Course Recap

The fundamentals of the cloud, its characteristics, and virtualization are the foundation of cloud computing.

Since there are many cloud providers, and each is similar in services but significantly different in operation, we chose to focus on the leader, which is AWS.

During this course, you:

- Launched a Linux virtual machine on your local computer

- Created cloud identities
- Granted least privilege permissions to those identities
- Created an S3 bucket
- Uploaded objects to S3
- Downloaded objects from S3

- Launched EC2 instances via the AWS console
- Created security groups to controlled access to EC2 instances
- Allocated and associated an Elastic IP address to an EC2 instance
- Provisioned an EC2 instance via an init script
- Connected EC2 and S3 via IAM Role
- Copied content from an S3 bucket to EC2 instance (automatically!)

- Launched an ElastiCache for Redis instance
- Created Lambda Functions
- Tested Lambda Functions with events
- Configured the API Gateway as a Lambda trigger
- Tested with Postman the integration of API Gateway, Lambda, and ElastiCache