

Attempt 1

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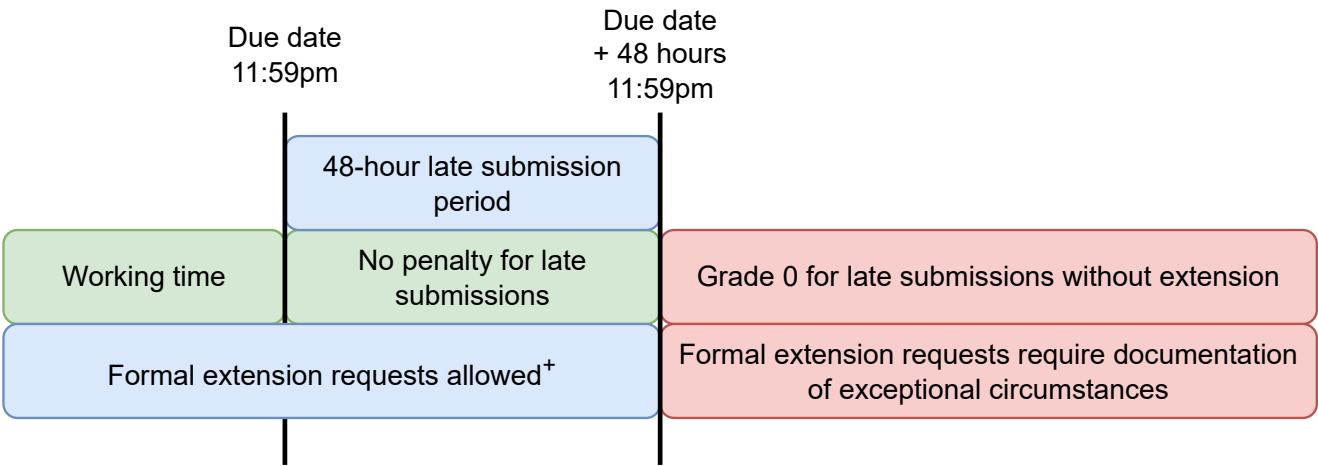
Details

For details, see:

- 2. Cloud Services Exercises (<https://canvas.qut.edu.au/courses/20367/pages/2-cloud-services-exercises>)
- 2.1 Submission process (<https://canvas.qut.edu.au/courses/20367/pages/2-dot-1-submission-process>)

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QUT Due date policies



- ⁺ Supporting documents (eg. medical certificate) can be submitted up to 3 days after extension request submitted.
- For details, see <https://qutvirtual4.qut.edu.au/group/student/study/assignments/submitting/late-assignments-and-extensions>

View Rubric

Cloud services project - marking criteria

Criteria	Ratings			Points
	3 pts Full marks	1.5 pts Half marks	0 pts No marks	
Core - First data persistence service	Competent and appropriate use of an AWS data persistence service for storing application data. The response document gives a suitable justification for the choice of service.	A data persistence service has been used, but there may be problems with the implementation, the choice of service is not entirely appropriate, or the response document lacks a suitable justification.		
Core - Second data persistence service	3 pts Full marks	1.5 pts Half marks	0 pts No marks	
	Competent and appropriate use of an AWS data persistence service, distinct from the first service, for	A data persistence service (distinct from the first) has been used, but there may be problems with the		

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Cloud services project - marking criteria

Criteria	Ratings			Points
	storing application data. The response document gives a suitable justification for the choice of service.	implementation or the choice of service is not entirely appropriate, or the response document lacks a suitable justification.	services or no/insufficient evidence presented.	
Additional - Third data service	3 pts Full marks Competent and appropriate use of an AWS data persistence service, distinct from the first and second services, for storing application data. The response document gives a suitable justification for the choice of service.	1.5 pts Half marks A data persistence service (distinct from the first and second) has been used, but there may be problems with the implementation or the choice of service is not entirely appropriate, or the response document lacks a suitable justification.	0 pts No marks Duplicate use of the first or second persistence service, no evidence of competent and appropriate use of data services or no/insufficient evidence presented.	/ 3 pts
Additional - S3 Pre-signed URLs	2 pts Full marks S3 presigned URLs are competently and appropriately used to allow remote clients to upload or download S3 objects directly.	1 pts Half marks Presigned URLs are used, but not in all appropriate cases, in inappropriate cases, or there are problems with implementation.	0 pts No marks Not attempted, no evidence of appropriately using presigned URLs or no/insufficient evidence presented.	/ 2 pts
Additional - In-memory cache	3 pts Full marks Appropriate and competent use of an in-memory caching service (eg. AWS ElastiCache). An argument has been made as to why caching is likely to be beneficial as used.	1.5 pts Half marks In-memory caching service is used, but there are problems with the implementation or the argument for use is not convincing.	0 pts No marks Not attempted, completely inappropriate use of caching, or no/insufficient evidence presented.	/ 3 pts
Core - Statelessness	3 pts Full marks All persistent application data is stored in cloud services; there is no exclusive data storage within the application. The application data stored in cloud services remains consistent if the application is stopped at any moment.	1.5 pts Half marks Data is stored in cloud services, but there remains some exclusive storage within the application, the application is not tolerant of loss of persistent connections, or the application data can become inconsistent if the application is stopped.	0 pts No marks The application is largely stateful or no/insufficient evidence presented.	/ 3 pts
Additional - Graceful handling of persistent connections	2 pts Full marks Where persistent connections are appropriately used to support application functionality (eg. SSE or Websocket connection for efficient progress reporting), the application handles loss of the connection gracefully	1 pts Half marks Loss of a persistent connection causes a small loss of functionality but the application otherwise continues to function properly (eg. progress reporting stops, and an error is reported, but the	0 pts No marks Please wait until your file has processed before clicking the Submit assignment button.	

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	with minimal impact on functionality, for example by reestablishing the connection.	client and server do not crash.)		
Core - Authentication with Cognito	3 pts Full marks AWS Cognito is competently used within the application, allowing user sign-up and login. Cognito ID tokens are used to authenticate users to your application. It is acceptable to manually confirm/verify users using the AWS console.	1.5 pts Half marks AWS Cognito is used, but not all functionality has been implemented, the application does not make use of Cognito tokens for authentication, or there are problems with implementation.	0 pts No marks Largely non-functional or missing Cognito usage, or no/insufficient evidence presented.	/ 3 pts
Additional - Cognito multi-factor authentication	2 pts Full marks Cognito's multi-factor authentication mechanisms are enabled, requiring users to use at least two different factors for authentication.	1 pts Half marks Cognito's multi-factor authentication mechanisms are used, but there are problems with the implementation.	0 pts No marks Not attempted, Cognito multi-factor authentication not used or non-functional within the application, or no/insufficient evidence presented.	/ 2 pts
Additional - Cognito federated identities	2 pts Full marks Cognito's federated/social login functionality is enabled and used for authenticating and signing up users with the application with at least one federated identity provider.	1 pts Half marks Cognito's federated/social login functionality is attempted, but there are problems with implementation.	0 pts No marks Not attempted, non-functional implementation, or no/insufficient evidence presented.	/ 2 pts
Additional - Cognito groups	2 pts Full marks Cognito user groups are enabled and used to distinguish between sets of users. The application appropriately uses Cognito user groups to assign permissions to sets of users.	1 pts Half marks Cognito user groups are enabled, but the usage has implementation problems or usage may not be completely appropriate.	0 pts No marks Not attempted, Cognito groups are not used, or only used trivially, or no/insufficient evidence presented.	/ 2 pts
Core - DNS with Route53	2 pts Full marks Route 53 is used to create a CNAME record for a subdomain of cab432.com which points to (at the time of video demonstration) the subdomain of cab432.com. EC2 instance hosting the application. The application is accessible at the record's subdomain.	1 pts Half marks Route 53 is used to create a CNAME record, but it is not functional at the time of recording, or is not using a subdomain of cab432.com.	0 pts No marks Not attempted, non-functional implementation, or no/insufficient evidence presented.	
Additional - Parameter store	2 pts Full marks	1 pts Half marks	0 pts No marks	

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Cloud services project - marking criteria

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	Application parameters such as URL are appropriately stored in the Parameter store and fetched at runtime by the application and used appropriately.	Parameter store is used, but the parameters stored may not be appropriate or their usage within the application is not always appropriate.	Not attempted, no or only trivial or inappropriate use of Parameter store, or no/insufficient evidence presented.	
Additional - Secrets manager	2 pts Full marks Application secrets such as external API keys are appropriately stored in the Secrets Manager and fetched at runtime by the application and used appropriately.	1 pts Half marks Secrets Manager is used, but the secrets stored may not be appropriate or their usage within the application is not always appropriate.	0 pts No marks Not attempted, no or only trivial or inappropriate use of Secrets Manager, or no/insufficient evidence presented.	/ 2 pts
Additional - Infrastructure as code	3 pts Full marks An approved infrastructure-as-code technology is used to appropriately and correctly deploy all AWS services used for the application with no manual intervention required. (Deploying EC2 and containers is not considered for this criterion.)	1.5 pts Half marks An approved infrastructure-as-code technology is used, but there are some problems with deployment such as manual intervention required to complete the deployment, incorrect deployment of services, or unneeded services deployed. An unapproved technology may have been used without prior approval.	0 pts No marks Not attempted, infrastructure-as-code is not used or mostly non-functional, or no/insufficient evidence presented.	/ 3 pts
Additional - Upon request	3 pts Full marks With prior approval, additional development on the project has achieved a competent standard of execution.	1.5 pts Half marks With prior approval, additional development on the project has been done, but there are problems with implementation or appropriateness to the application.	0 pts No marks Not attempted, not approved, completely inappropriate, or non-functional additional development, or no/insufficient evidence presented.	/ 3 pts
Additional - Upon request	3 pts Full marks With prior approval, additional development on the project has achieved a competent standard of execution.	1.5 pts Half marks With prior approval, additional development on the project has been done, but there are problems with implementation or appropriateness to the application.	0 pts No marks Not attempted, not	
Video	0 pts Does not meet requirements The video is very difficult to use because of multiple submission requirements not being met. Up to 5	0 pts Follows submission requirements The video is clear and visual details (eg. text) are easy to discern. The video time is within the range specified. The audio commentary is	0 pts Submission requirements.	

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Criteria	Ratings			Points
	marks will be deducted from the total.	easy to understand. The video provides the required details in the requested order.	Up to 2.5 marks will be deducted from the total.	
Response document	0 pts Does not meet requirements The response to criteria document is missing or very difficult to use because of multiple submission requirements not being met. Up to 5 marks will be deducted from the total.	0 pts Follows submission requirements The response to criteria document is in the requested format, follows the template format and structure closely, and provides all the required information. The responses are within the requested length.	0 pts Some submission requirements are met There are some problems with the response to criteria document and it does not meet several of the submission requirements. Up to 2.5 marks will be deducted from the total.	/ 0 pts
Source code	0 pts Does not meet requirements The source code is very difficult to use because of multiple submission requirements not being met. Up to 5 marks will be deducted from the total.	0 pts Follows submission requirements The source code follows the all requirements	0 pts Some submission requirements are met There are some problems with the source code submission and it does not meet several of the submission requirements. Up to 2.5 marks will be deducted from the total.	/ 0 pts

Total points: 0



or

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