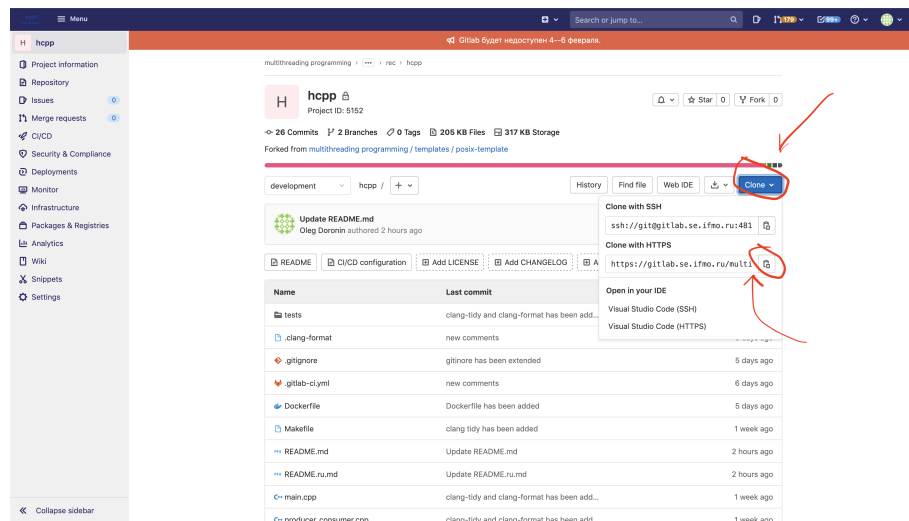


Working with Pipeline

1 Working with GIT and creating MR (merge request)

1. To work with GIT, it is recommended to familiarize yourself with the resources: [ProGit](#) и [Learning Git Branching](#)
2. After adding your gitlab login to the table, basic repositories will be created for you
3. To download the repository, open its page in gitlab and click **clone** -> **clone with https** and copy the url



4. Then we type **git clone** in the terminal and clone the repository:

```
$ R=https://gitlab.se.ifmo.ru/multithreading-programming/test-pipeline/rec/hcpp.git
$ GIT_SSL_NO_VERIFY=true git clone R
Cloning into 'hcpp'...
remote: Enumerating objects: 94, done.
```

```
remote: Counting objects: 100% (94/94), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 94 (delta 39), reused 94 (delta 39), pack-reused 0
Unpacking objects: 100% (94/94), done.
```

5. After that, you will have a directory with a repository. Next, you need to complete the task in the development branch and push it to the repository with separate commits. For example so:

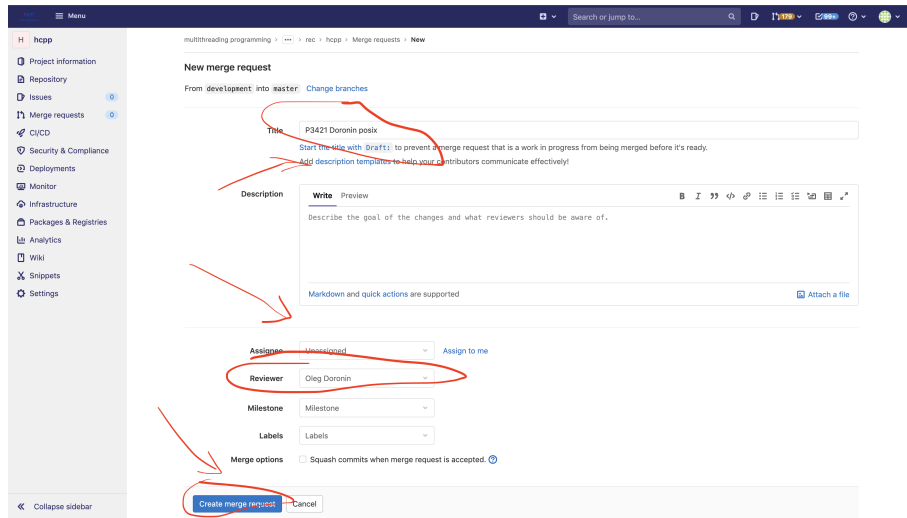
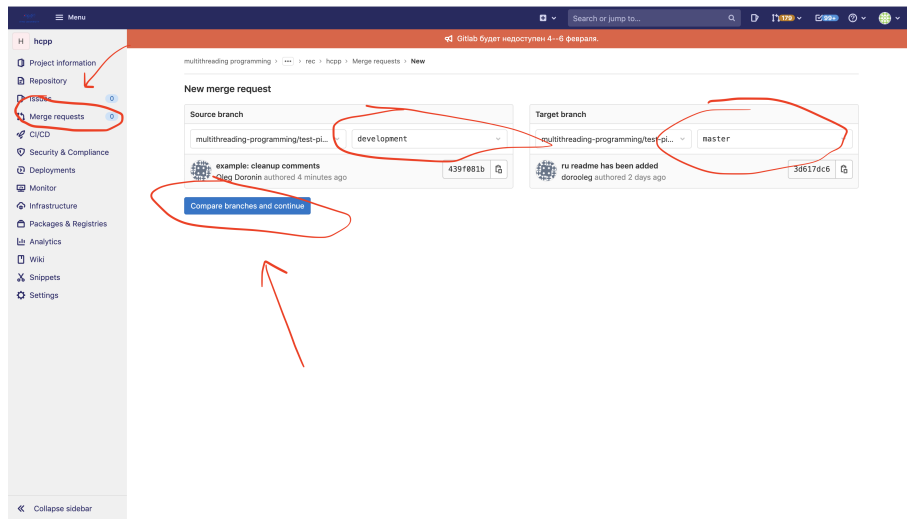
```
$ git status
On branch development
Your branch is up to date with 'origin/development'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   producer_consumer.cpp

no changes added to commit (use "git add" and/or "git commit -a")
$ git add *
$ git commit -m "example: cleanup comments"
[development 439f081] example: cleanup comments
 1 file changed, 1 deletion(-)
$ GIT_SSL_NO_VERIFY=true git push origin development
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 301 bytes | 301.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
To https://gitlab.se.ifmo.ru/multithreading-programming/test-pipeline/rec/hcpp.git
 93862c3..439f081  development -> development
```

6. If the code is written and tested, you need to create a **merge request**. To do this, go to the **Merge requests** tab and click **New merge request**. As **target branch** we specify **master**, and **source branch - development**. And click **Compare branches and continue**. In **Reviewer** we add one of the teachers of the course. In **Title** we write the group, your full name and the name of the task. When the required fields are filled in, click **Create merge request**



7. After that, all discussions will take place in this MR. The work is counted after all the tests are passed, the MR is closed and the results are displayed in the table

2 Working with GitLab Pipeline

1. To check that the Pipeline has worked successfully, you need to go to the Pipeline tab, which is automatically created after creating the MR and updating it

multithreading programming > ... > rec > hcpp > Jobs > #32974

failed Job #32974 triggered 7 minutes ago by Oleg Doronin

```

1 Running with gitlab-runner 14.7.0 (9d8aee8)
2 on posix-pipeline hcpp#32974
3 Preparing the "docker" executor
4 Using Docker executor with image hw-checker-template ...
5 Using docker image sha256:8b0fa814aee5fb16f5b2efad5682a114836f878fe2f99a814ca239d2c3c9bc for hw-checker-template ...
6 Preparing environment
7 Running on runner-9w8dskf-project-5152-concurrent-1 via kroschik...
8 Getting source from Git repository
9
10 Fetching changes with git depth set to 10...
11 Reinitialized existing Git repository in /home/builds/1/hcpp/.git/
12 Checking out 439f081b as refs/merge-requests/1/head...
13 Removing log.txt
14 Removing posix
15 Removing posix-tests/
16 Removing results/
17 Skipping Git submodules setup
18 Executing "step_script" step of the job script
19 Using docker image sha256:8b0fa814aee5fb16f5b2efad5682a114836f878fe2f99a814ca239d2c3c9bc for hw-checker-template ...
20 $ cp -r /posix-tests $GIT_CLONE_PATH; cd posix-tests
21 $ bash tests
22
23 +++ Removing old junit reports from: /home/builds/1/hcpp/posix-tests/results
24 name is: single_value
25
26 class is: tests
27
28 +++ Running case: tests.single_value
29 +++ working dir: /home/builds/1/hcpp/posix-tests
30 +++ Command: ./single_value.sh 1b62
31 Step 1. Build
32
33 clang++ *.cpp -g -std=c++17 -O3 -Wall -Wextra -pthread -pedantic -o posix
34 Step 2. Run test
35 echo "1 | timeout 10s ./posix 1 5
36 FAIL: Out must be 1 but return 0
37
38 +++ post code: 1

```

tests [Retry](#)

Duration: 49 seconds
Timeout: 1h (from project)
Runner: #18 (9vD3e5Kt) posix-pipeline

Job artifacts
These artifacts are the latest. They will not be deleted (even if expired) until newer artifacts are available.

Commit 439f081b in 1 example: cleanup comments

Pipeline #17062 for 11 with development

test

→ tests

4. To view all the tests, go to View full report

multithreading programming > ... > rec > hcpp > Pipelines > #17062

failed Pipeline #17062 triggered 9 minutes ago by Oleg Doronin [Retry](#) [Delete](#)

example: cleanup comments

4 jobs for 11 with development in 1 minute and 44 seconds (queued for 6 seconds)

[latest](#) [detached](#)

439f081b

1 related merge request: 11 P3421 Doronin posix

Pipeline Needs Jobs 4 Failed Jobs 1 **Tests 12**

Summary

12 tests	8 failures	0 errors	33.33% success rate	24.73s
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Jobs

Job	Duration	Failed	Errors	Skipped	Passed	Total
build	8.80s	0	0	0	2	2
built_in_tests	0.08ms	0	0	0	1	1
tests	15.93s	8	0	0	1	9

5. After that, select a group of tests and in this group you can select a specific bad test and view detailed information for it

