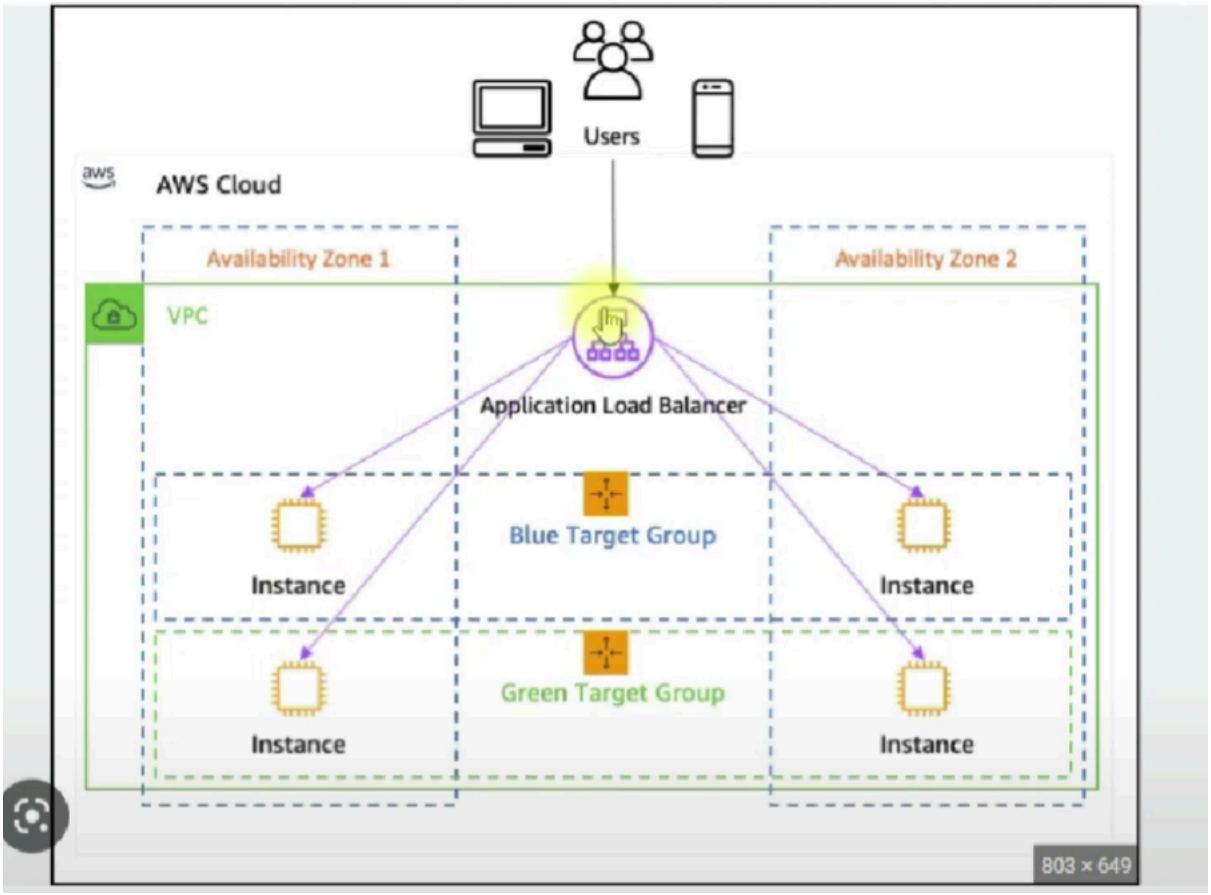
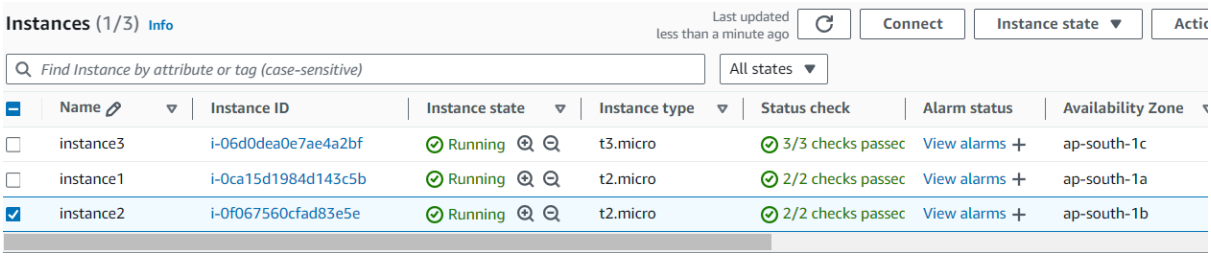
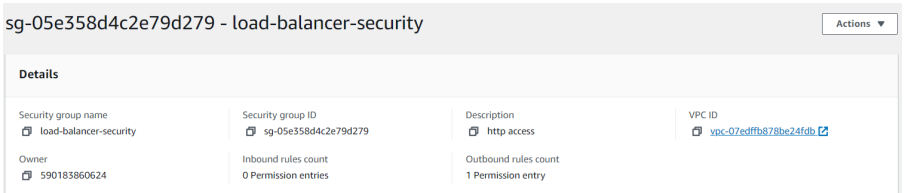
Load Balancer



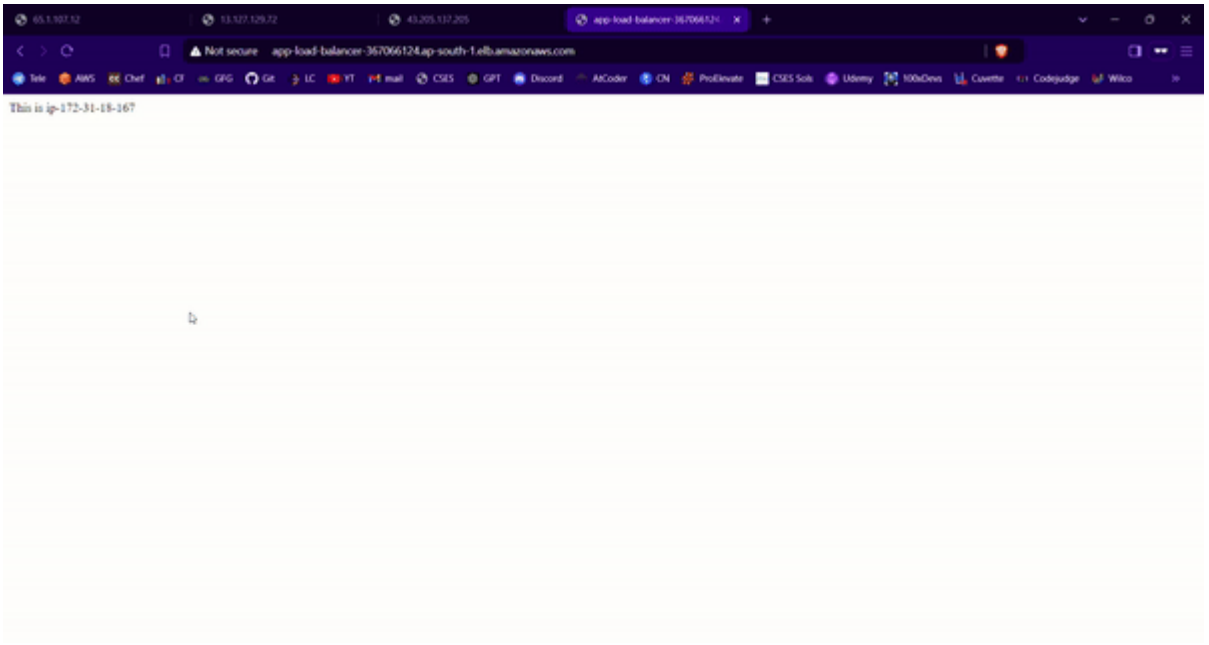


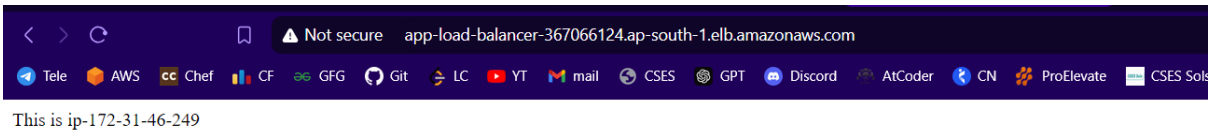
3 Instance Created .

Creating a Security Group.



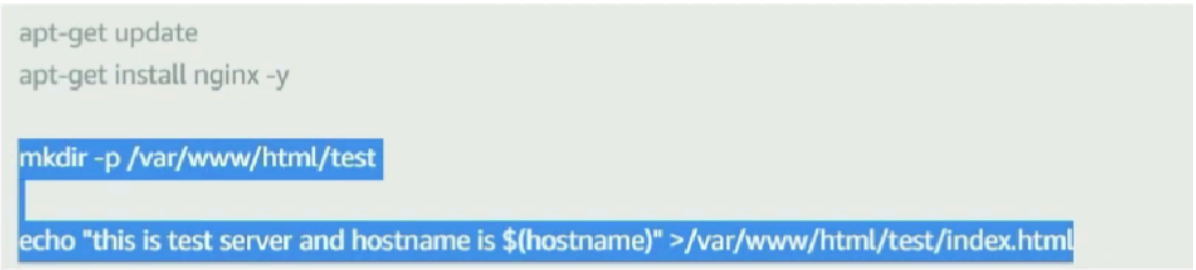
Create a Target Group. Add all the 3 instance.
Create Application Load Balancer.
Select Target Group created Earlier.





This is ip-172-31-46-249

Path Base Routing in Application Load Balancer



ath-based routing in an **Application Load Balancer (ALB)** allows you to route traffic to different targets based on the

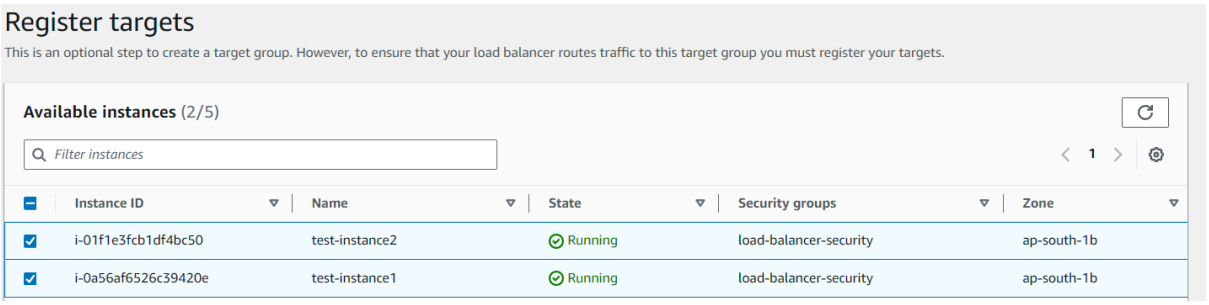
URL path of the request. This is useful when you want to send traffic to different backend services (target groups) depending on the path in the URL.

Use Cases

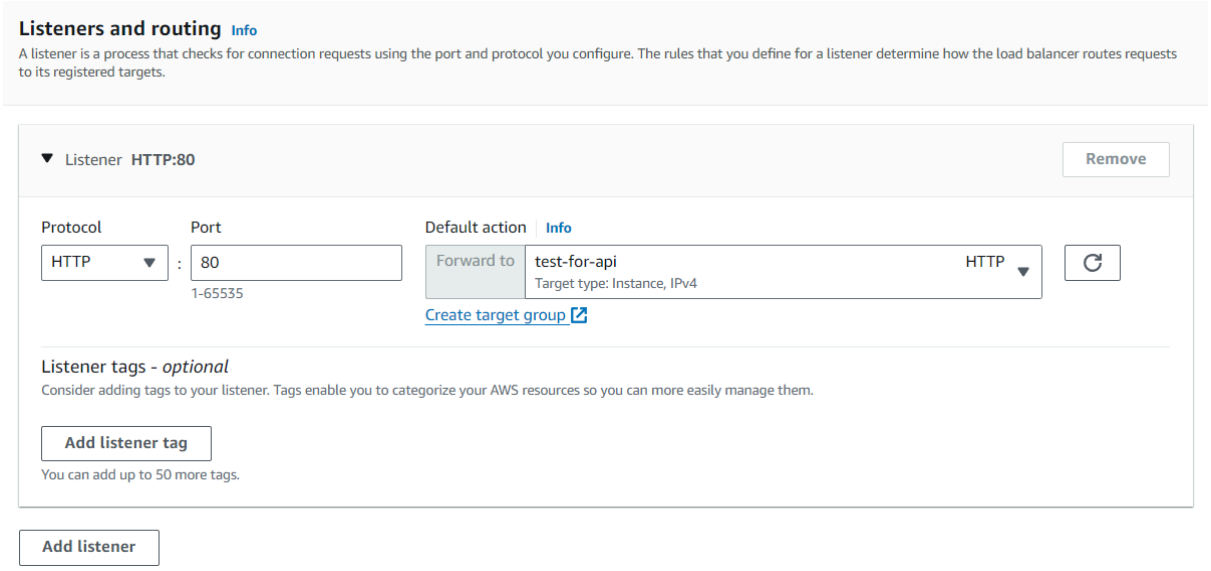
- **Microservices**: Route traffic to different services based on the request path (e.g., `/api` goes to one service, `/static` goes to another).
- **Multi-Tenant Applications**: Serve different applications or versions based on the URL path (e.g., `/app1` vs `/app2`).
- **Web Applications**: Send API requests and static content requests to different target groups (e.g., `/api/` to backend servers and `/images/` to a CDN or separate service).

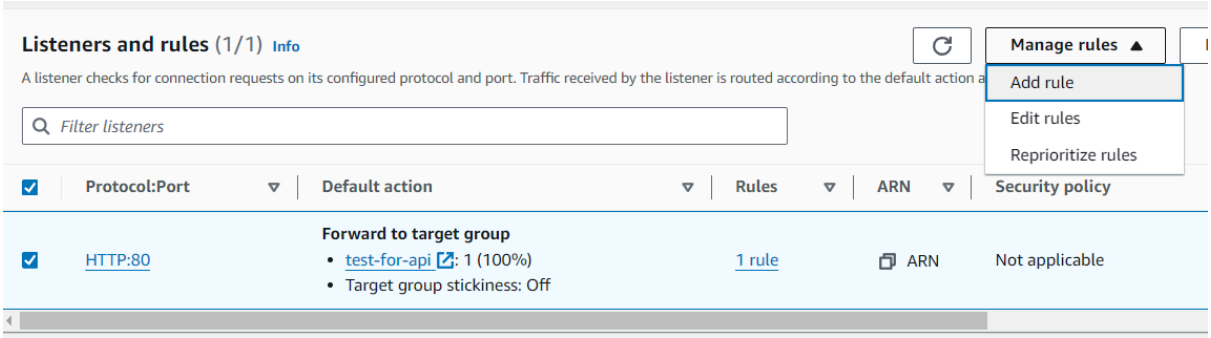
Creating another load balancer ..which on hitting /api goes to another instance.
For that lets build two test instances ..which will be connected to another Load balancer.

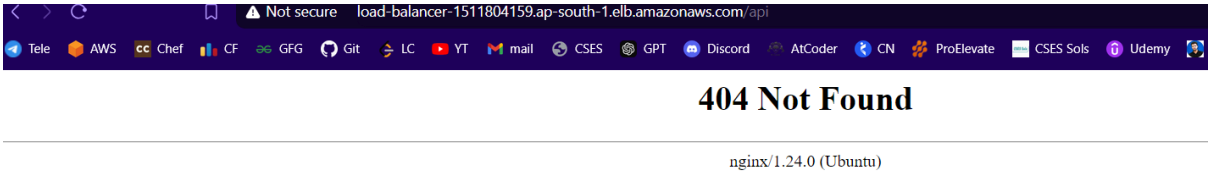
Created a target Group.

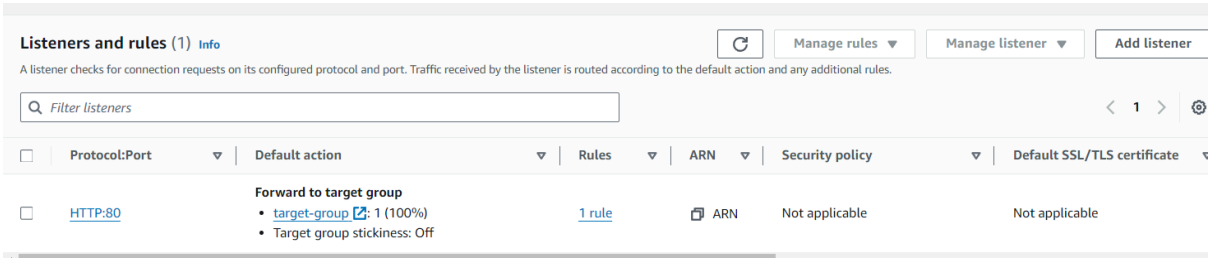


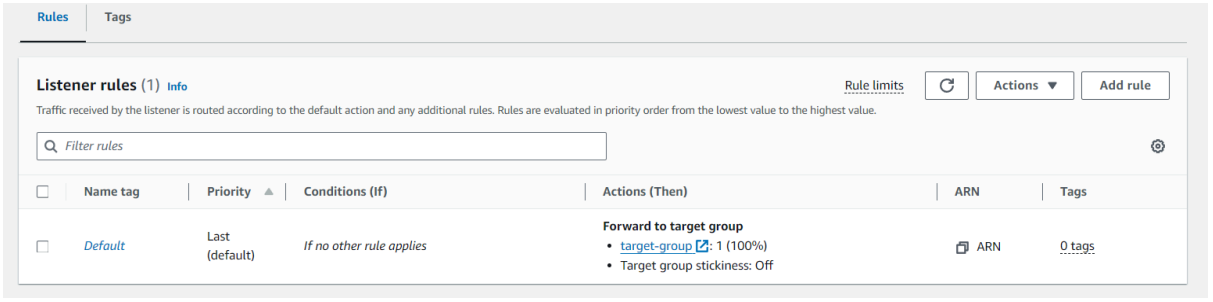
Select the target Group.

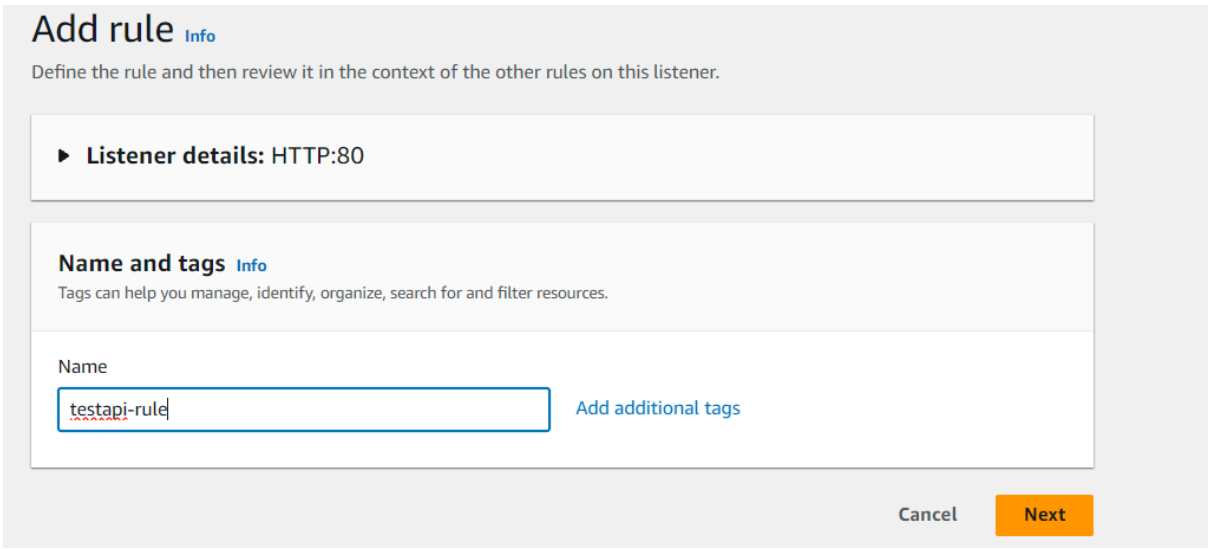







Listeners and rules (1) Info
Manage rules
Manage listener
Add listener
A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.
Filter listeners
1
Protocol:Port
Default action
Rules
ARN
Security policy
Default SSL/TLS certificate
HTTP:80
Forward to target group
target-group: 1 (100%)
Target group stickiness: Off
1 rule
ARN
Not applicable
Not applicable


Rules
Tags
Listener rules (1) Info
Rule limits
Actions
Add rule
Traffic received by the listener is routed according to the default action and any additional rules. Rules are evaluated in priority order from the lowest value to the highest value.
Filter rules
Name tag
Priority
Conditions (If)
Actions (Then)
ARN
Tags
Default
Last (default)
If no other rule applies
Forward to target group
target-group: 1 (100%)
Target group stickiness: Off
ARN
0 tags


Add rule Info
Define the rule and then review it in the context of the other rules on this listener.
Listener details: HTTP:80
Name and tags Info
Tags can help you manage, identify, organize, search for and filter resources.
Name
testapi-rule
Add additional tags
Cancel
Next

Actions

Action types

Routing actions

Forward to target groups

Redirect to URL

Forward to target group | Info

Choose a target group and specify routing weight or Create target group.

Target group

We

target-group-api HTTP

Target type: Instance, IPv4

1

0-9

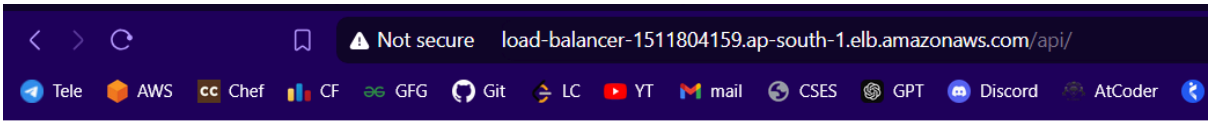
Add target group

You can add up to 4 more target groups.

Target group stickiness | Info

Enables the load balancer to bind a user's session to a specific target group. To use stickiness the cl
bind a user's session to a specific target, turn on the Target Group attribute Stickiness.

Turn on target group stickiness



this is test server and hostname is ip-172-31-1-177

apt-get update
apt-get install nginx -y

mkdir -p /var/www/html/test
echo "this is test server and hostname is $(hostname)" > /var/www/html/test/index.html

Test locally- curl localhost/test