

Using git, the distributed version control system

- Part 3

October 4, 2011

1 Introduction

If you wish developers from all over the world to collaborate with you in your project, you need some way to host your git repository on the Internet. A service called *github.com* lets you do exactly this.

First step in using github is creating an account; once that is done, you need to generate an encryption “key” and upload it to your account - this key will be used as an authentication mechanism. Once that is done, you can create a new repository on *github.com* through a simple web interface. The code that you commit to your local repository can now be “pushed” to your newly created *github.com* repository using the “git push” command on the Linux command line.

Watch the screencast and try to create a github code repository of your own!

2 References

1. <http://progit.org>. You will need to read this book once you start using git seriously.

3 Exercises

1. You realize that you have “committed” your files too early; you need to add one or more files to your commit. You can change the last commit and make it include the newly added files also by doing:
 - (a) `git reset`
 - (b) `git commit --amend`
 - (c) `git commit --refresh`
2. I wish to see only log messages for the last two days; what command should I use¹?

¹Note that there are two hyphens in the commands given in all the options

- (a) `git log --since=2.days`
 - (b) `git log --since 2.days`
 - (c) `git log --view=2.days`
3. Which of the following is a visual tool for analysing the commit history:
- (a) `git-display`
 - (b) `gitk`
4. Which of the following cryptographic hash functions is used by git?
- (a) SHA-1
 - (b) MD5
5. Which of the following is not a distributed version control system?
- (a) bazaar
 - (b) mercurial
 - (c) git
 - (d) cvs
6. I wish to create an “alias” for the git command: “git commit” - I wish to call this as “git ci”. What should I do?
- (a) Run the command: `git alias commit ci`
 - (b) Run the command: `git config --global alias.ci commit`