

Facultatea Calculatoare, Informatica si Microelectronica
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Catedra Automatica i tehnologii informa ionale

Medii interactiva de dezvoltare a produselor soft

Lucrare de laborator # 2

Version Control System si modul de setare a unui server

A efectuat: st. gr. TI-141
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A verificat: lect. asistent
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Chi in u 2016

1. Scopul Lucrării:

- Înțelegerea și folosirea CLI (basic level)
- Administrarea remote a mașinilor linux machine folosind SSH (remote code editing)
- Version Control Systems (git || mercurial || svn)

2. Obiective:

- initializează un nou repository
- configurează-ti VCS
- crearea branch-urilor (creează cel puțin 2 branches)
- commit pe ambele branch-uri (cel puțin 1 commit per branch)

3. Analiza lucrării de laborator

Link către repository: https://github.com/Erdboden/MIDPS_141

Pentru laboratorul trecut deja a fost setat un server VCS și conectarea folosind SSH, dar să parcurgem încă o dată pașii:

- 1) Cream un repository pe github.com
- 2) Copiem codul de pe site în git bash pentru a inițializa repositoryul local.

Branches:

Cream un branch prin comandă:

git branch Nume

```
Mark@Marc MINGW64 /e/midps/MIDPS_141 (master)
$ git branch new-branch
```

Pentru a schimba branchul introducem

Git checkout Nume

```
Mark@Marc MINGW64 /e/midps/MIDPS_141 (master)
$ git checkout new-branch
A       lab#2/branch.txt
Switched to branch 'new-branch'
```

Cu ajutorul comenzii git log putem afla orice commit făcut pe acel branch

```

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch)
$ git log
commit 797667bf4737820+05da+377b6+tc02bc3391b016
Author: Erdboden <mark.ghelas@gmail.com>
Date:   Wed Mar 30 17:00:16 2016 -0300

    commit for first branch

```

Cream al doilea branch

```

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch1)
$ git add .

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch1)
$ git status
On branch new-branch1
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   lab#2/second-branch.txt

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch1)
$ git commit -m "second branch"
[new-branch1 1d468dd] second branch
1 file changed, 1 insertion(+)
create mode 100644 lab#2/second-branch.txt

```

Merge a celor doua branchuri

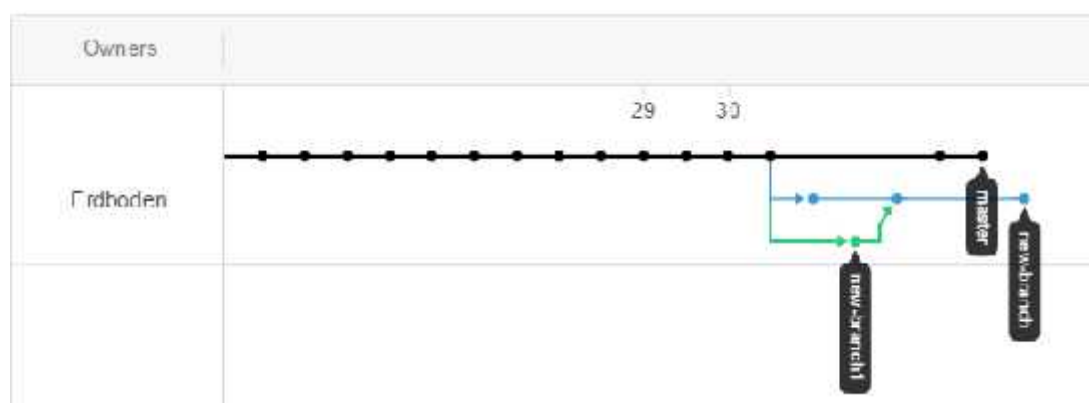
```

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch)
$ git branch
  master
* new-branch
  new-branch1

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch)
$ git merge new-branch1
vim: Error reading input, exiting...

Mark@Marc MINGW64 /e/midps/MIDPS_141 (new-branch)
$ vim: Finished.
git merge new-branch1 -m "merge two branches"
Merge made by the 'recursive' strategy.
 lab#2/second-branch.txt | 1 +
 1 file changed, 1 insertion(+)
create mode 100644 lab#2/second-branch.txt

```



Concluzie

La aceasta lucrare de laborator am cunoscut mai bine VCS GitHub si modul de setare a unui server. Am setat VCS si am creat doua branchuri, new-branch si new-branch1 si cite un commit la fiecare branch apoi am facut merge (new-branch1 -> new-branch).

Referinte

- <https://www.youtube.com/watch?v=yyLipIDQtf0>