# TNE10005/TNE60002 - Network Administration
## Portfolio Task – Weekly Journal 3
## Graded Task

## Introduction

This task takes the forms of

- a submission of a digital Weekly Journal to Canvas by 12/5/2024, **and**
- **a demonstration of understanding on Subnet Plan and Group Strategy** in individual student's timetabled lab class in week 11.

This task will be graded to **Pass**, **Credit** or **Distinction** Level based on the comprehension and authenticity of the submitted report, and the understanding of subnet & group strategy concepts.

## Purpose

The purpose of Weekly Journal 3 is:

- to assist students in appreciating the purpose of the lab exercises, the concepts learnt, the functions of the technologies used and how these technologies are applicable in different business scenarios,
- to assist students in identifying areas they need to undertake further study,
- to develop a reference document to assist students to prepare for the skills assessment,
- to prepare for Final Skills Assessment – Subnet Plan task,
- to prepare for Final Skills Assessment – Group Strategy task.

## Assessment

Weekly Journal 2 assesses students' documentation of concepts, design strategies, techniques, configuration, and commands that they learn in lectures and lab classes as well as their learning reflection during **Weeks 7-9 (including Labs 6-8).** It also assesses students' understanding of Subnetting and Group Strategy concepts.

### Word Limit

There is an upper limit on how many words and pages may be included in your Lab Journal. The upper word limit for the Weekly Journal 2 is 4000 words and the page limit is 16 pages (i.e. about 4 pages per week and 2 pages for each design). Both limits do not include the Title page, Table of contents, nor bibliography sections.

Please do remember that non-original material will not be marked, only the reflection and analysis of the non-original material will be marked. A carefully thought-out journal could be less than half of these limits and still be capable of earning full marks.

General advice on how to complete the Weekly Journals and address the assessment criteria can be found in the section Assessment Points below.

## Assessment Points

**1. Group Strategy Design**

### Group Strategy - Scenario

sWin Ltd wants to react more quickly to market demands. It is determined that the Marketing data must be available to all Marketing personnel. Also, sWin, Ltd., executives must be able to view the data. sWin Ltd wants to create the group structure for the entire Marketing division, which includes the Research and Advertising departments. The Advertising department will need read/write access to the Advertising data and read only access to the Research data. Similarly, the Research division will need read/write access to the Research data and read only access to the Advertising data.

Design a Group Strategy to meet the above scenario requirements. Your design should include **diagrams** and **assumptions** and/or **justifications** of which your design is based on.

**2. Subnet Plan Design**

### Subnet Plan - Scenario

Nadir is a fast growing company. They are planning on launching **N** new stores in cities throughout Australasia where they currently have no existing stores. Consequently Apex need a new subnetting plan to support these stores. The CIO has asked that each subnet should host at least **M** devices. If a choice needs to be made between the number of subnets and the size of each subnet, then the subnet size should be maximised as much as possible in order to allow growth in each of the stores.

Apex has obtained a network address of 14.18.0.0/14.
This address needs to be subnetted further.

You have been allocated the responsibility of configuring subnet **X**.

Create an addressing plan for the subnet **X**, outlining

- the subnet ID
- The Broadcast ID
- The first available addresses for 2 routers
- The next 3 addresses after the router addresses for Managed Devices
- The next 4 addresses after the managed device addresses for Servers.
- The remaining addresses are reserved for DHCP allocations

| Where | For example, student ID = **104101800** |
|---|---|
| N = 10 + The **last 2 digits** of your student ID | N = 10 + **00** = **10** |
| M = The **first 4 digits** of your student ID | M = **1041** |
| X = 5 + the last digit of your student ID | X = 5 + **0** = **5** |

Based on the above given scenario, present your subnet plan, your working details and any justifications, i.e. calculation of the number of host bits, the number of subnet bits, the GAP value, justifications for any decisions that you make, etc.

3. **Key concepts**

   Students reflect on how the technology addressed in the lecture and lab class can be used to address business needs of a company/organisation.

   Suggestions on how to meet this criterion: *Before the start of each lab class, write a paragraph or two that reflects on how this technology might help businesses and other organisations function more efficiently.*

4. **Further Study**

   Students reflect on the topics they want to revise and/or study further based on the Revision Quiz feedback, and insights from the lab exercises.

   Suggestions on how to meet this criterion: Reflect on the Revision Quiz questions that you got wrong or were uncertain about.  What elements from the lab class do you need to study or practise further? Did anything pique your interest that you would like to explore further?

5. **Key configurations and commands**

   Students record commands and configuration steps for reference in the Skills assessment.

   Suggestions on how to meet this criterion:  *summarise the key design decisions that need to be made when installing/configuring - those you feel it may be important for the future, especially those that you would struggle to remember (e.g. PowerShell syntax).*

6. **Formatting**

   Each week entry has a Date and the document is formatted to a professional standard.

   Suggestions on how to meet this criterion: *Formatting should assist the reader to navigate throughout the document to different sections, labs and help delineate between original and copied texts.  Headings, dates, table of contents, page numbers, etc. all help the usability of the document.*

7. **Citation**

   Non-original material is cited with a citation style used in academic writing.  Readers can easily delineate the cited work of others from the student's original work.

   Suggestions on how to meet this criterion: *Make sure that it is clear what part of your journal is copied, and what is your original work.  This includes information copied from the lab and lecture documents.  This can be achieved using:*
   - *quotation marks to delineate copied text*
   - *different formatting for original and copied text*
   - *cite the source of every copied item and include its details in the bibliography.*
   - *use Harvard (Links to an external site.) or IEEE  (Links to an external site.)citations*
   - *have a bibliography at the end of your journal, where details of each reference can be located.*

## Assessment Rubric

| Grade / Criteria | Weigh | N | P | C | D |
|---|---|---|---|---|---|
| **Group Strategy** | 25% | • The design does not propose a group strategy to address the given scenario requirements.<br>• The design does not include justifications or assumptions.<br>• Failure to demonstrate that the submitted design is authentic. | • The design proposes a group strategy to address the given scenario requirements, but with some errors.<br>• The design includes justifications or assumptions .<br>• Success to demonstrate that the submitted design is authentic. | • The design proposes a workable group strategy to address the given scenario requirements.<br>• The design includes justifications and assumptions that the proposed design is based on.<br>• Success to demonstrate that the submitted design is authentic. | • The design proposes an effective group strategy to address the given scenario requirements.<br>• The design includes justifications and assumptions that the proposed design is based on.<br>• Success to demonstrate that the submitted design is authentic. |
| **Subnet Plan** | 20% | • The design does not include working details and/or justifications.<br>• The design is with many mistakes.<br>• Failure to demonstrate that the submitted design is authentic. | • The design includes some working details or justifications.<br>• The design is with some mistakes.<br>• Success to demonstrate that the submitted design is authentic. | • The design includes ALL working details or justifications.<br>• The design is correct.<br>• Success to demonstrate that the submitted design is authentic. | • The design includes ALL working details and justifications.<br>• The design is correct.<br>• Success to demonstrate that the submitted design is authentic. |
| **Key concepts** | 15% | Reflections are superficial and show that key concepts have been misunderstood. | Reflections demonstrate some errors in under-standing of the concepts and/or ways they can address business needs | Reflections demonstrate a good understanding of the concepts and basic ways they can address business needs. | Reflections demonstrate a deep understanding of the concepts and basic ways they can address business needs. |
| **Further Study** | 10% | Reflection on further study mainly absent. | Reflection on further study superficial. | Reflection demonstrates a good plan for further study. | Reflection demonstrates a excellent plan for further study. |
| **Key configurations and commands** | 20% | Most key configurations & commands missing. | Many key configurations & commands missing. | All key configurations & commands described. | All key configurations & commands described in detail. |
| **Formatting** | 5% | Formatting contains errors.<br>Most entries are difficult to understand. | Formatting contains errors, but entries are legible and understandable. | Formatting is mainly at a professional level. | Formatting is at a professional level.<br>Formatting is mainly at a professional level. |
| **Citations** | 5% | Non-original materials are not cited.<br>It is difficult to delineate the cited work of other from the student's original work. | Many entries with non-original materials are not cited.<br>It is difficult to delineate the cited work of other from the student's original work. | Most non-original materials are cited with a citation style used in academic writing.<br>The cited work of other is clearly delineated from the student's original work. | The majority non-original materials are cited with a citation style used in academic writing.<br>The cited work of other is clearly delineated from the student's original work. |

**Assessment Submission**

**Only .doc or .pdf reports are permitted.** All Weekly Journals will be submitted via Turnitin.  Turnitin analyses the text to identify non-original material. Document formats that Turnitin **does not** support are Images of paper-based report, graphics-based report, images of handwritten report where handwriting recognition is not used.

Your Weekly Journal 3 must be submitted to [Canvas-Assignments-Weekly Journal 3](Canvas-Assignments-Weekly Journal 3)  by 12/May/2024 @23:59

Student is to be interviewed by their lab tutor in their Week 8 timetabled lab class.


# What Happens if I Fail?

Failure in this task will **not** automatically result in **failing** the Unit. If you fail the **Weekly Journal 3**, the maximum base mark you can achieve in your Portfolio is a **Pass.**