

BCIT, COMP 4912 - LAB #1

Winter 2025

1. Objectives

At the end of this lab, you will get familiar with Docker and its applications by walking through several scenarios introduced in the given video.

2. Task

For this lab, please first watch the following video on YouTube:

Link: <https://www.youtube.com/watch?v=RUqGIWr5LBA>

Title: **18 Weird and Wonderful ways I use Docker**

Creator: **NetworkChuck**

After watching the video (suggest to watch it more than once), try to repeat the instructions for the following parts of the videos on your own computer.

- 2.1. Run a Web Browser in a Docker Container.
- 2.2. Run LibreOffice in a Docker Container and access via browser.
- 2.3. Set up an isolated lab with Docker and Kali Linux.

In addition to these three items, pick two more topics (out of 18!) and repeat them on your own computer too. So, at the end, you are supposed to redo and experience 5 weird ways of using Docker, and write a report about them.

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 may 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've 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.