3.1 Git Set-up

This section will guide you to:

* Install and set up a Git account

This lab has four sub-sections, namely:

3.1.1 Creating an account with Github

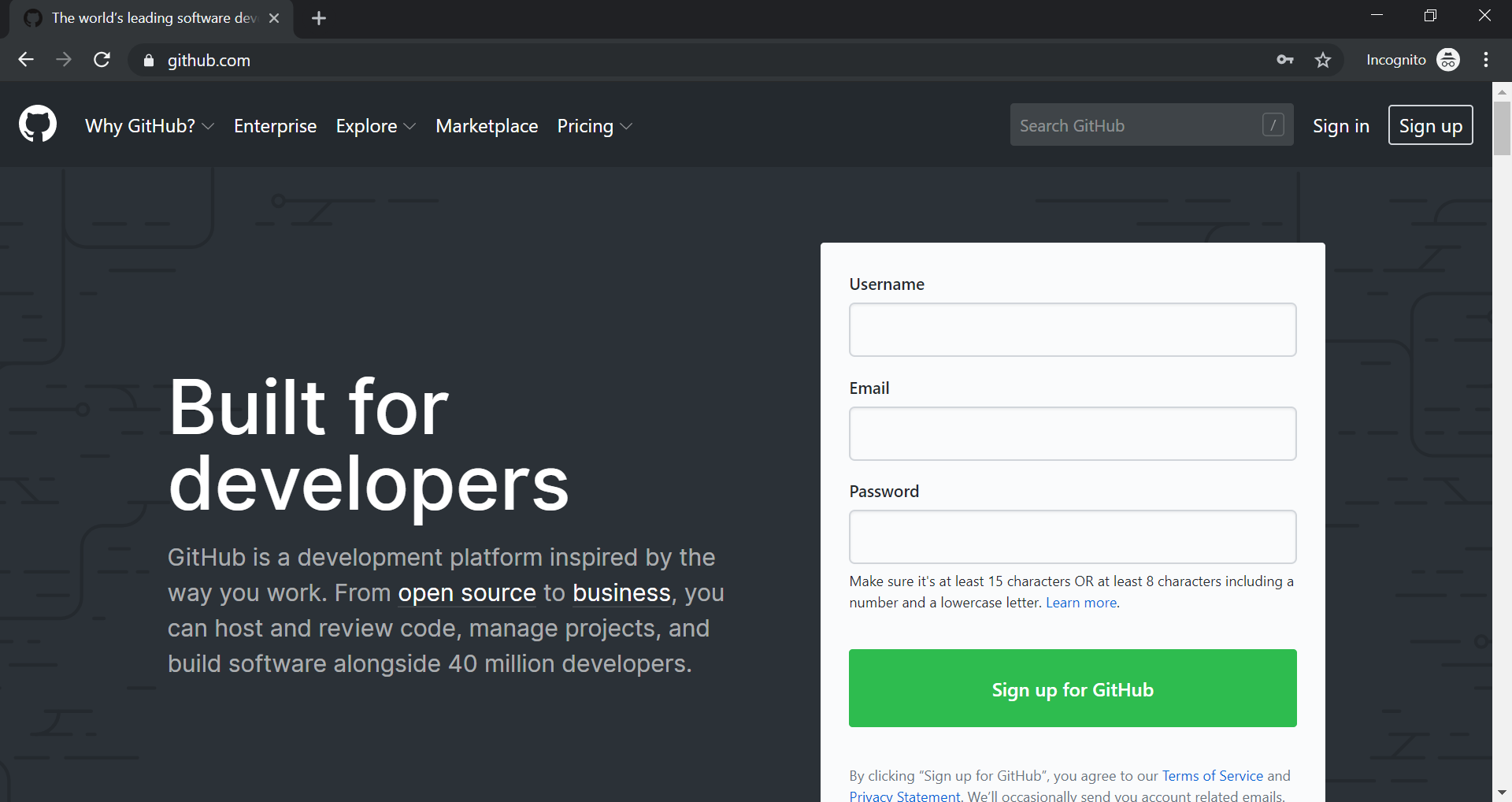
3.1.2 Downloading and installing the git command line tool

3.1.3 Generating SSH keys

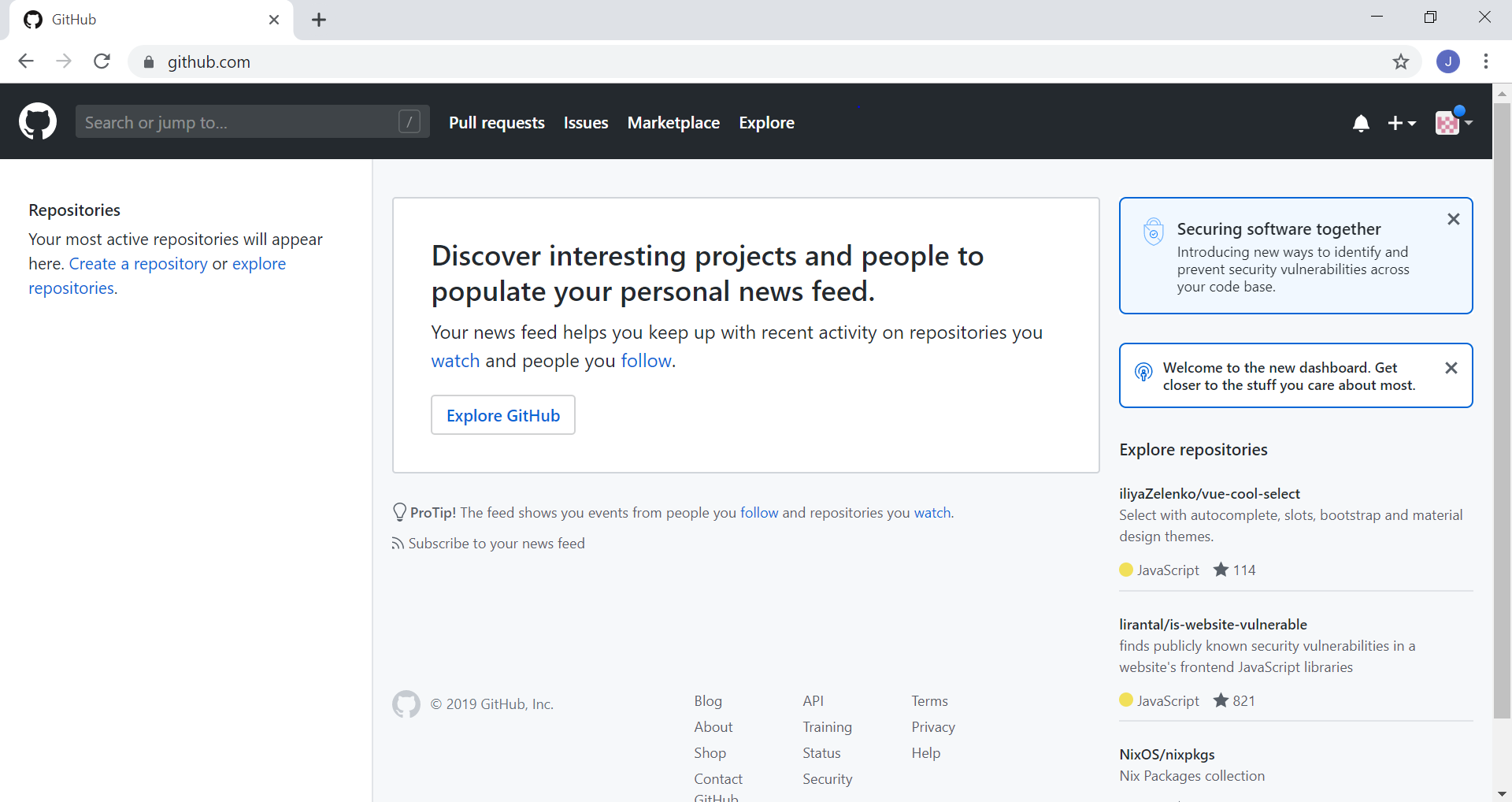
3.1.4 Adding an SSH key to your git account

**Step 3.1.1:** Creating an account with Github

* Open your browser and navigate to <https://github.com/>.
* The welcome window page will display a sign-up form as shown below. In the sign-up form, enter a username, password, and email id.

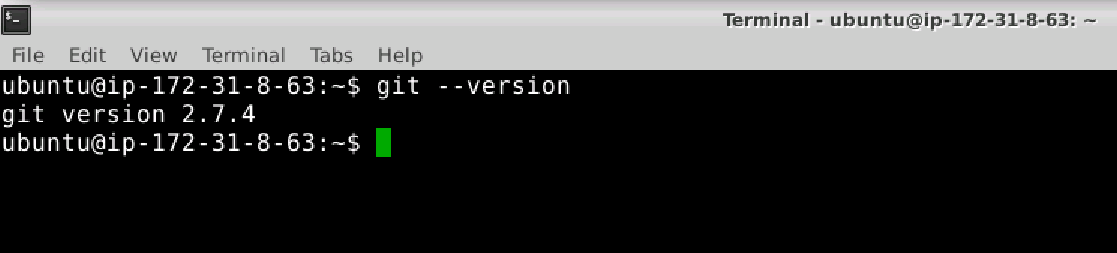


* Click on the *Sign up for GitHub* button.
* Follow the on-screen instructions to confirm that you are a human and verify your account.
* Select the Free plan and click on the choose button. GitHub will now send a verification mail to the email you provided in the second step.
* Click the *Verify email address* button in the message received from GitHub.
* Review your plan selection and click on *Continue*. You can also choose whether you want to receive updates from GitHub via email by checking or unchecking the *Send me updates* box.
* GitHub displays a quick survey that can help you tailor your experience to match what you're looking for. Choose your preferences and click *Submit*. You'll be taken to a screen that allows you to set up your first repository as shown below.



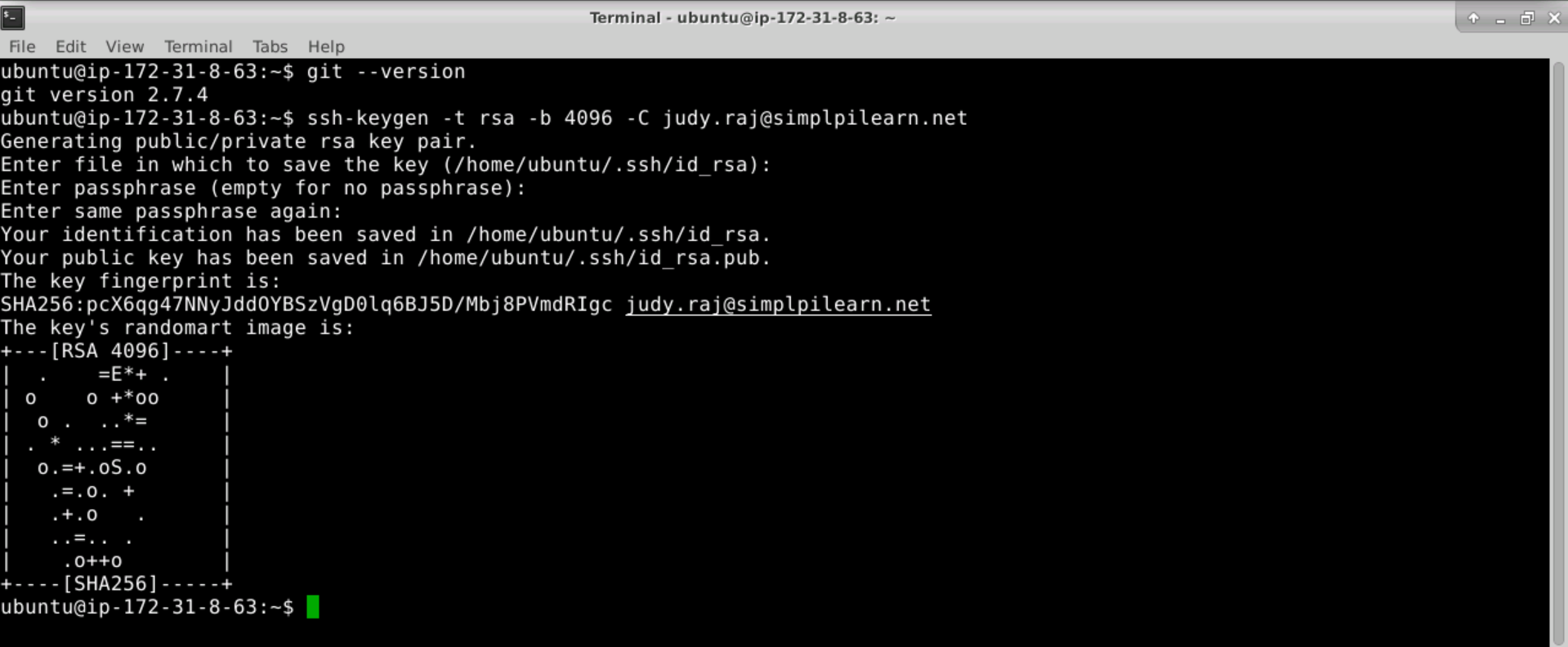
**Step 3.1.2:**  Downloading and installing the git command line tool

* Open the terminal.
* Run ***sudo apt-get install git-core*** to install git.
* Enter your password, if prompted.
* Run ***git --version*** to verify the installation.
* The command will display the version of git that was installed.



**Step 3.1.3:**  Generating SSH keys

* Open the terminal.
* Run ***ssh-keygen -t rsa -b 4096 -C*** [***your\_email@example.com***](mailto:your_email@example.com), substituting in your GitHub email address. This creates a new SSH key, using the provided email as a label.
* Press ***Enter*** to accept the default when prompted for the file location where the key should be stored.
* Enter a password when prompted for passphrase. Press Enter for no passphrase.
* Verify the passphrase. This will generate the SSH key as shown below:



* Run ***eval "$(ssh-agent -s)"*** to get the agent process id.
* Run ***ssh-add ~/.ssh/id\_rsa*** to add the SSH key to the SSH agent.
* Run ***cat < ~/.ssh/id\_rsa.pub*** to display the key. Copy it to the clipboard.

**Step 3.1.4:** Adding an SSH key to your git account

* Open your browser and navigate to github.com
* In the upper-right corner of the page, click on your profile photo → then click on Settings.
* Click on SSH *and GPG keys* in the user settings sidebar.
* Click on the *New SSH Key* button.
* Enter a descriptive label for the key in the title field.
* Paste the SSH key into the key field and click on the *Add SSH Key* button.
* Enter your password when prompted.
* Your key will now show under SSH keys as shown below:

