

Test Project

Cloud Computing

Independent Test Project Designers: Shawn Xu, Xiaowei Wang, Qiang Wang, Xu Chen
Independent Test Project Validator: Chit Boon Lee, SCM

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Contents

This Test Project consists of the following documentation/files:

1. **WSC2024_TP53_main_document_actual_en**
2. WSC2024_TP53_day1_actual_en
3. WSC2024_TP53_day2_actual_en
4. WSC2024_TP53_day3_actual_en

Introduction

Cloud adoption is now critical for businesses of all sizes. To stay ahead, companies leverage the cloud's agility to build solutions that scale seamlessly, ensuring a positive customer experience even under peak loads or outages. These Test Projects evaluate your ability to design, deploy, manage, and secure cloud-native applications effectively, along with your troubleshooting skills and composure under pressure.

C1 and C2 – Well-architecting

Each day begins with developing solutions that meet the specified requirements. For information about your account permissions, please refer to the HengHaTeamRole in your IAM console.

Infrastructure Cost

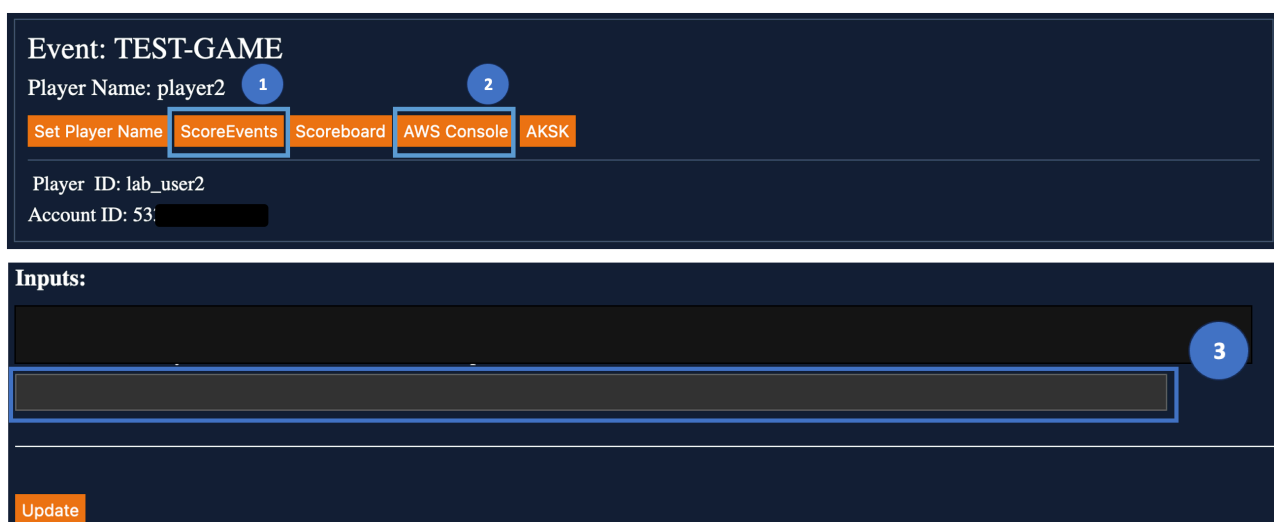
To optimize resource usage, deploy only the resources required to handle the current load. Deploying excess instances will result in penalties.

Personal Event Dashboard

Log in to the Cloud Raiser Platform using the provided credentials to access your personal event dashboard.

Your event dashboard provides real-time insights into your solution's performance against evaluation criteria such as scalability, performance, resource optimization and etc. Marks awarded for each criteria contribute to your overall score.

Please note: The personal dashboard is not intended for competitor comparisons based on overall scores. It focuses on individual performance against the defined evaluation criteria.



Event: TEST-GAME

Player Name: player2

Set Player Name ScoreEvents Scoreboard AWS Console AKSK

Player ID: lab_user2

Account ID: 53

Inputs:

Update

The competition dashboard provides a central hub for managing your participation. Here's a breakdown of the key components:

1. **Score Events and Scoreboard:** This section provides access to individual activities that contribute to your overall score. Think of these events as milestones you need to achieve for a functioning application.
2. **AWS Console:** Click this button to access a temporary AWS account provided specifically for this competition. This account will be closed and inaccessible after each day.
3. **Inputs:** This section allows you to submit your answers according to the event requirements. These answers might include public IP addresses, ALB DNS names, S3 URLs, API endpoints, or other relevant details.

Score Events and Scoreboard

For a deeper dive into your performance, click the "Score Events" button on the player dashboard. This will show you a point-by-point breakdown of your score.

Score Events			
Time	Score	Source	Reason
2024-06-27 04:42:47	20	EC2 Module	You served a unicorn in 4.020618 seconds
2024-06-27 04:42:35	20	EC2 Module	You served a unicorn in 4.021239 seconds
2024-06-27 04:42:23	20	EC2 Module	You served a unicorn in 4.021392 seconds
2024-06-27 04:42:07	30	EC2 Module	You served a unicorn in 0.508333 seconds
2024-06-27 04:41:58	20	EC2 Module	You served a unicorn in 4.020203 seconds

This page provides a detailed breakdown of your score, divided into two sections:

1. **Event List:** Each row represents a score event, including its source (where the points came from), the points awarded/deducted, and the reason.
2. **Reason for Point Changes:** Pay close attention to the reason column, especially for point deductions. This will help you identify and fix any issues impacting your score.

AWS Services

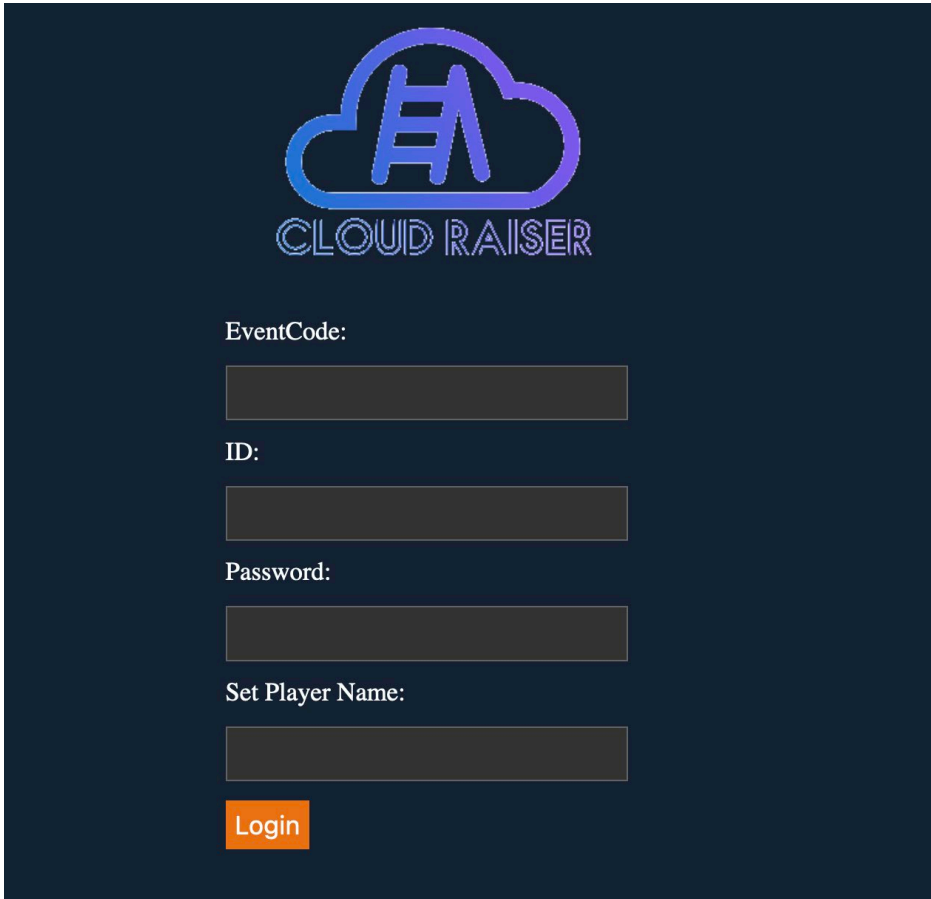
Even though you have access to most services and your IAM role grants permissions for this competition, encountering "Permission Denied" errors is still a possibility. Remember, permissions can vary across regions, so double-check you're working in the designated **us-east-1 region** for the competition. Additionally, exceeding resource limits associated with your permissions can also trigger errors.

C3 – troubleshooting and QUEST

The competition goes beyond testing your architectural prowess. We'll also assess your proficiency in crucial cloud computing skills through targeted challenges within Cloud Raiser during C3. Get ready to showcase your technical depth alongside your creative problem-solving abilities!

Login to Cloud Raiser

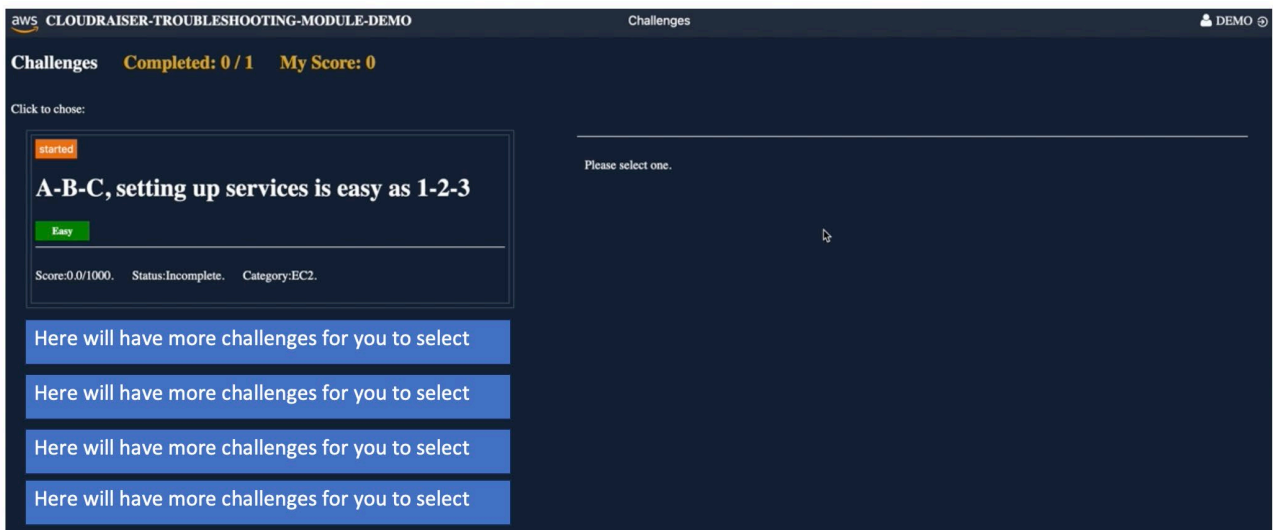
We will provide you with login credentials.



The login interface for Cloud Raiser is displayed on a dark blue background. At the top center is a logo consisting of a stylized ladder inside a cloud shape, with the text "CLOUD RAISER" below it. Below the logo are four input fields with labels: "EventCode:", "ID:", "Password:", and "Set Player Name:". Each label is followed by a dark gray rectangular input box. At the bottom left of the form is an orange button with the text "Login".

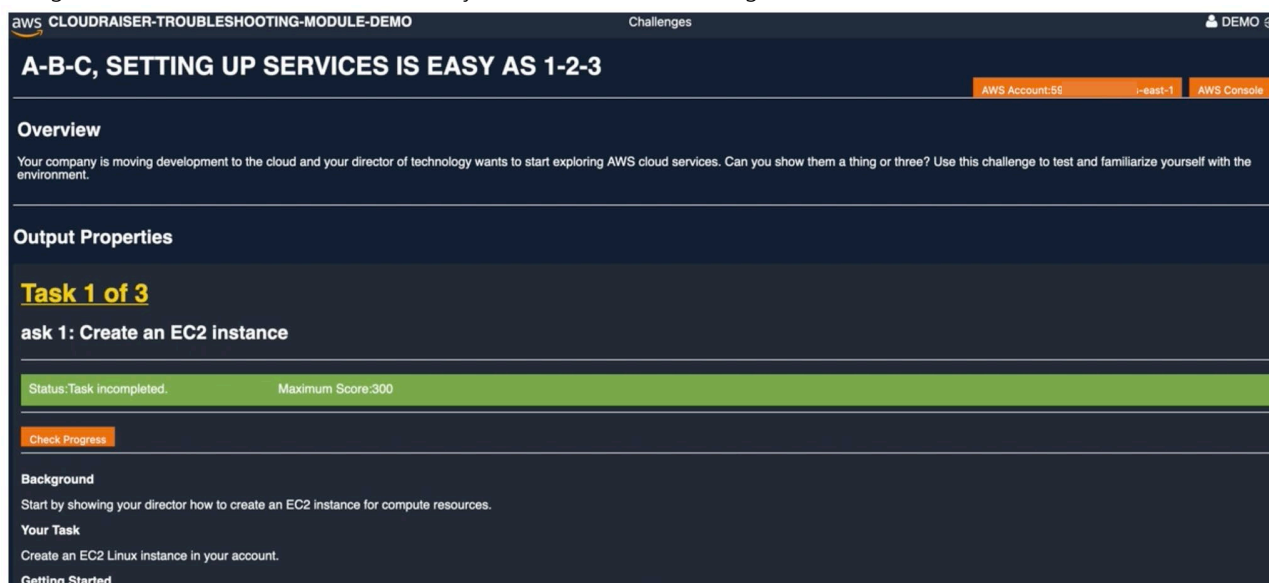
TOUBLESHOOTING MODULE

Once logged in, you'll have the flexibility to tackle the challenges in any order that suits your approach!



The screenshot shows the "aws CLOUDRAISER-TROUBLESHOOTING-MODULE-DEMO" interface. The top navigation bar includes the AWS logo, the title "CLOUDRAISER-TROUBLESHOOTING-MODULE-DEMO", the word "Challenges", and a "DEMO" button with a user icon. Below the navigation bar, the text "Challenges Completed: 0 / 1 My Score: 0" is displayed. A "Click to chose:" label is positioned above a challenge card. The challenge card has a "started" tag, the title "A-B-C, setting up services is easy as 1-2-3", a green "Easy" tag, and a summary line "Score:0.0/1000. Status:Incomplete. Category:EC2.". To the right of the card is a large area with the text "Please select one." and a mouse cursor. At the bottom of the interface are four blue buttons, each containing the text "Here will have more challenges for you to select".

Once you choose a challenge, a dedicated screen will appear. Here, you'll find detailed task instructions alongside a convenient button to access your AWS account through the AWS Console.



A-B-C, SETTING UP SERVICES IS EASY AS 1-2-3

AWS Account: 66 | us-east-1 | AWS Console

Overview

Your company is moving development to the cloud and your director of technology wants to start exploring AWS cloud services. Can you show them a thing or three? Use this challenge to test and familiarize yourself with the environment.

Output Properties

Task 1 of 3

ask 1: Create an EC2 instance

Status: Task incomplete. Maximum Score: 300

[Check Progress](#)

Background

Start by showing your director how to create an EC2 instance for compute resources.

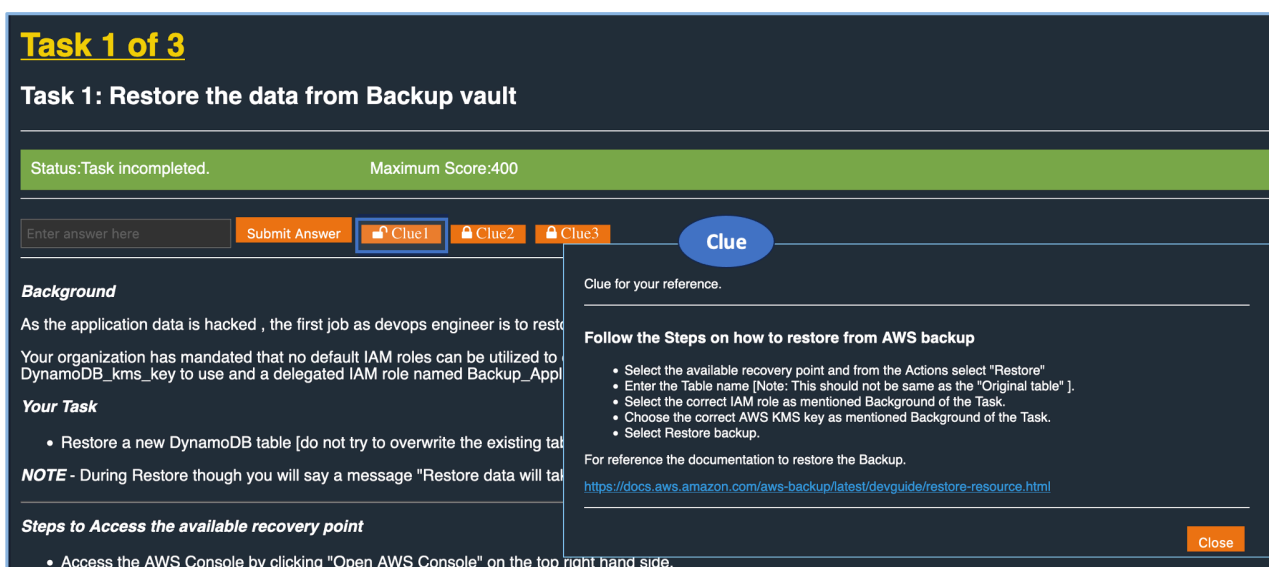
Your Task

Create an EC2 Linux instance in your account.

Getting Started

clues

Each challenge provides detailed instructions to equip you for success. **Remember, while helpful clues are available, using them will deduct points.** Craft your approach strategically! Consider if the potential point reduction outweighs the time saved by using a clue. This competition rewards both problem-solving skills and strategic decision-making.



Task 1 of 3

Task 1: Restore the data from Backup vault

Status: Task incomplete. Maximum Score: 400

Enter answer here [Submit Answer](#) [Clue1](#) [Clue2](#) [Clue3](#) [Clue](#)

Background

As the application data is hacked, the first job as devops engineer is to restore the data. Your organization has mandated that no default IAM roles can be utilized to restore data. You must use a delegated IAM role named Backup_Appl.

Your Task

- Restore a new DynamoDB table [do not try to overwrite the existing table]

NOTE - During Restore though you will say a message "Restore data will fail"

Steps to Access the available recovery point

- Access the AWS Console by clicking "Open AWS Console" on the top right hand side.

Clue

Clue for your reference.

Follow the Steps on how to restore from AWS backup

- Select the available recovery point and from the Actions select "Restore"
- Enter the Table name [Note: This should not be same as the "Original table"]
- Select the correct IAM role as mentioned Background of the Task.
- Choose the correct AWS KMS key as mentioned Background of the Task.
- Select Restore backup.

For reference the documentation to restore the Backup.

<https://docs.aws.amazon.com/aws-backup/latest/devguide/restore-resource.html>

[Close](#)

Once you finish a prerequisite task, the next steps will unlock, guiding you towards completion. Remember, you'll need to complete all tasks to mark the challenge as finished.

aws CLOUDRAISER-TROUBLESHOOTING-MODULE-DEMO
Challenges
DEMO ⓘ

A-B-C, SETTING UP SERVICES IS EASY AS 1-2-3

AWS Account:59
-east-1
AWS Console

Overview

Your company is moving development to the cloud and your director of technology wants to start exploring AWS cloud services. Can you show them a thing or three? Use this challenge to test and familiarize yourself with the environment.

Output Properties

Task 1 of 3

ask 1: Create an EC2 instance

Status:Task completed.
Maximum Score:300

Check Progress

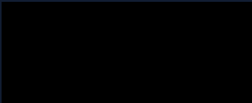
Task 2 of 3

Task 2: Create a S3 Bucket

Status:Task incompleted.
Maximum Score:300

QUEST MODULE

This challenge combines Well-Architecting and Troubleshooting. You'll see all tasks at once, and you are free to complete them in any sequence. Analyze your performance with ScoreEvents. QUEST tests your ability to strategize using both architectural knowledge and troubleshooting skills.



Questing

Information:

Overview

xxx yyy zzz

Task 1: Restore API service!!!

Task description ...

Task 2: Take action to resolve the security issue!

Task description ...

Task 3: Please restore CICD Pipeline!

Task description ...

Good luck!