

PROJECT 3:

Deploying a Load Balancer with two Linux Server instances:

Task 1: Create Two Linux instances using AMI:

The screenshot displays the AWS Management Console interface for the ap-south-1 region. The left sidebar shows the navigation menu with options like EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, and AMIs. The main content area shows a list of EC2 instances. Two instances are listed: Linux1 and Linux2, both running on t2.micro instances in the ap-south-1b availability zone. The instance Linux1 has the ID i-05835663f031c0f17 and a public DNS of ec2-13-233-146-153.ap-south-1.compute.amazonaws.com. The instance Linux2 has the ID i-059eef33ef2c0d3dc and a public DNS of ec2-15-206-209-136.ap-south-1.compute.amazonaws.com. Below the list, the details for instance Linux1 are shown, including its status (running), type (t2.micro), and public IP address (13.233.146.153).

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Linux1	i-05835663f031c0f17	t2.micro	ap-south-1b	running	2/2 checks ...	None	ec2-13-233-146-153.ap...
Linux2	i-059eef33ef2c0d3dc	t2.micro	ap-south-1b	running	2/2 checks ...	None	ec2-15-206-209-136.ap...

Instance: i-05835663f031c0f17 (Linux1) Public DNS: ec2-13-233-146-153.ap-south-1.compute.amazonaws.com

Description	
Instance ID	i-05835663f031c0f17
Public DNS (IPv4)	ec2-13-233-146-153.ap-south-1.compute.amazonaws.com
Instance state	running
Instance type	t2.micro
IPv4 Public IP	13.233.146.153
IPv6 IPs	-

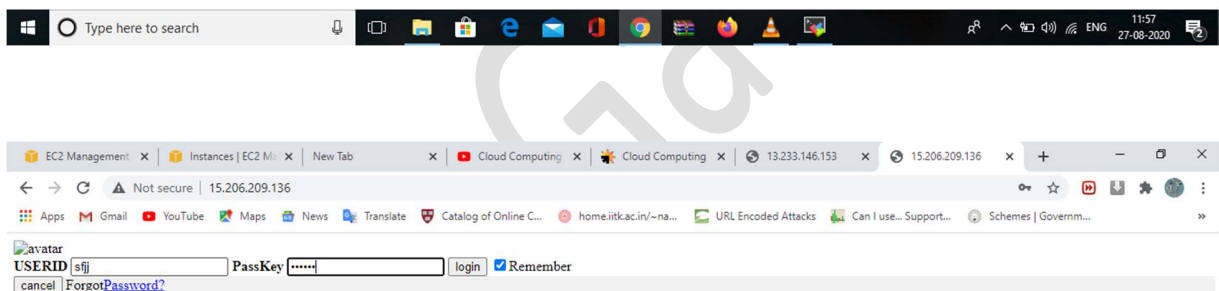
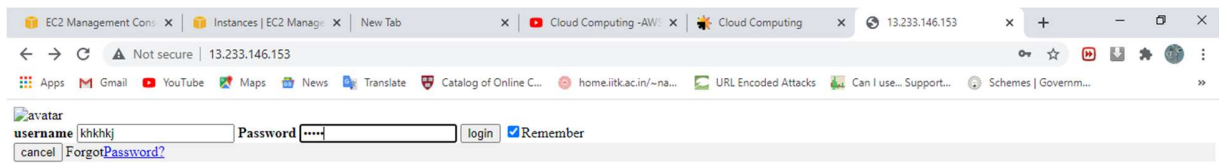
The screenshot shows the AWS Management Console interface for EC2 instances. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, and AMIs. The main content area displays a table of instances. The 'Instances' page shows two instances: Linux1 and Linux2. Linux2 is selected, and its details are expanded, showing its Public DNS and IPv4 Public IP.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Linux1	i-05835663f031c0f17	t2.micro	ap-south-1b	running	2/2 checks ...	None	ec2-13-233-146-153.ap...
Linux2	i-059eef33ef2c0d3dc	t2.micro	ap-south-1b	running	2/2 checks ...	None	ec2-15-206-209-136.ap...

Instance: i-059eef33ef2c0d3dc (Linux2) Public DNS: ec2-15-206-209-136.ap-south-1.compute.amazonaws.com

Description	
Instance ID	i-059eef33ef2c0d3dc
Instance state	running
Instance type	t2.micro
Public DNS (IPv4)	ec2-15-206-209-136.ap-south-1.compute.amazonaws.com
IPv4 Public IP	15.206.209.136
IPv6 IPs	-

Step 2: Launching both instances on mobaxterm and hosting html pages on the web



Step 3: Create a Application Load Balancer with the above two instances as targets

The screenshot displays the AWS Management Console interface for creating a new Application Load Balancer. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LoadBalancers:search=LetsUpgradeELoadB:sort=loadBalancerName`. The console header includes the AWS logo, navigation tabs for Services and Resource Groups, and user information (ankit, Mumbai, Support).

On the left sidebar, the 'Instances' section is expanded, showing a list of EC2 instances. The main content area is titled 'Create Load Balancer' and features a search bar with the text 'LetsUpgradeELoadB'. Below the search bar, a table lists the created load balancer:

Name	DNS name	State	VPC ID	Availability Zones	Type
LetsUpgradeELoadB	LetsUpgradeELoadB-11275...	active	vpc-ee12585	ap-south-1a, ap-south-1b	application

Below the table, the 'Load balancer: LetsUpgradeELoadB' section is visible, with tabs for Description, Listeners, Monitoring, Integrated services, and Tags. The 'Description' tab is selected, showing the 'Basic Configuration' details:

- Name:** LetsUpgradeELoadB
- ARN:** `arn:aws:elasticloadbalancing:ap-south-1:600052910934:loadbalancer/app/LetsUpgradeELoadB/2a30ff2072608c41`
- DNS name:** LetsUpgradeELoadB-1127545856.ap-south-1.elb.amazonaws.com (A Record)
- State:** active

The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 12:04 on 27-08-2020. A large, diagonal watermark reading 'Ankit Gautam' is overlaid across the lower half of the image.

Step 4: Check the functioning of ELB using DNS of ELB

