Problem Statement:

You work for XYZ Corporation that uses on premise solutions and some limited number of systems. With the increase in requests in their application, the load also increases. So, to handle the load the corporation has to buy more systems almost on a regular basis. Realizing the need to cut down the expenses on systems, they decided to move their infrastructure to AWS.

Tasks To Be Performed:

1. Create a Classic Load Balancer and register 3 EC2 instances with different web pages running in them.
2. Migrate the Classic Load Balancer into an Application Load Balancer.

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Tasks To Be Performed:

1. Create a web server AMI with Apache 2 server running in it.
2. Create a launch configuration with this AMI.
3. Use this launch configuration to create an Auto Scaling group with 1 minimum and 3 maximum instances

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Tasks To Be Performed:

1. Use the Route 53 hosted zone created in the assignment.
2. Route the traffic to an EC2 instance with an Apache web server running in it using its IP address.

Case Study

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Tasks To Be Performed:
1. Manage the scaling requirements of the company by:
a. Deploying multiple compute resources on the cloud as soon as the load increases and the CPU utilization exceeds 80%
b. Removing the resources when the CPU utilization goes under 60%
2. Create a load balancer to distribute the load between compute resources.
3. Route the traffic to the company's domain.