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AWS Training and Certification Module 1: Course Overview

Course objectives

By the end of this course, you will be able to:

- Configure IAM permissions to support your development environment.
- Design, diagram, build, and deploy a cloud-native application using AWS SDKs.
- Monitor and maintain an application by using AWS resources.

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Prerequisites

- AWS Cloud Practitioner Essentials
- AWS Technical Essentials
- Basic knowledge of a top-level programming language
  - Python
  - .NET
  - Java

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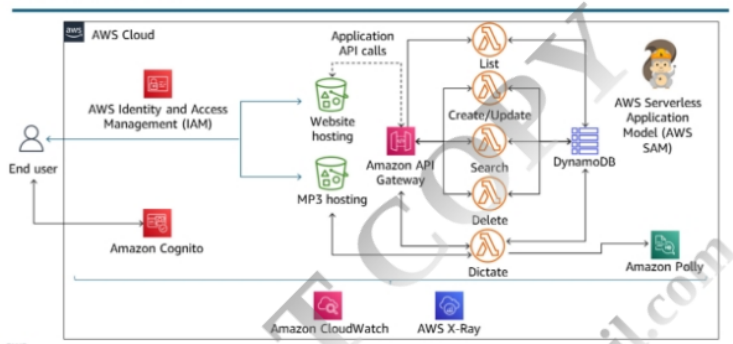
Course overview



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You, as a developer, will use integrated development environments (IDEs) with AWS software development kits (SDKs) to develop the application.
You will learn how to host a static website, implement business logic, manage APIs, control access to the application, store and process user data and more.

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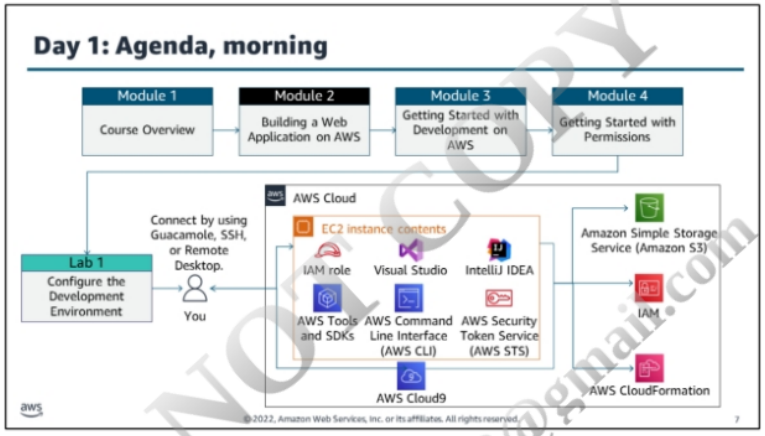

Module 1 – Introduction to the course.

Module 2 – Review the details the AWS architecture used to create a complete cloud-native application.

Module 3 – Explore the benefits of AWS software development kits (AWS SDKs) when building an application.

Module 4 – Configure a development environment that supports AWS Identity and Access Management (IAM) permissions.

Lab 1 – Use AWS Cloud9 to configure and test IAM permissions in a development environment.

Labs will be performed from your computers. You will connect to the lab environment using Guacamole, SSH, or Remote Desktop. In lab 1 you set up your lab environment.

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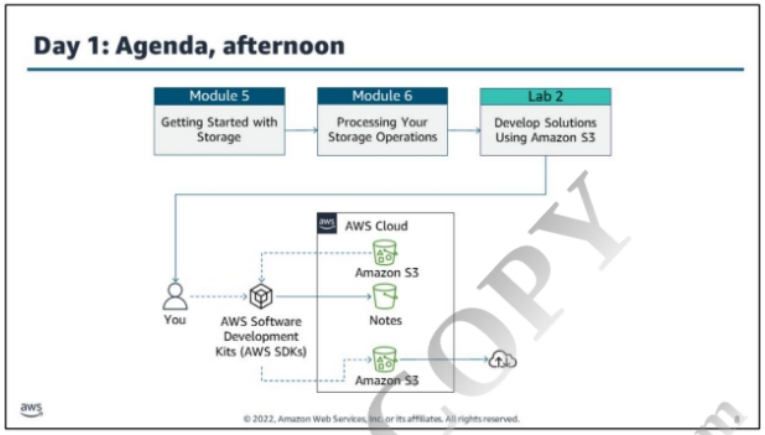

Module 5 – Compare feature sets and use cases for available AWS storage solutions.

Module 6 – Deploy a static website to Amazon Simple Storage Service (Amazon S3).

Lab 2 – Identify the appropriate AWS solutions for application workloads for big data.

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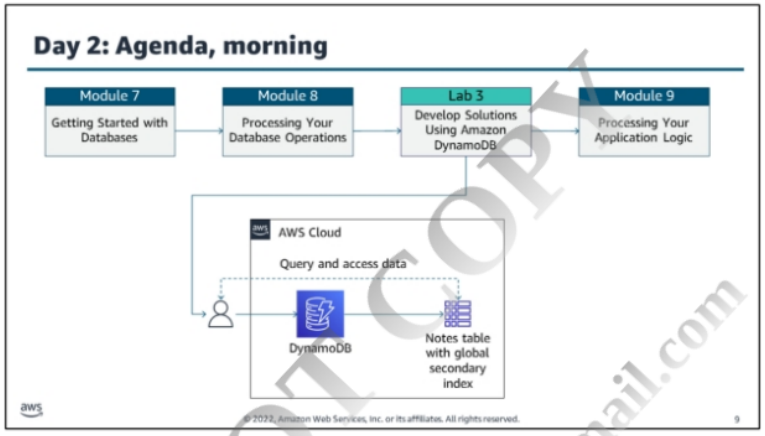

Module 7 – Compare feature sets and use cases for available AWS database options. Configure an Amazon DynamoDB database to store data from a web application.

Module 8 – Use the DynamoDB SDK to perform the create, read, update, delete (CRUD) operations, and explore database caching options.

Lab 3 – Configure a DynamoDB database to store data from a web application.

Module 9 – Compare the feature sets and use cases for available AWS compute solutions. Build an AWS Lambda function to store data from a web application in DynamoDB.

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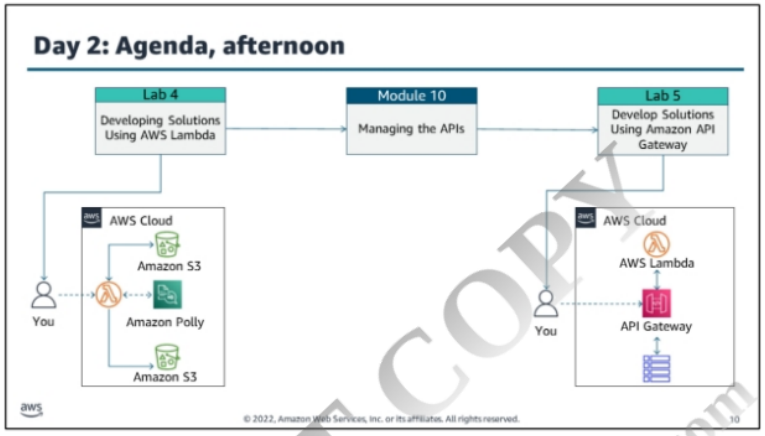

Lab 4 – Build an AWS Lambda function to store data from a web application in DynamoDB.

Module 10 – Explore the methods available for Amazon API Gateway to connect AWS resources.

Lab 5 – Use Amazon API Gateway to connect Lambda and DynamoDB.

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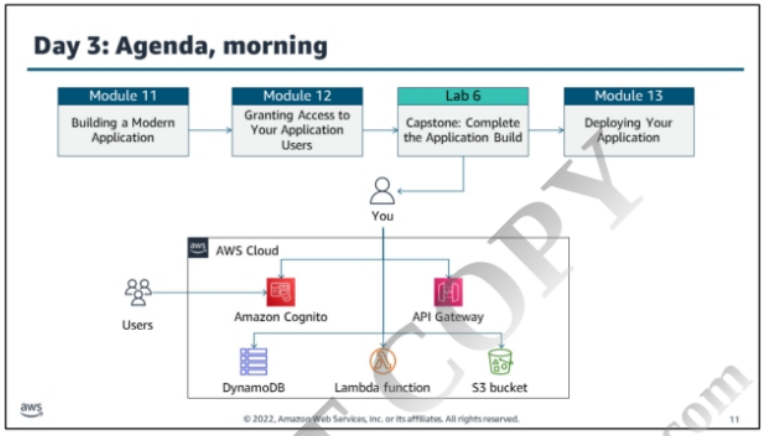

Module 11 – Evaluate the benefits of building a web application using a serverless approach.

Module 12 – Review how Amazon Cognito controls user access to AWS resources.

Lab 6 – Create an Amazon Cognito solution that provides users access to a web application.

Module 13 – Deploy your application.

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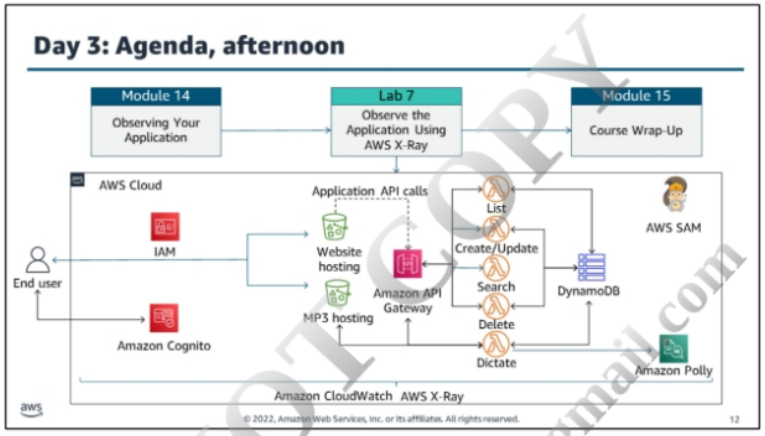

Module 14 – Identify the AWS services that support the monitoring of a web application.

Lab 7 – Deploy, monitor, and maintain a web application using AWS resources.

Module 15 – Course summary

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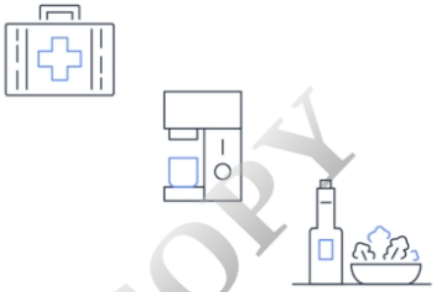
Logistics

- Facilities
  - Emergency exits
  - Fire alarm protocol
  - Security
- Breaks and lunch
- Food
- Cell phones



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Registration

- Qwiklabs: Class lab environment
  1. Register for an account.
  2. Verify that you have access to the classroom.
  3. Go to http://aws.qwiklabs.com.
- Gilmore: Student guide
  1. Register for an account.
  2. View the material online, or download all course materials through the Bookshelf application.
  3. See the instructor for guidance.
  4. Go to http://evantage.gilmoreglobal.com.

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Gilmore VitalSource: Sign in

- Course slide deck and hands-on lab guides are provided through the Gilmore VitalSource bookshelf.
- Do one of the following:
  - Sign in to your previously created VitalSource account.
  - Select Create a VitalSource account.
- Get the code from your trainer.

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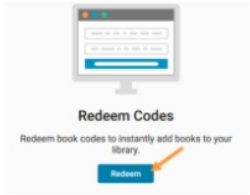

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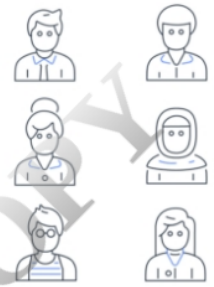
Introduce yourself

- Name
- What do you do day-to-day?
- What do you want to get out of this class?
- What is your experience level with AWS?
- Choose a language: Java, Python, or C#
- Last Amazon.com purchase?



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Your introduction helps us to understand the experience level of the class and what each of you want to get out of the class.

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