

# ASSESSMENT GUIDE

## ITEC614 Cyber Security Concepts

Semester 1, 2024

### Assessment 2

#### Assessment Artefact: Reflective Report

Weighting [30%]

#### Why this assessment?

- Enable to identify potential security threats and vulnerabilities to information systems
- Analyse consequences of security threats in real world scenarios
- Apply appropriate security mechanisms to protect information systems from malicious attacks
- The feedback from this assessment will help students to be ready to correct any conceptual misunderstanding and apply in the next assessment

#### What are the types of employability skills that I will acquire upon completion of this assessment?

Skill Type	
Developed critical and analytical thinking	<input checked="" type="checkbox"/>
Developed ability to work effectively with others	<input checked="" type="checkbox"/>
Developed written communication skills	<input checked="" type="checkbox"/>
Developed knowledge in the field study	<input checked="" type="checkbox"/>
Developed work-related knowledge and skills	<input checked="" type="checkbox"/>

#### Assessment Overview:

The purpose of this assessment is to assess the students' critical and analytical ability to delve into complex concepts about information systems security through reflection and collaboration.

<b>Due date</b>	Week 9, Friday, 9 am
<b>Weighting</b>	30%
<b>Length and/or format</b>	1500
<b>Assessment type</b>	Group
<b>Learning outcomes assessed</b>	LO1, LO2
<b>Graduate attributes assessed</b>	GA5, GA7, GA10
<b>How to submit</b>	Turnitin
<b>Return of assignment</b>	Within 3 weeks of submission
<b>Assessment criteria</b>	Rubric: see end of the document

## Context

The context of this assignment is that you have been employed as a security specialist to investigate a recent security breach. To perform your jobs, you need to investigate major causes of security breach, critical security controls in practice, identify security vulnerabilities and propose recommendations to countermeasure security threats.

## Instructions

This is a group assignment. Each group can have a maximum of 2 members.

In this assignment, you have to write a reflective report on a recent security breach. You may choose any of the following recent topics for your assignment (more specifically, any incidents happened between **June 2022 - February 2024**). The full list of the security breaches can be accessed from the following link:

<https://www.webberinsurance.com.au/data-breaches-list>

### Fire Rescue Victoria – December 2022

- [Fire Rescue Victoria investigating security incident](#)
- [Cyber attack cripples Fire Rescue Victoria | Firefighters resort to mobile phones and radio.](#)

### LastPass – December 2022

- [Parsing LastPass' data breach notice](#)

### TPG Telecom – December 2022

- [TPG Telecom joins list of hacked Australian companies, shares slide](#)

### State Office of Victoria – December 2022

- [Data breach hits Victoria's revenue office](#)

### LJ Hooker – December 2022

- [Real estate agency LJ Hooker hit with data breach](#)

### Telstra – December 2022

- [Telstra blames privacy breach on 'database misalignment' | Published details of unlisted customers online.](#)
- [Telstra explains how internal data breach exposed more than 130,000 customers' details](#)
- [Telstra apologises after customer data breach](#)
- [Telstra slips up as details of 130,000 customers go online](#)
- [Telstra privacy breach sees customer details made public](#)

You must use the [IEEE conference paper template](#) to write the report. The template can be downloaded from the unit CANVAS site. The report should not exceed 2000 words in total excluding bibliography and appendix. Penalty will be applied for using exceeding word limits as per EUO guidelines. The report must include all topics described in the report structure section.

## Report Structure

**Feed Forward Template:** You must complete and submit this template as the first page of the follow-on assignment (assessment 2 and 3). The template can be found on page 5 (Appendix-I).

**Checklist:** You need to submit the completed checklist as instructed on page 6 (Appendix-II).

**Abstract:** An abstract (a short summary of the report) needs to convey a complete synopsis of the paper, but within a word tight limit. Writing an abstract includes brief introduction to the general topic of the work and then explanation of the exact research strategies, including the aims. It should then highlight the outcomes.

**Introduction:** In the Introduction, you are attempting to inform the reader about the rationale behind the work. The introduction does not have a strict word limit, unlike the abstract, but it should be as concise as possible. It can be a tricky part of the paper to write, so many scientists and researchers prefer to write it last, ensuring that they miss no major points. The introduction gives an overall view of the report but does address a few slightly different issues from the abstract. An introduction should emphasize on background, importance, limitations, and assumptions. You may provide the details of the security breach in this section.

**Details of Breach Causes:** In this section, you will be presenting the outcomes of your investigation. Some questions that you should attempt to answer in this section are: i) What are the critical factors that lead to this security breach? ii) Has the company identified and remediated the security problems before the breach? iii) What sort of security measures are in place? and iv) Are they sufficient and up-to-date to defend against the security attacks?

**Critical Security Controls:** This is the planning stage for implementation of critical security controls. In this section, you need to identify various security controls and then propose the appropriate security measure(s) for implementation. You should also justify why a particular security mechanism is selected and how it would help to extend the security of the system.

**Conclusion:** This is really just a more elaborate version of the abstract. In a few lines you should summarize your findings and recommendations. Your abstract will do most of this for you but, as long as you do not get carried away, especially for longer reports, it can help the reader absorb your findings a little more.

**References:** Please refer to the referencing section in page 4.

**Appendix:** You have to provide screenshots (including timestamp) of your DF posts to demonstrate your engagement in the discussion forum.

## How do I submit?

You must submit your report via Turnitin. The submission deadline is on **week 9, Friday, 9 am**. The assignment submission links can be accessed from Assessments section on the CANVAS site. Assessments submitted after the due date will incur a late penalty of 5% for each calendar day the assessment is late. Note that if the assignment is submitted three days later the due date, you will not receive any mark.

## Some Helpful Websites and Resources

<https://www.webberinsurance.com.au/data-breaches-list#twentyone>

<https://www.matrix.edu.au/how-to-write-a-scientific-report/>

## Who can help me?

- Academic skills Unit (ASU)
- Post a question to the CANVAS discussion forum

Make an appointment with the CL: Shakir Karim (shakir.karim@acu.edu.au)

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## I'm having problems

**SC: Application for Special Consideration** Complete this form if you wish to be exempted from academic penalty because your study has been affected by unforeseen circumstances.

**EX: Application for extension of time for submission of an Assessment Task** Complete this form if you wish to apply for extension of time for submission of this Assessment Task.

## Referencing

All papers that are used in the report must be cited in the reference section. Your report should include *at least 5 peer reviewed conference and/or journal papers*. Please ensure that you reference properly and acknowledge all sources using the IEEE referencing style.

Please ensure your assignment makes use of in-text citations and a reference list. Missing citations or references is equivalent to plagiarism.

## Criteria

The full criteria are compiled in a rubric, which can be found on page 7 (Appendix-III).

## Appendix-I: Feed Forward Template (Example): A Template for Students to Use and Act on Feedback and Provide Recommendations for Improvement

This must be submitted as the first page of the follow-on assignment (assessment 2 and 3) to ensure you acted on the feedback provided to you in the previous assignment. (this is not counted as part of the assessment word count).

### ***How did you act on the feedback?***

Feedback is an important component of learning. Please consider the feedback you received in your previous assignment and provide a response on how you acted on, or intend to act upon, that feedback, and how it has informed the current assignment task. Submit this sheet along with your assignment.

Example Questions	Feedback recommendation (what I learnt from the feedback and what works for me)
1. How have you acted on the feedback from lab assessments & discussion forum posts to improve your work in this assignment?	(e.g., based on my previous feedback, I made sure that I supported my discussion, position, ideas, concepts with peer reviewed journal references in this assignment.)
2. What is your expectation around the type of feedback that enhances your learning?	(e.g., I want to know where I made a mistake and how I can correct them and not make the same mistake again i.e. I want specific feedback that will help me to improve my learning and performance in the next assignment.)
3. Did you have any difficulty understanding or acting on previous feedback? Please be as specific as possible so that you can gain further feedback/clarify anything that you do not understand in the feedback.	(e.g., feedback provided in my previous assignment was very generic and vague and I did not know how to improve my work. So, I would like the lecturer to explain more on xxxx aspects of the feedback or I would like an opportunity to have a dialogue to understand the feedback.)

## Appendix II: Assignment Checklist

You must submit this checklist with your assignment. The second page of your submission should include the completed checklist. Please tick on the checkbox for the tasks you completed.

My submitted assignment report is within the specified word limit	<input type="checkbox"/>
I have included references using specified referencing style	<input type="checkbox"/>
I have correctly cited all my sources and references	<input type="checkbox"/>
I have formatted my report as per the specifications	<input type="checkbox"/>
I have checked my Turnitin report to ensure the similarity report is within the acceptable level (below 20% similarity)	<input type="checkbox"/>
I have included specified process output in my submission (e.g. reflection report, e-portfolio submission, video summary, screen dump of my search and retrieval of journal articles, etc.)	<input type="checkbox"/>
I have actioned feedback advice provided to me from previous assignment feedback (if applicable)	<input type="checkbox"/>
I have completed proof reading and checked for spelling and grammar	<input type="checkbox"/>
I have submitted my work before the due date/time	<input type="checkbox"/>
I have submitted feed forward template along with my assignment submission	<input type="checkbox"/>

### Appendix-III: Rubric for ITEC614- Assessment Task 2- Report (30%)

Learning Outcomes	Criteria	Standards				
		Below Expectations	Meets Expectations		Exceeds Expectations	
		NN (0-49)	PA (50-64)	CR (65-74)	DI (75-84)	HD (85-100)
GA5 LO1, 2 Weight: <b>10</b> marks TL: 3 Learning Stage: D	Reflective report illustrating good command of critical review, explanations and justifications of arguments	Explanations and justifications of arguments and decisions unclear. Little attempt to evaluate the information/evidence in any critical way.	Minimal evidence given to support arguments and decisions. Some of the key information/evidence scrutinized in some depth.	Some evidence given to support arguments and decisions. Most of the key information/evidence scrutinized in some depth.	Well-developed and argued evidence given to support decisions. Identified most factors/matters pertinent to the problem, or issue and recognized the significance of any inter-relationships.	Well-developed and argued evidence given to support decisions. Identified all relevant factors/matters pertinent to the problem, or issue and recognized the significance of any inter-relationships.
GA7 LO1 Weight: <b>5</b> marks TL: 3 Learning Stage: D	Reflective report demonstrating active engagement with discussion forums, textbook and unit materials	The report is vague, and/or does not draw on Discussion Forum (DF) posts, textbook or unit materials, or just repeats itself.	Partially drawing on the DF posts, textbook and unit materials; would have benefited from concrete examples of engagement with unit materials	Mostly drawing on the DF posts, textbook and unit, demonstrate fair engagement with the unit materials	Properly drawing on the DF posts, textbook, and unit materials with specific thought and examples; demonstrate good engagement with the unit materials.	Creatively drawing on and extends beyond the DF posts, textbook, and unit materials with very specific thoughts and examples; demonstrates very good engagement with the unit materials; may have personal insight drawn from external sources.
GA10 LO2 Weight: <b>10</b> marks TL: 3 Learning Stage: A	Report demonstrating good command of required knowledge on utilising appropriate tools and techniques	Content under-developed; failed to utilise/recommend any security tools/techniques in the report	Content reasonably linked; adequately utilised security tools/techniques in the report	Content appropriately linked; credibly utilised security tools/techniques in the report	Close link shown in contents; shows distinctive use of security tools/techniques in the report	Tightly coupled cause of breaches with security requirements; highly distinctive use of tool/techniques in the report
Other Criteria Weight: <b>5</b> marks	Following the template and reference style correctly	Didn't follow the template and reference style	Partially followed the template and reference style	Mostly followed the template and reference style	Followed properly, minor errors noticed	Followed properly without any mistakes
<b>Notes:</b> GA – Graduate Attribute; LO – Learning outcome; TL – Taxonomy Level (see Bloom's Taxonomy); Learning Stage – Introduced (I), Developed (D), Assured (A)						