

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>		

Legal Notice

This document contains privileged and/or confidential information and may not be disclosed, distributed or reproduced without the prior written permission of EPAM Systems.

Task 1. Gradle build

Review

Implement Gradle build script for sample project.

Task

1. Install Gradle
2. Clone GitHub project
[git@github.com:MNT-Lab/build-t00ls.git](https://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 **build.gradle** build to clean, compile, test, create jar file and distribution artifact. (source code in 'src' repo).
5. Build file should contain:
 - Tasks: "build-custom", "test-custom" and "hello".
 - "hello" should depend on "test-custom", "test-custom" should depend on "build"
 - setting custom artifact name

```
[root@ansible-packer home-task]# gradle clean hello

> Task :test-custom
Hello, MNT Lab!

> Task :hello
I'm Gradle

Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.7/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 1s
6 actionable tasks: 6 executed
[root@ansible-packer home-task]#
```

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



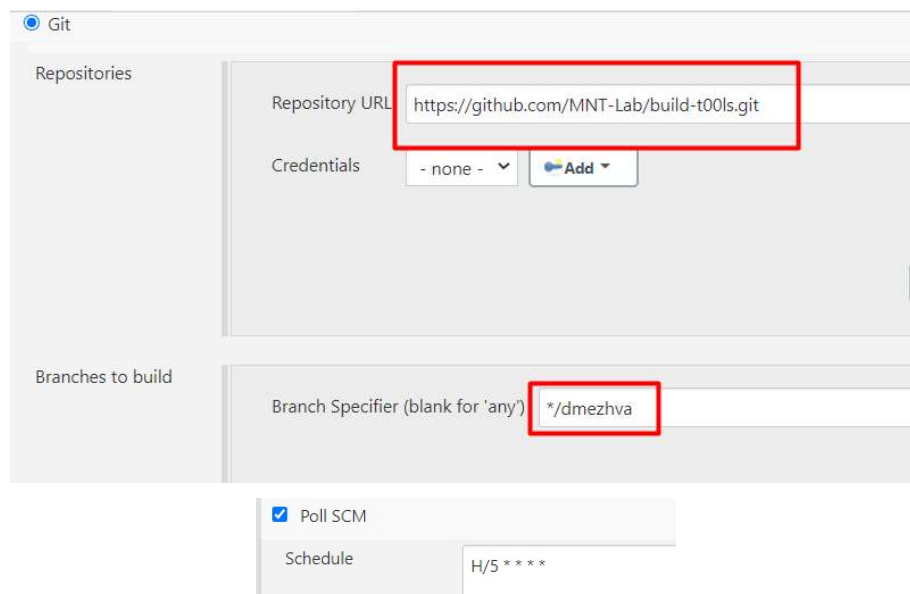
helloworld-dmezhva-gradle-build

13 min - #4

38 min - #1

14 sec

- a) build from repository (poll SCM)



b) use Gradle plugin



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

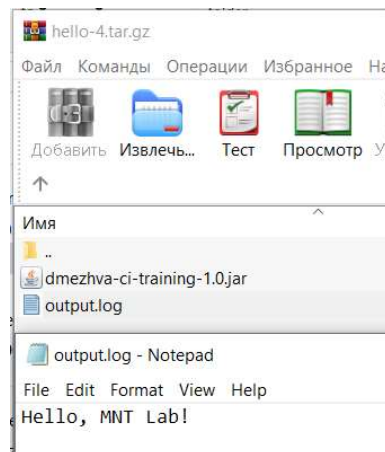
```
jenkins@jenkins-7b654dccc-9qf6f:~/workspace/helloworld-dmezghva-gradle-build/home-task/build/libs$ cat output.log
Hello, MNT Lab!
```

d) archive and attach jar file

ARTEFACT_NAME=hello-\$BUILD_NUMBER.tar.gz



e) attach log file to build



Additional Practice: install gradle wrapper and try to manipulate by tasks/commands

Report:

Email pattern: [MNT-CD-4]-FirstName-LastName

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