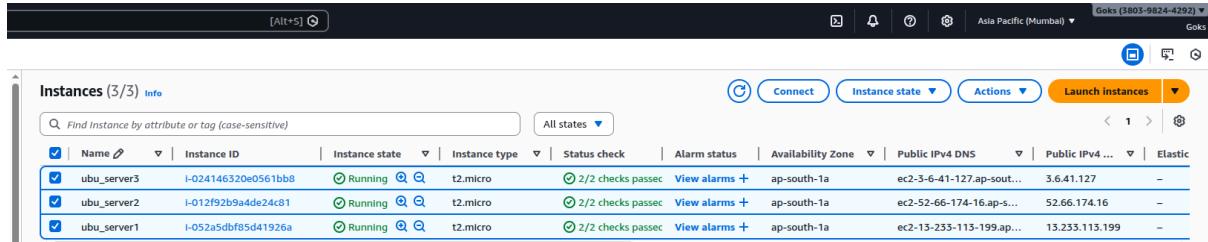


# E-commerce website is deployed on EC2 with classic load balancer

## Objective:

Deploy a e-commerce website (ElectroHub) on multiple EC2 instance behind classic load balancer for high availability and traffic distribution

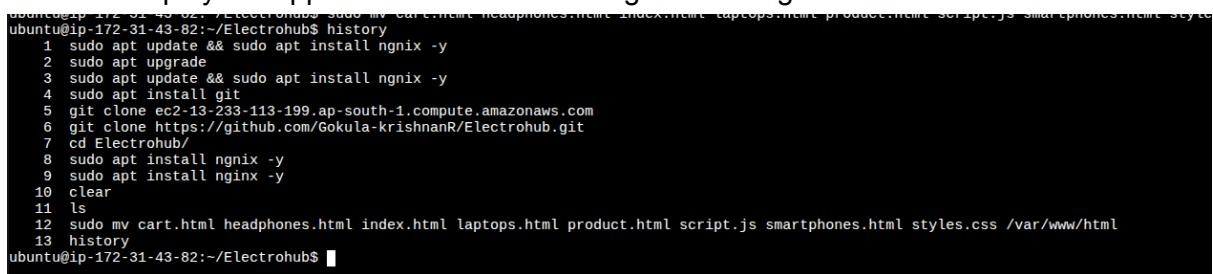
## STEP 1 - created three different instances on specific AV'S zone



The screenshot shows the AWS CloudWatch Instances console with the search bar set to 'Find Instance by attribute or tag (case-sensitive)' and the filter set to 'All states'. There are three instances listed:

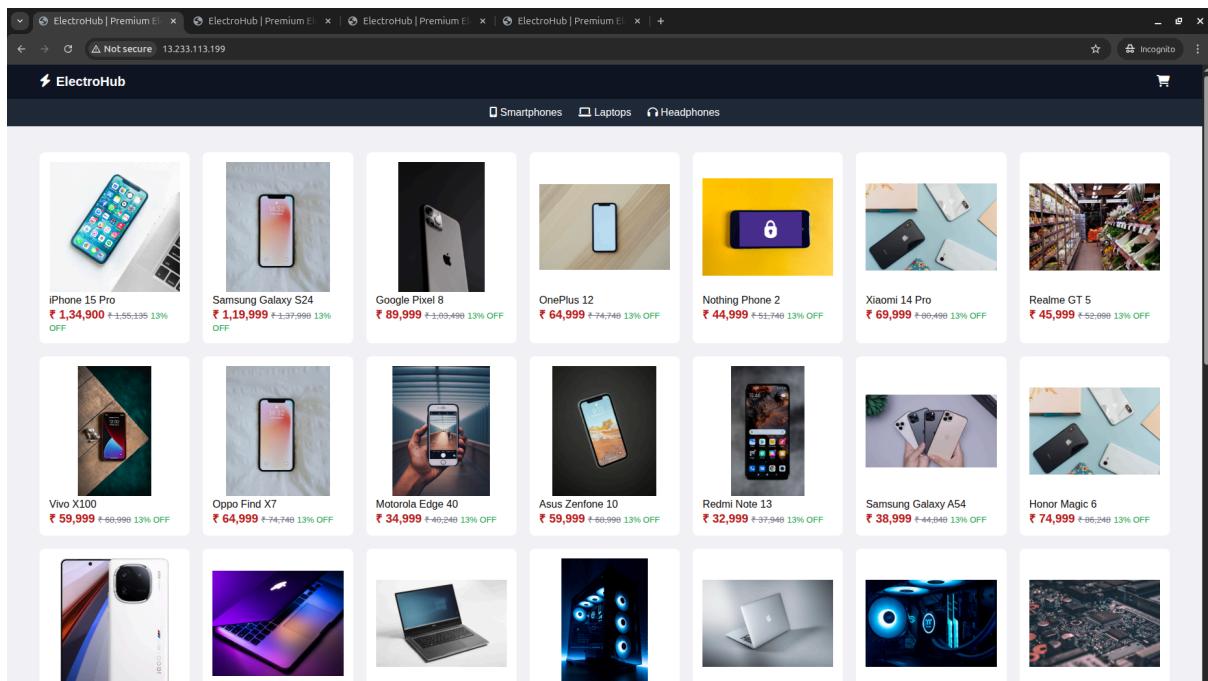
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
uba_server3	i-024146320e0561bb8	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-3-6-41-127.ap-sout...	3.6.41.127
uba_server2	i-012f92b9a4de24c81	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-52-66-174-16.ap-s...	52.66.174.16
uba_server1	i-052a5dbf85d41926a	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-15-233-113-199.ap...	13.233.113.199

## STEP 2 - deploy the application on website using ec2 and nginx



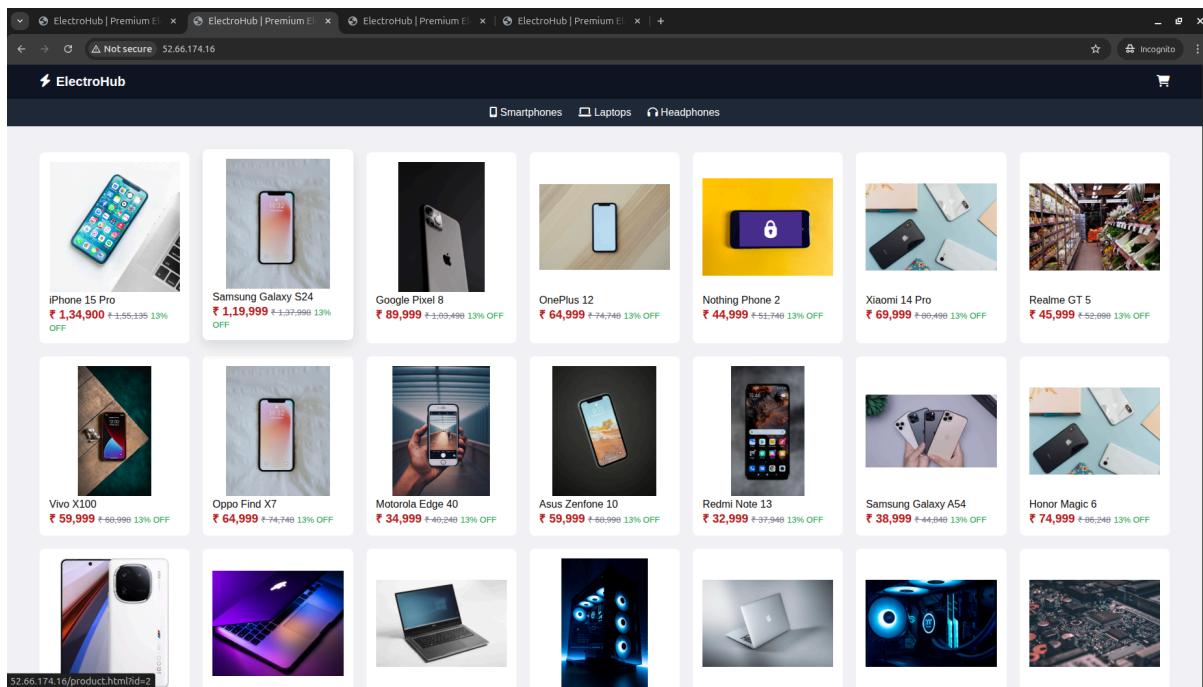
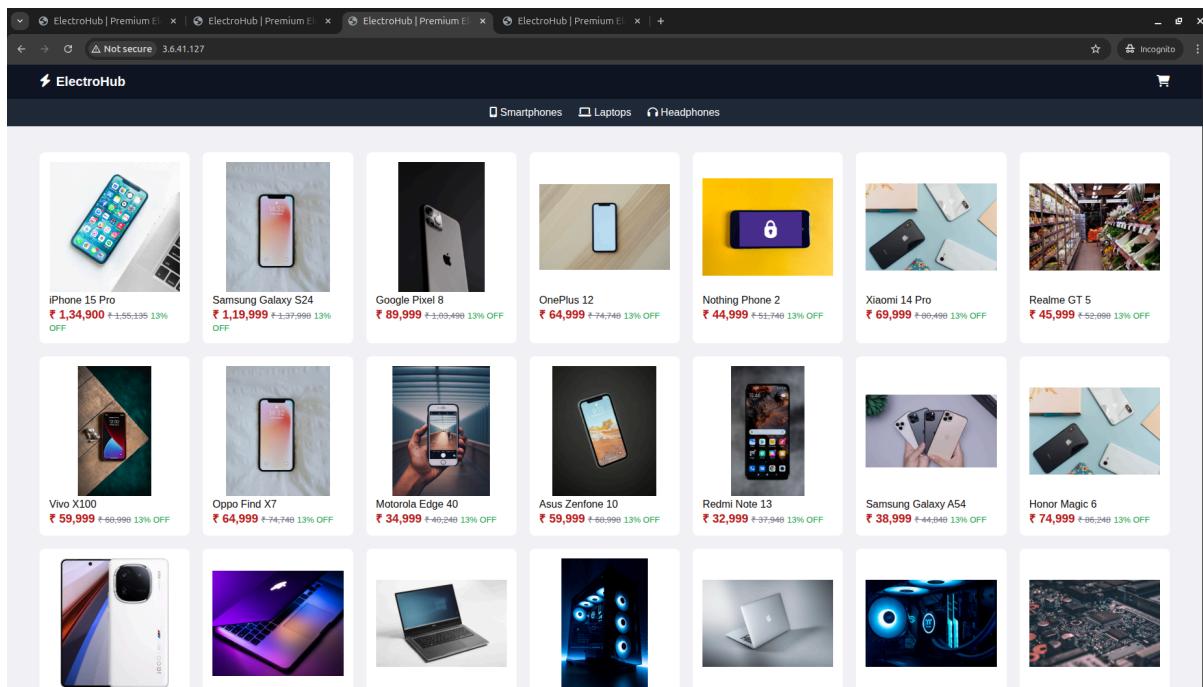
```
ubuntu@ip-172-31-43-82:~/Electrohub$ history
1 sudo apt update && sudo apt install nginx -y
2 sudo apt upgrade
3 sudo apt update && sudo apt install nginx -y
4 sudo apt install git
5 git clone ec2-13-233-113-199.ap-south-1.compute.amazonaws.com
6 git clone https://github.com/Gokula-krishnanR/Electrohub.git
7 cd Electrohub/
8 sudo apt install nginx -y
9 sudo apt install nginx -y
10 clear
11 ls
12 sudo mv cart.html headphones.html index.html laptops.html product.html script.js smartphones.html styles.css /var/www/html
13 history
ubuntu@ip-172-31-43-82:~/Electrohub$
```

## STEP 3 - Paste the public IP address for the three instances



The screenshot shows a web browser with four tabs, each labeled 'ElectroHub | Premium E'. The main content area displays a grid of products:

- Row 1: iPhone 15 Pro (₹ 134,900), Samsung Galaxy S24 (₹ 119,999), Google Pixel 8 (₹ 89,999), OnePlus 12 (₹ 64,999), Nothing Phone 2 (₹ 44,999), Xiaomi 14 Pro (₹ 69,999), Realme GT 5 (₹ 45,999)
- Row 2: Vivo X100 (₹ 59,999), Oppo Find X7 (₹ 64,999), Motorola Edge 40 (₹ 34,999), Asus Zenfone 10 (₹ 59,999), Redmi Note 13 (₹ 32,999), Samsung Galaxy A54 (₹ 38,999), Honor Magic 6 (₹ 74,999)
- Row 3: Samsung Galaxy Z Fold5 (₹ 139,999), Dell XPS 15 (₹ 119,999), Apple MacBook Air (₹ 119,999), Acer Predator Triton 500 (₹ 119,999), Apple iMac (₹ 119,999), MSI RTX 4090 Gaming X Trio (₹ 119,999)



## STEP 4 - Create a classic LoaderBalancer

The screenshot shows the AWS CloudFormation console with a search bar at the top containing 'Load balancers (1/1)'. Below the search bar is a table with the following data:

Name	Type	Scheme	IP address type	VPC ID	Availability Zones	Security groups	DNS name
ecom-clb	classic	-	-	vpc-08320a62a88e0e5fc	ap-south-1a (aps1-a1)	2 Security groups	ecom

Load balancer: ecom-clb								
Details	Listeners	Network mapping	Security	Health checks	Target instances	Monitoring	Attributes	Tags
<b>Target instances (3)</b>								
Instances currently registered to your load balancer are displayed. To deregister instances, select them, then choose Deregister. To register and deregister instances simultaneously, choose Manage instances.								
<input type="checkbox"/>	Instance ID	Name	Health status	Health status descri...	Security groups	Zone	Public IPv4	
<input type="checkbox"/>	<a href="#">I-024146320e0561bb8</a>	ubu_server3	<span>In-service</span>	Not applicable	launch-wizard-7	ap-south-1a	3.6.41.127	
<input type="checkbox"/>	<a href="#">I-012f92b9a4de24c81</a>	ubu_server2	<span>In-service</span>	Not applicable	launch-wizard-6	ap-south-1a	52.66.174.	
<input type="checkbox"/>	<a href="#">I-052a5dbf85d41926a</a>	ubu_server1	<span>In-service</span>	Not applicable	launch-wizard-5	ap-south-1a	13.233.111	

## STEP 5 - Copy paste the DNS name in incognito mode in chrome

