Project 3

Infrastructure as Code (IaaC)

Sub Tasks

Sub Task 1: Choose a tool (AWS CloudFormation or Terraform) for managing infrastructure as code.

- Evaluate the pros and cons of each tool.
- Decide on the preferred tool for your project.

Sub Task 2: Create code templates to define your AWS infrastructure.

- Define the network infrastructure (VPC, subnets).
- Specify resources such as EC2 instances, RDS databases, and security groups.
- Create reusable modules or stacks for common resource types.

Sub Task 3: Test the templates to ensure they accurately represent your desired infrastructure.

- Use validation tools specific to your chosen laaC tool.
- Simulate stack creations and updates in a non-production environment.

Sub Task 4: Deploy and manage your infrastructure using IaaC.

- Create and manage AWS CloudFormation stacks or Terraform workspaces.
- Automate the provisioning of resources for your application.
- Implement version control for IaaC code to track changes and updates.