# Lab 2 - CloudFront and EBS Report

# Completion Screenshot

### Item 1 (10 Marks)

**CloudFront Lab Completion Screenshot**

Please add at least one screenshot of your final step in the lab report. The screenshot(s) should clearly demonstrate the completion of the lab task.

### Item 2 (10 Marks)

**EBS  Lab Completion Screenshot**

Please add at least one screenshot of your final step in the lab report. The screenshot(s) should clearly demonstrate the completion of the lab task.

# Part 1: Content Distribution

**Instructions:** Use the following websites and do your own research to complete this activity:

- Amazon CloudFront:
  - o   https://aws.amazon.com/cloudfront
  - o   https://aws.amazon.com/cloudfront/features
  - o   https://aws.amazon.com/cloudfront/getting-started
- AWS Direct Connect: https://aws.amazon.com/directconnect
- Cache: https://wa.aws.amazon.com/wat.concept.cache.en.html
- Edge location: https://wa.aws.amazon.com/wat.concept.edge-location.en.html
- Origin: https://docs.aws.amazon.com/cloudfront/latest/APIReference/API_Origin.html

## Item 3 (20 Marks)

**Definitions:** In the following table, define each key term.

| Key Term | Definition |
|---|---|
| CloudFront | |
| Direct Connect | |
| Caching | |
| Content delivery network (CDN) | |
| Distribution | |
| Edge location | |
| Origin | |

**Questions:** Answer the following questions.

### Item 4 (5 Marks)

Using the key terms, write a description of how the Amazon Web Services (AWS) CDN functions.

### Item 5 (5 Marks)

What role do edge locations play in the CDN?

### Item 6 (5 Marks)

Why do you think companies like Amazon, Hulu, and Netflix use CloudFront?

# Part 2: All About Amazon EBS

### Item 7 (20 Marks)

**Benefits of Amazon EBS:** Write a brief description of each of the following benefits of Amazon Elastic Block Store (Amazon EBS).

**Data availability**

**Data persistence**

**Data encryption**

**Snapshots**

**Item 8 (5 Marks)**

**EBS volume types.** What are the two major types of EBS volumes?

**Item 9 (20 Marks)**

In the following table, describe each EBS volume type that is listed. Then, list use cases for each volume type. Refer to the Amazon EBS Volume Types page at
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSVolumeTypes.html.

| Volume Type | Description | Use Cases |
|---|---|---|
| General purpose SSD (gp2) | | |
| Provisioned IOPS SSD (io1) | | |
| Throughput optimized HDD (st1) | | |
| Cold HDD (sc1) | | |