

Git Basics

Steve Offutt

OSSEM

September 4, 2016

Outline

1 What is version control?

2 Installing Git

- Windows
- Linux
- OSX

3 Basic Commands

What is version control?

- From Git's Website: "Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later."
- Keep track of stuff! Software projects, documentation, anything really.

Installing Git

- Windows

- ▶ Got to <https://git-scm.com/download/win> and download the installer.
- ▶ This will install the Git shell and setup the windows environment for Git.

- Linux

- ▶ Should be installed by default. If not, use your distributions package manager to install Git from the repositories.
- ▶ Example: Ubuntu, type `sudo apt-get install git`

- OSX

- ▶ I don't know. Google it.

Basic Commands

- init

- ▶ This is what you would use to typically start a NEW git repository.
- ▶ Suppose you wanted to start a project called CoolProject in `/home/OSSEM/Projects/`
- ▶ You would use the command `git init CoolProject`
- ▶ Just like that the CoolProject directory is made along with all of the repository files/folders.

- clone

- ▶ Used to clone a repository.
- ▶ Lets clone the DC Darknet Github defcon24 repo with `git clone https://github.com/thedarknet/defcon24.git`
- ▶ The ENTIRE contents, including branches and commit histories, will be cloned to your working directory. How cool!

- status

- add

- commit

- branch

- push