

Bitbank shared drive using Github

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# Foreword and Executive Summary

This note documents a possible solution for Bitbank shared drive using Github. The advantages are

* Proven service for collaborative work and version control,
* Same tool can be used for development,
* Internet hosting of documents,
* Same level of cyber security as the community of Internet developers using Github.

The issues are.

* Learning curve of collaborative workshare,
* Paid service if the documents are in private repositories.

The purpose of this tutorial is to familiarise the team with the tool using a free but public repository. The final objective is to use Github for Bitbank collaborative work.

# Short description of Git and Github

Git is a tool for software version control created by Linus Torvalds to develop Linux. See <https://en.wikipedia.org/wiki/Git>.

Github is a combination of Git and an Internet hosting service. See <https://en.wikipedia.org/wiki/GitHub>

The concepts that are common to all Version Control Systems (VCS) are:



* Your files are managed by the OS file system, you can always manage them manually,
* Your files and their version descriptors are managed by the VCS, that can delete your files if you delete them from inside the VCS,
* The usual working steps are
* You work on your files with any editor (Excel, PhotoShop, Word, Edit …) in your local computer,
* VCS regroup all files in a project inside a "repository", which is equivalent to a VCS folder,
* You "add" your files to a "staging" area, waiting for "commit",
* "Staged" files are not yet really managed by the VCS,
* "Committed" files are in the VCS and ready to share.
* To make changes without disturbing the "master" repository and carry several parallel modifications that are logically independent, you can
* "branch" a file or set of files into a parallel repository, the main one is called "master"
* "merge" the branch into the "master" when changes are confirmed
* You can create a "remote" of your repository on the Internet, Github is a hosting service for such remotes.
* Other collaborators can "pull" your documents, make changes, and "push" them back to the hosting.

There are other subtle functions to "merge" conflictual changes, "clone" a complete repository …

# Tutorial of Github use for Bitbank

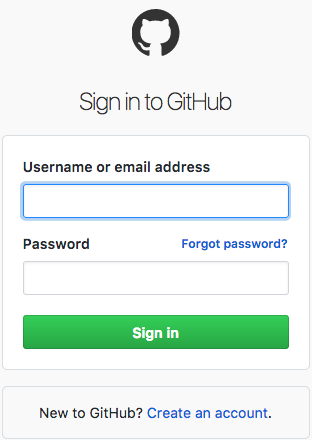
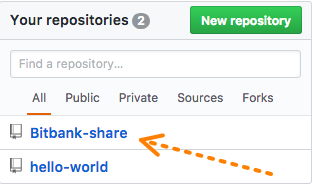
The screen shots of this tutorial are made on a public account open under the following login details. They can be used for exercises.

## Login

Web site: https://github.com/login

User name: kvutien

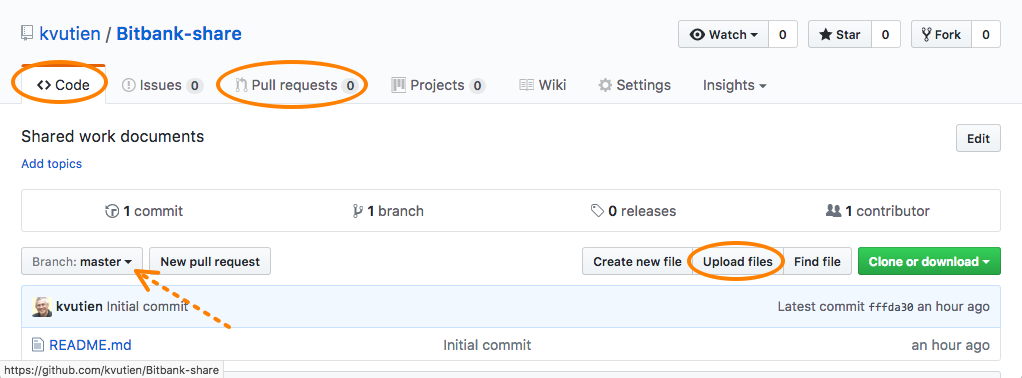
Password: alp-tank-prudence

You are presented with the "root" page.

The 2 main tabs that you'll use are "Code" and "Pull requests".

To start with, you are on the tab "Code" and on the "Master" branch.



## Upload a document to share

Let's start by uploading to the "master" branch a document to share. Because the repository is public, I'll upload this tutorial file, 20171008 Bitbank shared drive on Github.docx