.utilities.TestGenericComparator
Tests run: 14, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.061 sec - in com.edurekademo.utilities.TestGenericComparator

Results :

Tests run: 23, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-war-plugin:3.3.1:war (default-war) @ addressbook ---
[INFO] Packaging webapp
[INFO] Assembling webapp [addressbook] in [/root/workspace/jenmavengit/target/addressbook]
[INFO] Processing war project
[INFO] Building war: /root/workspace/jenmavengit/target/addressbook.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.176 s
[INFO] Finished at: 2023-03-06T08:32:16Z
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying /root/workspace/jenmavengit/target/addressbook.war to container Tomcat 9.x Remote with context addressbook.war
[/root/workspace/jenmavengit/target/addressbook.war] is not deployed. Doing a fresh deployment.
Deploying [/root/workspace/jenmavengit/target/addressbook.war]
Finished: SUCCESS

```

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Find Help

 THE **APACHE**™ SOFTWARE FOUNDATION
<http://www.apache.org>

- Server Status
- Manager App
- Host Manager



Tomcat Setup	Realms & AAA	Examples	Servlet Specifications
First Web Application	JDBC DataSources		Tomcat Versions

- [tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).
- [tomcat-users](#)
User support and discussion
- [taglibs-user](#)
User support and discussion for [Apache Taglibs](#)
- [tomcat-dev](#)
Development mailing list, including commit messages

Instances | xHow to Inst... xHow to Inst... xswapniljadh... xDashboard | xInstall Tomcat... xmanager xHow to Inst... xAccess Tom... xHow to Inst... x

←↻⚠ Not secure | 35.77.103.144:8080/manager/html

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Tomcat Web Application Manager

Message:

OK

Manager

[List Applications](#)

[HTML Manager Help](#)

[Manager Help](#)

[Server Status](#)


Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/docs	None specified	Tomcat Documentation	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/examples	None specified	Servlet and JSP Examples	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/host-manager	None specified	Tomcat Host Manager Application	true	0	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/manager	None specified	Tomcat Manager Application	true	1	<div>Start Stop Reload Undeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>

Deploy

Deploy directory or WAR file located on server

Context Path:



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