TASK – 17

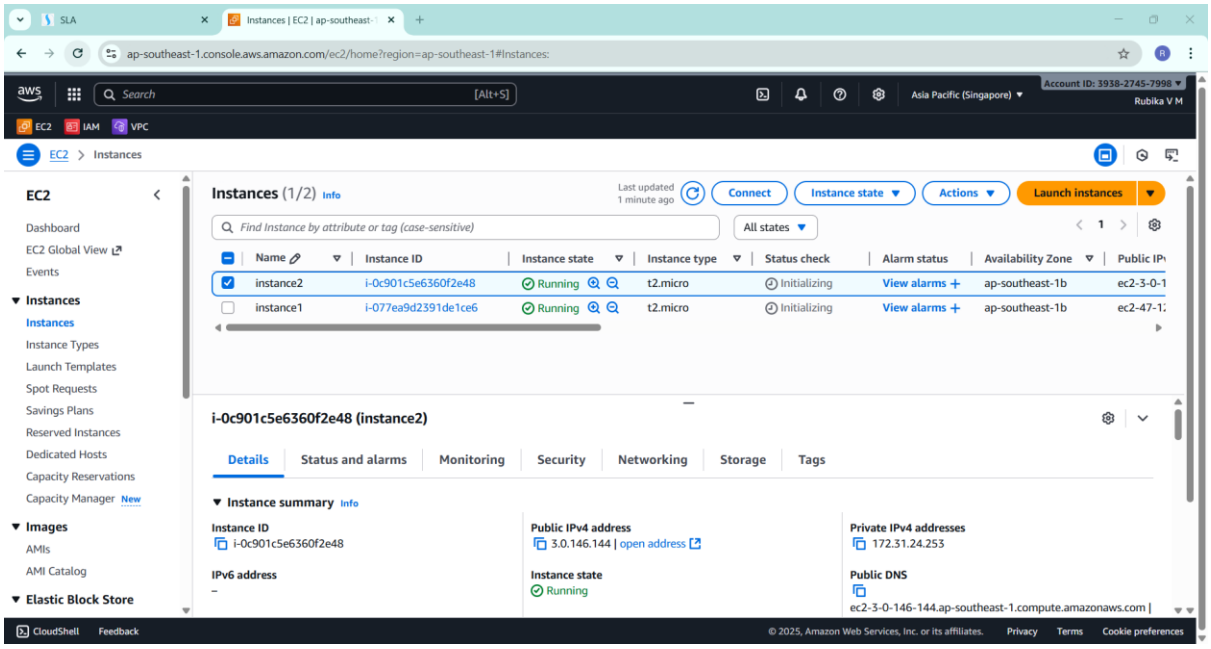
Elastic load balancer

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.

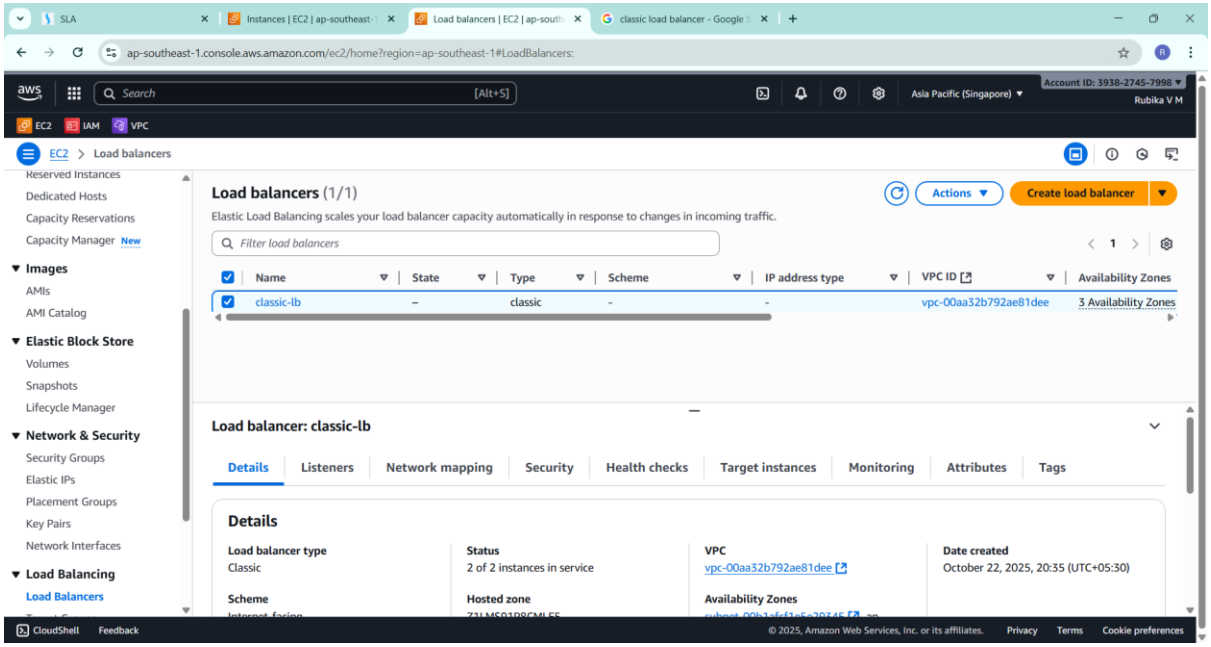
Classic load balancer

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

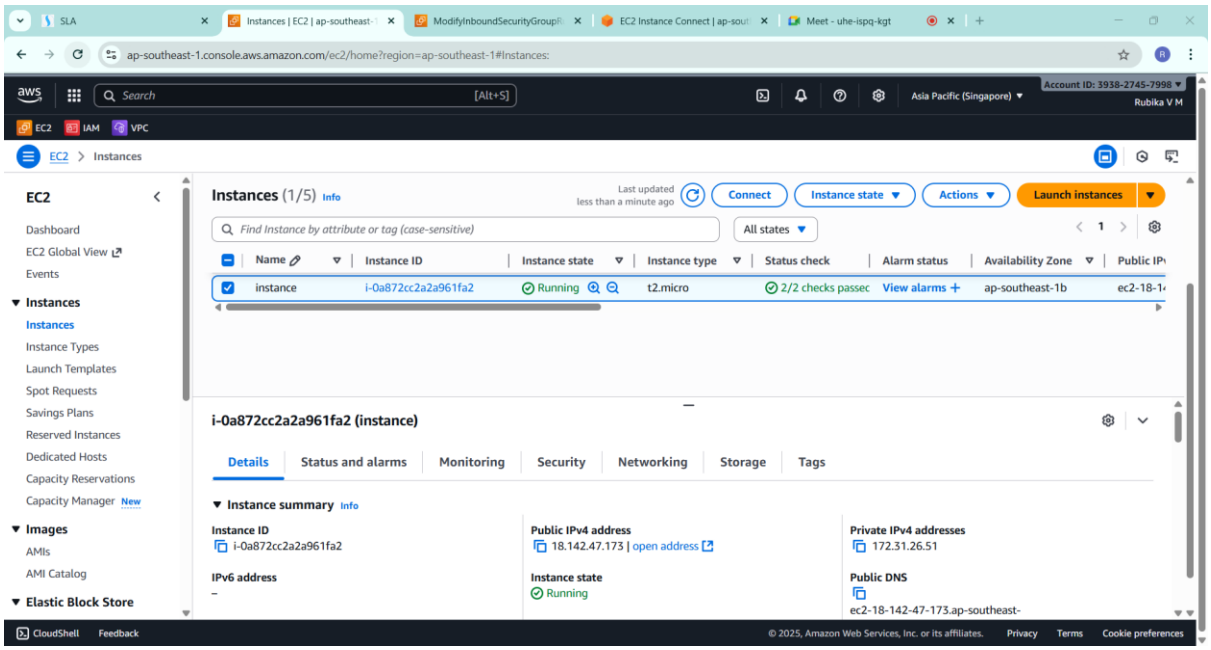


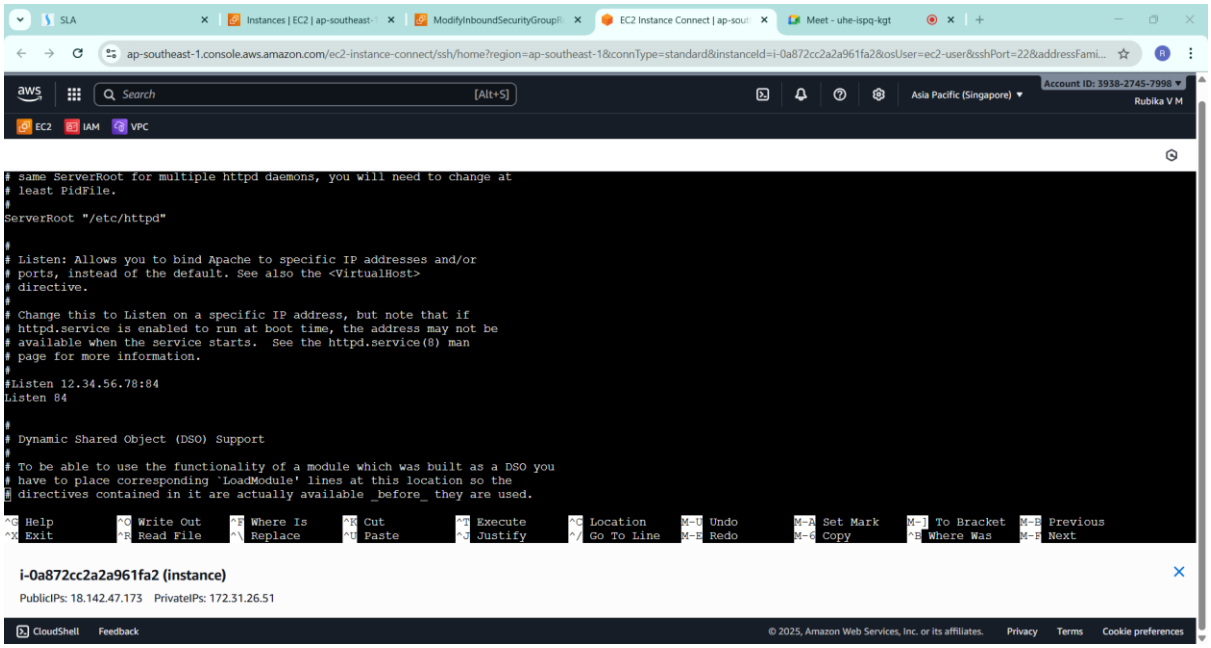
Outcome

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




ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-southeast-1&connType=standard&instanceId=i-0a872cc2a2a961fa2&osUser=ec2-user&sshPort=22&addressFami...
Search
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Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2
IAM
VPC
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 ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-B Previous
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^B Where Was M-F Next
i-0a872cc2a2a961fa2 (instance)
PublicIPs: 18.142.47.173 PrivateIPs: 172.31.26.51
CloudShell
Feedback
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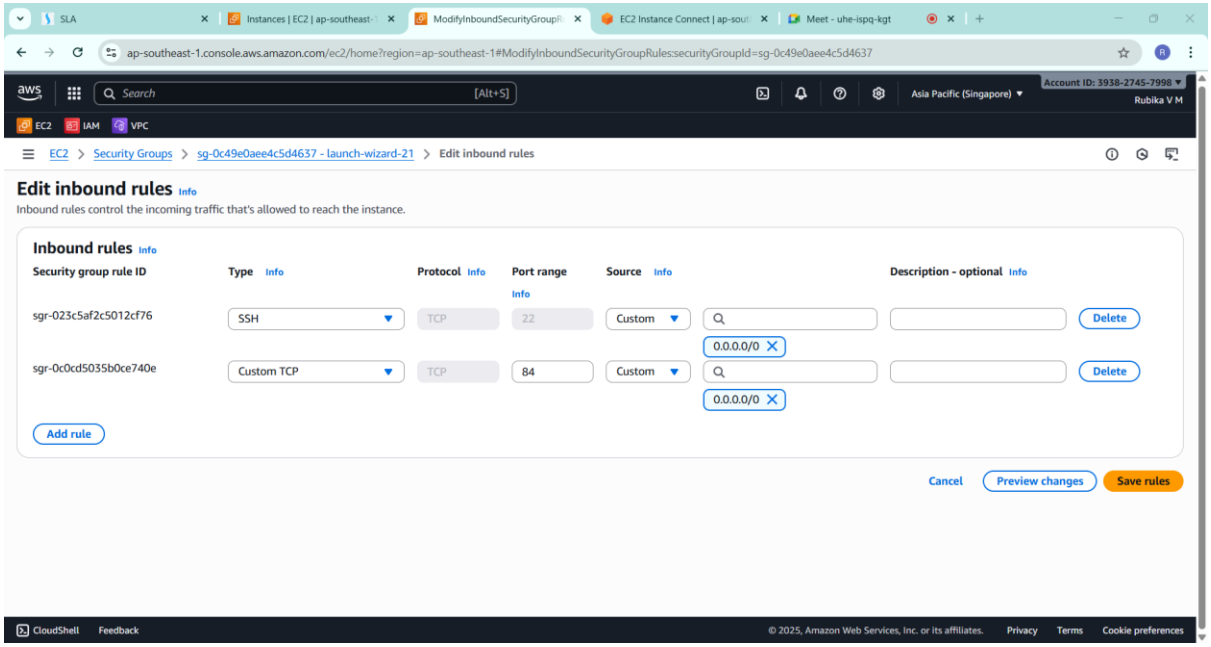
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0c49e0aee4c5d4637
Search
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Asia Pacific (Singapore)
Account ID: 3938-2745-7998
Rubika V M
EC2
IAM
VPC
EC2 > Security Groups > sg-0c49e0aee4c5d4637 - launch-wizard-21 > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-023c5af2c5012cf76
SSH
TCP
22
Custom
0.0.0.0/0
Delete
sgr-0c0cd5035b0ce740e
Custom TCP
TCP
84
Custom
0.0.0.0/0
Delete
Add rule
Cancel
Preview changes
Save rules
CloudShell
Feedback
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It works!