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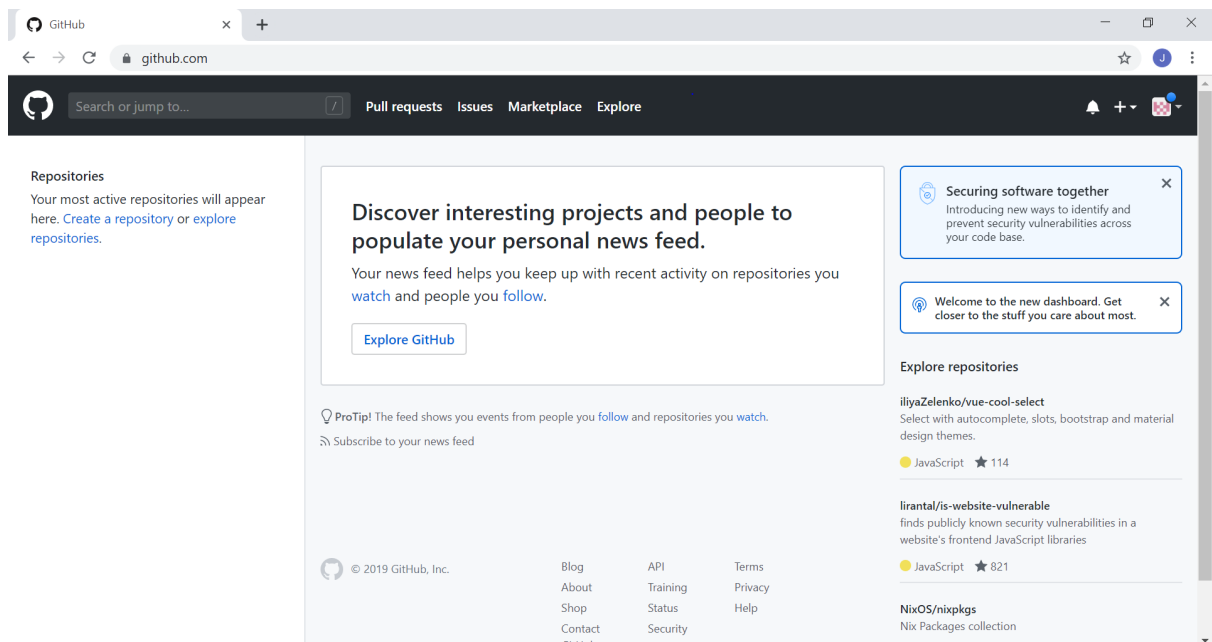
Step 3.1.2: Downloading and installing the git command line tool

- 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*, 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: