Qucoon TESA Exercise

REF: CE-003-006

QUCOON TECH SKILLS ACCELERATOR - TeSA

CROSS-CLOUD SERVER MIGRATION WITH HUAWEI SMS

SUBJECT: CLOUD ENGINEERING & ARCHITECTURE

DURATION: 120 MINUTES

COMPLEXITY LEVEL: Intermediate

EXERCISE TYPE: LAB

About TESA:
Tech Skills Accelerator is an intensive and rapid skills accelerator academy powered by Qucoon, a global tech consulting and engineering company. TESA is a product of Qucoon Academy, a subsidiary of Qucoon.

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1. BACKGROUND & REFERENCES

The theoretical background to the lab provides the underlying knowledge for the concepts tested by the lab, the resources to be deployed and the problems being solved by the students.

1.1 Theoretical Background:

The URLs below (where applicable) provide the relevant background to the exercise.

Huawei SMS migrates servers between clouds with minimal downtime.
AWS EC2 hosts source files in Ubuntu for cross-cloud transfer.
Huawei ECS receives migrated workloads as target Ubuntu servers.

1.2 Key Resources:

This (where applicable) is the list or references (links) to study for the knowledge and information relevant for the lab.

AWS EC2, Huawei ECS, Huawei SMS, Documentation

1.3 Relevant Knowledge References:

This (where applicable) is the list or references (links) to study for the knowledge and information relevant for the lab.

Huawei SMS Documentation
AWS EC2 Documentation
Huawei ECS Documentation
Server Migration Tips

2. LAB SCENARIO OR ARCHITECTURE REQUIREMENTS

2.1 Prerequisite Environment:

This (where applicable) is the existing environment that must be in place before you run this lab. This references a document that will show the architecture diagram and infrastructure as code (IaC) script that you need to provision the foundation/prerequisite environment.

YES

2.2 Company Data Sheet:

This (where applicable) provides the background information about the hypothetical company for the lab.

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**Technology, Strategy
& Consulting Services**

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2.3 Problem Statements/Exercise:

Here's the problem statement or scenario for the lab. You are the Solutions Architect, the Cloud Engineer and the DevOps engineer. You are expected to identify and apply the key principles of Architecture, Security and Engineering in the delivery of your solution except where the scenario is prescriptive.

Deploy Ubuntu EC2 on AWS with cheapest specs and store sample files.
Create Ubuntu ECS on Huawei Cloud using minimal configurations.
Configure Huawei SMS to migrate EC2 server data to ECS.
Validate successful migration and file integrity on target ECS.

3. NOTES & SPECIAL INSTRUCTIONS.

This section provides very important information you need to successfully run your lab. Strict adherence to these notes is very critical and important.

3.1 Region:

Please deploy your AWS resources in eu-west-1
Please deploy your Huawei resources in AF-Johannesburg

3.2 Delivery Method:

Console

3.3 Your Outputs:

The following is the list of deliverables. Your Lab instructor or course instructor may provide you Qucoon proprietary templates for your documentation or allow you to use Qucoon proprietary Infrastructure as Code automation tools. You may decide to provide additional outputs.

You will deliver the following exhibits:

ADR containing Data Flow, Architecture and Network Diagrams

3.4 Submission Method:

Your lab work output will be submitted as follows. Your documents should be named using the same format for the email subject.

Email Address – tesa-lab@qucoon.com
Email Subject – Student Name <> Lab Reference
e.g., Ruth Odu <> CE-003-006

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4. QUCOON CONTACTS.

For all enquiries about Qucoon, TESA and TESA Labs, please reach using the following contact details:

4.1   TESA Email Address:
cloudacademy@qucoon.com

4.2   TESA Contact Person:
Emmanuella Etuk

4.3   TESA Instructor or Mentor:
As assigned to you.

Thank you,

Anthony Onyeneke

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