

## ***SIT111: Task 1.5P - Introduction to File Systems and Virtual Machines***

### **Overview**

This task aims to assess your understanding of the following modules in Section 1:

1. Module 7 - File Systems
2. Module 8 - Introduction to Virtual Machines

### **Learning Objectives**

To complete this task you need to demonstrate satisfactory understanding of the **Learning Objectives** of the two Modules covered.

- Explain what a file system is, its role in a computer system, its basic structure and components.
- Identify the different types of file systems and how they interact with other parts of the computer.
- Understand the concept of virtual machines and where they are applied.
- Distinguish between physical and virtual machines.
- Install and configure Virtual Box to set up and run a virtual machine.

### **Summary - TL; DR**

1. Read through the materials on the unit site.
  2. Complete the Active Learning Session exercises.
    - Quiz 4
    - Topic 1.3, Modules 7, 8 Activities
  3. Submit:
    - Summary and reflection
    - Outcome from activities:
      - Answers to exercises, including diagrams or figures if necessary
      - Describe any additional insights or knowledge learned during the active learning activities
- 

### **Your Task**

To demonstrate the above, you are required to show evidence of:

1. Completion of Quiz 4 with  $\geq 80\%$  score

2. Completion of Active Learning Session problems relevant to Modules 7-8  
(See above). You must complete **all** problems, except those labeled as *'Optional for Pass Grade'*.
3. Prepare Submission - Once you feel confident that you have achieved the learning goals, you can prepare a submission to demonstrate this. This will contain three sections: summary of what you learnt, reflection on your learning, and evidence of study and practice.

### **Section 1: Summary**

Summarise what you learnt about file systems and virtual machines. This should be a personal summary, written so that it will be useful to you should you need to quickly revise these concepts and tools in the future. Capture the most important aspects from the materials in the unit site, learning activities, and anything else you find related to this topic.

### **Section 2: Reflection**

Reflect on your learning by responding to the following prompts:

- How do you know you have achieved the learning goals?
- What is the most important thing you learned from this and why?
- How does the content or skills learned here relate to things you already know?
- Where or when do you think it will be useful?

**Note::** The content for the first two sections should not exceed 500 words or 1 printed page.

### **Section 3: Evidence of study and practice**

This section will contain evidence of your outputs from the learning activities for this task. That is, it contains your answers to the exercises.

---

### **Upload Your Submission**

Once you have all the evidence in place, login to CICRA LMS and mark the task as Ready for Feedback. The submission process will ask you to upload evidence of completion of the task. For quizzes, please include a screenshot showing your quiz score. For Active Learning Session problems, you must submit evidence that you yourself had completed the activities. While working in groups/pairs is welcome, you must have evidence of your own contributions.

The system will also ask you to reflect on what unit learning outcomes have been achieved by this task.

### **Engage with Feedback**

To get the task marked as **Complete**, you need to engage with the feedback you receive. Your tutor will review your submission and may ask you to clarify aspects of your learning, redo parts of the task, or include aspects you have missed. You may be asked to discuss the task in class or online. Use these discussions as an opportunity to help develop and validate your understanding.

If you are asked to resubmit, *make sure your subsequent submission includes a comment that describes how you have addressed the feedback you received*. This needs to demonstrate how you have addressed all the aspects indicated by your tutor in their feedback on your learning.