EPAM Systems, RD Dep.

MTN.*NIX.09
Continuous Delivery with Jenkins

MTN.*NIX.09 Continuous Delivery with Jenkins

Software build principles

REVISION HISTORY					
Ver.	Description of Change	Author	Date	Approved	
				Name	Effective Date
<1.0>	Initial revision	Aleksandr Mazurenko	<25-Jun-2017>		

Task 1. Maven build

Review

Implement Maven build script for sample project.

Task

1. Install Maven
2. Clone GitHub project

   git@github.com:MNT-Lab/build-t00ls.git
3. Create your own branch based on master by pattern:

   First char of name + surname

Example: The name of student - Serhei Ivanou. The branch will be **sivanou**.

4. Implement pom.xml script to clean, compile, test, create jar file and distribution artifact. (source code in 'src' repo).

```
[INFO] --- maven-jar-plugin:3.1.0:jar (default-jar) @ ci-training ---
[INFO] Building jar: /home/dzmitry.mezhva/mvn_install/home-task/target/ci-training-1.0.jar
[INFO]
[INFO] --- maven-install-plugin:2.3.1:install (default-install) @ ci-training ---
[INFO] Installing /home/dzmitry.mezhva/mvn_install/home-task/target/ci-training-1.0.jar to /root/.m2/repository/com/mtn/training/ci-training/1.0/ci-training-1.0.jar
[INFO] Installing /home/dzmitry.mezhva/mvn_install/home-task/pom.xml to /root/.m2/repository/com/mtn/training/ci-training/1.0/ci-training-1.0.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 3.347s
[INFO] Finished at: Sun Oct 18 23:41:54 UTC 2020
[INFO] Final Memory: 17M/135M
[INFO] ------------------------------------------------------------------------
[root@ansible-packer home-task]# java -jar ./target/ci-training-1.0.jar
Hello, MNT Lab!
[root@ansible-packer home-task]#
```

5. All changes should be tracked by commits to own branch
6. Push to GitHub
7. Setup Jenkins job ("helloworld-**sivanou**-maven-build"):

   a) build from repository (poll SCM)

☑ Poll SCM

Schedule   H/5 * * * *

b) use maven plugin

Maven

Maven installations   **Add Maven**

    Maven

Name   maventask

☑ Install automatically

Install from Apache

Version 3.6.3 ⌄
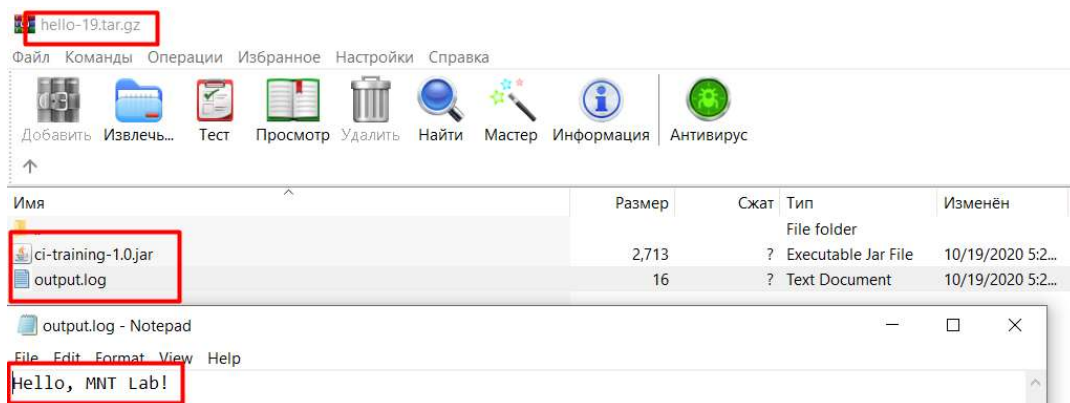
c) run jar and output save to file 'output.log'

```
jenkins@jenkins-7b654dcccb-gr84b:~/workspace/helloworld-dmezhva-maven-build/home-task/target$ cat output.log
Hello, MNT Lab!
```

d) archive and attach jar file

ARTEFACT_NAME=hello-$BUILD_NUMBER.tar.gz

Last Successful Artifacts

📄 hello-19.tar.gz   1.83 KB 📄 view

e) attach log file to build (archive artifact plugin)

hello-19.tar.gz

Файл Команды Операции Избранное Настройки Справка

Добавить Извлечь... Тест Просмотр Удалить Найти Мастер Информация Антивирус

↑

Имя	Размер	Сжат	Тип	Изменён
			File folder	
ci-training-1.0.jar	2,713	?	Executable Jar File	10/19/2020 5:2...
output.log	16	?	Text Document	10/19/2020 5:2...

output.log - Notepad   — ☐ ✕

File Edit Format View Help

Hello, MNT Lab!

Report:

Email pattern: [MNT-CD-3]-FirstName-LastName

Contains: GitHub link, Plugin config(screenshot), Job config(screenshot), output (screenshot)