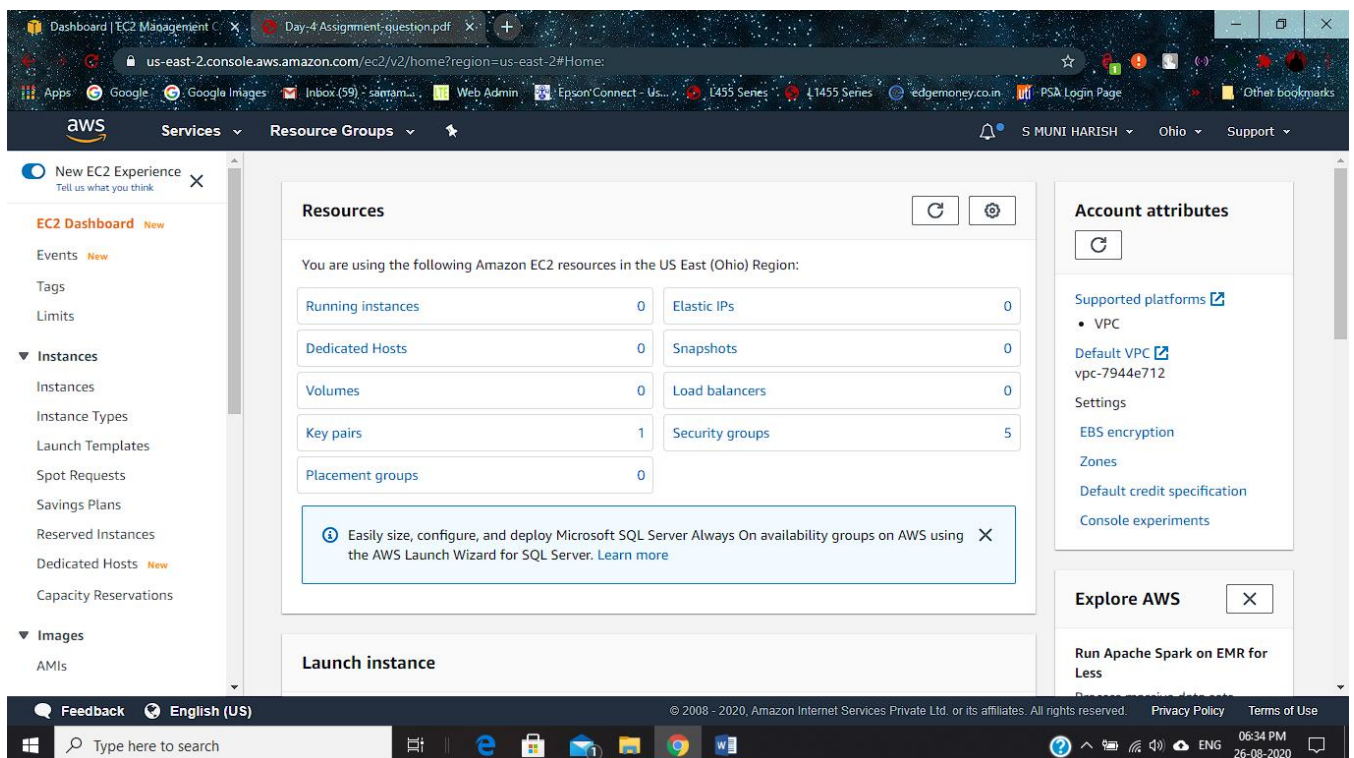
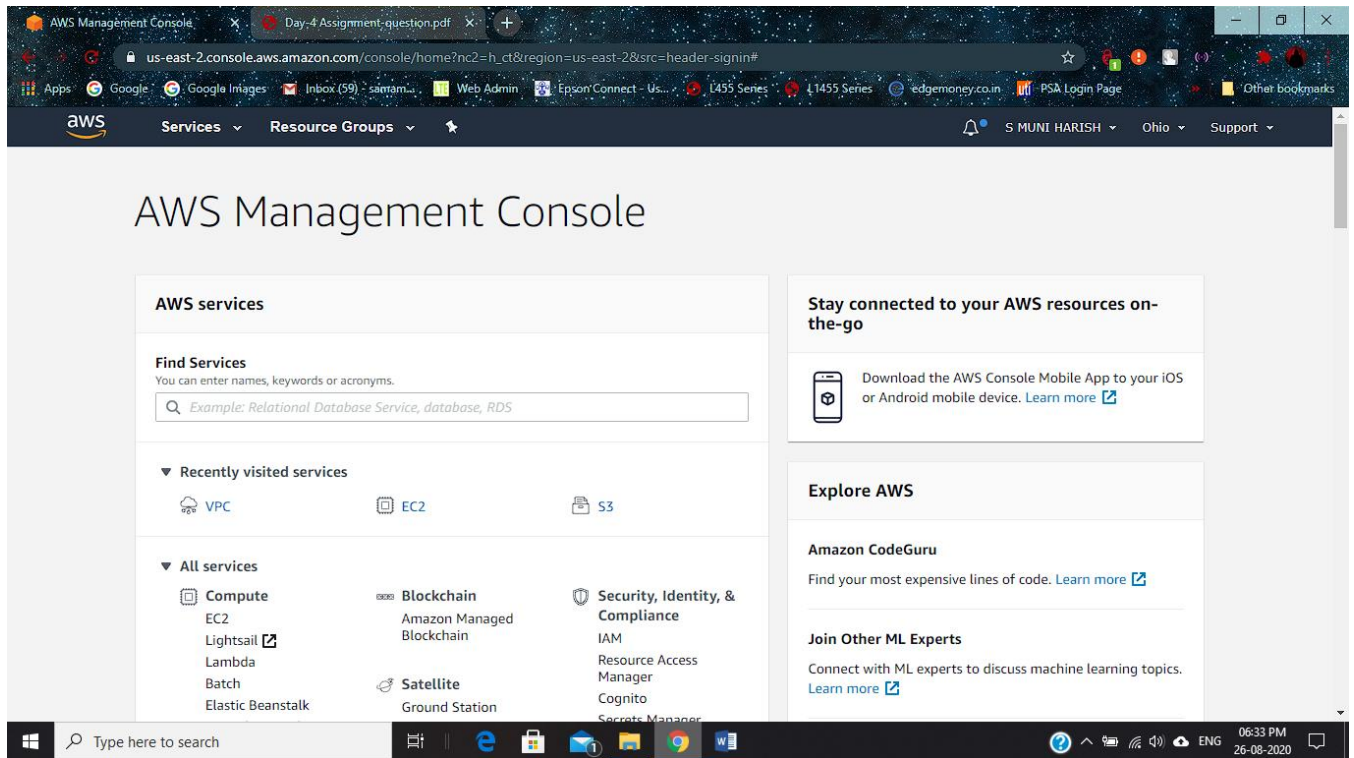


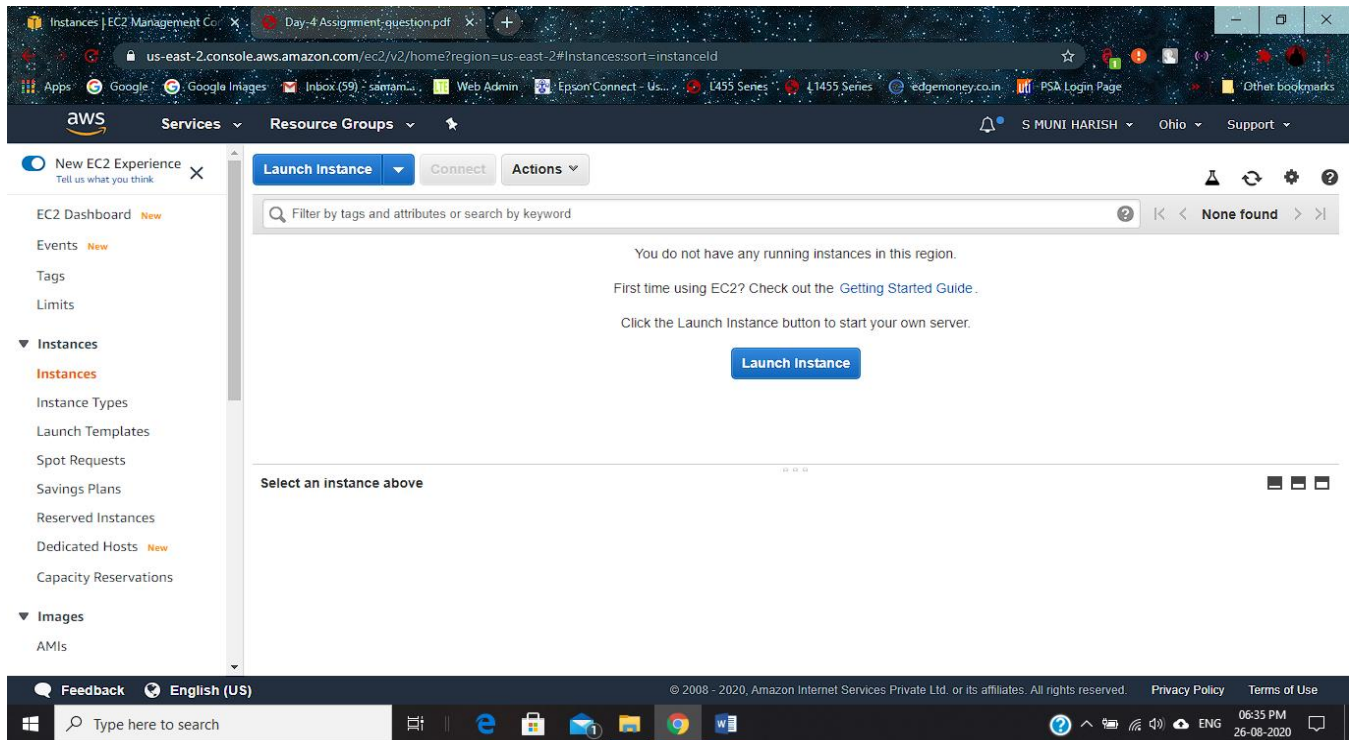
Project – 3

(By S MUNI HARISH)

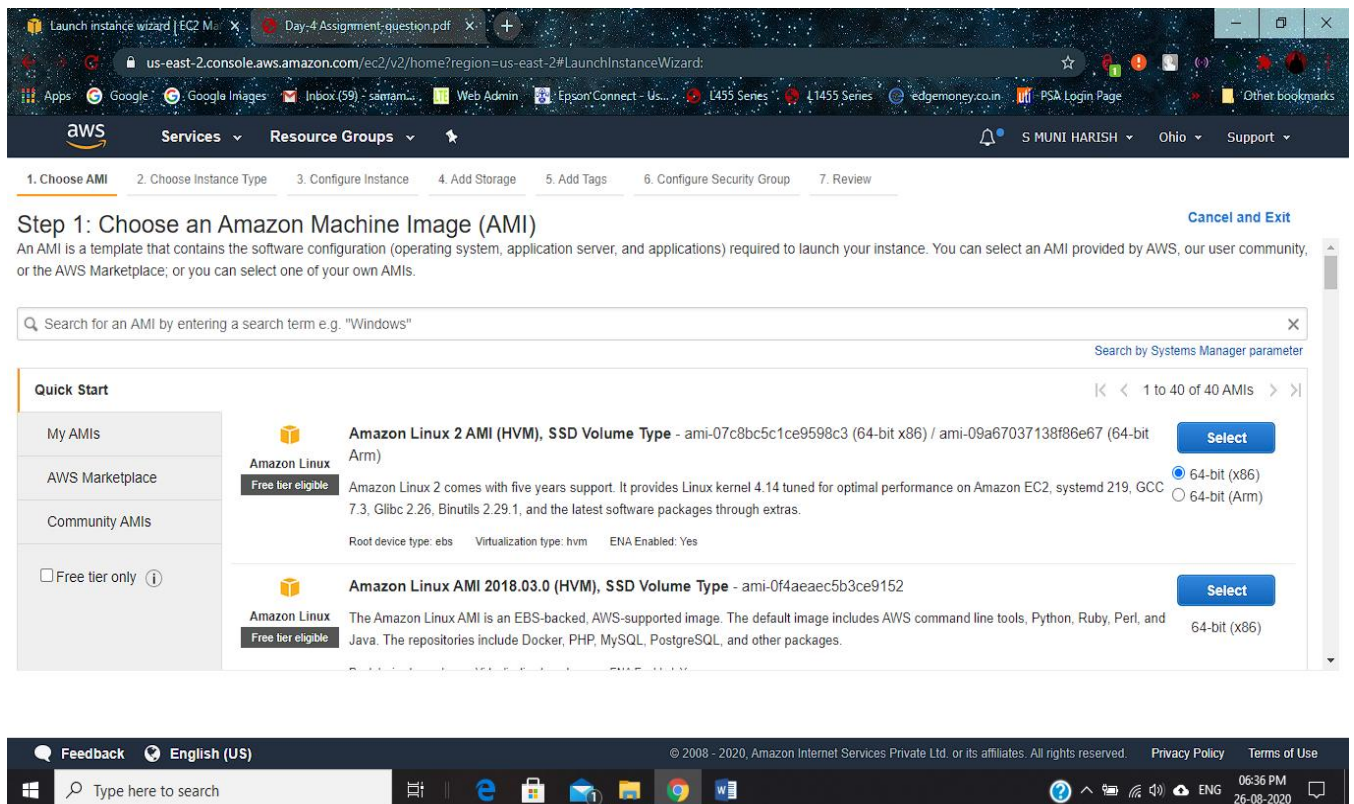
- Open the AMAZON MANAGEMENT CONSOLE and Select the EC2 services



- Create two linux instances, Use the first free linux AMI



- Select the Linux Images



- Select and Proceed Free tier Eligible

Launch instance wizard | EC2 M... | Day-4 Assignment-question.pdf

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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Type here to search

Launch instance wizard | EC2 M... | Day-4 Assignment-question.pdf

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances 2 Launch into Auto Scaling Group

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. [Learn how Auto Scaling can help your application stay healthy and cost effective.](#)

Purchasing option ☐ Request Spot instances

Network vpc-7944e712 (default) Create new VPC

Subnet No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

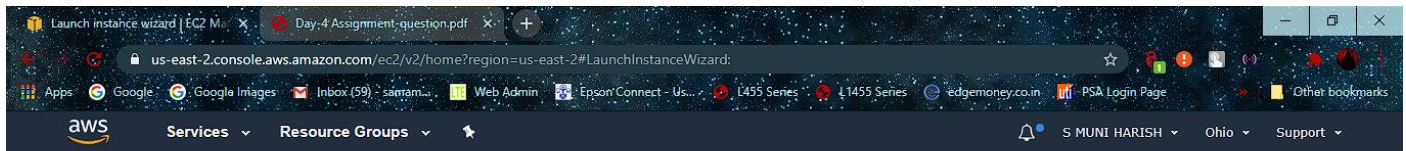
Capacity Reservation Open

Cancel Previous Review and Launch Next: Add Storage

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Type here to search

- Add the Storage



Step 4: Add Storage

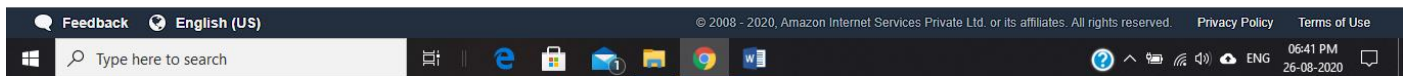
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-00a3ac8046ab803ef	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

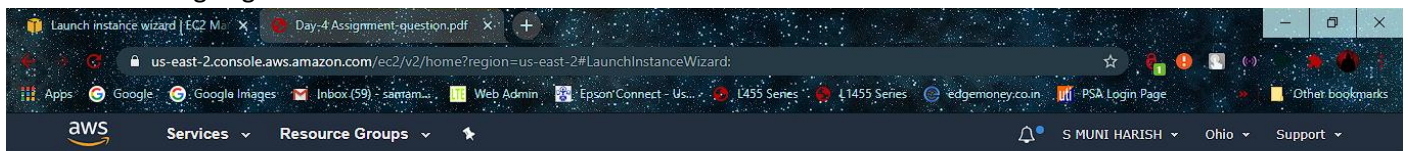
Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Add Tags



- Adding Tags



Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

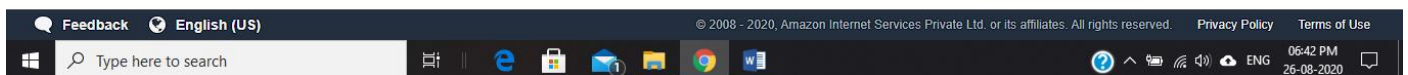
A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	Value	Instances	Volumes
Name	Linux	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group



- Configure Security Groups

Launch instance wizard | EC2 Ma... Day-4 Assignment-question.pdf

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:
Description:

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere	0.0.0.0/0, ::/0

Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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Launch instance wizard | EC2 Ma... Day-4 Assignment-question.pdf

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can edit details before launching your instance.

Improve your instances' security
Your instances may be accessible from the Internet. You can also open additional ports in your security groups.

AMI Details
Amazon Linux 2 AMI (HVM), SS...
Free tier eligible
Amazon Linux 2 comes with five years of software packages through extras.
Root Device Type: ebs Virtualization type: x86_64

Instance Type
Instance Type ECUs vCPUs
t2.micro Variable 1

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Choose an existing key pair
Select a key pair
letsupgrade

☒ I acknowledge that I have access to the selected private key file (letsupgrade.pem), and that without this file, I won't be able to log into my instance.

Cancel **Launch Instances**

Cancel Previous **Launch**

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The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'S MUNI HARISH' with a dropdown menu for 'Ohio' and a 'Support' link. The left-hand navigation pane lists various services: 'EC2 Dashboard' (marked as 'New'), 'Events', 'Tags', 'Limits', 'Instances' (expanded to show 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts' (marked as 'New'), and 'Capacity Reservations'), 'Images' (expanded to show 'AMIs'), and 'VPC'. The main content area is titled 'Launch Instance' and features a search bar 'Filter by tags and attributes or search by keyword'. Below this is a table of EC2 instances:

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	Linux	i-0c53ed2b8ceb04e3	t2.micro	us-east-2c	pending	Initializing	None	ec2-18-188-104-187.us...
	Linux	i-0fcd4fabeb78ce416	t2.micro	us-east-2c	pending	Initializing	None	ec2-18-219-192-239.us...

Below the table, there is a section titled 'Select an instance above' with a horizontal scrollbar and three small icons on the right.

Select load balancer type

Elastic Load Balancing supports three types of load balancers: Application Load Balancers, Network Load Balancers (new), and Classic Load Balancers. Choose the load balancer type that meets your needs. Learn more about which load balancer is right for you

Application Load Balancer

HTTP
HTTPS

Create

Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

Learn more >

Network Load Balancer

TCP
TLS
UDP

Create

Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your application. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.

Learn more >

Classic Load Balancer

PREVIOUS GENERATION
for HTTP, HTTPS, and TCP

Create

Choose a Classic Load Balancer when you have an existing application running in the EC2-Classical network.

Learn more >

Cancel

1. Configure Load Balancer2. Configure Security Settings3. Configure Security Groups4. Configure Routing5. Register Targets6. Review

Step 1: Configure Load Balancer

Basic Configuration

To configure your load balancer, provide a name, select a scheme, specify one or more listeners, and select a network. The default configuration is an Internet-facing load balancer in the selected network with a listener that receives HTTP traffic on port 80.

Name

letsupgrade

Scheme

Internet-facing

Internal

IP address type

ipv4

Listeners

A listener is a process that checks for connection requests, using the protocol and port that you configured.

Load Balancer Protocol

Load Balancer Port

HTTP

80

CancelNext: Configure Security Settings

Create Load Balancer | EC2 Man... | Day-4 Assignment-question.pdf | +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard?type=application:

Apps | Google | Google Images | Inbox (59) | sairam... | Web Admin | Epson Connect - Us... | L455 Series | L1455 Series | edgemoney.co.in | PSA Login Page | Other bookmarks

aws | Services | Resource Groups | S MUNI HARISH | Ohio | Support

1. Configure Load Balancer | 2. Configure Security Settings | 3. Configure Security Groups | 4. Configure Routing | 5. Register Targets | 6. Review

Step 3: Configure Security Groups

A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. First, decide whether to create a new security group or select an existing one.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0 ::0

Add Rule

Cancel Previous Next: Configure Routing

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Type here to search

06:57 PM 26-08-2020

Create Load Balancer | EC2 Man... | Day-4 Assignment-question.pdf | +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard?type=application:

Apps | Google | Google Images | Inbox (59) | sairam... | Web Admin | Epson Connect - Us... | L455 Series | L1455 Series | edgemoney.co.in | PSA Login Page | Other bookmarks

aws | Services | Resource Groups | S MUNI HARISH | Ohio | Support

1. Configure Load Balancer | 2. Configure Security Settings | 3. Configure Security Groups | 4. Configure Routing | 5. Register Targets | 6. Review

Step 4: Configure Routing

Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and performs health checks on the targets using these health check settings. Note that each target group can be associated with only one load balancer.

Target group

Target group:

Name:

Target type: ☒ Instance
☐ IP
☐ Lambda function

Protocol:

Port:

Health checks

Protocol:

Cancel Previous Next: Register Targets

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06:58 PM 26-08-2020

Create Load Balancer | EC2 Man... | Day-4 Assignment-question.pdf | +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:

Apps | Google | Google Images | Inbox (59) | sairam... | Web Admin | Epson Connect - Us... | L455 Series | L1455 Series | edgemonney.co.in | PSA Login Page | Other bookmarks

aws | Services | Resource Groups | ⚙

🔔 | S MUNI HARISH | Ohio | Support

1. Configure Load Balancer | 2. Configure Security Settings | 3. Configure Security Groups | 4. Configure Routing | 5. Register Targets | 6. Review

Step 5: Register Targets

Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

Remove

<input type="checkbox"/>	Instance	Name	Port	State	Security groups	Zone
<input type="checkbox"/>	i-0fcd4fabe78ce416	Linux	80	running	launch-wizard-4	us-east-2c
<input type="checkbox"/>	i-0c53ed2b8cebd04e3	Linux	80	running	launch-wizard-4	us-east-2c

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

Add to registered

 on port

Cancel

Previous

Next: Review

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Type here to search

Create Load Balancer | EC2 Man... | Day-4 Assignment-question.pdf | +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:

Apps | Google | Google Images | Inbox (59) | sairam... | Web Admin | Epson Connect - Us... | L455 Series | L1455 Series | edgemonney.co.in | PSA Login Page | Other bookmarks

aws | Services | Resource Groups | ⚙

🔔 | S MUNI HARISH | Ohio | Support

Load Balancer Creation Status

✔ Successfully created load balancer

Load balancer [letsupgrade](#) was successfully created.

Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.

Suggested next steps

- Discover other services that you can integrate with your load balancer. Visit the **Integrated services** tab within [letsupgrade](#)
- Consider using AWS Global Accelerator to further improve the availability and performance of your applications. [AWS Global Accelerator console](#)

Close

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Type here to search

EC2 Management Console

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LoadBalancers:sort=loadBalancerName

Services Resource Groups

New EC2 Experience

EC2 Dashboard Events Tags Limits

Instances

Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images

AMIs

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
letsupgrade	letsupgrade-1988510746.us-...	provisioning	vpc-7944e712	us-east-2a, us-east-2b	application

Load balancer: letsupgrade

Description Listeners Monitoring Integrated services Tags

Basic Configuration

Name	letsupgrade
ARN	arn:aws:elasticloadbalancing:us-east-2:314904407690:loadbalancer/app/letsupgrade/eebd62d1e2920993
DNS name	letsupgrade-1988510746.us-east-2.elb.amazonaws.com (A Record)
State	provisioning

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Type here to search

Instances | EC2 Management Console

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#instances:sort=instancetype

Services Resource Groups

New EC2 Experience

EC2 Dashboard Events Tags Limits

Instances

Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images

AMIs

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Linux 1	i-0c53ed2b8cebd04e3	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-18-188-104-187.us-...
Linux 2	i-0fcda4fabe78ce416	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-18-219-192-239.us-...

Instance: i-0c53ed2b8cebd04e3 (Linux 1) Public DNS: ec2-18-188-104-187.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

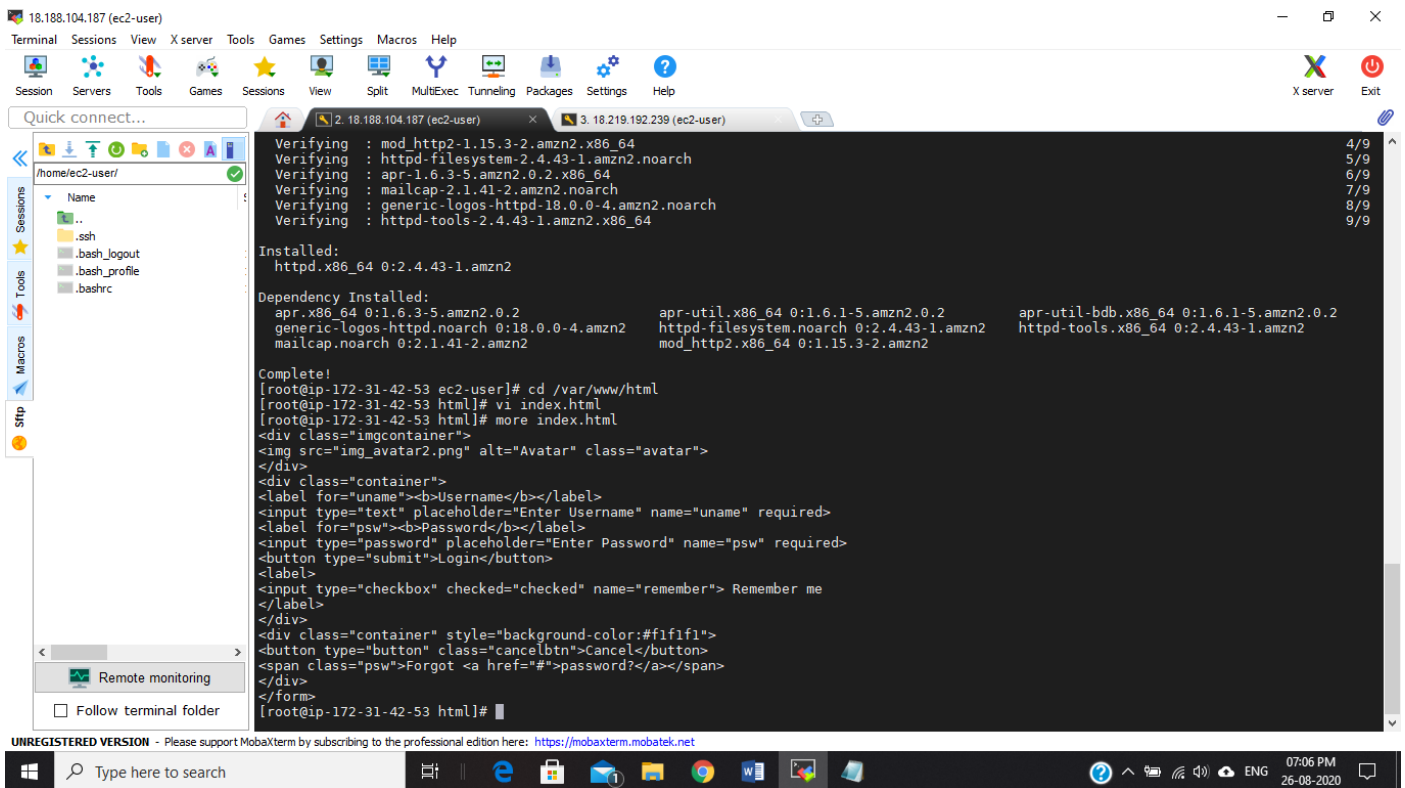
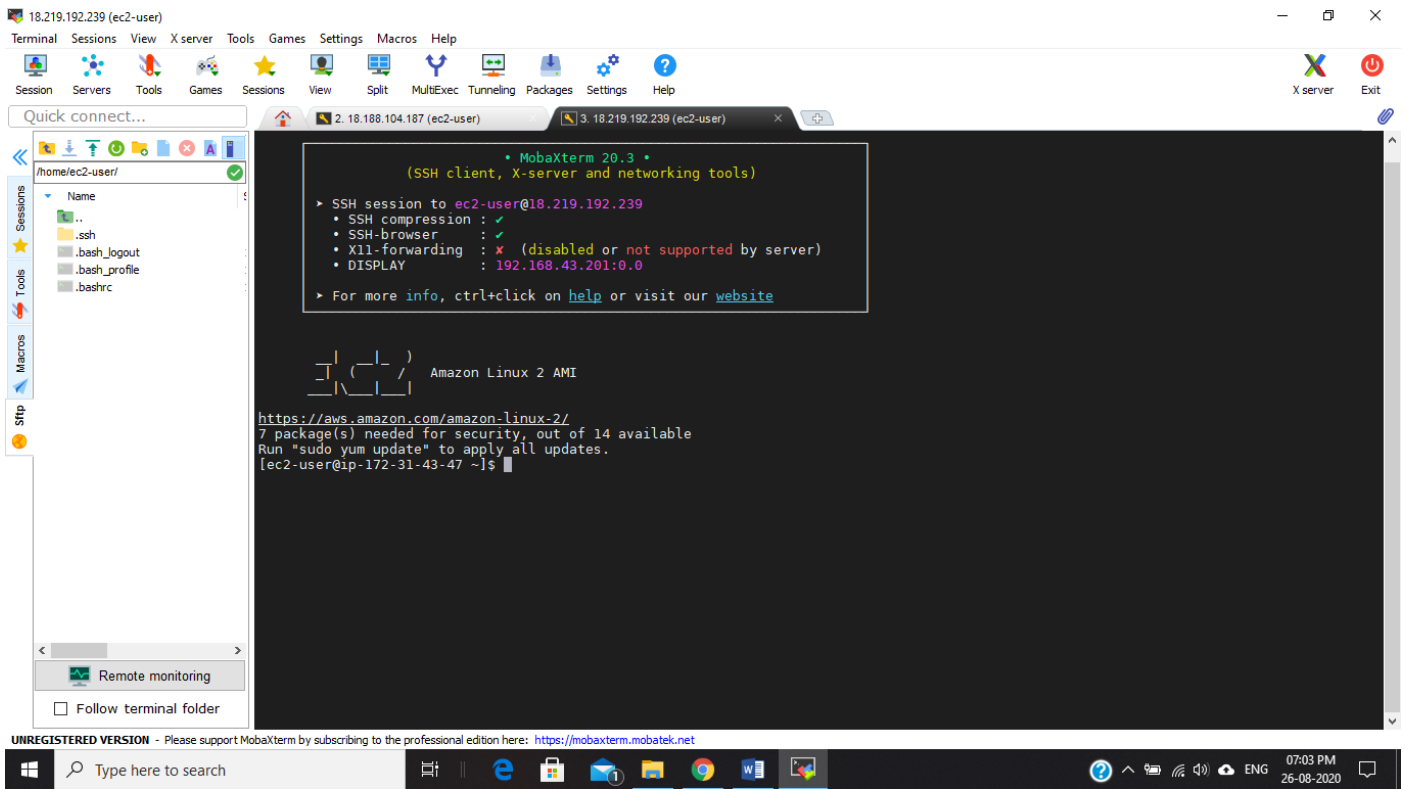
Instance ID	i-0c53ed2b8cebd04e3	Public DNS (IPv4)	ec2-18-188-104-187.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18.188.104.187
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for	Elastic IPs	

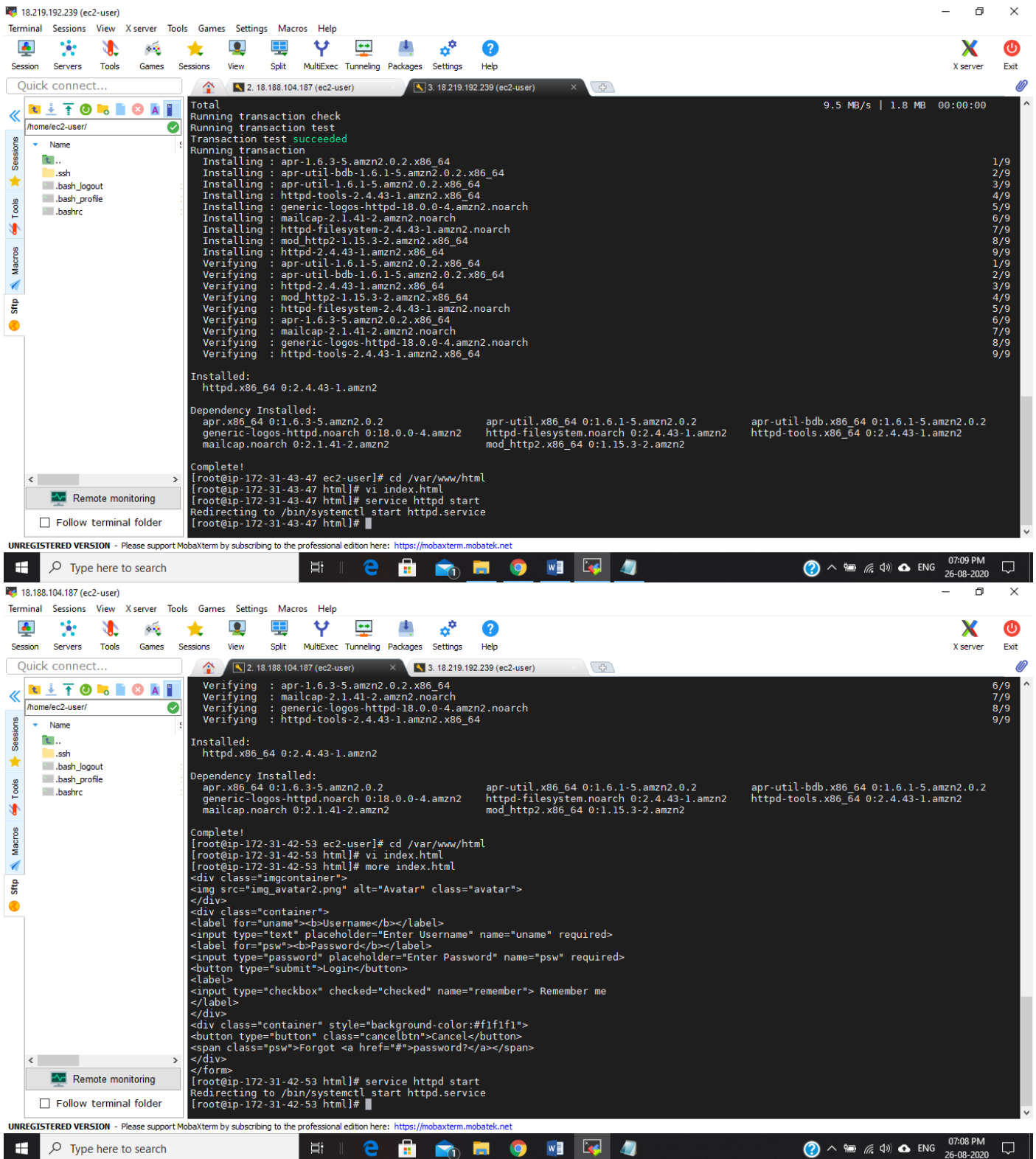
Feedback English (US)

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Type here to search

- Launch both instances using Mobaxterm





- Check if the application is deployed on both servers by copy pasting the public ip of the servers into the browser.

Instances | EC2 Management Co... x Day-4 Assignment-question.pdf x 18.188.104.187 x +

Not secure 18.188.104.187

Avatar

Username Password Login ☒ Remember me

Cancel Forgot [password?](#)



Instances | EC2 Management Co... x 18.188.104.187 x 18.219.192.239 x +

Not secure 18.219.192.239

Avatar

Username key Password key Login ☒ Remember me

Cancel Forgot [password?](#)



The screenshot displays the AWS Management Console interface. On the left, the navigation sidebar is visible, with 'Network & Security' and 'Load Balancing' expanded. The main content area shows the 'Load Balancers' page. At the top, there's a 'Create Load Balancer' button and an 'Actions' dropdown. Below this is a search bar and a table of load balancers. The table has columns for Name, DNS name, State, VPC ID, Availability Zones, and Type. One load balancer is listed: 'letsupgrade' with DNS name 'letsupgrade-1988510746.us-east-2.elb.amazonaws.com', State 'active', VPC ID 'vpc-7944e712', Availability Zones 'us-east-2a, us-east-2b', and Type 'application'. Below the table, the 'Load balancer: letsupgrade' section is shown with tabs for Description, Listeners, Monitoring, Integrated services, and Tags. The 'Description' tab is active, showing the 'Basic Configuration' for the load balancer. The configuration details include: Name 'letsupgrade', ARN 'arn:aws:elasticloadbalancing:us-east-2:314904407690:loadbalancer/app/letsupgrade/eebd62d1e2920993', DNS name 'letsupgrade-1988510746.us-east-2.elb.amazonaws.com' (with a 'Copied' button), and State 'active'.

Name	DNS name	State	VPC ID	Availability Zones	Type
letsupgrade	letsupgrade-1988510746.us-east-2.elb.amazonaws.com	active	vpc-7944e712	us-east-2a, us-east-2b	application

Load balancer: letsupgrade

Basic Configuration

- Name:** letsupgrade
- ARN:** arn:aws:elasticloadbalancing:us-east-2:314904407690:loadbalancer/app/letsupgrade/eebd62d1e2920993
- DNS name:** letsupgrade-1988510746.us-east-2.elb.amazonaws.com (Copied)
- State:** active