

Launch an ALB in AP-South-1 region and load balance the traffic to 2 EC2 instances: -

1: - Created a VPC: -

VPC > Your VPCs > vpc-033617617f80c84eb

vpc-033617617f80c84eb / ALB-VPC

Actions ▼

Details Info

VPC ID vpc-033617617f80c84eb	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0df9df869be88922e	Main route table rtb-035483f822b30dc85	Main network ACL acl-0be5ec4d39c98b2d0
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 975050349146	

2: - Created an Internet Gateway: -

Internet gateways (1) Info

Search

< 1 > ⚙

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID
<input type="checkbox"/>	IGTW-ALB	igw-0dc406570d531c397	Attached	vpc-033617617f80c84eb ALB-VPC

3: - Created a Two Public Subnets: -

Subnets (2) Info

Find resources by attribute or tag

Subnet ID : subnet-0f8ca39bc80c93b32 X Subnet ID : subnet-00b85e9ba235b6da1 X Clear filters

< 1 > ⚙

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CII
<input type="checkbox"/>	ALB-PUBLIC-Subnet-02	subnet-00b85e9ba235b6da1	Available	vpc-033617617f80c84eb ALB-...	10.0.2.0
<input type="checkbox"/>	ALB-PUBLIC-Subnet-01	subnet-0f8ca39bc80c93b32	Available	vpc-033617617f80c84eb ALB-...	10.0.1.0

4: - Created A route table: -

rtb-0919597935386e4ab / ALB :- RT-PUBLIC Actions ▼

Details [Info](#)

Route table ID
rtb-0919597935386e4ab

VPC
vpc-033617617f80c84eb | ALB-VPC

Main
No

Owner ID
975050349146

Explicit subnet associations
[2 subnets](#)

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both ▼ Edit routes

Destination ▼

Target ▼

Status ▼

Propagated ▼

0.0.0.0/0	igw-0dc406570d531c397	Active	No
10.0.0.0/16	local	Active	No

- Created a route table for public subnets and added internet gateway access to the subnets.

rtb-0919597935386e4ab / ALB :- RT-PUBLIC Actions ▼

Details [Info](#)

Route table ID
rtb-0919597935386e4ab

VPC
vpc-033617617f80c84eb | ALB-VPC

Main
No

Owner ID
975050349146

Explicit subnet associations
[2 subnets](#)

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (2)

Edit subnet associations

Name ▼

Subnet ID ▼

IPv4 CIDR ▼

IPv6 CIDR ▼

ALB-PUBLIC-Subnet-02	subnet-00b85e9ba235b6da1	10.0.2.0/24	-
ALB-PUBLIC-Subnet-01	subnet-0f8ca39bc80c93b32	10.0.1.0/24	-

- Created a route table for subnet association rules in Route Table.

5: - Created a Two EC2 Instances in ap-south region 1:-

Instances (2) Info								Launch instances
Find Instance by attribute or tag (case-sensitive)								
Any state								< 1 > ⚙
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zones	
<input type="checkbox"/>	ALB-01	i-0142c0245d2f582f6	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	
<input type="checkbox"/>	ALB-02	i-04b60ce9692712bc9	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	

- In this Ec2 instances I created a security group of Web-service one is HTTP for web services access.

5: - Created a Target Group for EC2 instances: -

EC2 > Target groups


Target groups (1) Info

Actions ▾

Create target group

Q Filter target groups

< 1 > ⚙

<input type="checkbox"/>	Name ▾	ARN ▾	Port ▾	Protocol ▾	Target type ▾
<input type="checkbox"/>	ALB-TargetGroup	 arn:aws:elasticloadbalanci...	80	HTTP	Instance

6: - Created an Application Load Balancer: -

Load balancers (1)						Create load balancer
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.						
Filter load balancers						< 1 > ⚙
<input type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones	
<input type="checkbox"/>	ALB-LoadBalancer	ALB-LoadBalancer-862997...	Active	vpc-033617617f80c84...	2 Availability Zones	

Details			
Load balancer type Application	Status Active	VPC vpc-033617617f80c84eb	IP address type IPv4
Scheme Internet-facing	Hosted zone ZP97RAFLXTNZK	Availability Zones subnet-00b85e9ba235b6da1 ap-south-1b (aps1-az3) subnet-0f8ca39bc80c93b32 ap-south-1a (aps1-az1)	Date created February 2, 2024, 22:33 (UTC+05:30)
Load balancer ARN arn:aws:elasticloadbalancing:ap-south-1:975050349146:loadbalancer/app/ALB-LoadBalancer/1cf305a587495fd7		DNS name Info ALB-LoadBalancer-862997473.ap-south-1.elb.amazonaws.com (A Record)	

