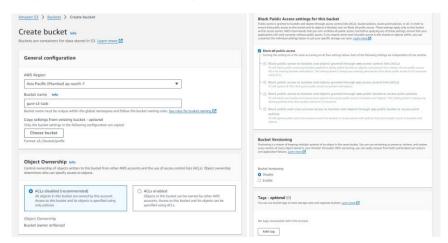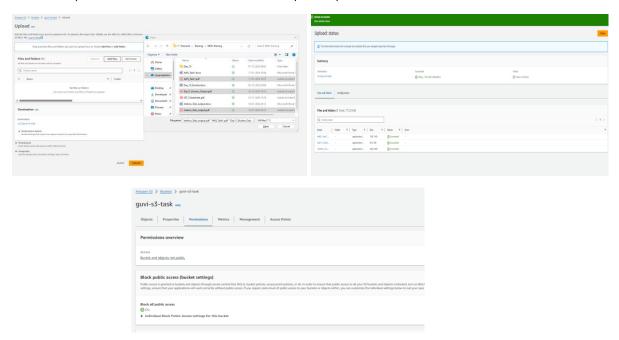1. Create a S3 bucket, with no public access and upload files to the bucket.

   Step 1: create a S3 bucket with no public access.
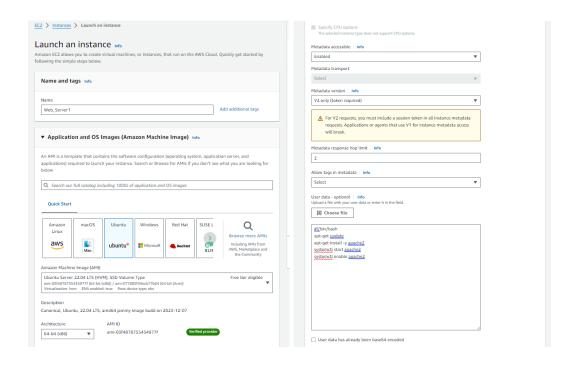

   Step 2 : Click add files → select files→ Click open to upload the files.
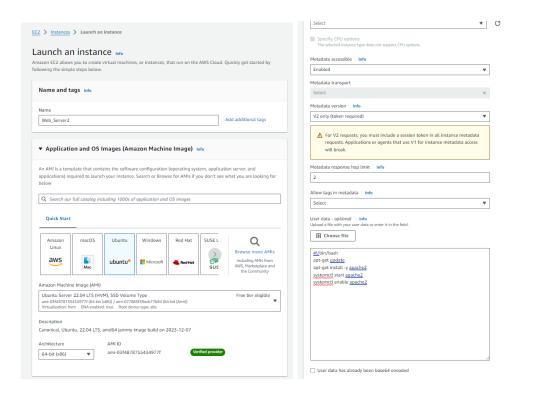

   Public access is blocked for the S3 bucket.

2. Launch two ec2-instances and connect it to a application load balancer, where the output traffic from the server must be an load balancer IP address

Step 1 : create two Ec2 instances with User data for installing apache web server

Step 2 : check the status of the apache web server in both Ec2 instances.

i-0157f980ca1b066ad (Web_Server1)
PublicIPs: 35.154.247.150 PrivateIPs: 172.31.32.77

i-022a0327e7ba31bab (Web_Server2)
PublicIPs: 13.234.217.206 PrivateIPs: 172.31.41.78

step 3 : change the Index.html in both Ec2 instances.

Cmd : sudo vi /var/www/html/index.html.

i-0157f980ca1b066ad (Web_Server1)
PublicIPs: 35.154.247.150 PrivateIPs: 172.31.32.77

i-022a0327e7ba31bab (Web_Server2)
PublicIPs: 13.234.217.206 PrivateIPs: 172.31.41.78
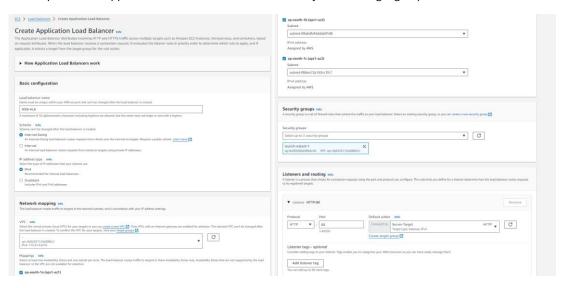
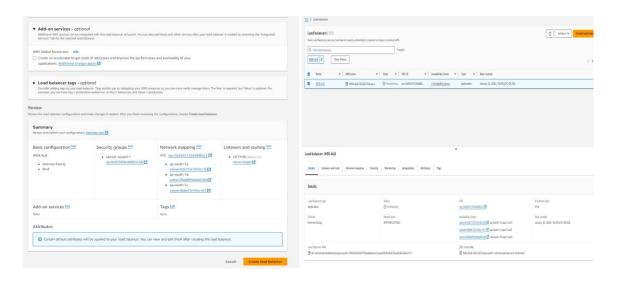Step 4 : create target group in load balancer with health check path of Ec2 instances.

Step 5 : select both instances →click include Pending → create target group.

Step 6: create Application load balancer → select newly created target group → click create load balancer
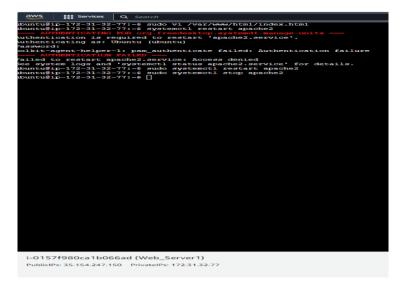
Step 7: Use the Load balancer DNS name to in browser to check the web application

Step 8 : stop web server in server 1 .

Step 9: refresh the browser and check the status the web application.