

APPLICATION LOAD BALANCER

APPLICATION LOAD BALANCER IS FOR MICROSERVICES

LISTENER → TARGET GROUP (ORDERS)EC2

APPLICATION LOAD BALANCER

LISTENER → TARGET GROUP PAYMENTS MICROSERVICE (EC2)

APPLICATION LOAD BALANCER OR LOAD BALANCER WHICH ROUTE TRAFFIC TO DIFFERENT MICROSERVICES OR ONE APPLICATION LOAD BALANCER FOR ONE COMPLETE APPLICATION WITH N NUMBER OF MICROSERVICES

HERE WE ARE TAKING ORDERS AND PAYMENTS MICROSERVICES

TARGET GROUP HAVING NUMBERS OF MICROSERVICES RUNNING SPECIFIC MICROSERVICE

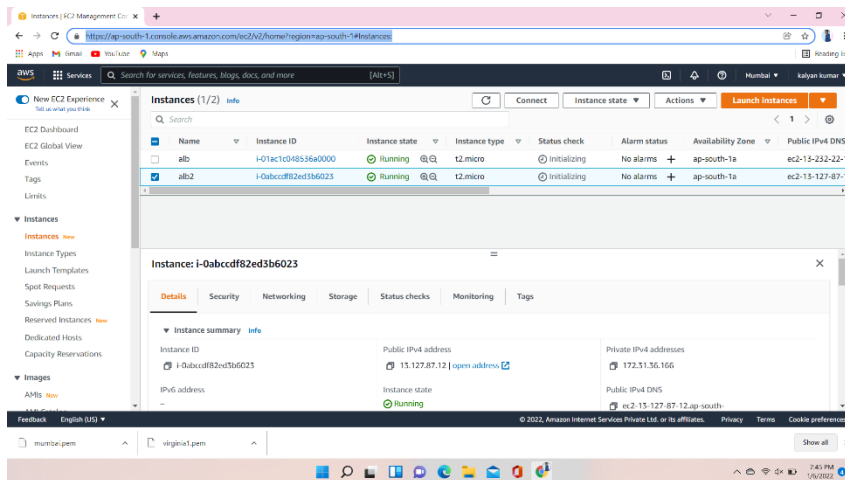
LISTENERS WHICH HELPS IN MAKING DECISIONS IT HELPS TO ALB WHEN ROUTE TRAFFIC TO ORDERS TRAFFIC TO PAYMENTS

HERE WE TAKEN TWO LISTENERS

ROUTING WILL HAPPENED BASED ON THE PATH WHEN REQUESTS COME TO ALB IT CONTAINS PATH ORDERS IT WILL BE ROUTED TO THE ORDERS

HOW TO CREATE ALB

FIRST CREATE TWO EC2 INSTANCES



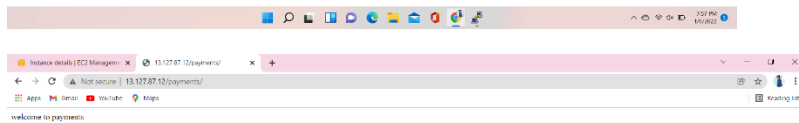
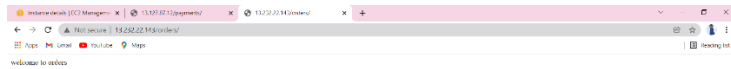
AFTER CREATING THE EC2 INSTANCES CONNECT THEM TO TERMINAL

AFTER CONNECTING EC2 INSTANCES TO TERMINAL INSTALL HTTPD SERVER

USING COMMAND (yum install httpd -y)

START HTTPD SERVICE (systemctl start httpd)

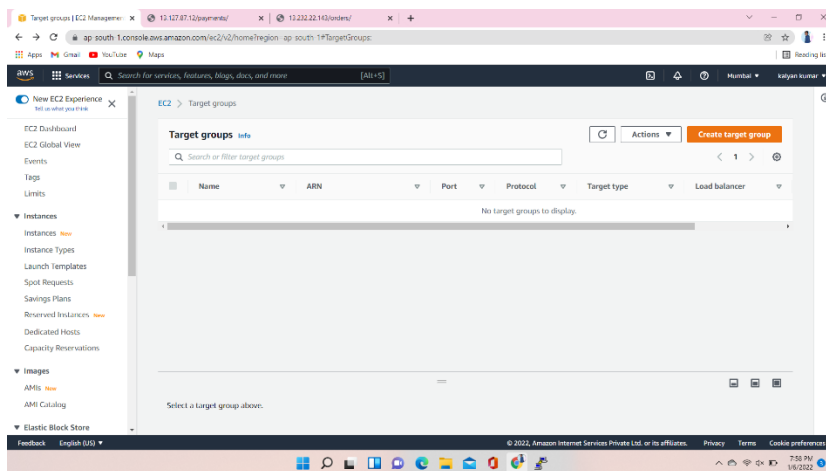
CHECK WHETHER THE PACKAGE IS RUNNING OR NOT (service httpd status)



HOW TO CREATE A TARGET GROUP

IN EC2 BELOW WE HAVE TARGET GROUP

SELECT TARGET GROUP AND CREATE TARGET GROUP



IN TARGET GROUP CHOOSE A TARGET TYPE (INSTANCE)

PROVIDE YOUR TARGET GROUP

HERE WE CREATING TARGET GROUP FOR ORDER AND THE PAYMENTS

The screenshot shows the 'Create target group' page in the AWS Management Console. The 'Choose a target type' section has four options: 'Instances', 'IP addresses', 'Lambda function', and 'Application Load Balancer'. The 'Application Load Balancer' option is selected. Below this, the 'Target group name' field is empty, with a note that the name can be up to 32 alphanumeric characters. The 'Protocol' is set to 'TCP' and the 'Port' is set to '80'.

HEALTH CHECK WAS HTTP

AND GIVE HEALTH CHECK PATH

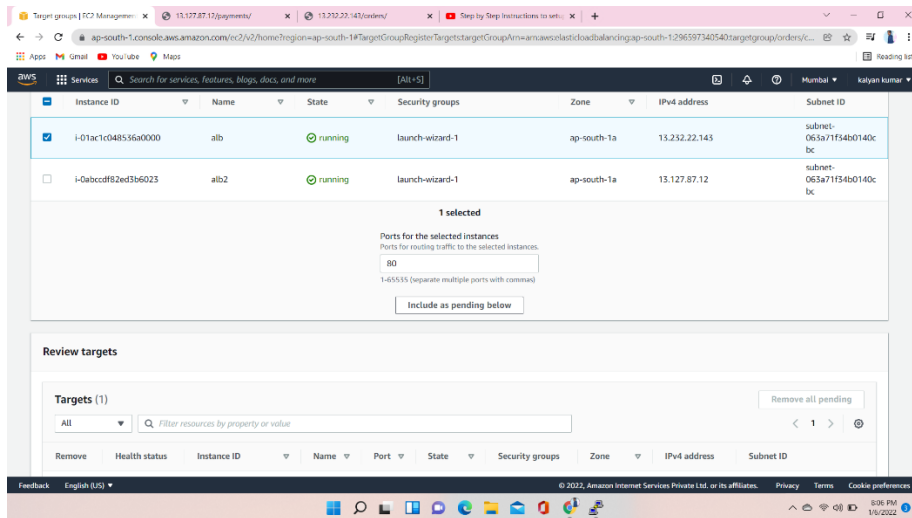
/ORDERS/INDEX.HTML

The screenshot shows the 'Health checks' page in the AWS Management Console. The 'VPC' dropdown is set to 'vpc-2b8b0a40'. The 'Health check protocol' is set to 'HTTP'. The 'Health check path' is set to '/orders/index.html'. There are links for 'Advanced health check settings' and 'Tags - optional'.

AFTER CREATING TARGET GROUP EDIT TARGET

REGISTER TARGET GROUP FOR ORDERS TARGET GROUP SELECT ORDERS

AND FOR PAYMENTS TARGET GROUP SELECT PAYMENTS



AFTER SUCCESSFUL CREATION OF TARGET GROUP

CREATE LOAD BALANCER

SELECT LOAD BALANCER

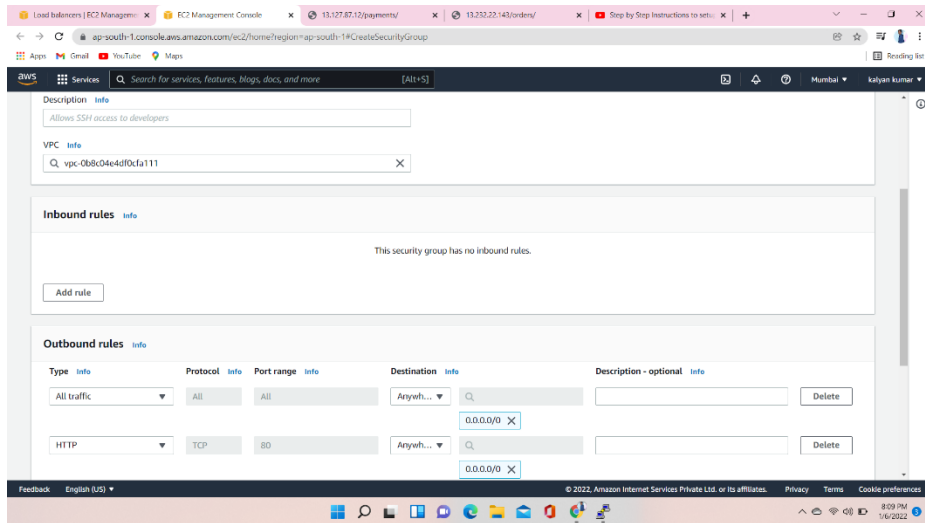
SELECT APPLICATION LOAD BALANCER

THEN CREATE LOAD BALANCER

SELECT DEFAULT VPC

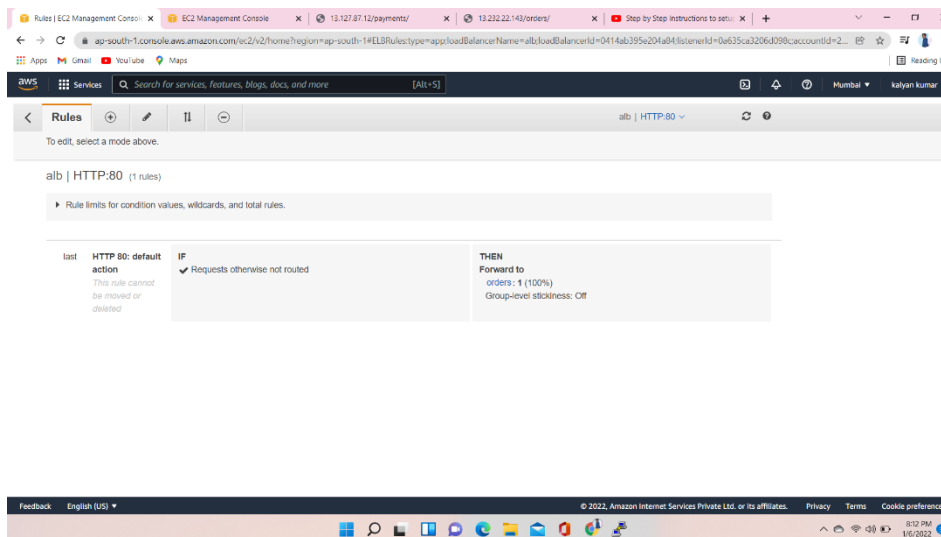
CREATE SECURITY GROUP

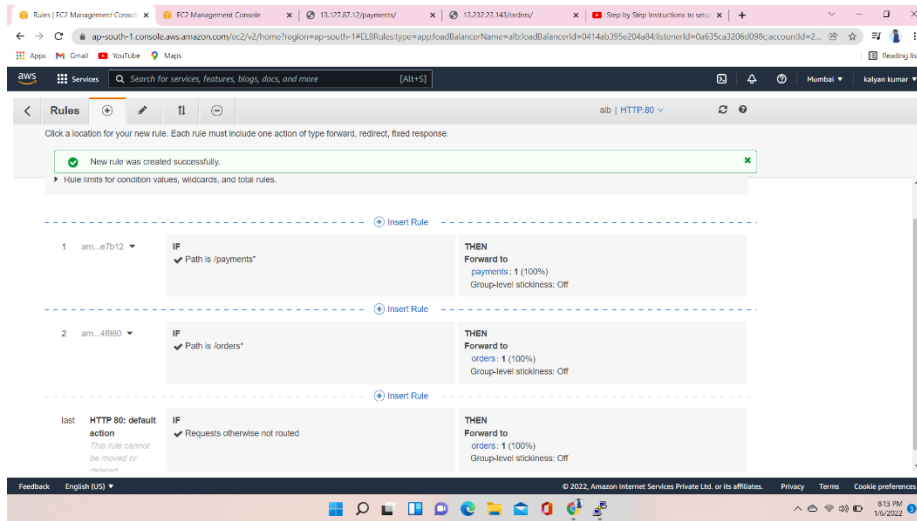
ALLOW ALL TRAFFIC AND HTTP



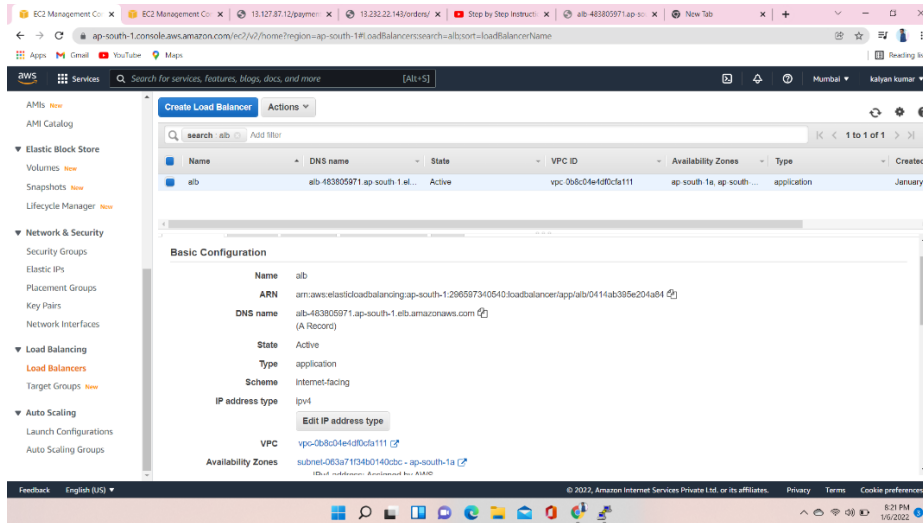
AFTER THE CREATION OF LOAD BALANCER EDIT THE TARGET RULES

THE EDITED TARGET RULES ARE GIVEN BELOW THIS ARE FOR ORDERS AND PAYMENTS





AFTER THE CREATION OF LOAD BALANCER COPY THE DNS AND SEARCH IT IN THE WEB BROWSER



AFTER THE DNS PROVID /ORDERS (FOR ORDERS)

/PAYMENTS FOR (PAYMENTS)

