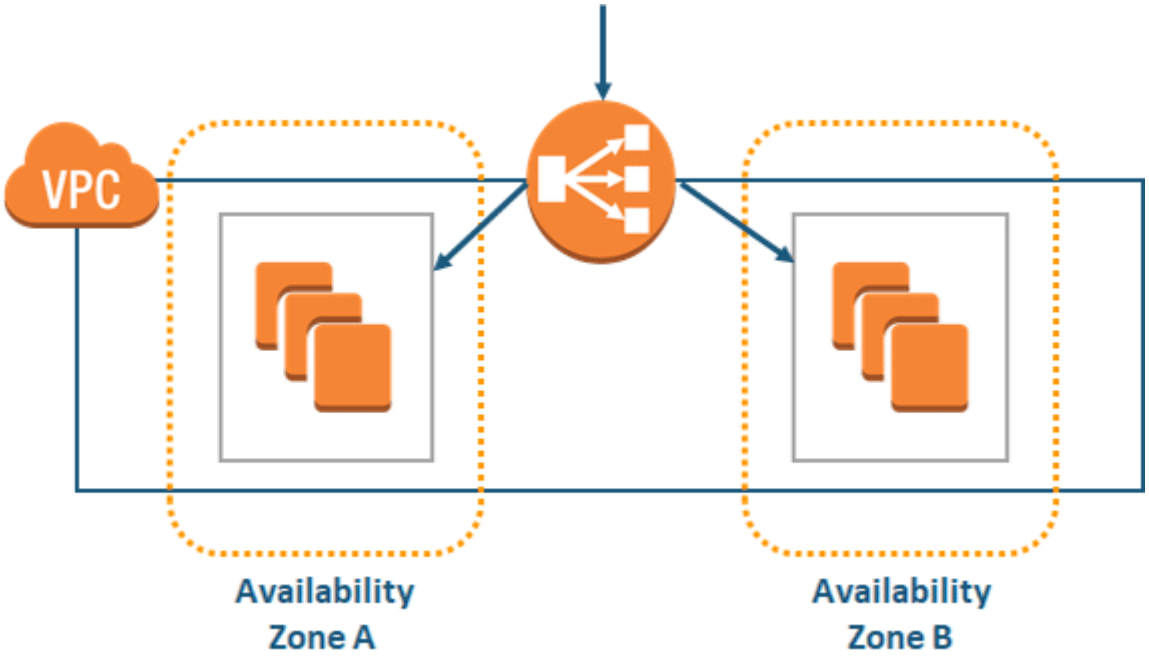
Lab 3



Lab Scenario

Introduction:

Elastic Load Balancing automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, Lambda functions, and virtual appliances. It can handle the varying load of your application traffic in a single Availability Zone or across multiple Availability Zones. Elastic Load Balancing offers four types of load balancers that all feature the high availability, automatic scaling, and robust security necessary to make your applications fault tolerant.

Objective: Create an **Application Load Balancer** to distribute the load of two application webserver also add one more web server on the existing Load Balancer.

Activities:

Task 1: Launch 2 AWS Window R2 base server Instance by selecting general-purpose t2micro instance in different availability zones.

Task 2: Configure both the EC2 web servers.

Task 3: Create Load Balancer and attach both the EC2 server to it

Task 4: Register EC2 servers and set the target group the Configure and review.

Task 5: Check the working of Load Balancing

Task 6: Add one more EC2 webserver on existing Load Balancer

Task 7: Check the proper working of all the three Web servers with proper working.

Task 8: Take the snapshots of all performed tasks and create a doc/pdf of your enrolment number_lab03 (Ex: E18CSE022_Lab03) and upload the file on LMS.

Web Link Help:

https://docs.aws.amazon.com/elasticloadbalancing/latest/application/create-application-load-balancer.html

More detailed of ELB: (AWS Documentation)

https://aws.amazon.com/elasticloadbalancing/?elb-whats-new.sort-by=item.additionalFields.postDateTime&elb-whats-new.sort-order=desc

Video Link:

https://www.youtube.com/watch?v=YCT5kLprLTs&ab_channel=VijayTech360