#### **Assignment 1**

Weight: 30% of your final mark

Due: Week 3 Monday程序的社等外的數 CS编程辅导

#### **Specifications**

Your task is to create how much of the storage has been used for each student folder in an S3 bucket to be the dynamic, you need to create a Cloud9 app that would work as a "backend" to be the dynamic ubmission will be evaluated based on:

whether i followed;

- correct f
- correct in
- · comments inside the program

#### **Getting Help**

## WeChat: cstutorcs

This assignment, which is to be completed individually, is your chance to gain an understanding of the fundamental concepts of listing and creating S3 objects on which later learning will be based. It is important that you maker these concepts yourself. Project Exam Help

Since you are mastering fundamental skills, you are permitted to work from the examples in the MySCU site or textbook, but you must acknowledge assistance from other textbooks or classmates. In particular, you must not present you from mastering these concepts.

This diagram will help you understand where you can get help:



#### **Encouraged Attribution Required Not acceptable Ask tutor**

Be aware that if you do get help from one of the red sources, you will be reported for academic misconduct, which may have serious penalties. Please visit the following link for the guidelines: <a href="https://policies.scu.edu.au/download.php?associated=1&id=326&version=3">https://policies.scu.edu.au/download.php?associated=1&id=326&version=3</a>

(Go to the next page)

ATTENTION: Assignment 1 must be completed in the UA-provided AWS account. Personal AWS accounts will not be accepted, and there will be a significant mark deduction. If your AWS account is not accessible for any reason and the marker cannot check your app, you will also lose significant marks. No excuse will hat considered

Overview: You need to create a static website that prints the folder usage information for each student folder in an S3 bucket. You will implement a Cloud9 app that will count the number of files, total file each student folder. You will host the website within the size(in MB), and rema same bucket and it h page. Please see below the example screenshots of the index page.

Example screen:

# ers usage:

- 0712741: 3 files, 15 MB used (85 MB available)
  0712751: 5 files, 8 MB used (85 MB available)
- 0712778: 3 files, 30 MB used (70 MB available)
- · 071279A:SSignment ProjectiEwaintHelp

### Details: The details of he as ignored to the color of 3.com

Part A: The static website (6 marks): You will use two HTML files - home.html and notfound.html, as the index and error page, respectively. Assume that your \$3 bucket consists of folders for students. Each folder belongs to a student and the folder name must be the student ID (assume 7 digits). Each folder can consist of any files (web, text, image, excel, and others). Let's assume students will not be able to add more files when his/her storage exceeds their limit. Assume that each student has 100 MB space in total. In each student folder, it can have some files and sub folders. You need to calculate all files in each student folder). For this assessment, you need to create at least 3 students with some files in each folder to demonstrate the functionality.

The home.html will print a count for existing files in each folder within an S3 bucket, calculate the total file size (in MB), and calculate the remaining space for each student.

Remember to configure the bucket with the appropriate "bucket policy" and "public access" for the public access of the website hosting. If you add or delete files in the bucket, the index page must print an updated list based on the existing files in the bucket.

The notfound.html will be very simple and will display a relevant error message, e.g., "page not found". The error page appears upon entering the wrong/invalid URL.

Part B: The Cloud9 app (24 marks): You might be wondering how it would be possible for a static website to always display the current files in an S3 bucket. This is a dynamic behavior. You need to implement a Cloud9 app that will do the following each time it runs.

- a. counting the number of files in each folder, calculate the total file size, and the remaining space. You need to write a separate method for listing objects, calculating the usage and remaining space.
- b. preparing html content for the 'home.html'. The 'home.html' will contain information about the list of students and their folder usage information. This information must be wrapped with HTML formatted string. You will need a separate method for this feature.
- creating a new 'home.html' in the bucket, which will act as the index file for the website. You will need a separate method for this feature.

You need to execute the Goudy app Each time before running the website of that the index page always displays the updated list of students and their folder usage information.

Requirements: Y 9 app must fulfill the following requirements. You will lose may 100 app must fulfill the following requirements.

- Your Clo Your ScuusernameA1App.
- You will the whole assignment and its name must be yourscuusername-a1-bucket.
- Your Cloud9 app must have three separate methods that are relevant to list the students and the regrent ussue 11 10105
- Your Cloud9 app must use exception handling and loop(s).
- You must use AWS SDK v 2.x to implement the Cloud9 app.
- You must in the Benefit in President in President Awsx cann Help personal AWS account will not be accepted.
- You need to add detailed **comments** inside your source code.

  Email: tutorcs@163.com

Solution hints: Clerk the following hints or implementation.

- You will be taught how to list objects, retrieve their names and file size, which
  will help you to implement the counting feature.
- You will also be taught about creating objects in an S3 bucket, which will help you implement the **creating** feature. For this assignment, you must create an HTML object (home.html) that will be served upon invoking the static website. A newly created object in S3 bucket has a content type of "application/octet", by default. Such objects behave as attachments, and will not fulfil the purpose of a website. Do some research on any relevant methods to address the assessment problems (e.g., splitting a sentence to get a student ID).
- For the preparing feature, you need to wrap the file type and count with HTML code. You can use an unordered HTML list (.....
   to display the list. Check this link out: https://www.w3schools.com/html/html lists unordered.asp.

Submission checklist: The marker will access your AWS Academy workspace (provided by the UA), check your app, and directly mark your app from there. You have to zip the app project folder and submit it in Blackboard as well. The Blackboard submission list:

• A zipped app folder for the Cloud9 app (yourscuusernameA1App.zip). You can right-click and download your app from the Cloud9 interface.

A text file (named link txt) compaining the URL of your hested gratis we being the URL of your hested gratis we being the URL of your hested gratis we being the URL of your hested gratis we be seen a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hested gratis we have a company of the URL of your hest gratis we have a company of the URL of your hest gratis we have a company of the URL of your heat gratis with the URL of your heat gratis we have a company of the URL of



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