

BCIT, COMP 4912 - LAB #0

Winter 2025

1. Objectives

At the end of this lab, you will install required software packages and create respective accounts to carry out scenarios defined in your future assignments.

2. Task

For this lab, five tasks should be completed, which are as follows:

- 2.1. If you are a Windows user, please install **WSL2** (Windows Subsystem for Linux). <https://learn.microsoft.com/en-us/windows/wsl/install>
You are supposed to install an Ubuntu 24.04 LTS via WSL2 on your laptop/PC.
- 2.2. Install **VMware Workstation Pro** on your MacOS, Windows or Mac.
<https://blogs.vmware.com/workstation/2024/05/vmware-workstation-pro-now-available-free-for-personal-use.html>
- 2.3. Install **Docker** in your Linux or MacOS. If you are a Windows user, install Docker on Ubuntu 24.04 LTS you installed via WSL2 in task #1.
<https://docs.docker.com/engine/install/>
- 2.4. Create an account on **Linode** website using this link and choose “Instant access with \$100 credit” (<https://www.linode.com/lp/free-credit-100-5000/>). Please just complete the account creation and don't create any instance. Although you need to add a credit card, the site gives you \$100 credit which is more than enough to complete assignments of this course. So, I don't expect you to spend any money on this website and you can remove your credit card later.
- 2.5. Create an account on **AWS Free Tier** via <https://aws.amazon.com/free/>. Similar to task #4, please don't create any instance and just complete account creation.

3. Expected Outcome

3.1. Individual Report Requirement

Each student must submit an individual report for every lab. Collaboration on reports is not allowed, but you can discuss concepts with classmates.

3.2. Report Content

- **Screenshots:** Include screenshots of each step, including the commands you used and the corresponding output.
- **Challenges and Solutions:** If you encounter challenges while following the instructions on your computer, describe it in your report along with the solutions you applied to resolve them.

3.3. Organization and Quality

- Divide your report into sections corresponding to each task in the lab.
- At the end of your report, write a summary highlighting the tasks completed and your observations.
- Ensure your report is clear, well-written, and well-organized.

3.4. Deadline

Submit your report before the deadline. Late submissions might not be accepted unless prior arrangements are made.

3.5. Troubleshooting Guidance

- If you face an issue, start by researching solutions using Google, community forums, or tools like ChatGPT.
- Take time to investigate and understand the problem thoroughly.
- If you cannot resolve the issue, share your question along with a detailed explanation of what you have already tried with your classmates and me.
- Remember, It is very important to attempt some independent research before asking for help with any project-related questions.

3. Tips

To use WSL in Windows, don't forget to enable Hyper-V feature in your OS (via "Windows Features" and the BIOS of your computer. Also ensure "Windows Subsystem for Linux" and "Windows Hypervisor Platform" are enabled as shown in the following screenshot.

