

## Assignment/Project Day 4 | 22nd August 2020

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### Step1: Create two Linux instances, Use the first free Linux AMI

#### 1. Linux1 instance:

The screenshot displays the AWS Management Console interface for the EC2 service. At the top, there's a navigation bar with 'Launch Instance', 'Connect', and 'Actions' buttons. Below this is a search bar and a table listing instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, and Key Name. Two instances are listed: Linux1 (i-039f4077ba9f27aae) and Linux2 (i-04f97702e3975151a). Both are t2.micro instances in the us-east-2b availability zone, running in the 'running' state. The details view for Linux1 is expanded, showing various attributes like Instance ID, Instance state, Instance type, Finding, Private DNS, Private IPs, Secondary private IPs, VPC ID, Subnet ID, Network interfaces, IAM role, Key pair name, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, Elastic IPs, Availability zone, Security groups, Scheduled events, AMI ID, Platform details, Usage operation, Source/dest. check, T2/T3 Unlimited, and Disabled.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
Linux1	i-039f4077ba9f27aae	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-188-77-116 us-...	18.188.77.116	-	letsupgrade
Linux2	i-04f97702e3975151a	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-191-199-243 us...	18.191.199.243	-	letsupgrade

Instance: i-039f4077ba9f27aae (Linux1) Public DNS: ec2-18-188-77-116.us-east-2.compute.amazonaws.com

**Description** | Status Checks | Monitoring | Tags

Instance ID: i-039f4077ba9f27aae  
Instance state: running  
Instance type: t2.micro  
Finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)  
Private DNS: ip-172-31-19-89 us-east-2 compute internal  
Private IPs: 172.31.19.89  
Secondary private IPs: -  
VPC ID: vpc-982c8ef3  
Subnet ID: subnet-72090a08  
Network interfaces: eth0  
IAM role: -  
Key pair name: letsupgrade

Public DNS (IPv4): ec2-18-188-77-116.us-east-2.compute.amazonaws.com  
IPv4 Public IP: 18.188.77.116  
IPv6 IPs: -  
Elastic IPs: -  
Availability zone: us-east-2b  
Security groups: [launch-wizard-4](#), [view inbound rules](#), [view outbound rules](#)  
Scheduled events: No scheduled events  
AMI ID: amzn2-ami-hvm-2.0.20200722.0-x86\_64-gp2 (ami-07c8bc5c1ce9598c3)  
Platform details: Linux/UNIX  
Usage operation: RunInstances  
Source/dest. check: True  
T2/T3 Unlimited: Disabled

#### 2. Linux 2 Instance

The screenshot displays the AWS Management Console interface for the EC2 service, showing the details for the Linux2 instance. The table at the top lists the instance with its ID (i-04f97702e3975151a), type (t2.micro), availability zone (us-east-2b), and state (running). The details view for Linux2 is expanded, showing various attributes like Instance ID, Instance state, Instance type, Finding, Private DNS, Private IPs, Secondary private IPs, VPC ID, Subnet ID, Network interfaces, IAM role, Key pair name, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, Elastic IPs, Availability zone, Security groups, Scheduled events, AMI ID, Platform details, Usage operation, Source/dest. check, T2/T3 Unlimited, and Disabled.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
Linux1	i-039f4077ba9f27aae	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-188-77-116 us-...	18.188.77.116	-	letsupgrade
Linux2	i-04f97702e3975151a	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-191-199-243 us...	18.191.199.243	-	letsupgrade

Instance: i-04f97702e3975151a (Linux2) Public DNS: ec2-18-191-199-243.us-east-2.compute.amazonaws.com

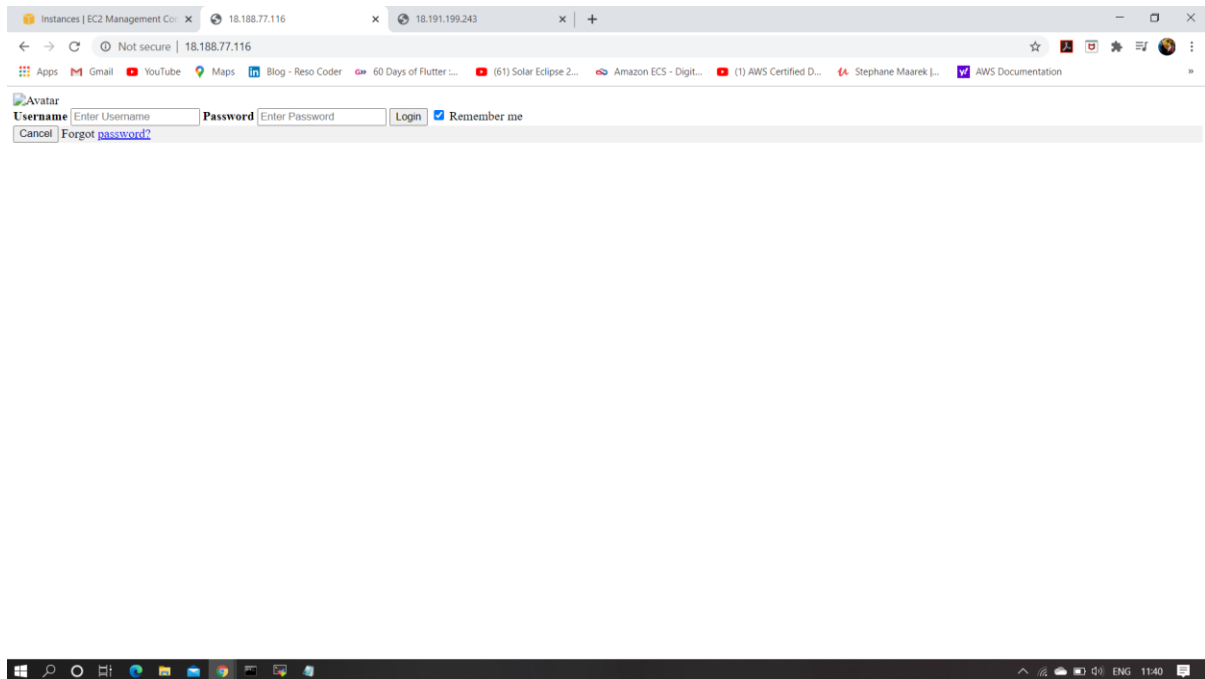
**Description** | Status Checks | Monitoring | Tags

Instance ID: i-04f97702e3975151a  
Instance state: running  
Instance type: t2.micro  
Finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)  
Private DNS: ip-172-31-20-12 us-east-2 compute internal  
Private IPs: 172.31.20.12  
Secondary private IPs: -  
VPC ID: vpc-982c8ef3  
Subnet ID: subnet-72090a08  
Network interfaces: eth0  
IAM role: -  
Key pair name: letsupgrade

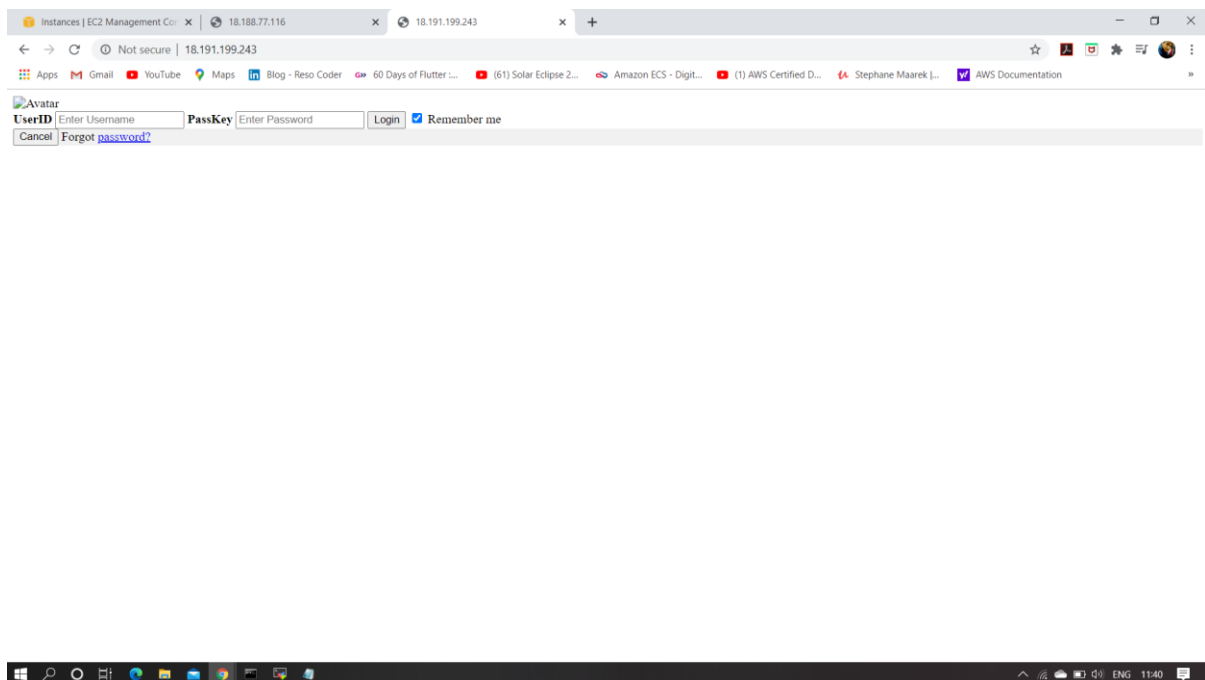
Public DNS (IPv4): ec2-18-191-199-243.us-east-2.compute.amazonaws.com  
IPv4 Public IP: 18.191.199.243  
IPv6 IPs: -  
Elastic IPs: -  
Availability zone: us-east-2b  
Security groups: [launch-wizard-4](#), [view inbound rules](#), [view outbound rules](#)  
Scheduled events: No scheduled events  
AMI ID: amzn2-ami-hvm-2.0.20200722.0-x86\_64-gp2 (ami-07c8bc5c1ce9598c3)  
Platform details: Linux/UNIX  
Usage operation: RunInstances  
Source/dest. check: True  
T2/T3 Unlimited: Disabled

Application is deployed on both servers by copy pasting the public IP of the servers into the browser

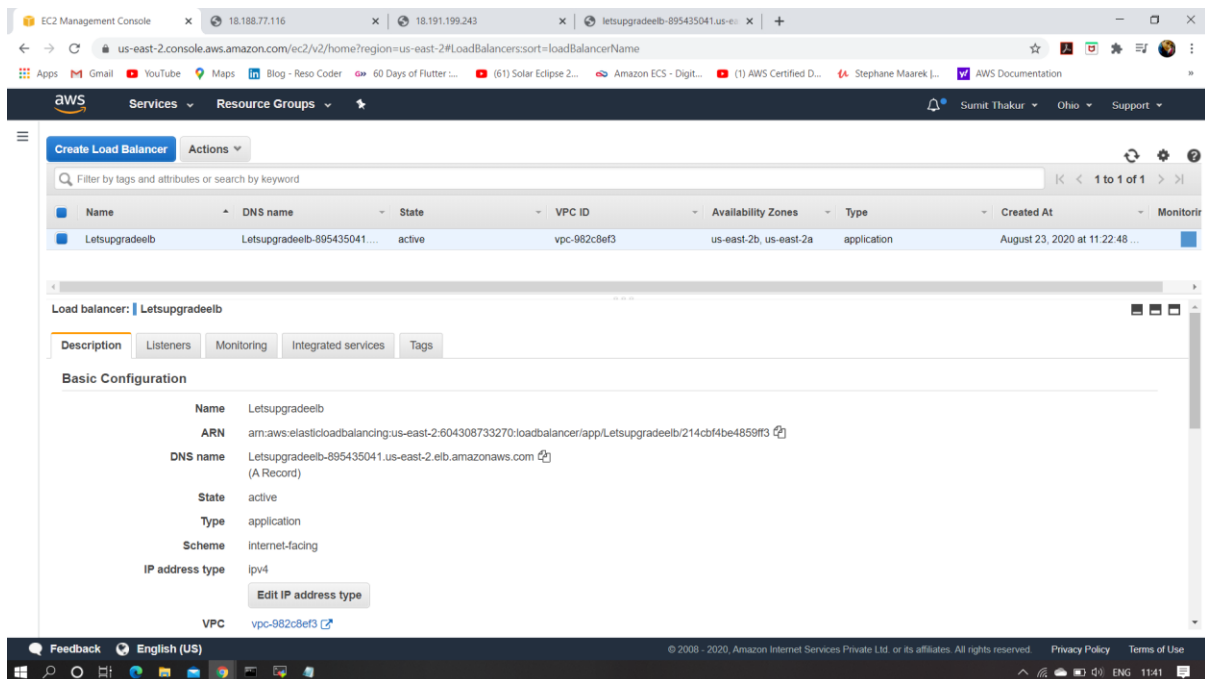
## Linux1 IP hosted



## Linux2 IP hosted



## Created a application Load balancer with the above two instances as targets



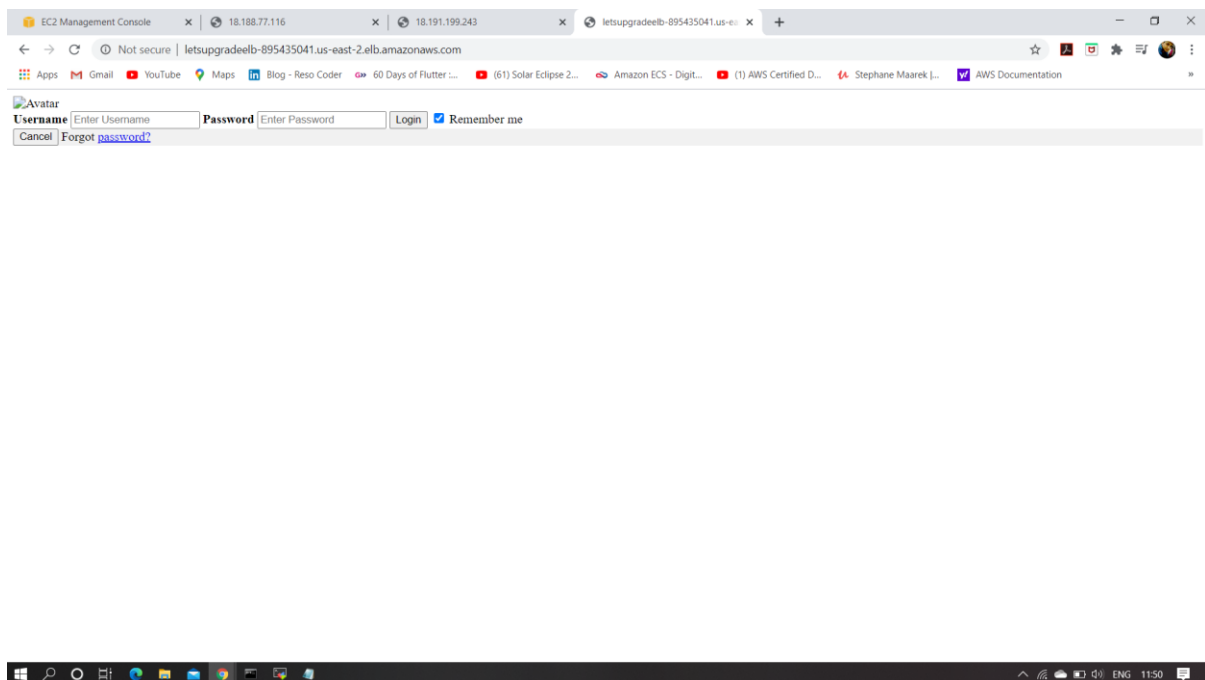
The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo and 'Services' and 'Resource Groups' dropdowns. Below this, a 'Create Load Balancer' button is visible. A table lists the created load balancers:

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Monitor
Letsupgradeelb	Letsupgradeelb-895435041...	active	vpc-982c8ef3	us-east-2b, us-east-2a	application	August 23, 2020 at 11:22:48 ...	

Below the table, the 'Load balancer: Letsupgradeelb' details are shown. The 'Description' tab is selected. The 'Basic Configuration' section displays the following information:

- Name: Letsupgradeelb
- ARN: arn:aws:elasticloadbalancing:us-east-2:604308733270:loadbalancer/app/Letsupgradeelb/214cb/4be4859f3
- DNS name: Letsupgradeelb-895435041.us-east-2.elb.amazonaws.com (A Record)
- State: active
- Type: application
- Scheme: Internet-facing
- IP address type: ipv4
- VPC: vpc-982c8ef3

## Checked the functioning of ELB :



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo and 'Services' and 'Resource Groups' dropdowns. Below this, a 'Check the functioning of ELB' button is visible. A table lists the created load balancers:

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Monitor
Letsupgradeelb	Letsupgradeelb-895435041...	active	vpc-982c8ef3	us-east-2b, us-east-2a	application	August 23, 2020 at 11:22:48 ...	

Below the table, the 'Load balancer: Letsupgradeelb' details are shown. The 'Description' tab is selected. The 'Basic Configuration' section displays the following information:

- Name: Letsupgradeelb
- ARN: arn:aws:elasticloadbalancing:us-east-2:604308733270:loadbalancer/app/Letsupgradeelb/214cb/4be4859f3
- DNS name: Letsupgradeelb-895435041.us-east-2.elb.amazonaws.com (A Record)
- State: active
- Type: application
- Scheme: Internet-facing
- IP address type: ipv4
- VPC: vpc-982c8ef3

EC2 Management Console

18.188.77.116

18.191.199.243

letsupgradeelb-895435041.us-east-2.elb.amazonaws.com

←

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↻

Not secure

letsupgradeelb-895435041.us-east-2.elb.amazonaws.com

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