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*Terraform: Load Balancing in AWS*

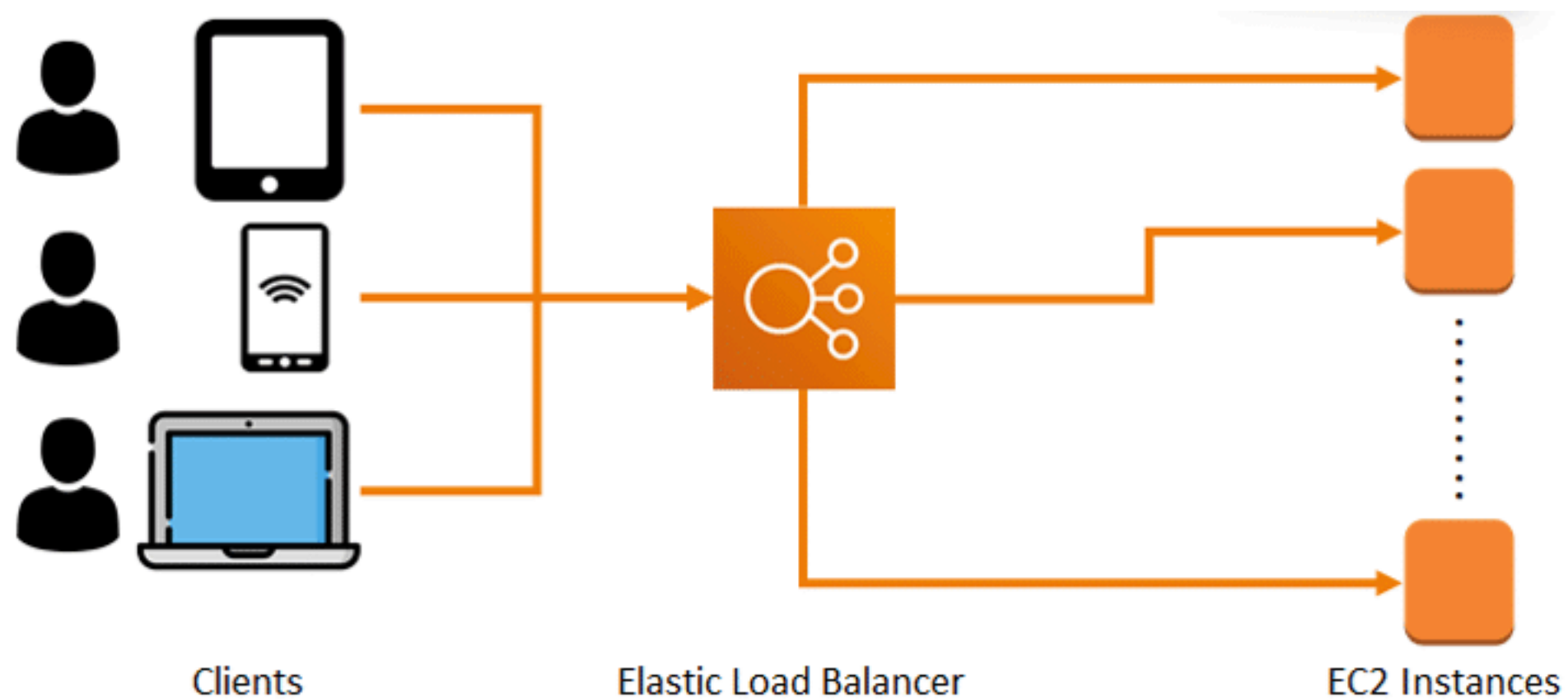
## ***Terraform : Deployment Automation***

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- Amazon AWS Elastic Load Balancer is a purpose built service for distributing workloads.
- For ELB, User must specify One Public Subnet for at least two availability zones.
- Accept incoming traffic from client and route to Target.
- Monitor Health of registered target and send traffic to only healthy Targets.
- Deleting ELB won't delete the targets associated to it.
- Supports SSL offloading which allow ELB to bypass SSL termination by removing SSL based encryption.

# *Terraform : Deployment Automation*

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# ***Terraform : Deployment Automation***

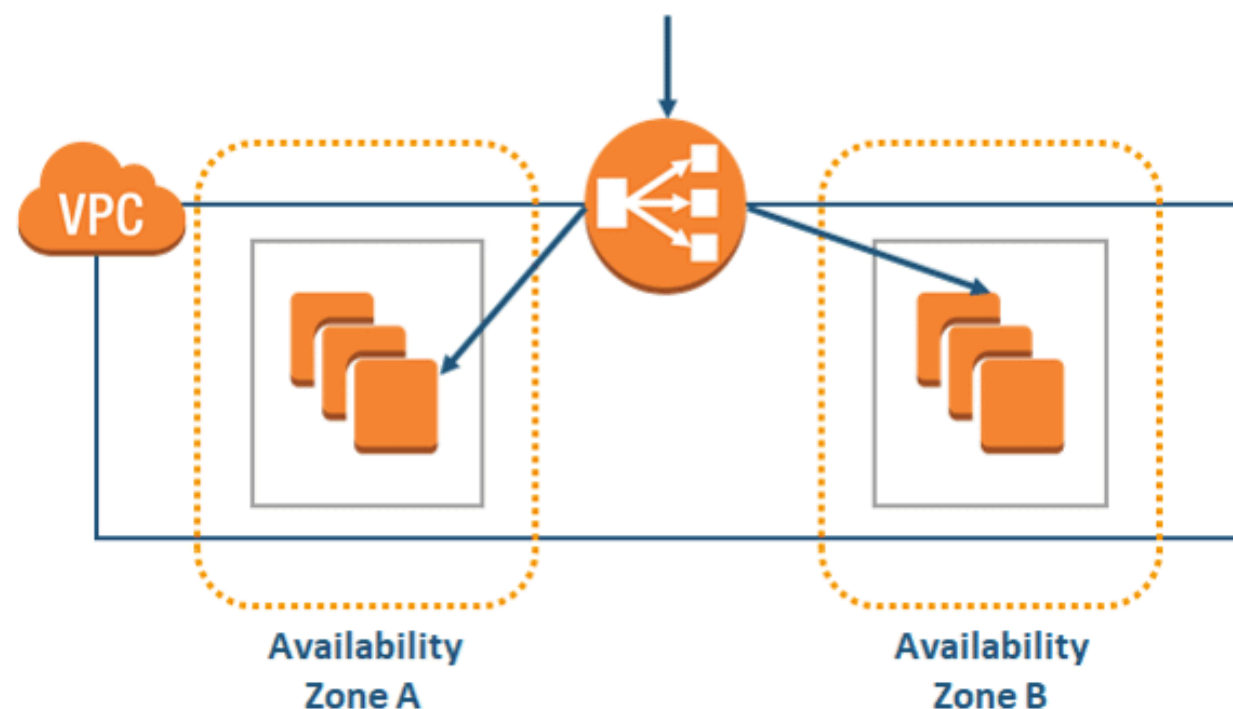
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- **Types of AWS Elastic Load Balancers :**
  - Classic Load Balancer
  - Network Load Balancer
  - Application Load Balancer
- **Classic Load Balancer** - Used for EC2 Classic Instances only.
- This is the previous generation's load balancer and also it doesn't allow host-based or path based routing.
- Routing decisions can be taken in transport layer (TCP/SSL) or the application layer (HTTP/HTTPS).
- Classic Load Balancers require a fixed connection between the load balancer port and container instance port.

## *Terraform : Deployment Automation*

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- **Network Load Balancer** : Works at Forth Layer of OSI, it uses TCP and UDP connections only.
- It can handle millions of requests per second.
- Support the Static IP address for Load Balancer.
- It supports routing request to multiple applications on single EC2 Instance.



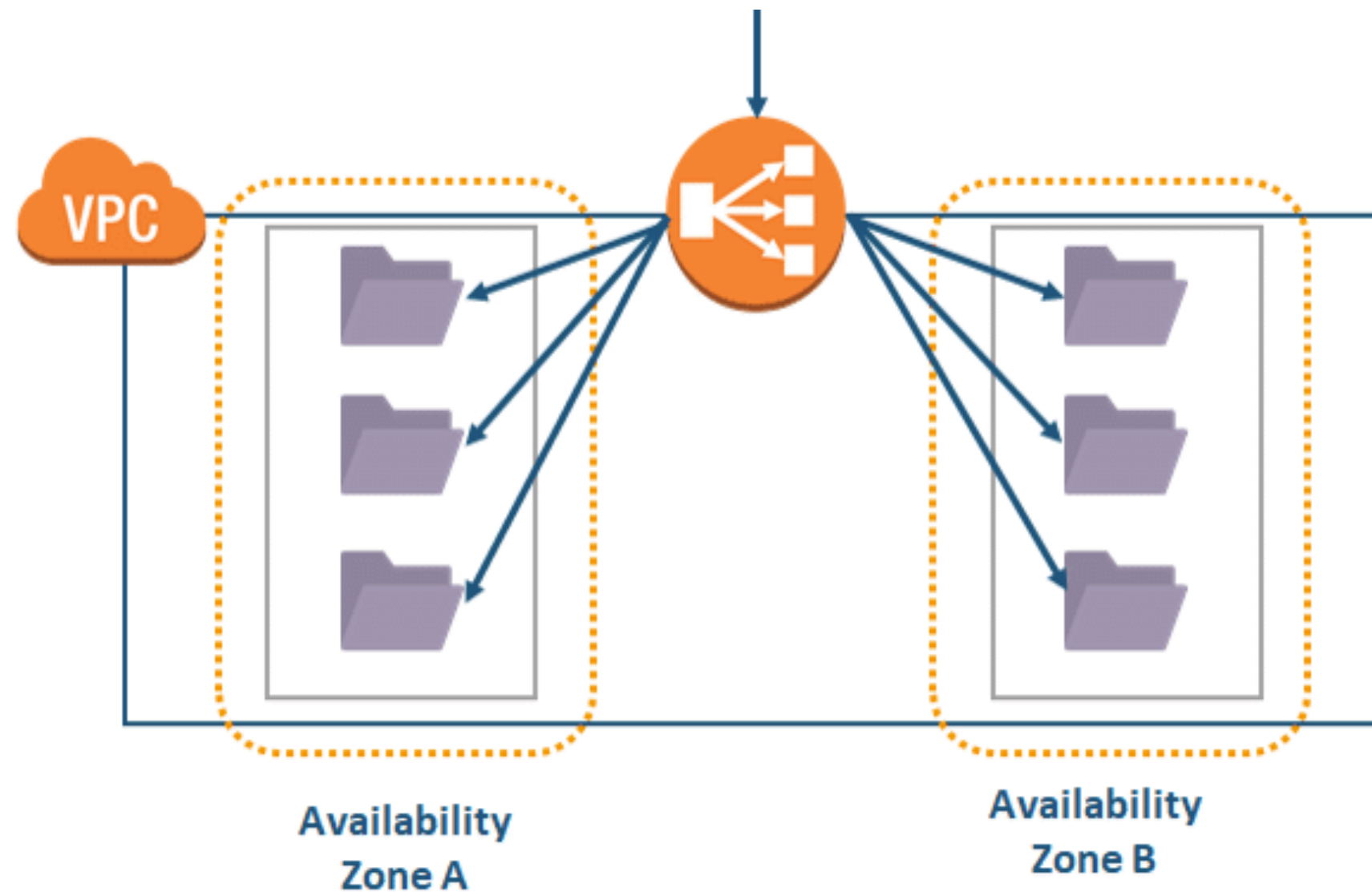
## ***Terraform : Deployment Automation***

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- **Application Load Balancer** : Application Load Balancer in AWS makes routing decisions at the application layer (HTTP/HTTPS) of the OSI model.
- ALB supports path-based and host-based routing.
- Cross-Zone load balancing is enabled.

# *Terraform : Deployment Automation*

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*Will see you in Next Lecture...*

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*Thank you!*

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The hand is positioned on the right side of the frame, with the index and thumb fingers visible, holding the marker. The marker's tip is just finishing the exclamation point. The background is a plain, light-colored surface.

*See you in next lecture ...*