**Note:**

* **This assignment is a prerequisite for getting future assignments graded.**
* **Individual Assignment Weightage on Course Grade of this assignment is 0%.**
* **Students are solely responsible for the cost of tools and services used in the course. Northeastern University, College of Engineering, and the instructor will not be responsible for any of the charges incurred. The cloud service provider might require a valid credit or debit card even for free tiers. If you do not have a credit or debit card please let the instructor or TA know ASAP.**

Objectives

The objective of this assignment is to set up your development environment, acquire tools and sign up for services that will be used in the course.

Account Sign Ups

1. Sign up for the [Github Student Developer Pack](https://education.github.com/pack" \t "_blank)  with your *northeastern.edu* id.
2. Sign up for [AWS](https://aws.amazon.com/) but do not create AWS Educate Starter Accounts. You will need the regular AWS accounts for this course.
3. Sign up for [GCP](https://cloud.google.com/) with your personal email id. DO NOT USE NORTHEASTERN EMAIL FOR SIGN-UP.
4. Register for a [student license](https://www.jetbrains.com/student/)  from JetBrains. You will be able to use an IDE such as [IntelliJ IDEA Ultimate](https://www.jetbrains.com/idea/download)  with your choice of programming language such as Go, Java, PHP, Ruby, Python, JavaScript, etc.
5. Sign up for a [Namecheap](https://www.namecheap.com/) account.
6. Sign up for a [GitHub](https://github.com/) account. Make sure to [personalize](https://help.github.com/en/articles/personalizing-your-profile) your profile by setting your profile name and optionally profile picture.

Enable 2FA

You are responsible for the security of your account. It is important that you use strong passwords for all accounts. I highly recommend setting up [two-factor authentication](https://en.wikipedia.org/wiki/Multi-factor_authentication)  for all accounts to add an extra layer of security.

Setup Development Environment

Install & Configure Tools

1. Download and install the latest version of [Git](https://git-scm.com/downloads).  
       [Set your username in Git](https://help.github.com/en/articles/setting-your-username-in-git).  
       [Set your commit email address in Git](https://help.github.com/en/articles/setting-your-commit-email-address) .  
       [Configure your system to connect to GitHub with SSH](https://help.github.com/en/articles/connecting-to-github-with-ssh)
2. Install a text editor you are most familiar with. [Visual Studio Code](https://code.visualstudio.com/) is the recommended text editor.
   1. Recommended VS Code Extensions
      1. [Code Spell Checker](https://marketplace.visualstudio.com/items?itemName=streetsidesoftware.code-spell-checker)
      2. [GitLens — Git supercharged](https://marketplace.visualstudio.com/items?itemName=eamodio.gitlens)
      3. [HashiCorp Terraform](https://marketplace.visualstudio.com/items?itemName=HashiCorp.terraform)
      4. [HCL](https://marketplace.visualstudio.com/items?itemName=wholroyd.HCL)
      5. [Markdown All in One](https://marketplace.visualstudio.com/items?itemName=yzhang.markdown-all-in-one)
      6. [Prettify JSON](https://marketplace.visualstudio.com/items?itemName=mohsen1.prettify-json)
      7. [ShellCheck](https://marketplace.visualstudio.com/items?itemName=timonwong.shellcheck)
      8. [vscode-base64](https://marketplace.visualstudio.com/items?itemName=adamhartford.vscode-base64)
      9. [YAML](https://marketplace.visualstudio.com/items?itemName=redhat.vscode-yaml)
      10. [Python](https://marketplace.visualstudio.com/items?itemName=ms-python.python)
      11. [Beautify](https://marketplace.visualstudio.com/items?itemName=HookyQR.beautify)
3. Install [IntelliJ IDEA Ultimate](https://www.jetbrains.com/idea/download) if you plan to use it.
4. Install [MySQL](https://www.mysql.com/downloads/) or [PostgreSQL](https://www.postgresql.org/) database.
5. Mac users might also install the following
   1. Z Shell
   2. [Oh My Zsh](https://ohmyz.sh/)
   3. [Homebrew](https://brew.sh/)
      1. jq
      2. zsh-autosuggestions
      3. zsh-syntax-highlighting

Submission

There is nothing to submit for this assignment.

Grading Guidelines

***The following guidelines are for information only. They are subject to change at the discretion of the instructor and TA.***

1. Verify student has signed up for a regular AWS account and not for AWS Educate Starter Account.
2. Verify student has signed up for GitHub, and Namecheap.
3. Verify student has enabled 2FA for AWS, GitHub, and Namecheap.
4. Verify tools such as IntelliJ, Visual Studio Code, Git, and database (MySQL or PostgreSQL) are installed in the development environment.
5. Verify git has been configured on the command line. Check*~/.gitconfig* to see if the *name* and *email* address have been set up.
6. Verify student has set up SSH keys for GitHub authentication.
7. Verify that student has personalized their GitHub profile with their full name.