

Setting Up OpenStack Learning Environments

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Quick meetup group status update

- **Fortrust is now our permanent meeting location**
- **Meetings will be held last Thursday of every month at 6:30pm**

Where we're headed

- **We want to give attendees more hands-on time with OpenStack, not just talk about it**
- **Working with OpenStack is the best way to become more familiar with it**
- **To achieve this goal, we're going to walk through building a small OpenStack environment on our laptops**

Feedback

- Logistically speaking, how is the location and date?
- Does this direction (more hands-on time) make sense?
- Is this what you want from this group?
- What else would you like to see/do?

Agenda

- **The tools we're going to need**
- **Installing git**
- **Setting up a GitHub account**
- **Installing a virtualization product**
- **Installing Vagrant**

The tools we're going to need

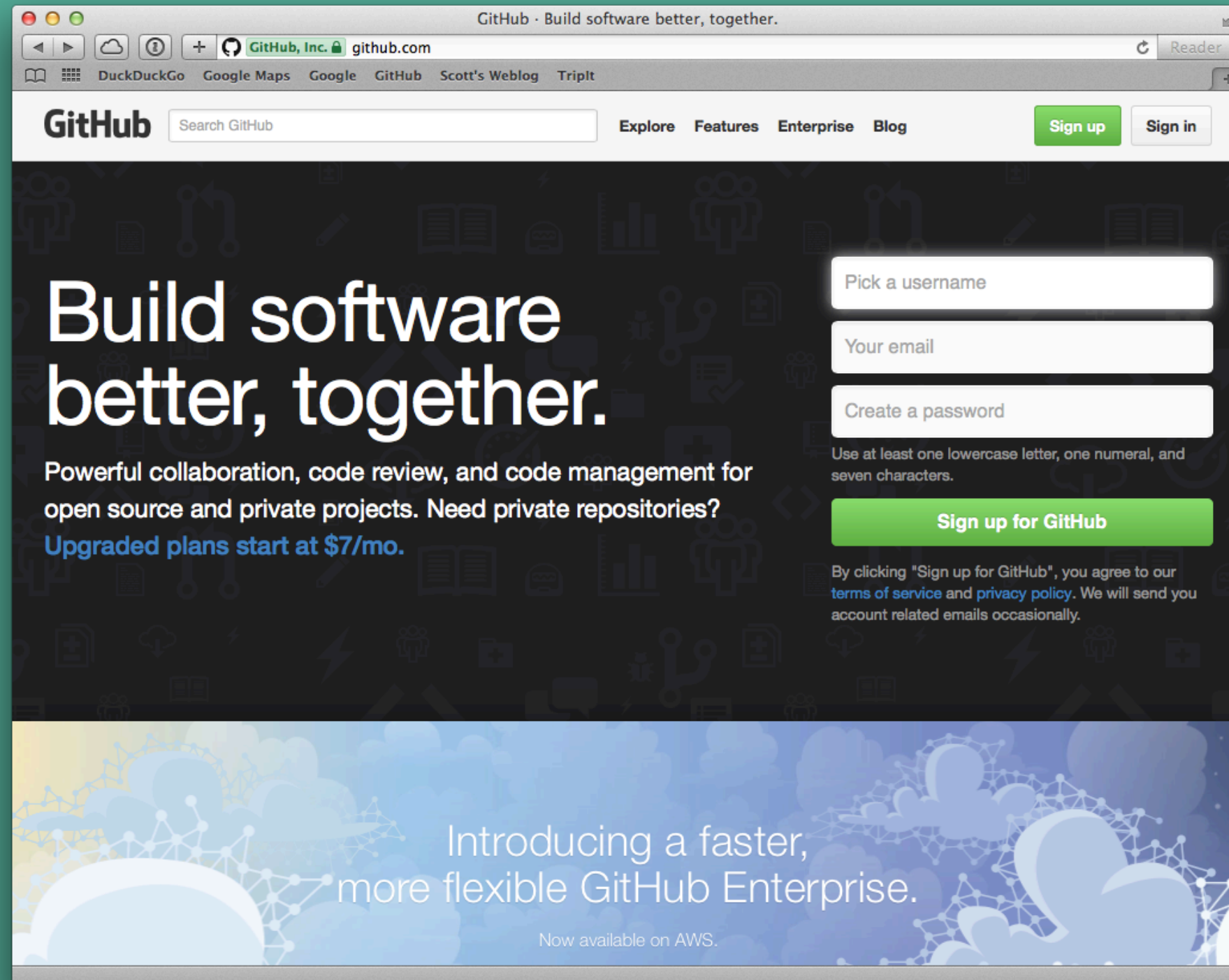
- **Git (and/or Git GUI tools, if desired)**
- **A GitHub account**
- **A desktop virtualization product (Workstation, Fusion, or VirtualBox)**
- **Vagrant**

Installing Git

- **OS X:** Install via installer from <http://git-scm.com> or by installing XCode command-line tools
- **Windows:** Install via installer from <http://git-scm.com>
- **Linux:** Install via `apt-get`, `yum`, or package manager of choice
- There are a variety of GUI-based tools that you can also install at your convenience (we'll only use the CLI)

Setting up a GitHub account

- We'll use GitHub (<https://github.com>) to share files with you
- No cost to use GitHub (free plan is just fine)
- Works fine with command-line Git (support in GUI tools may vary)
- Not a bad idea to become more familiar with GitHub anyway



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**Step 1:**
Set up a personal account

**Step 2:**
Choose your plan

**Step 3:**
Go to your dashboard

Create your personal account

Username

This will be your username — you can enter your organization's username next.

Email Address

You will occasionally receive account related emails. We promise not to share your email with anyone.

Password

Use at least one lowercase letter, one numeral, and seven characters.

Confirm your password

You'll love GitHub

Unlimited collaborators

Unlimited public repositories

✓ Great communication

✓ Friction-less development

✓ Open source community

By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

Create an account

Installing a virtualization product

- **Fusion (OS X)**
- **VirtualBox (OS X, Linux, or Windows)**
- **Workstation (Linux or Windows)**
- **VirtualBox is free, but Fusion/Workstation will allow use of nested hypervisors (helpful in this use case)**
- **If using Fusion/Workstation, you'll also need VMware plugin for Vagrant**

Installing Vagrant

- Latest version is 1.7.2
- Available for OS X, Windows, and Linux
- Download from <http://vagrantup.com>
- Linux users can also install via apt-get or yum (although might be older version)

Some quick Vagrant usage notes

- **Uses a plain text file (a "Vagrantfile") to describe environments**
- **`vagrant up` starts up the environment in the file**
- **`vagrant halt` shuts down the environment**
- **`vagrant destroy` deletes the VMs associated with the environment**

Questions & Answers

Thanks!

We (the meetup organizers) are always open to your feedback!

Blog: <http://blog.scottlowe.org>

Twitter: [@scott_lowe](https://twitter.com/scott_lowe)

GitHub: <https://github.com/lowescott>

Life: Colossians 3:17