**Objective:**

Demonstrate your hands-on ability with AWS infrastructure by creating a simple web hosting setup using EC2 instances behind an Application Load Balancer (ALB), serving a basic web application via Apache2.

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**Instructions:**

Using your own AWS account, complete the following:

1. Launch EC2 Instances
   * Create 2 EC2 instances (any instance type, e.g., t2.micro).
   * Use Amazon Linux 2 or Ubuntu.
   * Ensure both instances are in the same VPC and Availability Zone (or across AZs if preferred).
2. Install and Configure Apache

* Install apache2 (or httpd if using Amazon Linux).
* Deploy a basic web page on each instance (e.g., index.html) with unique content so each instance can be identified when accessed via the browser.

1. Create an Application Load Balancer (ALB)

* Create an ALB in the same VPC.
* Create a Target Group with the two EC2 instances registered.
* Set up a listener on port 80 to forward requests to the Target Group.
* Configure health checks appropriately.

1. Security and Access

* Open HTTP (port 80) access to the ALB from anywhere.
* Make sure EC2 instances accept traffic from the ALB.

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**Deliverables:**

* Public URL (DNS name) of the ALB to access the web app.
* Any Terraform, CloudFormation, or bash scripts used for automation. (Optional)