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Scenario : When designing a system, you use the principle of "design for failure and nothing will fail". Implement the AWS Service and Resources to achieve this design principle.

This lab walks you through using the Elastic Load Balancing (ELB) to load balance.

Elastic Load Balancing automatically distributes incoming application traffic across multiple Amazon EC2 instances. It enables you to achieve fault tolerance in your applications by seamlessly providing the required amount of load balancing capacity needed to route application traffic.

Refer scenario attached herewith & perform the following tasks :

1. Create Application Load Balance to balance HTTP traffic

2. Create Network Load Balance to balance HTTP traffic

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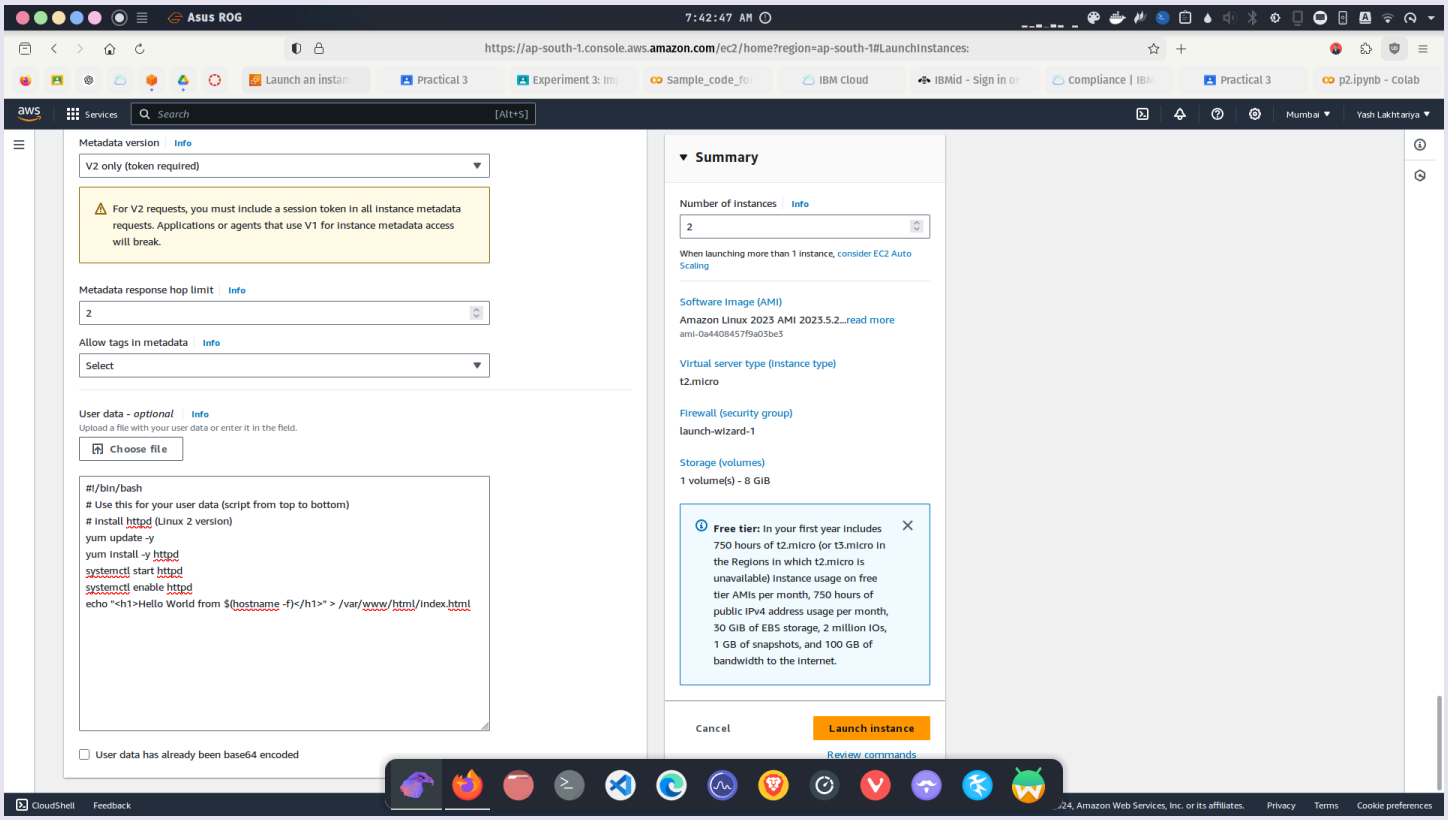
Screenshots and steps :

Launch 2 or more instances with http enabled security group and html server script



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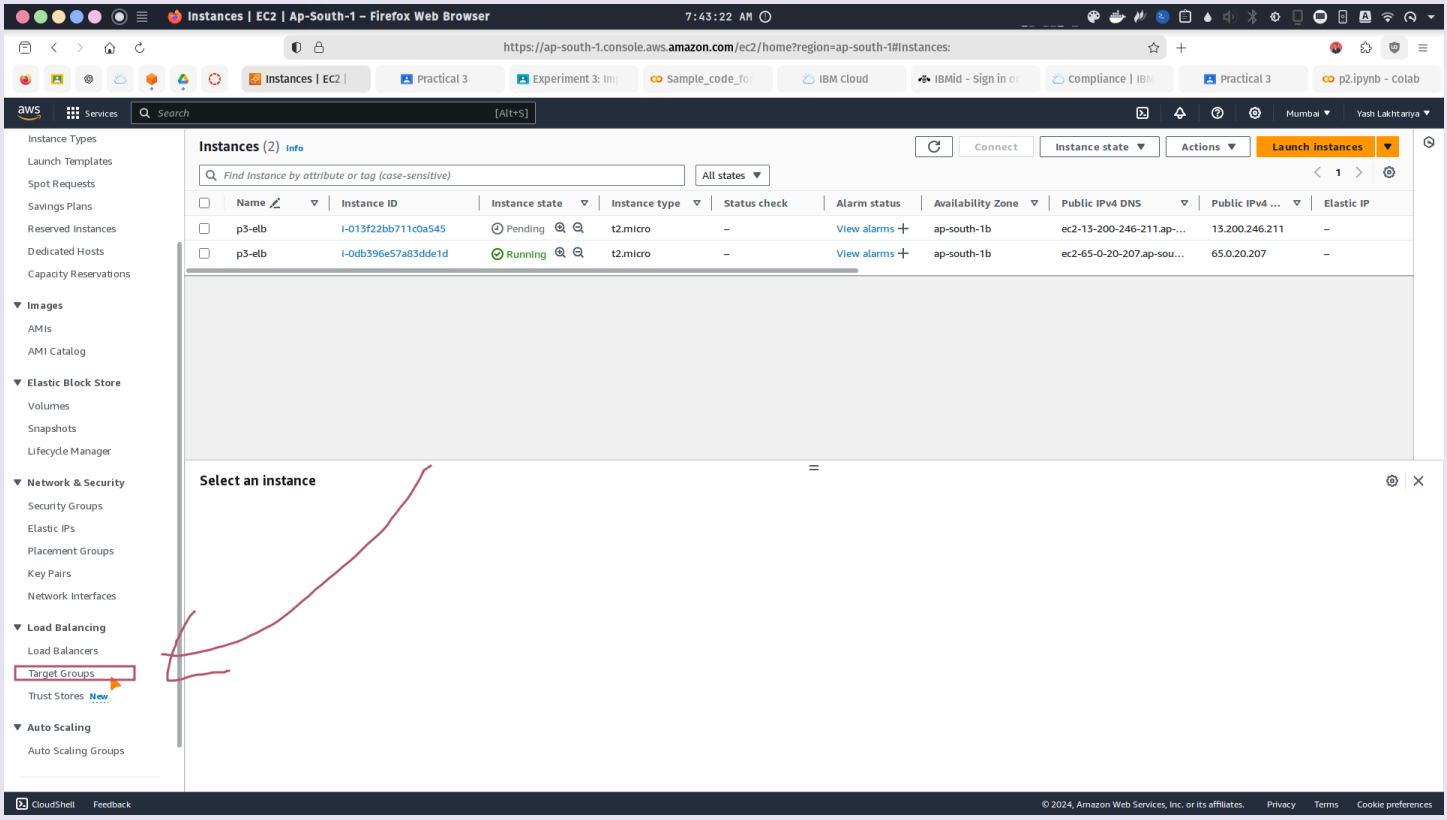

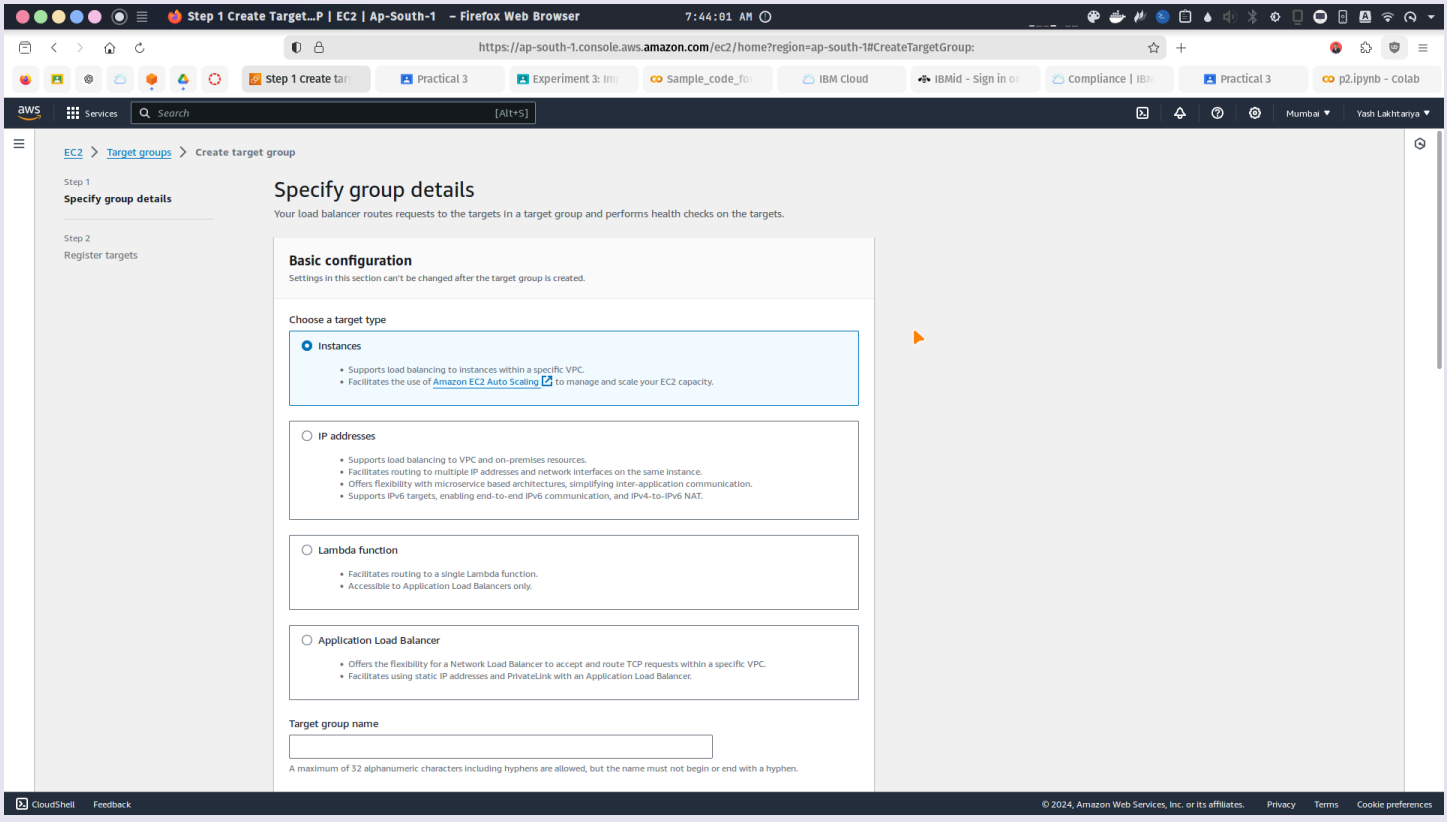

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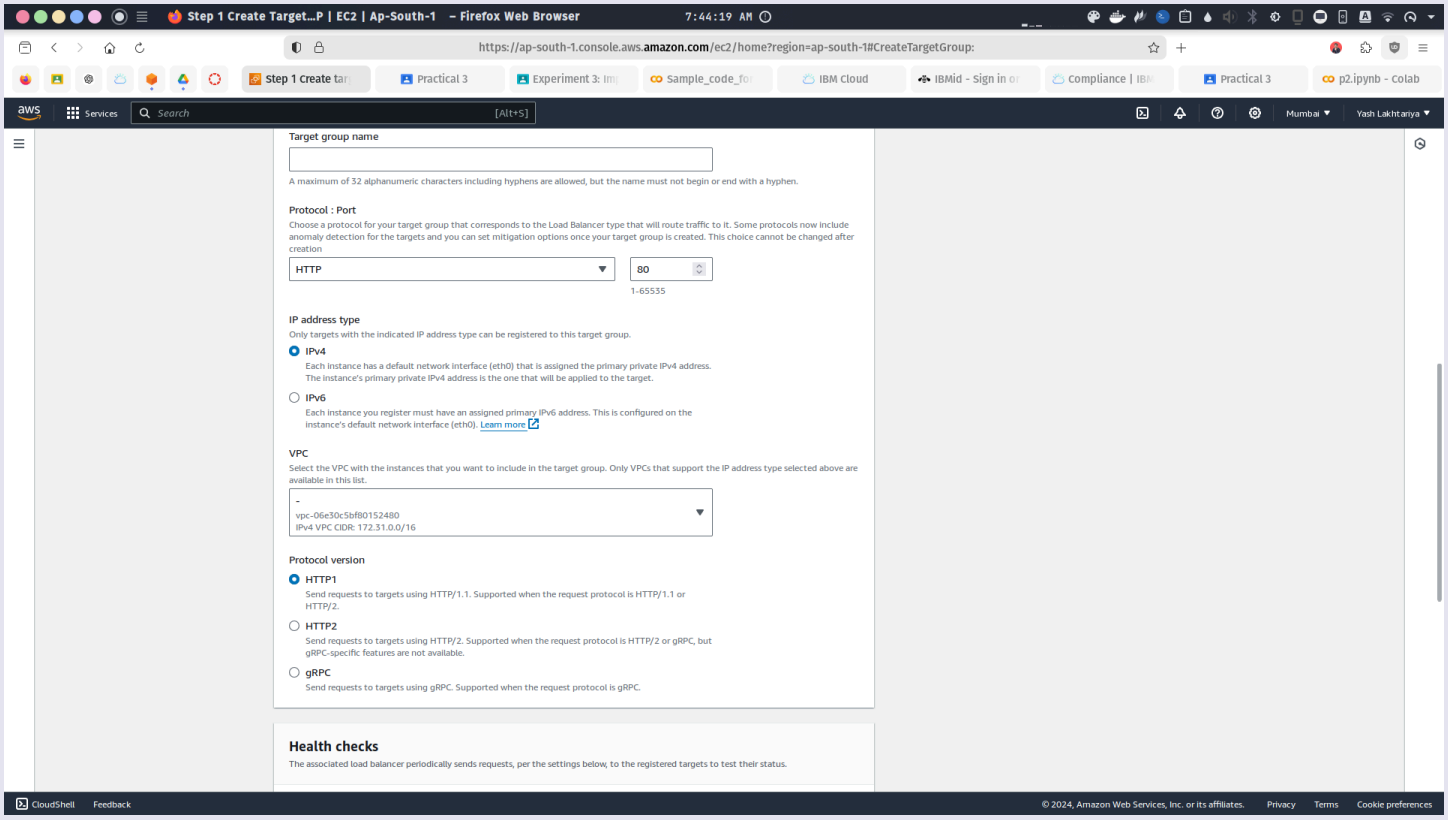

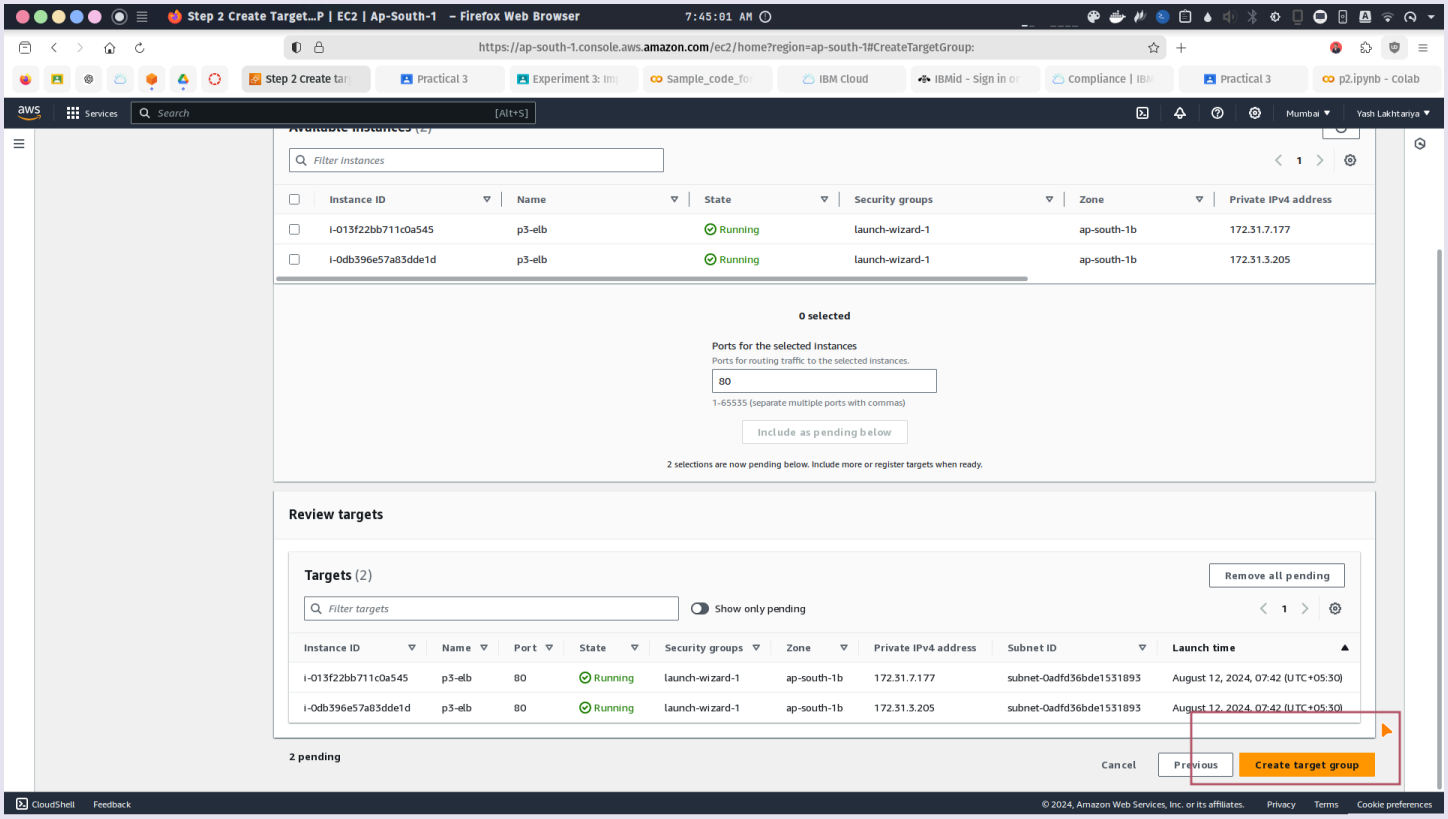

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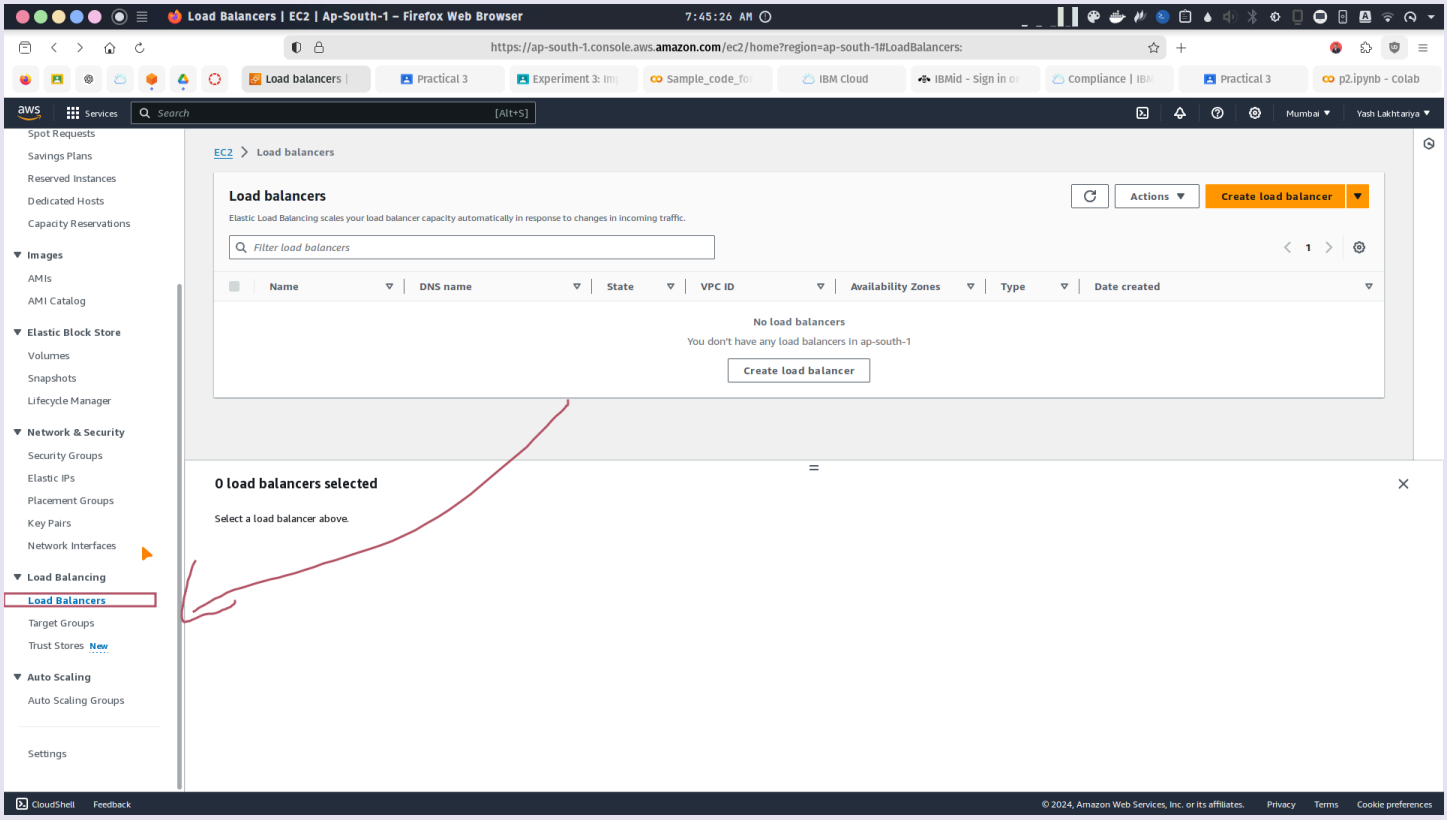

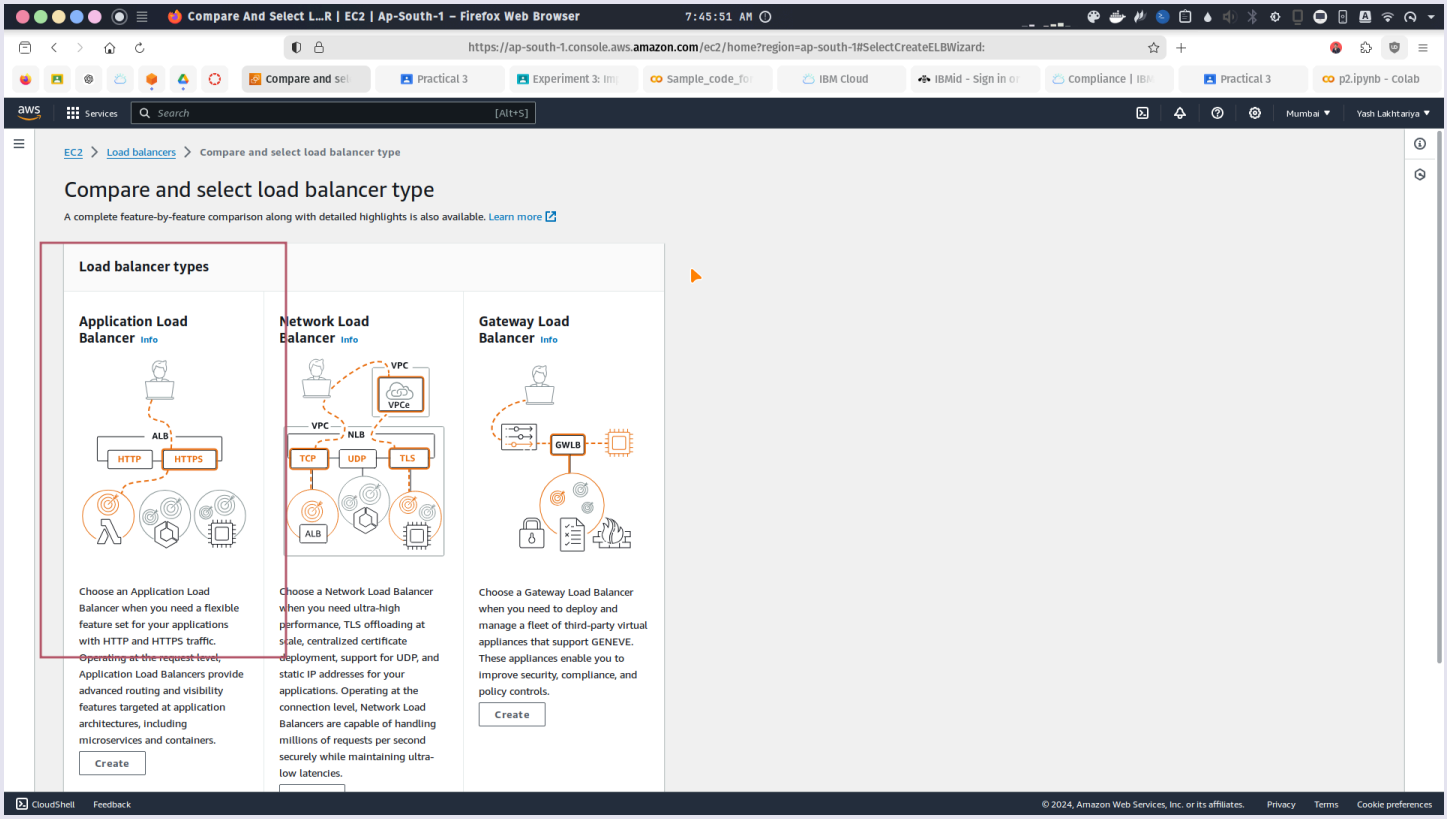

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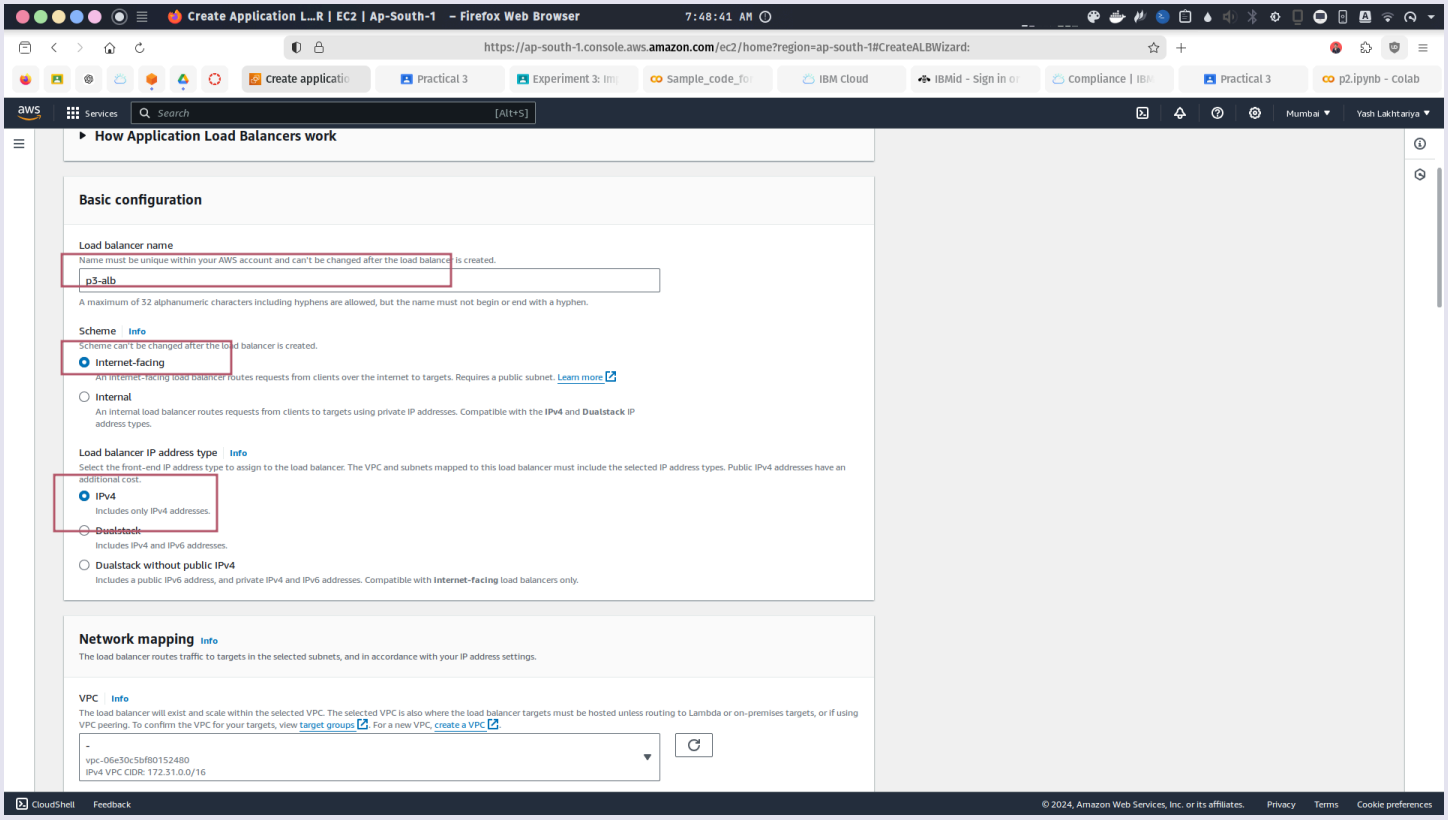

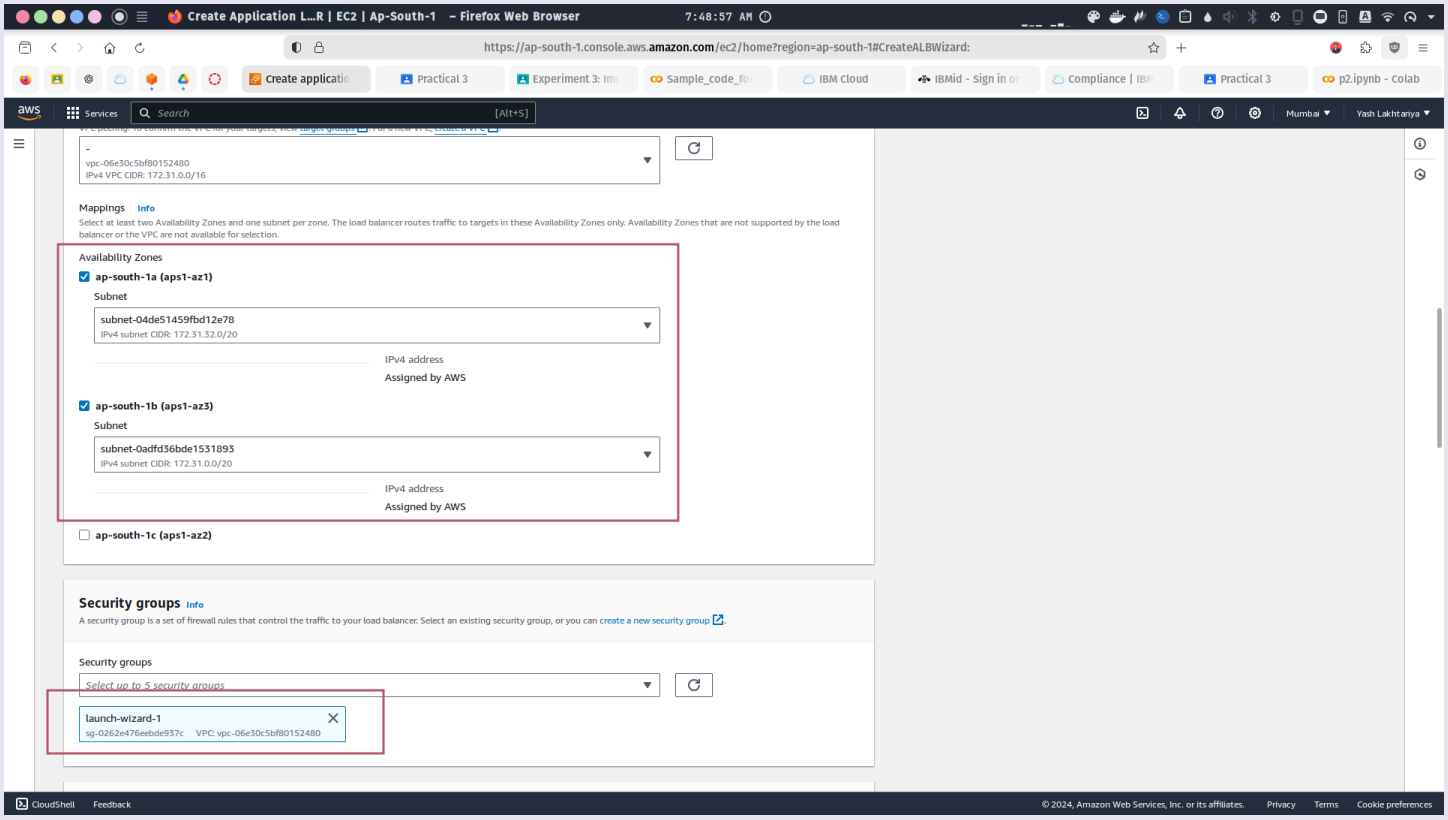

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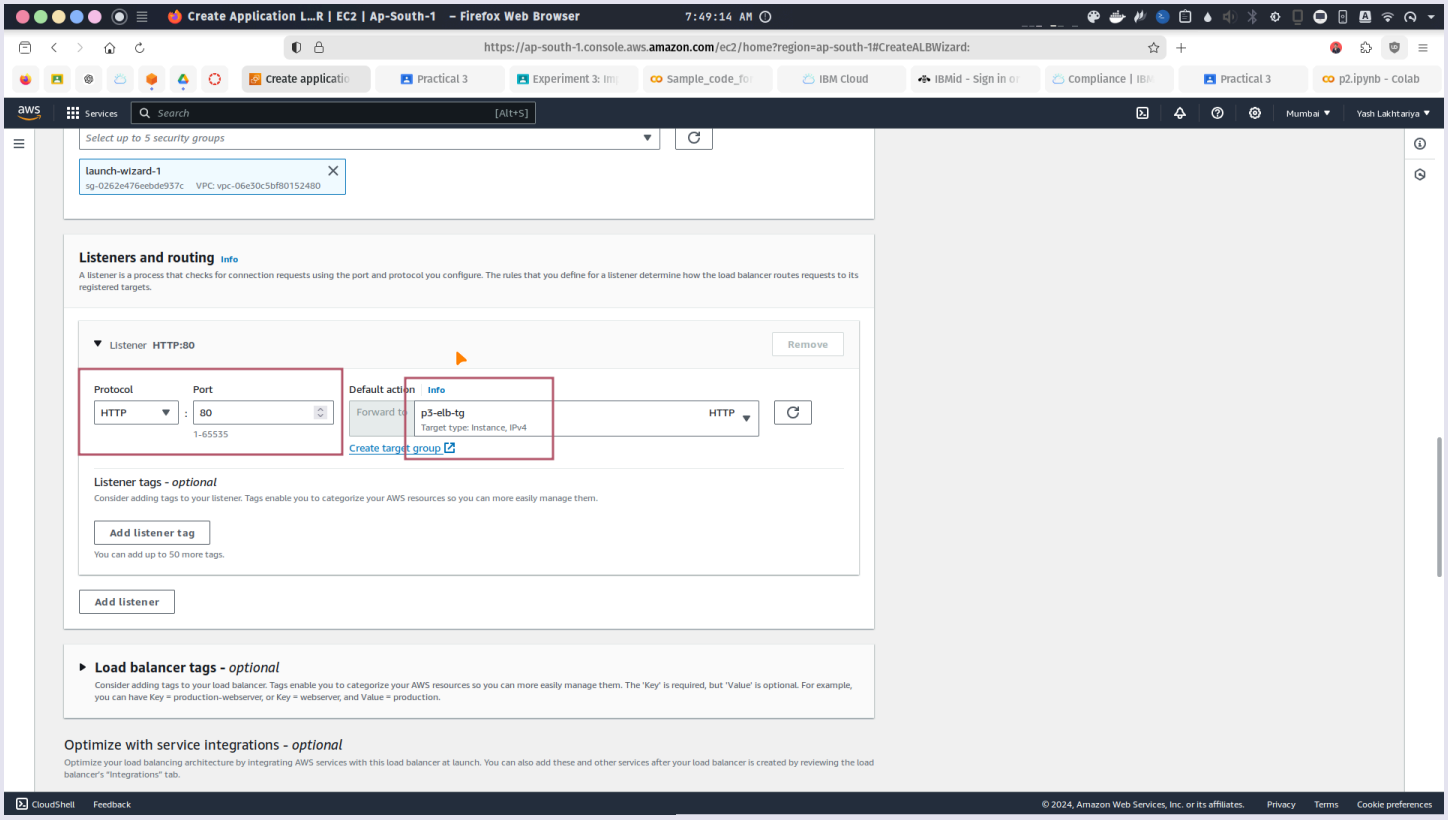

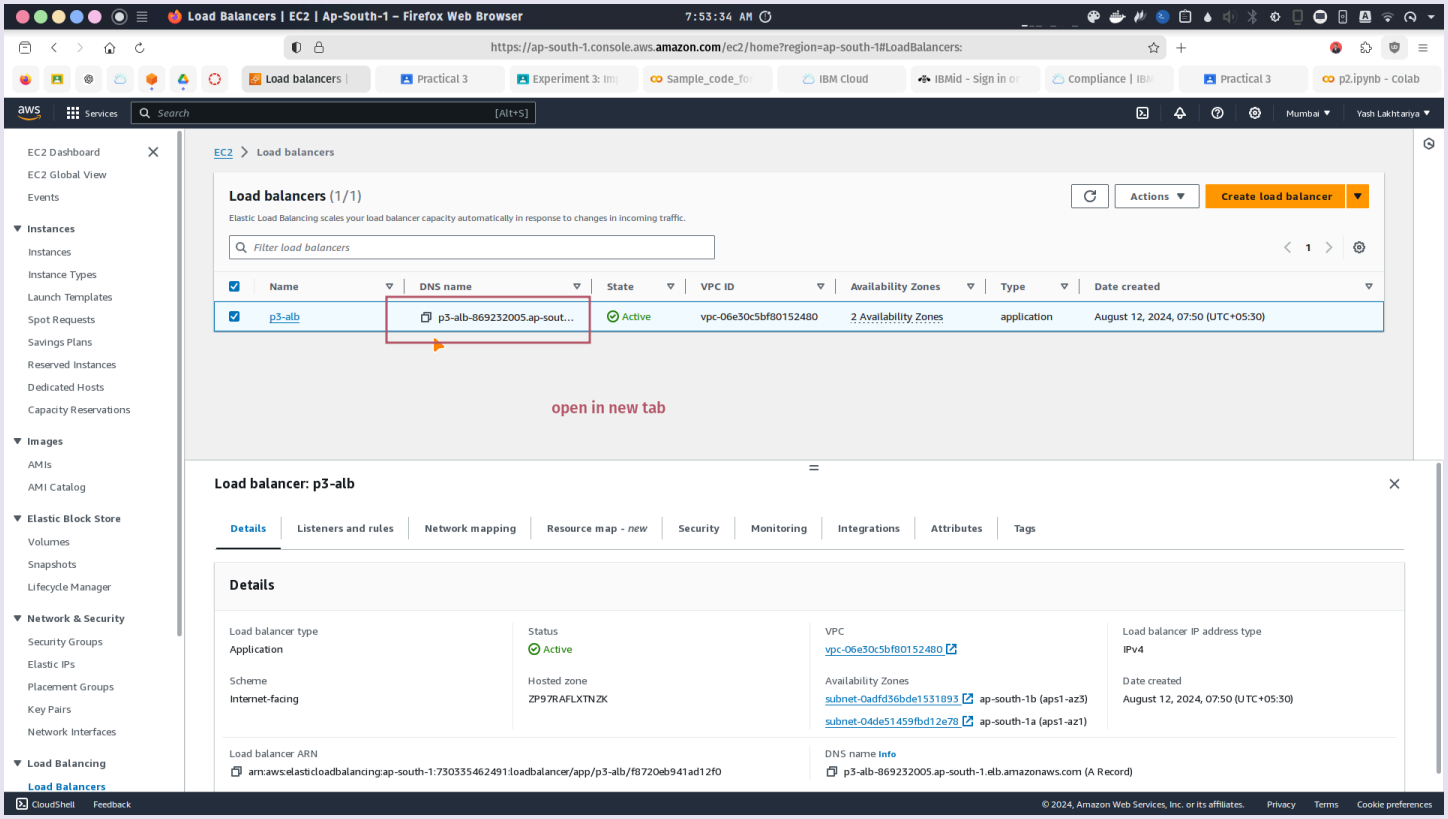

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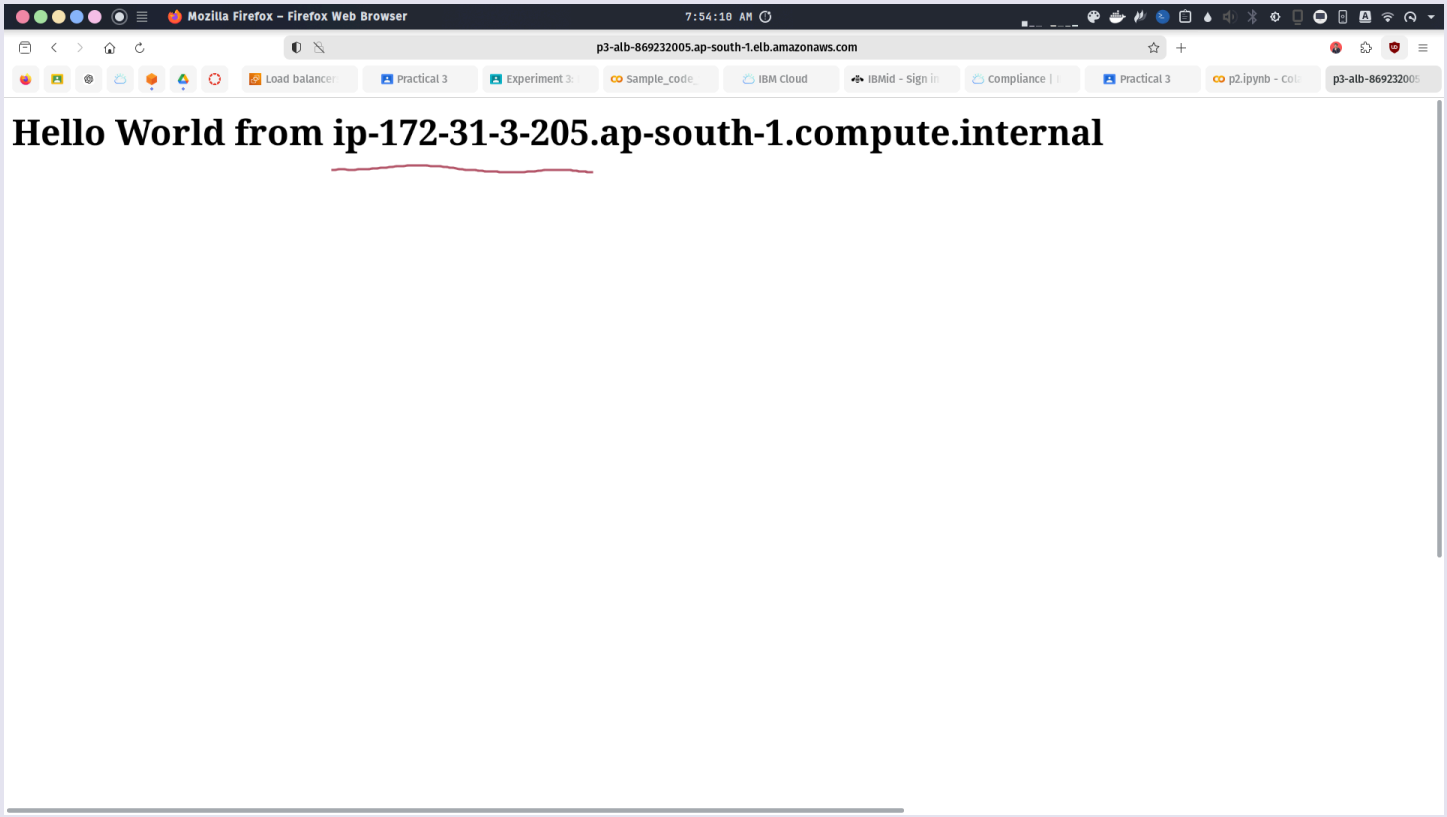

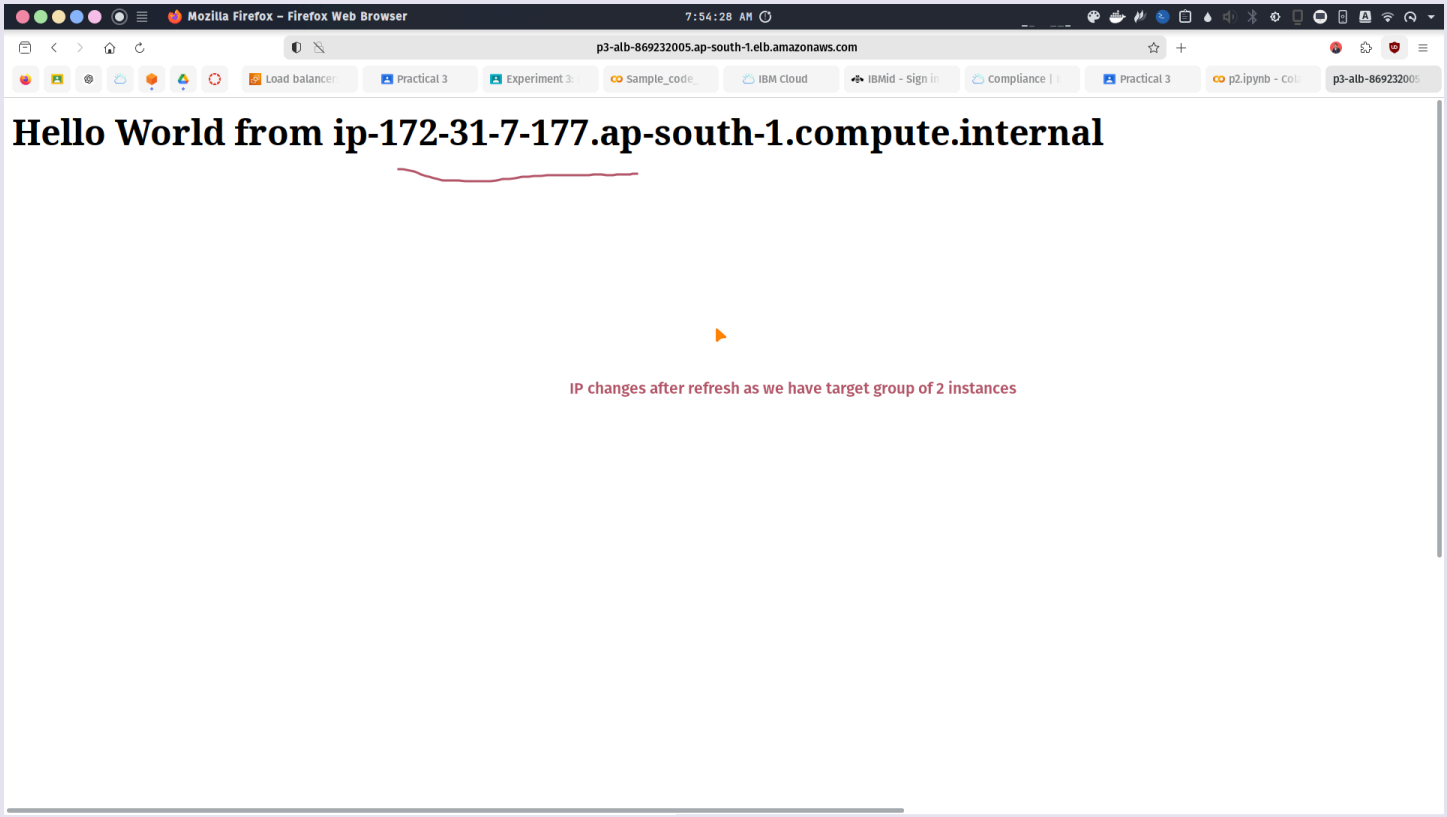

IP changes after refresh as we have target group of 2 instances

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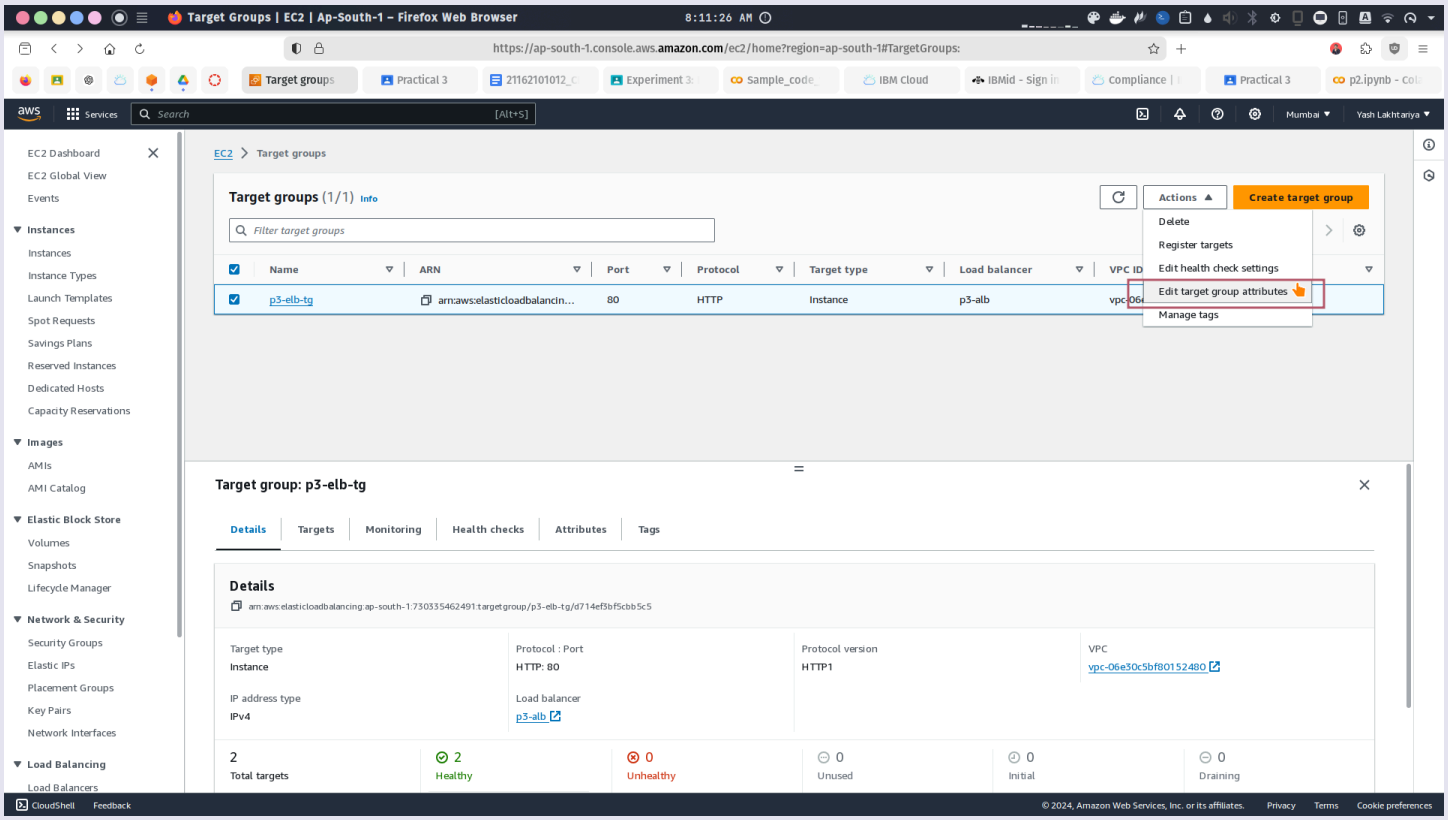
Sticky sessions are necessary for reducing latency due to TCP handshake again and again, so to turn it ON, visit target group attributes



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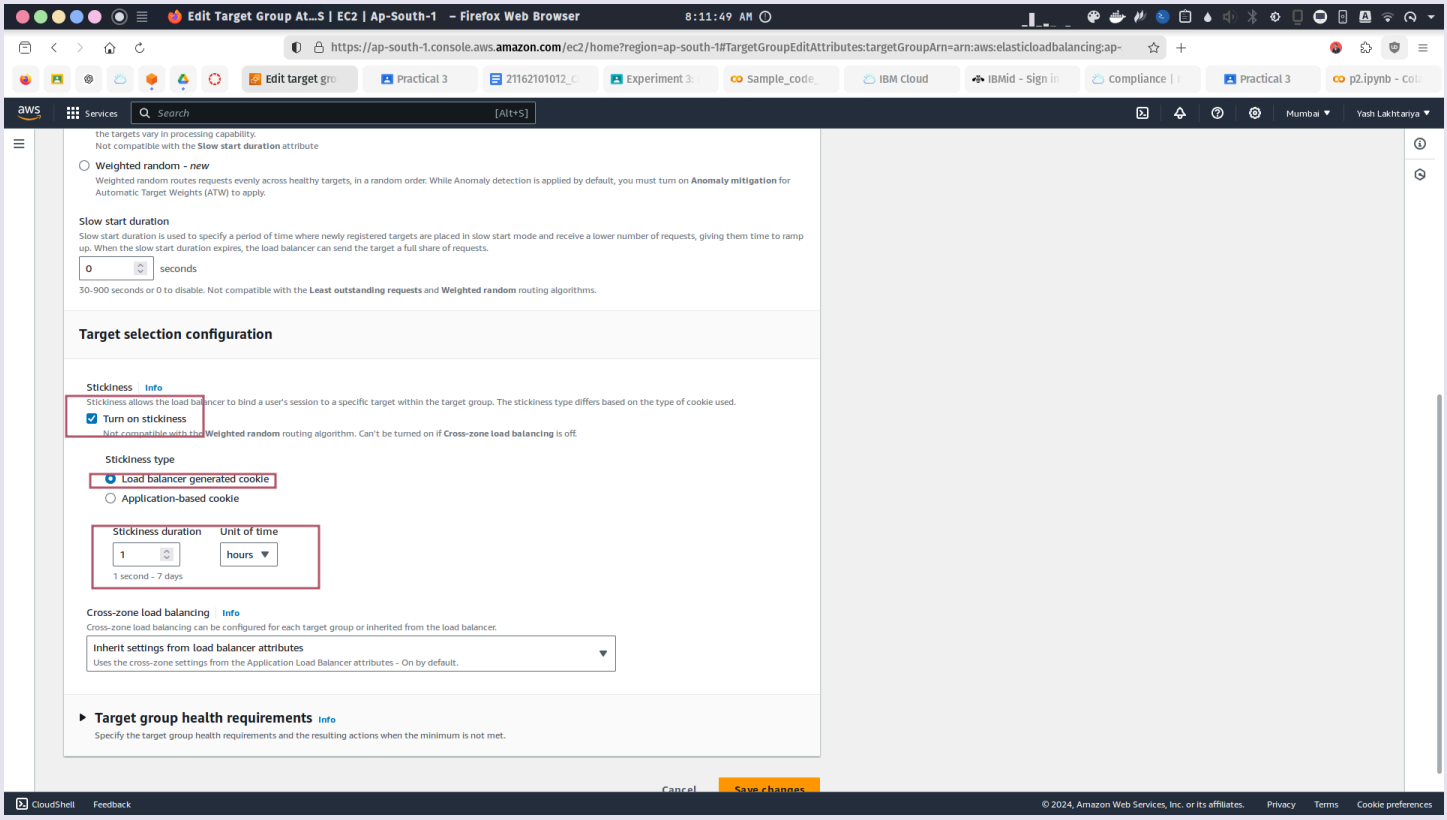

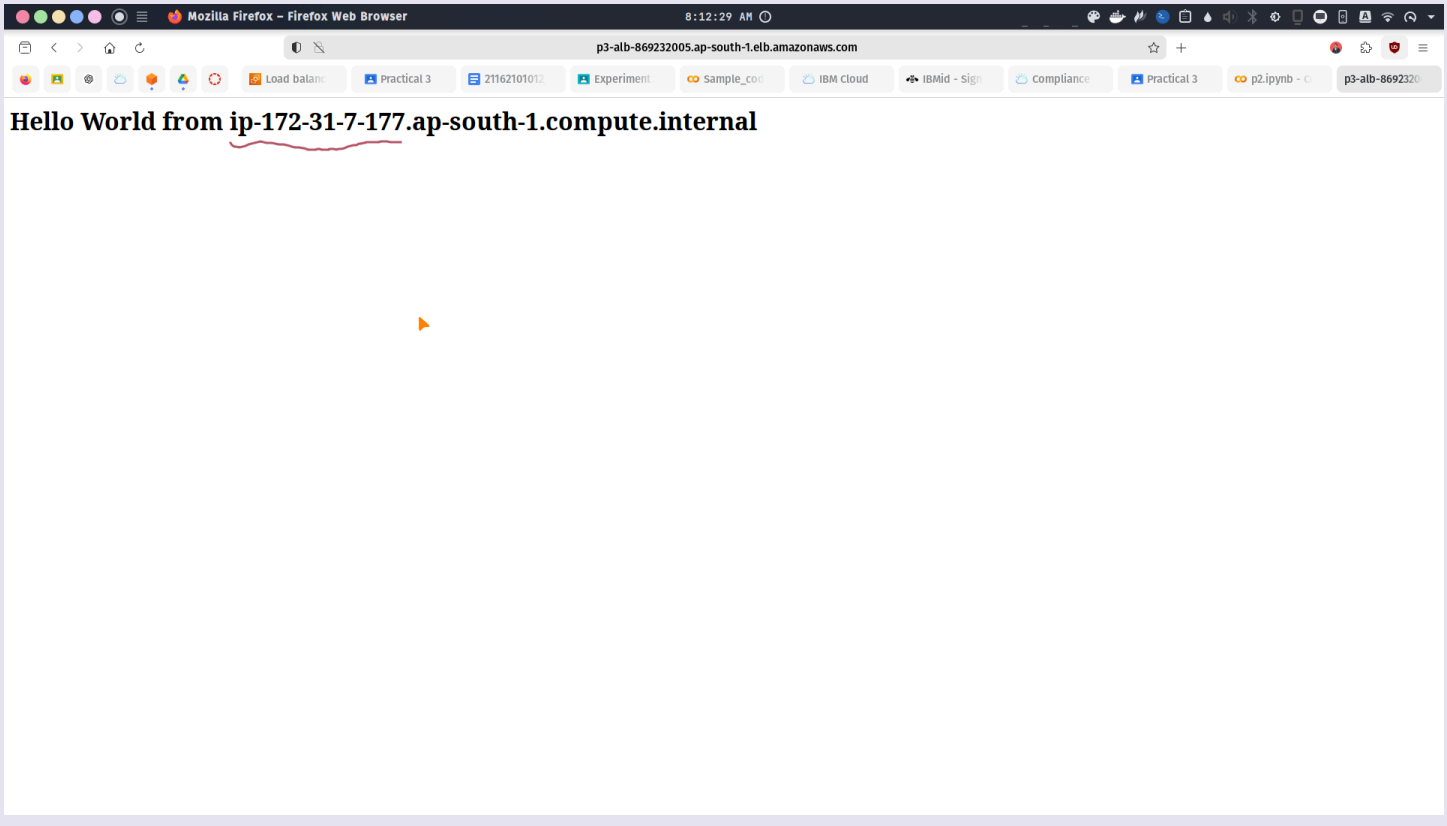

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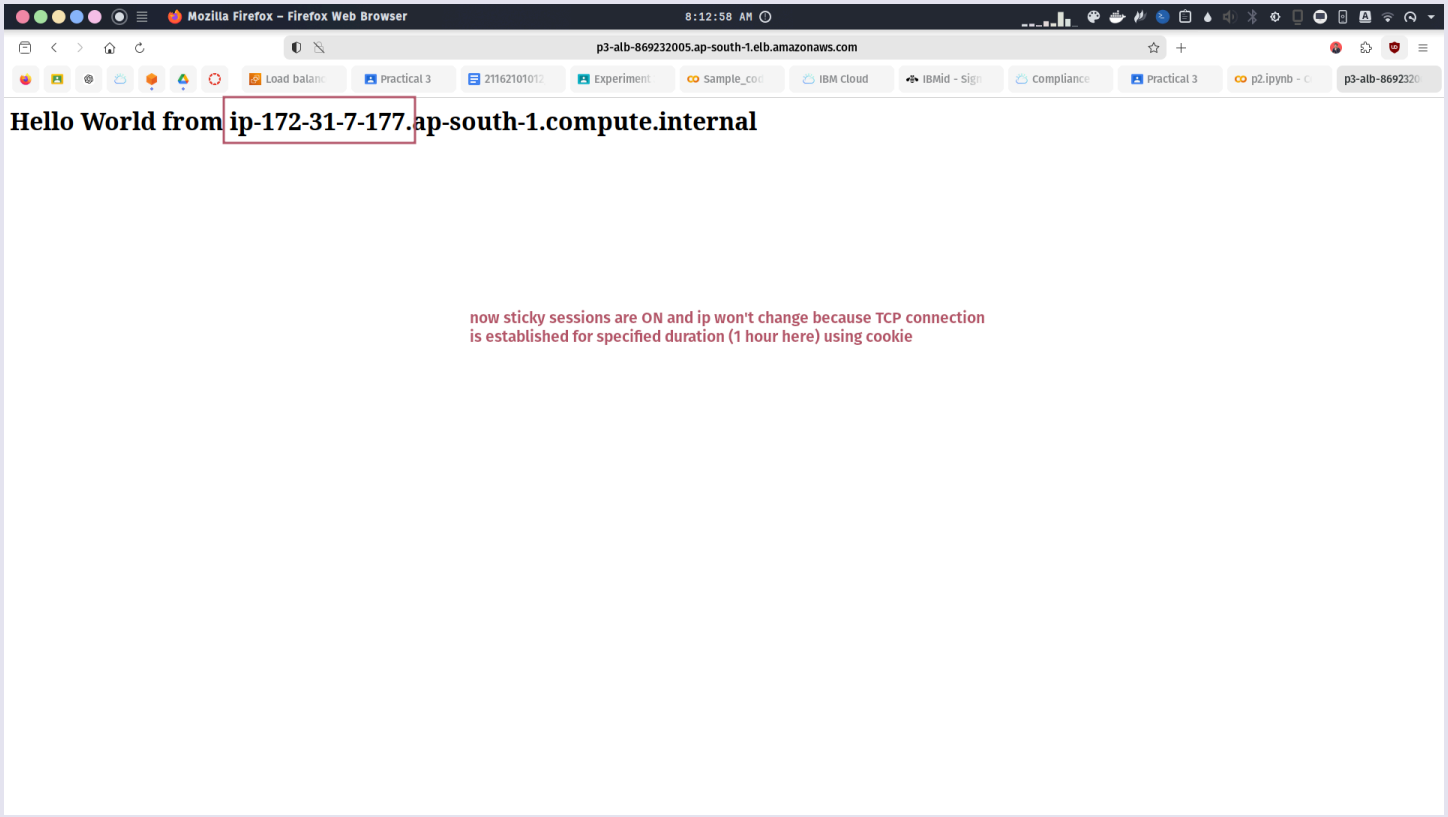

now sticky sessions are ON and ip won't change because TCP connection is established for specified duration (1 hour here) using cookie