

## **Test management tools**

### **Jenkins Tutorial**

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## 1. Access Jenkins

<https://www.scs.ubbcluj.ro:9090>

## 2. Connect to Jenkins

### Log in - user your scs\_id\_user

user: for example, for student Savu Victor Gabriel (**svie1164@scs.ubbcluj.ro**) the user is **svie1164**

password: the password of user **svie1164**

## 3. Create a new Job

Each student will create his/her own **Job (for the TestPlan created in Testlink)**, the name of the job will be composed of: groupNumber followed by the names of the team members concatenated with the word Job. (93X\_Name01Name02\_Job)

- for example, for one of the team in group 931 Pop and Popescu the name of the job will be: **931\_PopPopescu\_Job**.

**a. Create a new Job from other existing job – please use this option, it is easier to created and faster.**

- Use “Copy from”: **Lecture02MaxPointsParticipants-bis**

- Modify in your Job the following elements

1. Github link with your Github link

2. Test Project and Test Plan with

a. **Lecture02MaxPointsParticipants with Projects93X**

b. **TestPlan\_Lecture02MaxPointsParticipants** with **93X\_Name01Name02\_TestPlan (created in Testlink).**

[Raw HTML] [Edit](#)

☐ Integrate with Assembla

☐ Discard old builds

GitHub project:

☐ The project is parameterized

☐ Disable this project

☐ Execute colonament builds if necessary

[Advanced...](#)

**Source Code Management**

☐ none

☐ CVS

☐ CVS Projectset

☐ File system

☒ Git

Repositories

Repository (URL):

Credentials:  [Add...](#)

[Advanced...](#)

[Add Repository](#)

**Invoke TestLink** ✕

**TestLink Configuration**

TestLink Version:

Test Project Name:

Test Plan Name:

Build Name:

Custom Fields:

[Advanced...](#)

## b. Create a new Job (empty job)

### Create Job - STEPS

- Jenkins Menu
- Select **New Job**
  - Name:
    - 93X\_Name01Name02\_Job
  - Select *Build a free -style software project*
  - click button "ok"



Figure 1. Jenkins – Creating new job

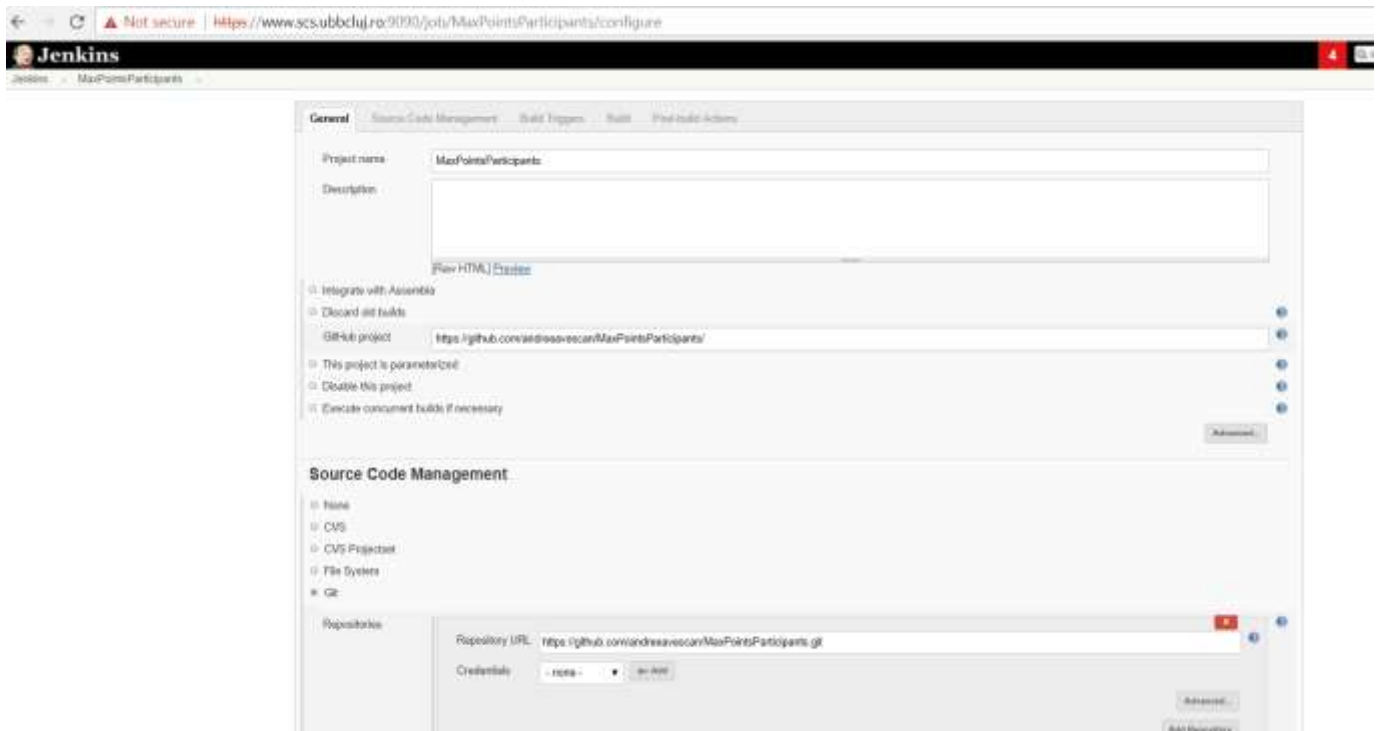
## 4. Configure your Job

- Jenkins Menu
- Select from the list of Jobs your previously created job
- Select from left menu the "Configure" section

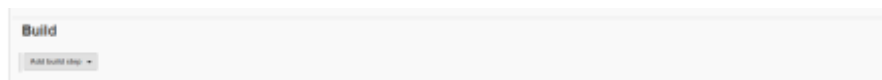


Figure 2. Jenkins – Configure job

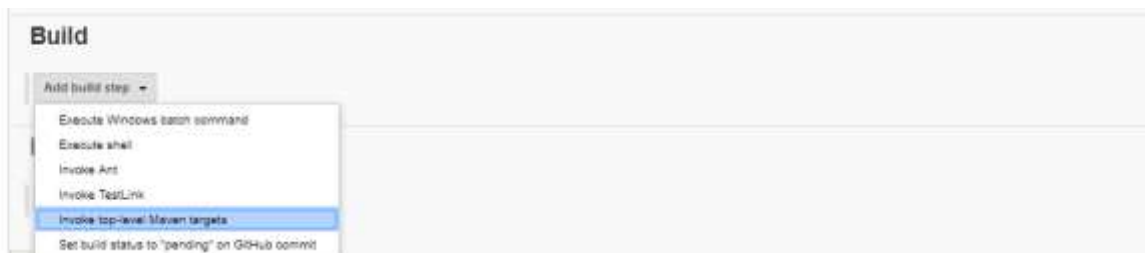
- GitHub project and Repository URL



- From Build section



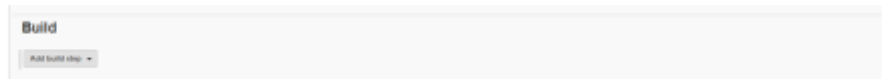
- Select Invoke top-level Maven targets



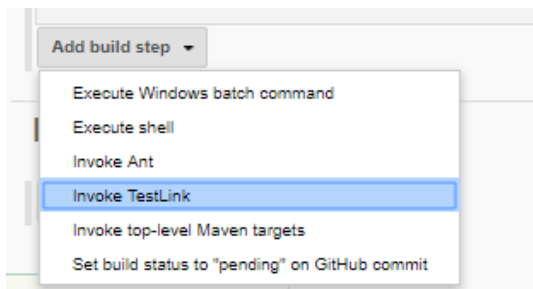
- Add info: Maven version: mvn and Goals: compile



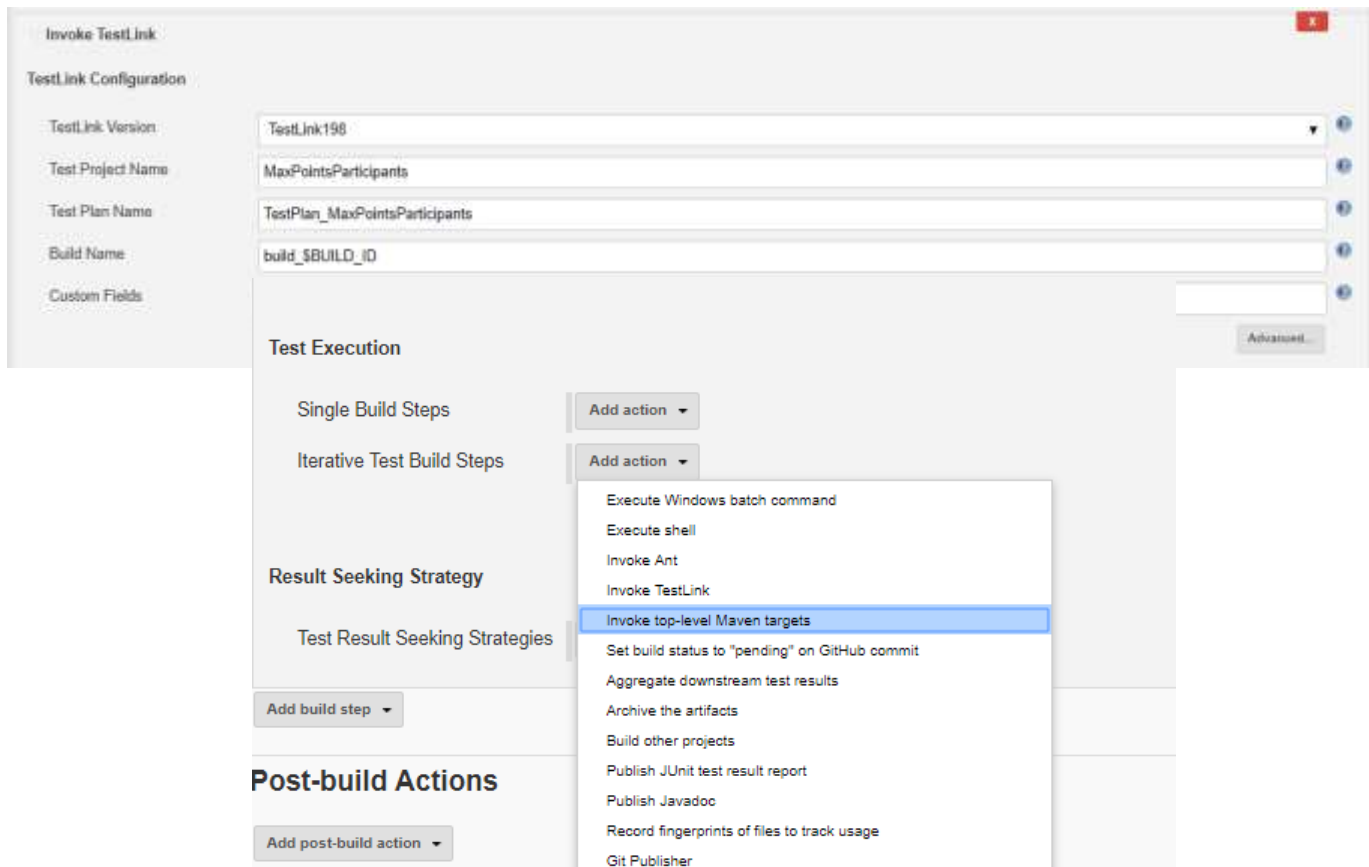
- From Build section



- Select Invoke TestLink



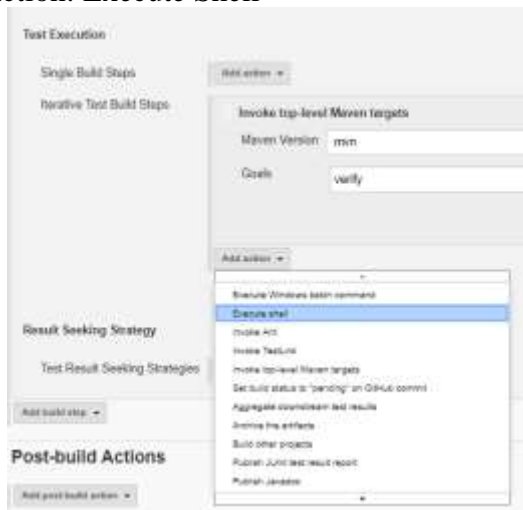
- Add info: Your TestProjectName, your Test Plan Name



- Select Invoke top-level Maven targets and add the information: Maven: mvn and Goals: verify

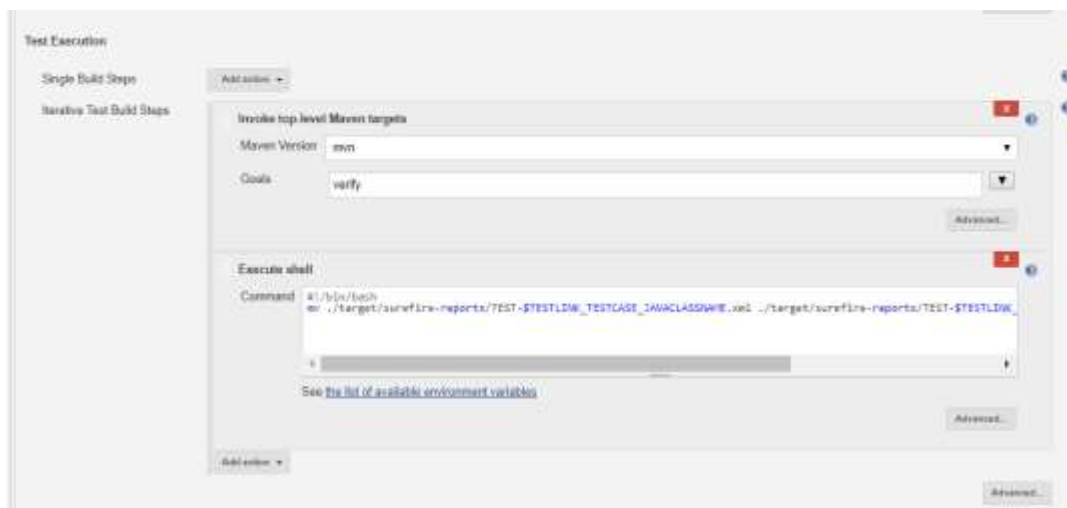


- Add another action: Execute Shell

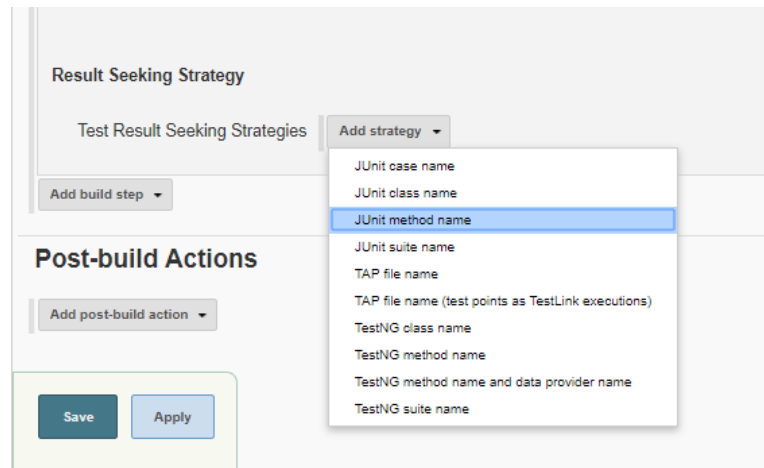


- Add the following command

```
#!/bin/bash
mv ./target/surefire-reports/TEST-$TESTLINK_TESTCASE_JAVACLASSNAME.xml ./target/surefire-reports/TEST-$TESTLINK_TESTCASE_JAVACLASSNAME.$TESTLINK_TESTCASE_ID.xml
```



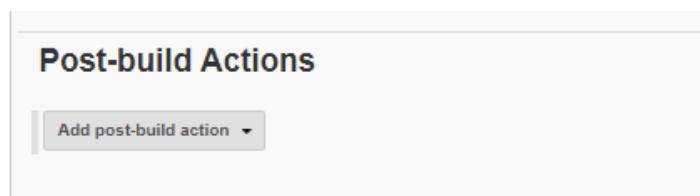
- On Invoke TestLink, at Result Seeking Strategy, add the strategy “JUnit method name”



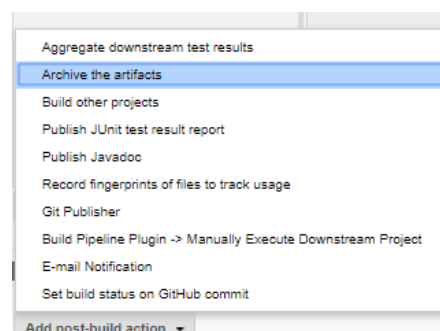
- Add the following information



- At section “Post-build Actions”



- At section “Post-build Actions”, add the post-build action “Archive the artifacts”





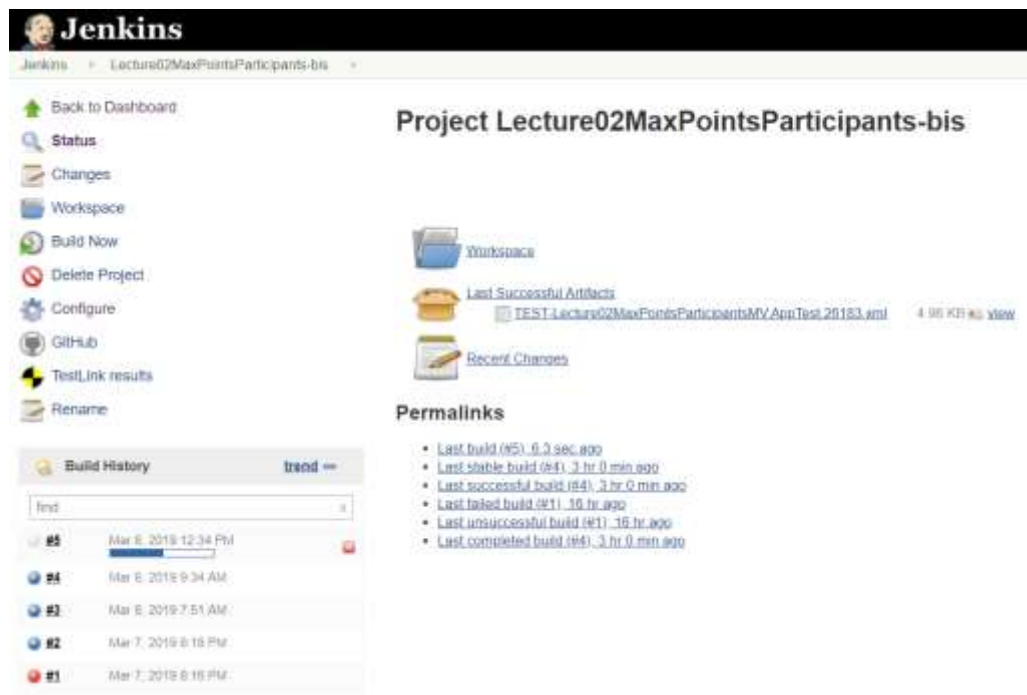
- Add the information



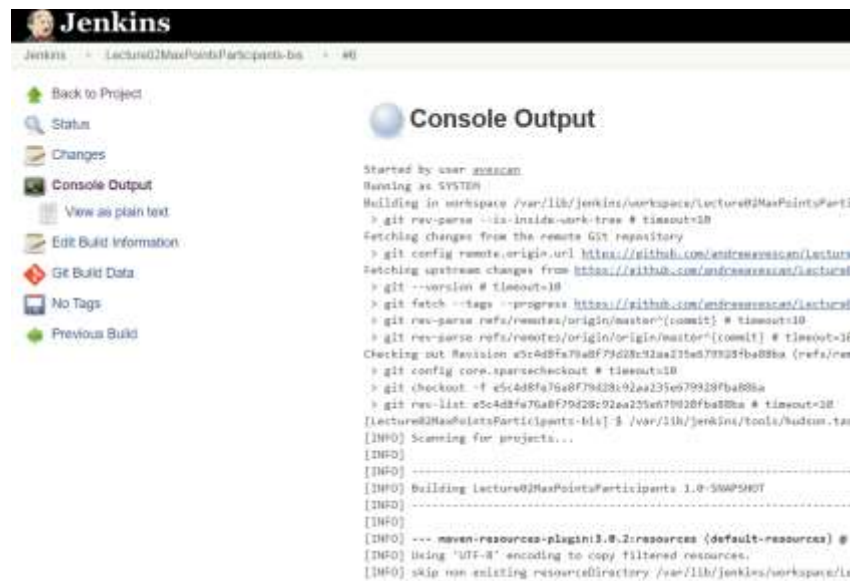
- And Save

## 5. Build

- Select the Job
- Select Build Now



- **Console Output**



## 6. Sending results from Jenkins to Testlink

After successfully running the job, in Testlink it is updated automatically the status of the test cases in Not Run, Passed, Failed, or Blocked.

## 7. View the state of a Test case in Testlink

In the Test Specification menu, within the chosen project, eg Projects931, a desired Test Suite is selected, e.g., xxir1234\_BBT, and a test case.

