

## TASK – 17

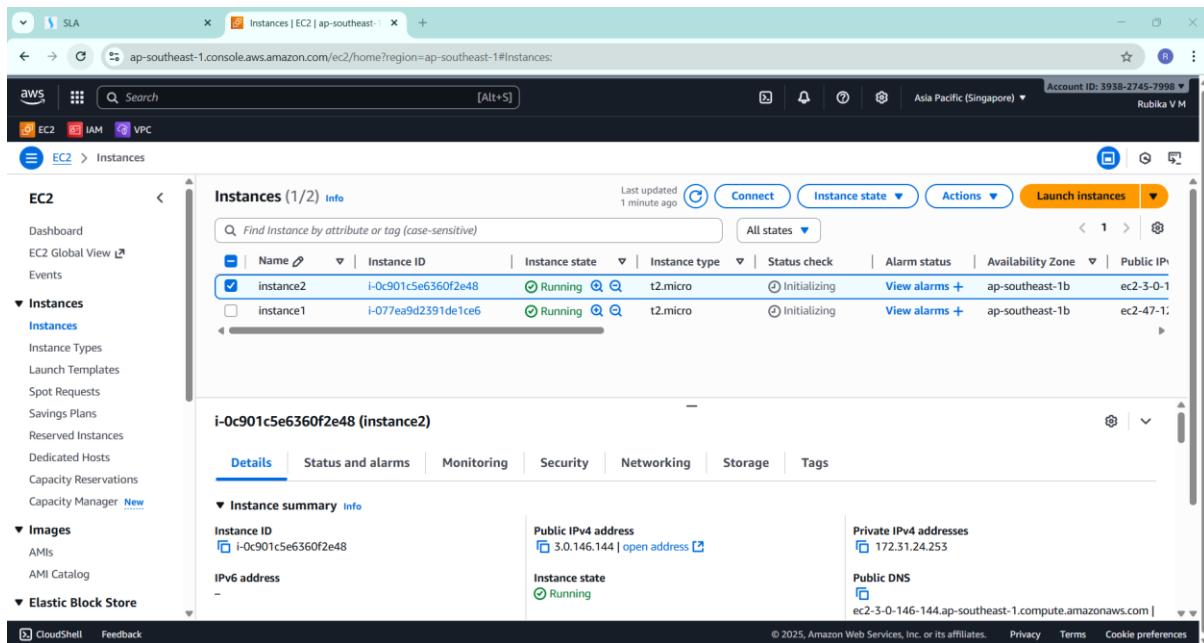
### Elastic load balancer

Elastic Load Balancing (ELB) in AWS is a service that automatically distributes incoming application traffic across multiple targets, such as EC2 instances, containers, and IP addresses, within one or more Availability Zones. It enhances application availability and fault tolerance by ensuring that no single target is overwhelmed with traffic and by routing requests only to healthy targets.

### Classic load balancer

The AWS Classic Load Balancer (CLB) is a legacy load balancing service that distributes incoming application traffic across multiple Amazon EC2 instances. It operates at both the connection level (Layer 4, TCP/SSL) and the request level (Layer 7, HTTP/HTTPS).

### Creation of instance

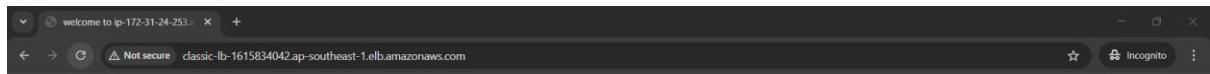


## Creation of CLB

The screenshot shows the AWS Management Console interface for creating a load balancer. The left sidebar includes links for SLA, Instances, Load balancers, EC2, IAM, and VPC. The main content area shows a table of load balancers with one entry named "classic-lb". Below this, a detailed view for "classic-lb" is displayed, showing its configuration: Load balancer type is "Classic", Status is "2 of 2 instances in service", Hosted zone is "211MS01DRCM1EE", VPC is "vpc-00aa32b792ae81dee", and it was created on "October 22, 2025, 20:35 (UTC+05:30)".

## Outcome

The screenshot shows a web browser window with the URL "classic-lb-1615834042.ap-southeast-1.elb.amazonaws.com". The page content is "hello from ip-172-31-17-81.ap-southeast-1.compute.internal".



hello from ip-172-31-24-253.ap-southeast-1.compute.internal

## Changing port number for HTTPD

A screenshot of the AWS Management Console EC2 Instances page. The left sidebar shows navigation options like Dashboard, EC2 Global View, Instances, Images, and Elastic Block Store. The main content area shows a table of instances. One instance is selected, labeled "i-0a872cc2a2a961fa2", which is "Running" and has an "t2.micro" instance type. The instance summary details show the Public IPv4 address as 18.142.47.173 and the Private IPv4 address as 172.31.26.51. The Public DNS is listed as ec2-18-142-47-173.ap-southeast-1.compute.amazonaws.com.

```

# same ServerRoot for multiple httpd daemons, you will need to change at
# least PidFile.
#
ServerRoot "/etc/httpd"

#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the <VirtualHost>
# directive.
#
# Change this to Listen on a specific IP address, but note that if
# httpd.service is enabled to run at boot time, the address may not be
# available when the service starts. See the httpd.service(8) man
# page for more information.
#
#Listen 12.34.56.78:84
Listen 84

#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a DSO you
# have to place corresponding 'LoadModule' lines at this location so the
# directives contained in it are actually available _before_ they are used.

^G Help          ^C Write Out    ^F Where Is     ^R Cut           ^E Execute      ^L Location      M-U Undo       M-A Set Mark   M-J To Bracket
^X Exit          ^R Read File    ^V Replace      ^U Paste         ^D Justify      ^K Go To Line   M-E Redo       M-B Copy        M-B Where Was  M-I Previous
^Q              ^S              ^T              ^W              ^O              ^P              M-G Copy        M-N Next

```

i-0a872cc2a2a961fa2 (instance)

Public IPs: 18.142.47.173 Private IPs: 172.31.26.51

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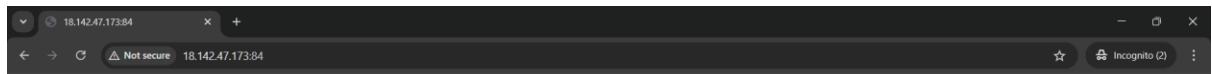
### Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules <small>Info</small>		Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>
Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>		
sgr-023c5af2c5012cf76	SSH	TCP	22	Custom	<input type="text" value="0.0.0.0"/> <span>X</span>	<span>Delete</span>
sgr-0c0cd5035b0ce740e	Custom TCP	TCP	84	Custom	<input type="text" value="0.0.0.0"/> <span>X</span>	<span>Delete</span>

Add rule Cancel Preview changes Save rules

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**It works!**