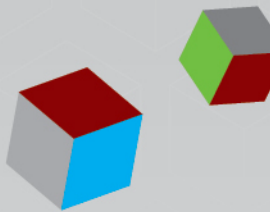
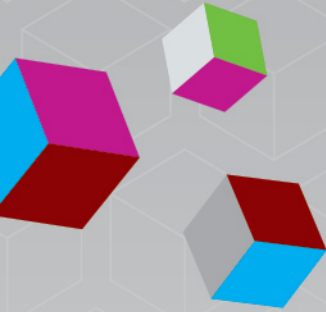




TEST PROJECT
Cloud Computing
POST-SECONDARY



1 INTRODUCTION

In recent years, Cloud Computing has become a necessity for businesses across all sectors and verticals. To keep a competitive edge, businesses leverage the cloud to develop solutions that can handle the demands of their customers and give them a positive customer experience given any load or fault scenario. There are key aspects to successfully building a cloud-based solution. These include system design, deployment, network design, high availability, scalability, automation, security, cost, and monitoring.

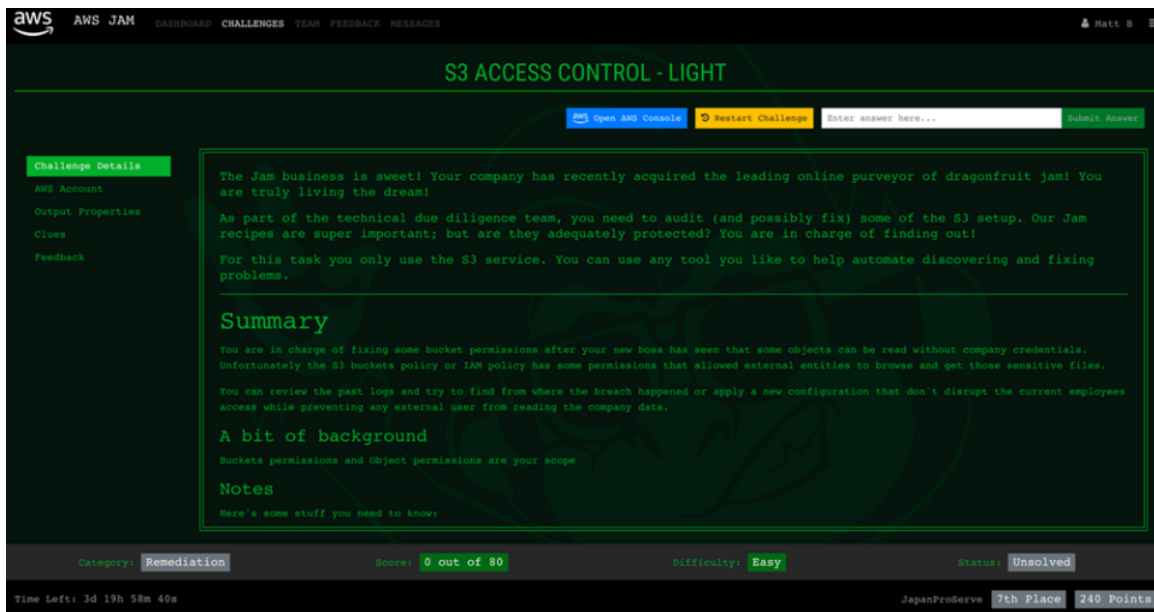
This test project will comprise of two separate challenges. An “AWS GameDay” challenge that is designed to assess Competitors based on their ability to effectively and securely deploy, maintain, troubleshoot and scale a web application. The second challenge will be an “AWS Jam” challenge. This challenge is designed to assess competitors troubleshooting abilities across a wide variety of AWS services.

2 DESCRIPTION OF PROJECT AND TASKS

Using the Jam Platform

You will be using the jam platform for both days of the competition. Once the jam event opens, you'll be able to complete the challenges in any order that you wish. Once we are ready to start the jam event, you will all be given an event password. This will unlock your tasks for that day. The default view of the jam platform is a map. This is just a fun layout but is not important for this event. You can complete any challenge in any order.

Once you select a challenge you will see a screen like this:



The screenshot shows the AWS JAM challenge interface. At the top, there's a navigation bar with 'AWS JAM', 'DASHBOARD', 'CHALLENGES', 'TEAM', 'FEEDBACK', and 'MESSAGES'. The user is identified as 'Matt B'. The challenge title is 'S3 ACCESS CONTROL - LIGHT'. Below the title, there are buttons for 'Open AWS Console', 'Restart Challenge', an input field for 'Enter answer here...', and a 'Submit Answer' button. The challenge details are displayed in a green-themed box. The text reads: 'The Jam business is sweet! Your company has recently acquired the leading online purveyor of dragonfruit jam! You are truly living the dream! As part of the technical due diligence team, you need to audit (and possibly fix) some of the S3 setup. Our Jam recipes are super important; but are they adequately protected? You are in charge of finding out! For this task you only use the S3 service. You can use any tool you like to help automate discovering and fixing problems.' Below this, there are sections for 'Summary', 'A bit of background', and 'Notes'. The 'Summary' section states: 'You are in charge of fixing some bucket permissions after your new boss has seen that some objects can be read without company credentials. Unfortunately the S3 buckets policy or IAM policy has some permissions that allowed external entities to browse and get those sensitive files. You can review the past logs and try to find from where the breach happened or apply a new configuration that don't disrupt the current employees access while preventing any external user from reading the company data.' The 'A bit of background' section says: 'Buckets permissions and Object permissions are your scope'. The 'Notes' section says: 'Here's some stuff you need to know:'. At the bottom, there's a status bar showing 'Category: Remediation', 'Score: 0 out of 80', 'Difficulty: Easy', 'Status: Unsolved', 'Time Left: 3d 19h 58m 40s', 'JapanProServe', '7th Place', and '240 Points'.

This will give you the instructions for the task, access to your account, and the ability to restart the challenge if you believe you've broken something and cannot repair it yourself. Any time to restart a Jam is time used; you will not receive this time back.

The jam modules can be very difficult, but all can and have been solved using only the instructions given to you. However, you do have the option of revealing clues. Clues are designed to help you make progress toward the final solution, but it is important to remember that you will not receive full points for the module if you use a clue. Determine your own strategy and be mindful of the consequences of using a clue. You **will** be penalized for the use of clues.

