CPD Lab 10: Latest Trends in Cloud Computing

Introduction

In this lab you will complete two free Qwiklabs. The first lab introduces you to AWS Device Farm and the second one is on S3 cross region replication. In addition you will refer to some documents on AWS.

AWS Device Farm: https://aws.amazon.com/device-farm/

Tasks:

- Task 1: Qwiklab: Introduction to AWS Device Farm
- Task 2: Qwiklab: S3: Multi-region Storage Backup with Cross-Region Replication
- Task 3: Reference Reading Material

Task 1: Qwiklab: Introduction to AWS Device Farm

Device farm Service provides an app testing service for mobile app developers. This is a free lab of 40 minutes duration. You can search for the lab on Qwiklabs.com.

In this lab you will:

- Create an AWS Device Farm Project
- Upload a sample Android mobile app into the AWS Device Farm Project
- Test the mobile app using a basic suite of tests in AWS Device Farm
- View the results of the test suite run

Task 2: Qwiklab: S3: Multi-region Storage Backup with Cross-Region Replication

This is a free lab of 60 minutes duration. You can search for the lab on Qwiklabs.com. In this lab you will:

- Create a source and destination S3 bucket
- Create a Cross-Region Replication policy
- Enable replication for an entire bucket, specific folder, or specific tag
- Identify the conditions necessary for replicating objects
- Delete replicated files and understand how deletions are replicated

Task 3: Reference Reading Material

1. **Amazon RoboMaker**

   "Robots are being used more widely in society for purposes that are increasing in sophistication such as complex assembly, picking and packing, last-mile delivery, environmental monitoring, search and rescue, and assisted surgery.

Within the autonomous mobile robot (AMR) and autonomous ground vehicle (AGV) market segments, robots are being used for commercial logistics and consumer cleaning, delivery, and companionship."

https://aws.amazon.com/robomaker/

2.   **BlockChain**

"Blockchain technologies are often used to solve two types of customer needs. In the first case, multiple parties work with a centralized, trusted authority to maintain a complete and verifiable record of transactions. An example is a retail customer looking to connect its suppliers with a centralized ledger that maintains a transparent and verifiable history of information related to the movement of a product through its supply chain. In the other case, multiple parties transact in a decentralized manner without the need for a centralized, trusted authority. An example is a consortium of banks and export houses looking to perform cross-boundary transfer of assets (e.g. letter-of-credits) amongst each other, without a centralized authority acting as a liaison."

https://aws.amazon.com/blockchain/

3.   **Amazon Sumerian**

"Bring a new dimension to your web and mobile applications with Amazon Sumerian. 3D immersive experiences are breathing new life into user experiences on the web, increasing customer engagement with brands and improving productivity in the workplace. Amazon Sumerian makes it easy to create engaging 3D front-end experiences and is integrated with AWS services to provide easy access to machine learning, chatbots, code execution and more. As a web-based platform, your immersive experiences are accessible via a simple browser URL and are able to run on popular hardware for AR/VR."

https://aws.amazon.com/sumerian/