ASSESSMENT 2 BRIEF	
Subject Code and Title	CCF501 Cloud Computing Fundamentals
Assessment	Case Study Report
Individual/Group	Individual
Length	2,900 words (+/-10%)
Learning Outcomes	The Subject Learning Outcomes demonstrated by successful completion of the task below include: a) Describe the essential computing elements in cloud services to enable business automations. b) Distinguish the use of cloud services from traditional IT infrastructure in business automations. c) Identify key cloud services' offerings for recommendation to major industry providers.
Submission	For 12 weeks Course: Due by 11:55pm AEST Sunday end of Module 8 (Week 8). For Intensive 6 weeks Course: Due by 11:55pm AEST Sunday end of Module 8 (Week 4).
Weighting	30%
Total Marks	100 marks

Assessment Task

Submit a report that analyses and determines the application of various cloud services and deployment models.

Please refer to the **Instructions** for details on how to complete this task.

Context

Cloud solutions vary by sector to sector such as:

- **Automotive** companies like F1 (Formula One car racing) use cloud solutions to run aerodynamic simulations to make a next generation car that is 70% faster than previous models.
- **Multimedia** companies like Snapchat decreased the latency speed of sending *Snaps* by 20%.

- **Pharmaceutical** companies like Moderna utilise cloud solutions to sequence its mRNA COVID-19 vaccine in just 48 hours.

In Weeks 5 to 8, we had explored major public cloud providers, the comparison among them, advanced cloud concepts, models and some deployment case studies. Case studies are one way to develop your analysis skills. This assessment provides an opportunity for you to apply the knowledge and skills you have learnt in Weeks 5 to 8 weeks to close-to real-life scenarios. By analysing real-life case studies, you will:

- Understand how cloud fits in modern computing requirements
- Understand and categorise the different cloud service models that can be utilised to solve a challenge
- Identify key cloud service offerings for recommendation to major industry providers
- Compare, contrast and validate different deployment models utilising services by major cloud providers.

Instructions

Report

This assessment requires you to prepare a 2,900-word report (+/-10%), excluding references, based on the three case studies provided by your Learning Facilitator.

Please be advised that the following points were taken into consideration during the case study selection process:

- Each of the three case studies presented are from different service and deployment models.
- They cater for different service sectors of cloud-like web applications, big data, IoT, artificial intelligence and so on.
- Each uses a variety of services from providers.
- The case studies are taken from popular public cloud providers.

Report Structure

1. Start off with a short **introduction** (approximately 400 words) stating the basic information relevant to the report and introducing relevant points relating to the case studies. For example, you can provide background information including some context related to cloud computing. This section must be written in complete sentences and paragraphs.

2. The main **body** of the report should comprise three different sections with 750 words per section for each case study. For each case study, you should:
    - Analysis the case study
    - Analyse the service model for the case study, including the different services provided by the cloud provider in the case study
    - Compare and contrast the different deployment models for the case study
    - Analyse the application of the different services used in case study
    - Write a reflection on the case study.

3. Finally, write a **conclusion** (approximately 250 words) as a summary of your analysis of the case studies. This section brings together all of the information that you have presented in your report and should link to the purpose of the assessment as mentioned in the introduction. You can also discuss any areas which have been identified as requiring further investigation and how this will work to improve or change our understanding of the topic. This section should not introduce or discuss any new information specifically and like the introduction, it must be written in complete sentences and paragraphs. No tables, graphs, diagrams or dot points should be included.

4. **References:** You should support your report with minimum of 10 to 12 references. These should be included using the appropriate APA style.

Please refer to the Assessment Rubric for the assessment criteria.

Report writing

Please review the Torrens University Academic Skills page where you can find instructional videos, samples and other links to support your report writing at:
https://library.torrens.edu.au/academicskills_ap/reports

Referencing

It is essential that you use appropriate APA style for citing and referencing research. Please see more information on referencing in the Academic Skills webpage.

Submission Instructions

Due date: By 11:55 pm AEST Sunday of Module 8 (Week 8) for 12 weeks course.

Due date: By 11:55 pm AEST Sunday of Module 8 (Week 4) for Intensive 6 weeks course.

Submit your report as a Word document via the **Assessment 2** link under **Assessment** found in the main navigation menu of *CCF501 Cloud Computing Fundamentals*.

Label the document using the following naming convention which includes your student ID, subject code and assessment number: **studentID_CCF501_Assessment 2.docx**

Your assessment will be formally graded via the Grade Centre by your Learning Facilitator and feedback will be provided through **My Grades**.

Academic Integrity

All students are responsible for ensuring that all work submitted is their own and is appropriately referenced and academically written according to the Academic Writing Guide. Students also need to have read and be aware of the Torrens University Australia Academic Integrity Policy and Procedure and subsequent penalties for academic misconduct. These are viewable online.

Students also must keep a copy of all submitted material and any assessment drafts.

Special Consideration

To apply for special consideration for a modification to an assessment or exam due to unexpected or extenuating circumstances, please consult the Assessment Policy for Higher Education Coursework and ELICOS and, if applicable to your circumstance, submit a completed Application for Assessment Special Consideration Form to your Learning Facilitator.

Learning Rubric: Assessment 2 Case Study Report

Assessment Attributes	Fail (Unacceptable) 0-49%	Pass (Functional) 50-64%	Credit (Proficient) 65-74%	Distinction (Advanced) 75 -84%	High Distinction (Exceptional) 85-100%
Content, audience and purpose (broad and specific content) **10%**	Demonstrates little or no understanding of the content and/or purpose of the assessment.	Demonstrates a limited understanding of the content and/or purpose of the assessment.	Demonstrates an adequate understanding of the content and/or purpose of the assessment.	Demonstrates an advanced and integrated understanding of the content and/or purpose of the assessment.	Consistently demonstrates a comprehensive and critical understanding of the content and purpose of the assessment.
Identifies key cloud services' offerings for recommendation to major industry providers **40%**	Demonstrates a limited understanding of the service models and services in each case study. The analysis is limited or omitted.	Demonstrates an adequate understanding of different service models but fails to explain services in each case study. The analysis is limited.	Demonstrates a well-developed conceptual understanding of different service models and comparison of different deployment models employed in different scenarios, including the services they use. The analysis is brief, but to the point and covers most of the aspects of the services utilised during the case study.	Thoroughly compares and validates different deployment models and service models employed in different scenarios, including the services they use. The analysis is in-depth and covers nearly all the aspects of the services utilised during the case.	Comprehensively compares and validates different deployment models and service models employed in different scenarios, including the services they use. The analysis is in-depth and covers all the aspects of the services utilised during the case study.
Describes the conceptual understanding of	Demonstrates a limited understanding of the key concepts required	Resembles a recall or summary of key ideas.	Identifies and supports the essential characteristics and concepts substantiated by evidence	Discriminates between the essential characteristics and concepts substantiated by	Comprehensively and critically discriminates between essential characteristics and concepts

cloud computing concepts ***Describes the essential computing elements in cloud services to enable business automation and its application to resolve the challenge in the case studies*** **20%**	to support the case studies. Information is taken from reliable sources but without a coherent analysis or synthesis. Viewpoints of experts are taken as fact with little questioning.	Often conflates and/or confuses personal opinion with evidence from research and subject materials. Analysis and evaluation do not reflect expert judgement, intellectual independence, rigour and adaptability.	from the research and subject materials. Demonstrates a proficient capacity to explain and apply relevant concepts. Identifies logical flaws. Questions viewpoints of experts.	robust evidence from the research and subject materials and extended reading. Well-demonstrated capacity to explain and apply relevant concepts. The viewpoint of experts is subject to questioning. Analysis and evaluation reflect growing judgement, intellectual independence, rigour and adaptability.	by robust evidence from the research and subject materials and extended reading. Information is taken from sources with a high level of interpretation and evaluation to develop a comprehensive and critical analysis or synthesis. Identifies gaps in knowledge. Exhibits intellectual independence, rigour, good judgement and adaptability.
Distinguishes the use of cloud computing services from traditional IT infrastructure in business automations **20%**	Demonstrates limited skills and/or knowledge to compare traditional IT infrastructure with cloud computing services. Information is taken from reliable sources but without a coherent analysis or synthesis. Viewpoints of experts are taken as fact with little questioning.	Demonstrates an adequate level of knowledge while comparing traditional IT infrastructure with cloud computing services in the case study. Often conflates and/or confuses personal opinion with evidence from research and subject materials. Analysis and evaluation do not reflect expert judgement, intellectual	Identifies and supports the essential comparison of traditional IT infrastructure with cloud computing services substantiated by evidence from the research and subject materials. Demonstrates a proficient capacity to explain and apply relevant concepts. Identifies logical flaws. Questions viewpoints of experts.	Demonstrates an advanced level of comparison of traditional IT infrastructure with cloud computing services over a range of aspects and includes future expansion and flexibility in the discussion. Well-demonstrated capacity to explain and apply relevant concepts. The viewpoint of experts is subject to questioning.	Demonstrates an expert level of comparison of traditional IT infrastructure with cloud computing services over a range of aspects and includes future expansion and flexibility in the discussion. Information is taken from sources with a high level of interpretation and evaluation to develop a

		independence, rigour and adaptability.		Analysis and evaluation reflect growing judgement, intellectual independence, rigour and adaptability.	comprehensive and critical analysis or synthesis. Identifies gaps in knowledge. Exhibits intellectual independence, rigour, good judgement and adaptability.
Correct citation of key resources and evidence ***Demonstrates appropriate use and referencing of resources, including correct in-text citations and reference list composition (minimum of 10 to 12 references)*** **10%**	Demonstrates an inconsistent use of good quality, credible and relevant resources to support and develop ideas. Little or no attempt to include in-text citations, an appropriate number of resources and/or a reference list. APA referencing is omitted or incorrectly addressed.	Demonstrates a limited use of credible and relevant resources to support and develop ideas, but these are not always explicit or well-developed. Some attempt to include in-text citations, 5 to 10 resources and a reference list. APA referencing is basic, with frequent or repeated errors.	Demonstrates an adequate use of high quality, credible and relevant resources to support and develop ideas. Adequate inclusion of in-text citations, 5 to 10 resources and a reference list. APA referencing is adequate, with occasional errors.	Demonstrates the use of good quality, credible and relevant resources to support and develop arguments and statements. Shows evidence of wide scope within the organisation for sourcing evidence. Thorough inclusion of in-text citations, a minimum of 10 resources and a reference list. Applies APA referencing techniques with no errors.	Demonstrates an exceptional use of high-quality, credible and relevant resources to support and develop arguments and position statements. Shows evidence of wide scope within and without the organisation for sourcing evidence. Excellent and meticulous inclusion of in-text citations, 10 or more resources and a reference list. Applies APA referencing techniques with no errors.

The following Subject Learning Outcomes are addressed in this assessment	
SLO a)	Describe the essential computing elements in cloud services to enable business automations.
SLO b)	Distinguish the use of cloud services from traditional IT infrastructure in business automations.
SLO c)	Identify key cloud services' offerings for recommendation to major industry providers.