

## Git Lesson 3: HandsOn

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Course	DevOps Engineering
Topic / Session number	Git / Lesson 3
Objectives / Goals	1. Handson

### ★ Objective 1: Handson

1. Create a remote private repo on your GitHub called `tentech_practice`.
2. On your local machine go to `~/Desktop` directory and clone your repo.
3. Cd to your repo directory and run command to verify if you are in the `main` branch.
4. Create a `homework.txt` file and add `My first git practice` into that file by running the following command: `echo "My first git practice" > homework.txt`
5. Commit changes to the GitHub.
6. Go to `tentech_practice` repo on the GitHub website and verify if `homework.txt` file appears there with `My first git practice` value inside.
7. Create a new branch called `practice`
8. Run command to verify if you are in the `practice` branch.
9. Add a second line to your `homework.txt` file by running the following command: `echo "Tentech is the best DevOps school" >> homework.txt`
10. Commit changes to the GitHub. **\*\*Note:** In order to push your changes you need to publish `practice` branch.
11. Go to `tentech_practice` repo on the GitHub website and verify if `homework.txt` file appears there with the second line `Tentech is the best DevOps school` value under the `practice` branch. **\*\*Note:** need to switch to the `practice` branch.
12. Create a New Pull Request for your changes.
13. Go to the `Files changed` tab under your pull request and verify changes.
14. Approve and merge Pull Request. Delete the `practice` branch from GitHub.
15. Verify if the second line of changes is merged to the `main` branch. Also, check if the `practice` branch was deleted.
16. Check out the `main` branch and run a command to delete the `practice` branch on your Mac since it no longer exists on the remote repository.
17. Verify if there is the only `main` branch.
18. Check the `homework.txt` file and make sure there are 2 lines inside, if there is only the first line, run a command to fix it (need to pull the updated file from GitHub). **Expected result:**

```
~/t/git/tentech_practice main cat homework.txt
My first git practice
Tentech is the best DevOps school
```

19. Add the 3rd line to `homework.txt` by running the command: `echo "HELLO WORLD" >> homework.txt`

20. Create a second file: `test.txt` with the `I like Git` value by running the following command: `echo "I like Git" > test.txt`
  21. Make a commit that includes only `test.txt` file changes to the GitHub.
  22. Go to `tentech_practice` repo on the GitHub website and verify if `test.txt` file appears with the `I like Git` value inside.
  23. Run a command to check if `homework.txt` file changes are not committed yet.
  24. Make a commit that includes only `homework.txt` file changes to the GitHub.
  25. Go to `tentech_practice` repo on the GitHub website and verify if `homework.txt` file appears with the `HELLO WORLD` value inside.
  26. Use a Git command to display a list of the commits.
  27. Create a `credentials` file that will contain sensitive information.
  28. Create `.gitignore` file. Set up `.gitignore` file to ignore the `credentials` file. **\*\*Note:** During any commit to the remote repo `credentials` file should be ignored.
  29. Stage, commit, and push your `main` branch changes to the remote repo.
  30. Verify if the `credentials` file is **NOT** pushed to the remote repo. `credentials` file should exist locally only.
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