



**Objective:** Assess the understanding of basic AWS concepts and the practical skills gained during the workshop.

### Key Points need to be considered

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- Please complete all sections of the assignment on your own. Use of AI tools to write answers is not permitted, although you may refer to resources available on the Internet.
- For the hands-on session, ensure that you take screenshots and provide a description with proper steps for each action taken.
- To pass the assignment and receive a certificate from us, you must score above *70 marks*.
- Submit your answers to the theory questions in a document format (e.g., Word or PDF).
- Please send the PDF via email with the Title line "AWS-SESSION-ASSIGNMENT - With Your Full Name" to the following address:  
**To: *admin@uki.life***  
**CC: *vithushan@uki.life, vavuniya@uki.life***
- The deadline for submission is 7 days from now, so please ensure your assignment is submitted before 12:00 AM on December 27th 2024.
- Resources

Slides References - [AWS Resources](#)

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### Section 1: Theory Questions (40 Marks)

1. Define cloud computing and explain its advantages over traditional on-premises IT infrastructure.
2. What are AWS Regions and Availability Zones? Why are they important?
3. Match the following AWS services to their primary use case:  
EC2:  
S3:  
RDS:  
Lambda:
4. Explain the Shared Responsibility Model in AWS. Who is responsible for securing data in AWS?

## **Section 2: Hands-on Questions (60 Marks)**

### **Launch a Virtual Machine on AWS (20 Marks)**

- Create an EC2 instance using the free-tier eligible Amazon Linux 2 AMI.
- Connect to the instance using SSH.

### **Create an S3 Bucket (10 Marks)**

- Create an S3 bucket and upload a sample file.
- Make the file publicly accessible and share the link.

### **Create a new IAM user with programmatic access. (10 Marks)**

- Assign it the "S3 Read-Only Access" policy.
- Demonstrate that the user can list bucket contents but cannot upload files.

### **S3 Event-Driven Lambda (20 Marks)**

- Create an S3 bucket.
- Set up an S3 event trigger to invoke a Lambda function when a file is uploaded to the bucket.
- Write a Lambda function that logs the name and size of the uploaded file.
- Test the workflow by uploading a file to the S3 bucket and viewing the CloudWatch logs.