



Module	CMP209 – Digital Forensics
Module Lecturer	Dr Karl van der Schyff
Lab No	1
Due Date	complete before your next lab.

### LAB INSTRUCTIONS

WHERE (and what) TO SUBMIT?	<ul style="list-style-type: none"> <li>Note that this lab is formative in nature. In other words, although you are expected to complete it, I do not require you to hand it in for assessment. Having said this, I am more than happy to give feedback if you do wish to receive it.</li> </ul>
WHAT ABOUT USING AI?	<ul style="list-style-type: none"> <li>Use of Generative AI Tools such as ChatGPT, DALL-E, Bard etc. is explicitly prohibited for this module's assessment (i.e., the court report). The output gleaned or generated from the tools mentioned and others that are similar relates to sources already published/available. <b>Also, be aware that the information obtained can be inaccurate or incomplete. Thus, all work should be your own.</b> If the assessment (i.e., court report) is found to have been plagiarised or to have used unauthorised AI tools, you will be referred to the Student Disciplinary Officer within the School and this may result in an Academic Misconduct charge.</li> </ul>

### LAB REQUIREMENTS

WHAT DO I NEED TO COMPLETE IT?	<ul style="list-style-type: none"> <li>Access to a Linux operating system that has Internet connectivity. Either your own, or the analysis VM on the lab workstations.</li> <li>You can also download the analysis VM from MLS via the tile labelled <i>"OneDrive link to analysis VM download files"</i>.</li> <li>Access to MLS to download the above (and the supplementary documents).</li> </ul>
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### AIM OF THIS LAB

The aim of this lab is to:

- Familiarise students with the Linux command line interface (CLI).

### CORE LEARNING OUTCOMES

- Increased understanding and competence using the Linux operating system and the associated CLI.
- Familiarization with the processes required to conduct a digital forensic investigation (read the supplementary docs for this).

## Understanding of the Linux CLI

1. Download and open the *Linux-Fu* document from MLS. You will find this document within the Labs section of the Week 1 Teaching Material (i.e., the same place you found this lab).
2. Once opened, please complete Section 1 (Introduction), and Section 2 (Files and directories). You could use the Ubuntu analysis VM to complete this exercise. Thank you to Dr. Ferguson for developing this excellent resource.

## Further reading

3. Download and read the supplementary material. This is important at 2<sup>nd</sup>-year level if you wish to do well in CMP209. In particular,
  - a. Chapter 7 of the *Guide to Computer Forensics and Investigations*. An online version of this book can be obtained via the Abertay University library.
  - b. The *ACPO guidelines*.