

# CS6502: Week 4 Lab Exercises

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## Exercise 1

The lab in this week is **supervised**. The lecturer/lab assistant will be available between 14:30 – 16:30 for any questions you may have.

The main task for today's lab is to sign up and get familiar with Google Cloud Platform.

In Sulis class page, there is a forum “Labs (week 4)” created. In the forum, there is one topic:

- *Discussion*, use this topic to post your questions and discuss with your fellow classmates.

There is no submission requirement for this week's lab, and you are expected to complete the lab exercises before week 5.

Below are steps that you should follow for this week's lab exercise.

1. Sign up for Google Cloud Platform.
  - Read through the link [GCP Free Tier](#), and the notes steps below before sign up
  - Make sure to use your UL email address ([your\_id]@studentmail.ul.ie) to sign up (not your personal Gmail account)
  - For the account type, pick *Individual*
  - Then it will ask for payment method, you can use either credit or debit card<sup>1</sup>
  - The free trial comes with \$300 credits for 90 days, which is sufficient enough<sup>2</sup> for this course. During the course of the ongoing semester, never click to upgrade your account (or you will be charged!!!)
2. Good job, now I assume you have successfully signed up with GCP Free Tier<sup>3</sup>, and logged in. Below are a list of tasks for you to complete: for each task please read through the provided link and then complete the task (specified in the square brackets).

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<sup>1</sup>Note that, there is no auto charge even after the free trial unless you **manually** upgrade to a paid account.

<sup>2</sup>Unless you have some costly stuff switched on and forgot to turn it off

<sup>3</sup>In the top of the screen, it should tell your free trial status: free credit balance and remaining days

- [Creating and managing projects](#) [Task: delete all projects if present and create a new project named “cs6502-[id]”<sup>4</sup>]
- [Google Cloud Services](#) Check out the navigation menu, and get familiar with the GCP console layout.[Task: click into each of the item in the navigation menu, and have a quick read of the front page documentation of each product/service, please do not enable them for now.]
- IAM
  - [IAM Overview](#)
  - [Understanding roles](#)
- [Cloud Shell](#) [Task: Get familiar with [Linux Filesystem commands](#), e.g., `ls`, `cat`, `rm`, `cp`, `mv`, `chmod` ]
- [Storage](#)
  - (a) Go to Storage service (Navigation menu -> Storage - > Storage)
  - (b) Click “Take Quickstart” and complete the tutorial
  - (c) Create a bucket named cs6502-[id]
  - (d) Create a file locally named “[id].txt”, and upload it to above bucket,
  - (e) make this file public accessible. (That is you should be able to access the file via link: [https://storage.googleapis.com/cs6502-\[id\]/\[id\].txt](https://storage.googleapis.com/cs6502-[id]/[id].txt))

3. That’s it, good job!

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<sup>4</sup>Replace this with your student Id, do not include the square bracket