

AWS Project

PROJECT 3:

Step1: Create two linux instances

Use the first free linux AMI:

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
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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-35ee4c5e (default) Create new VPC

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

Auto-assign Public IP: Enable

Placement group: Add instance to placement group

Capacity Reservation: Open

IAM role: None Create new IAM role

Shutdown behavior: Stop

Cancel Previous Review and Launch Next: Add Storage

Launch instance wizard | EC2 Wizard

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

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

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring
Additional charges apply.

Tenancy: Shared - Run a shared hardware instance
Additional charges will apply for dedicated tenancy.

Elastic Inference: Add an Elastic Inference accelerator
Additional charges apply.

T2/T3 Unlimited: Enable
Additional charges may apply

File systems:

Advanced Details

Metadata accessible: Enabled

Metadata version: V1 and V2 (token optional)

Metadata token response hop limit: 1

Cancel Previous Review and Launch Next: Add Storage

Launch instance wizard | EC2 Wizard

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

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 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	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

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

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Type here to search

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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	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes
This resource currently has no tags					

Choose the Add tag button or click to add a Name tag. Make sure your [IAM policy](#) includes permissions to create tags.

Add Tag (Up to 50 tags maximum)

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

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 e.g. SSH for Admin Desktop

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**

Launch instance wizard | EC2 Metrics

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

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

Instance Details

Number of instances: 2

Purchasing option: On demand

Network: vpc-35ee4c5e

Subnet: No preference (default subnet in any Availability Zone)

EBS-optimized: No

Monitoring: No

Termination protection: Yes

Shutdown behavior: Stop

Stop - Hibernate behavior: Disabled

Capacity Reservation: open

IAM role: None

Tenancy: default

T2/T3 Unlimited: Disabled

Host ID

Host resource group name

Affinity: Off

Kernel ID: Use default

RAM disk ID: Use default

Metadata accessible: Enabled

Metadata version: V1 and V2 (token optional)

Metadata token response hop limit: 1

User data

Assign Public IP: Yes

Assign IPv6 IP: Use subnet setting (Enable)

Storage

Cancel Previous Launch

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Launch instance wizard | EC2 Metrics

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

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

Instance Details

Number of instances: 2

Purchasing option: On demand

Network: vpc-35ee4c5e

Subnet: No preference (default subnet in any Availability Zone)

EBS-optimized: No

Monitoring: No

Termination protection: Yes

Shutdown behavior: Stop

Stop - Hibernate behavior: Disabled

Capacity Reservation: open

IAM role: None

Tenancy: default

T2/T3 Unlimited: Disabled

Host ID

Host resource group name

Affinity: Off

Kernel ID: Use default

RAM disk ID: Use default

Metadata accessible: Enabled

Metadata version: V1 and V2 (token optional)

Metadata token response hop limit: 1

User data

Assign Public IP: Yes

Assign IPv6 IP: Use subnet setting (Enable)

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

Storage

Cancel Previous Launch

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The screenshot shows the AWS Launch Instance Wizard interface. At the top, it says "Launch instance wizard | EC2 Min" and "us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:". Below the header, there's a navigation bar with "Services" and "Resource Groups". On the right, it shows "Bandi Sujitha", "Ohio", and "Support". The main content area is titled "Launch Status" and contains a green box with a checkmark stating "Your instances are now launching" and "The following instance launches have been initiated: i-0fc787d11da042174, i-068ff89e16e92c380" with a link to "View launch log". There's also a blue box with an info icon and text about getting notified of estimated charges.

Launch Status

Your instances are now launching
The following instance launches have been initiated: i-0fc787d11da042174, i-068ff89e16e92c380 [View launch log](#)

Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- How to connect to your Linux instance
 - [Amazon EC2: User Guide](#)
 - [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes. (Additional charges may apply)

The screenshot shows the AWS Instances Management Console. The URL is "us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:sort=tagName". The interface includes a navigation bar with "Services" and "Resource Groups". On the right, it shows "Bandi Sujitha", "Ohio", and "Support". The main content area is titled "Instances" and shows a table of running 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, and IPv6. Two instances are listed: "Linux1" and "Linux2". Both are in the "running" state with 2/2 checks passing and no alarm status. Their public DNS and IPv4/IPv6 addresses are listed.

This screenshot is identical to the one above, showing the AWS Instances Management Console with the same URL, navigation bar, and table of running instances. The instances "Linux1" and "Linux2" are both listed as running with 2/2 checks passing and no alarm status. The table columns are: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS (IPv4), IPv4 Public IP, and IPv6.

Instances | EC2 Management Con

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances;sort=tagName

Services Resource Groups

Launch Instance Connect Actions

EC2 Dashboard New

Events New

Tags

Limits

Instances Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots

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Type here to search

Name Instance ID Instance Type Availability Zone Instance State Status Checks Alarm Status Public DNS (IPv4) IPv4 Public IP IPv6

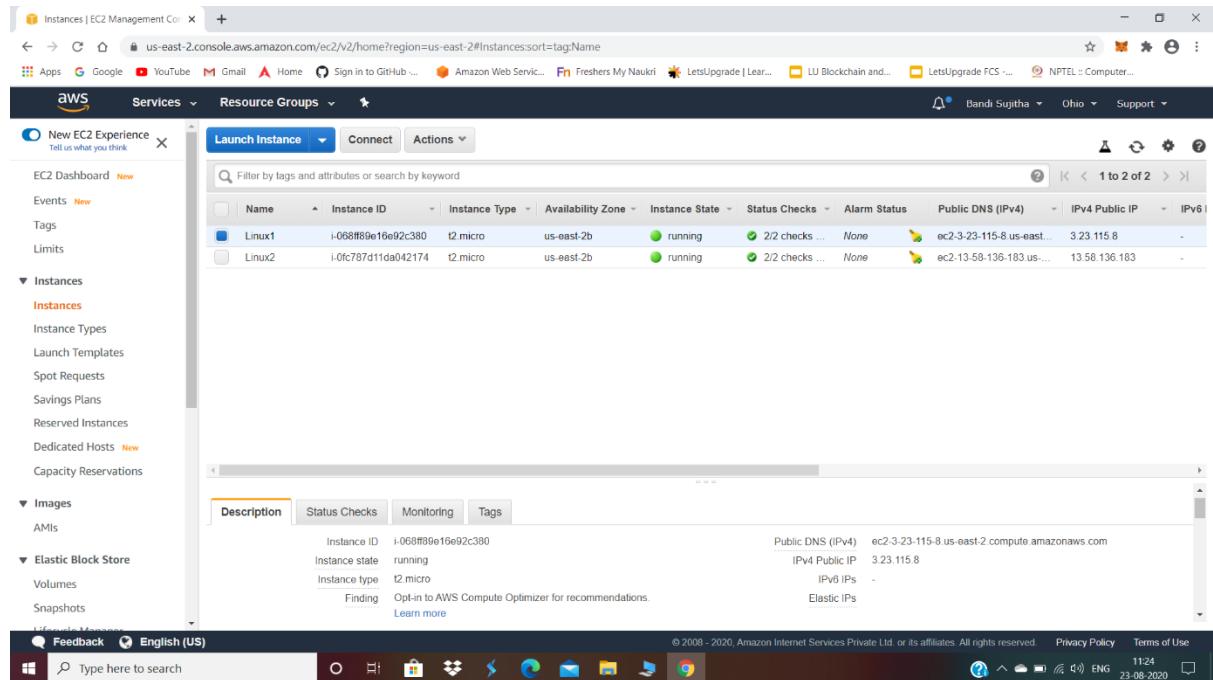
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Linux1	i-068ff89e16e92c380	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-23-115-8.us-east-2.compute.amazonaws.com	3.23.115.8	-
Linux2	i-0fc787d11da042174	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-13-58-136-183.us-east-2.compute.amazonaws.com	13.58.136.183	-

Description Status Checks Monitoring Tags

Instance ID: i-068ff89e16e92c380
Instance state: running
Instance type: t2.micro
Finding: Opt-in to AWS Compute Optimizer for recommendations
Learn more

Public DNS (IPv4): ec2-3-23-115-8.us-east-2.compute.amazonaws.com
IPv4 Public IP: 3.23.115.8
IPv6 IPs: -
Elastic IPs:

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Instances | EC2 Management Con

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances;sort=tagName

Services Resource Groups

Launch Instance Connect Actions

EC2 Dashboard New

Events New

Tags

Limits

Instances Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots

Feedback English (US)

Type here to search

Name Instance ID Instance Type Availability Zone Instance State Status Checks Alarm Status Public DNS (IPv4) IPv4 Public IP IPv6

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Linux1	i-068ff89e16e92c380	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-23-115-8.us-east-2.compute.amazonaws.com	3.23.115.8	-
Linux2	i-0fc787d11da042174	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-13-58-136-183.us-east-2.compute.amazonaws.com	13.58.136.183	-

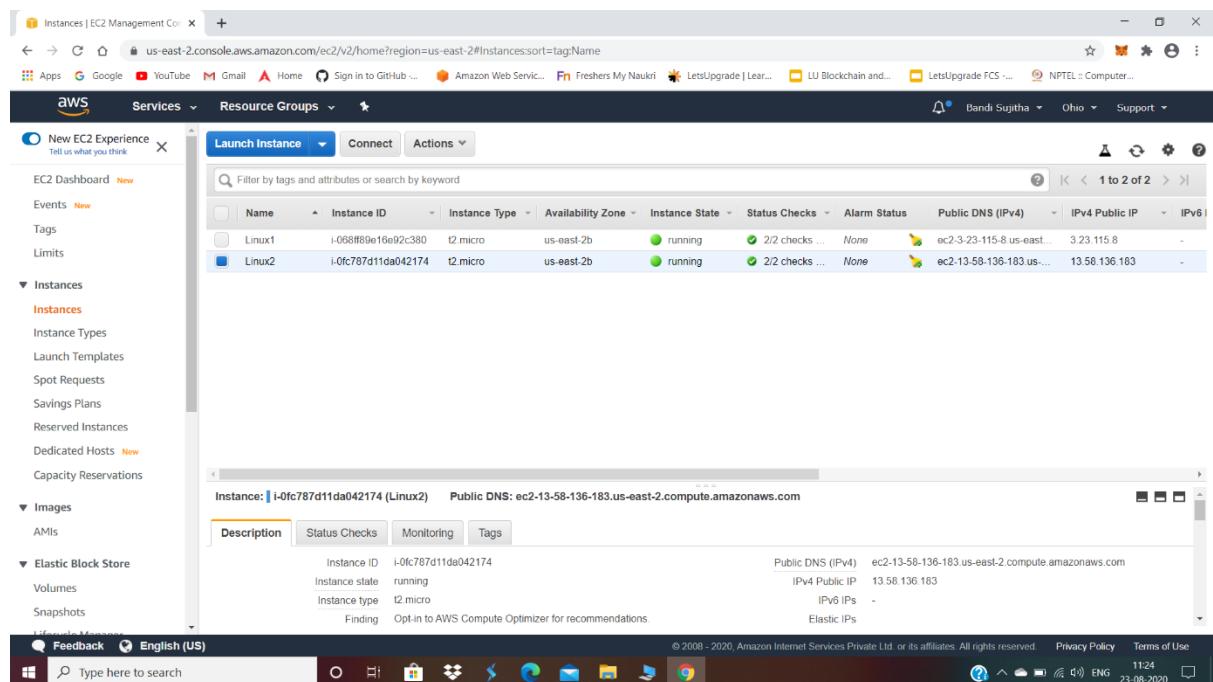
Description Status Checks Monitoring Tags

Instance: i-0fc787d11da042174 (Linux2) Public DNS: ec2-13-58-136-183.us-east-2.compute.amazonaws.com

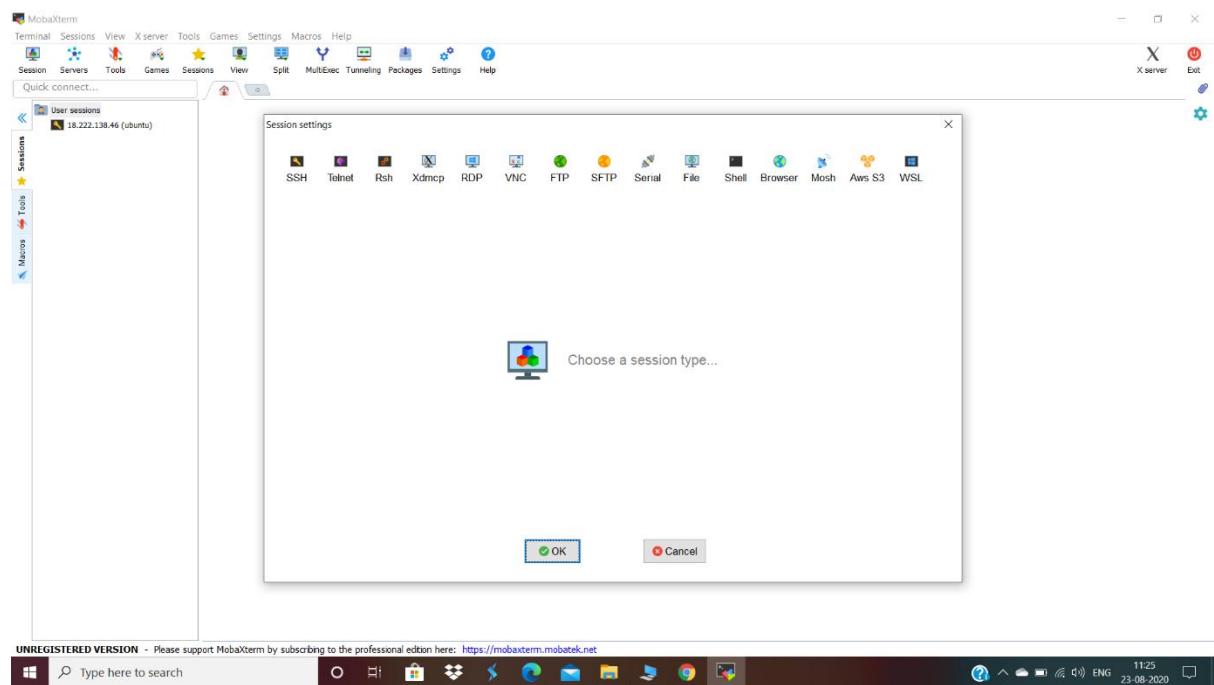
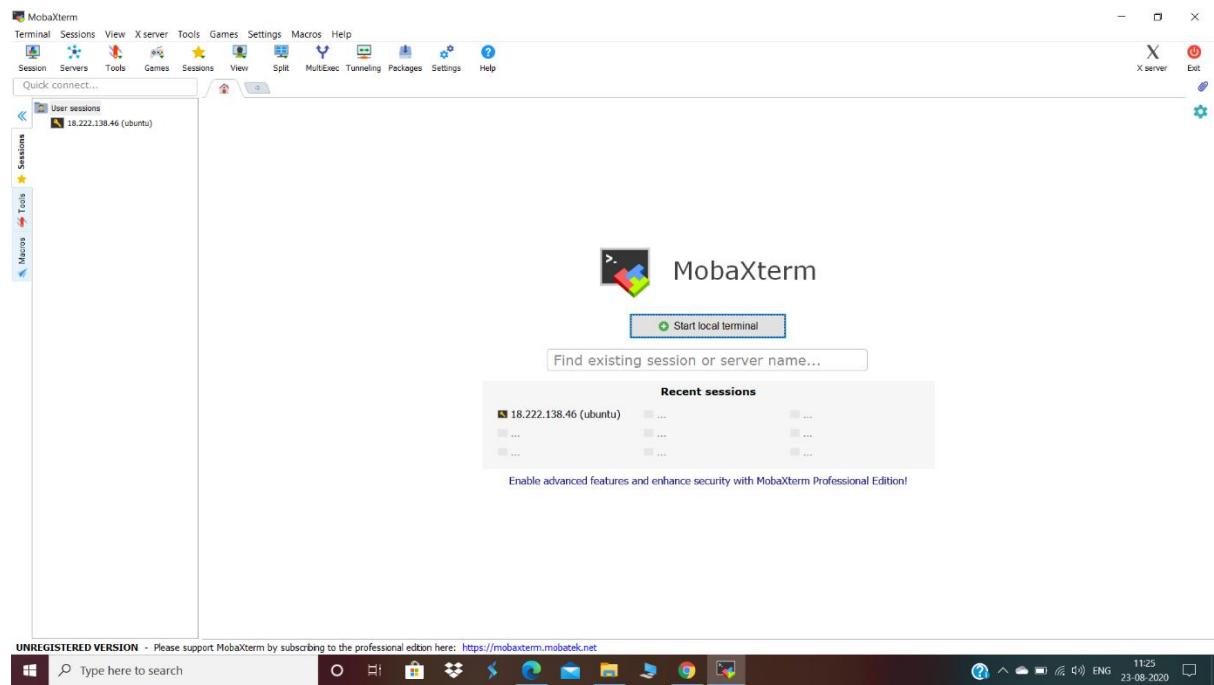
Instance ID: i-0fc787d11da042174
Instance state: running
Instance type: t2.micro
Finding: Opt-in to AWS Compute Optimizer for recommendations

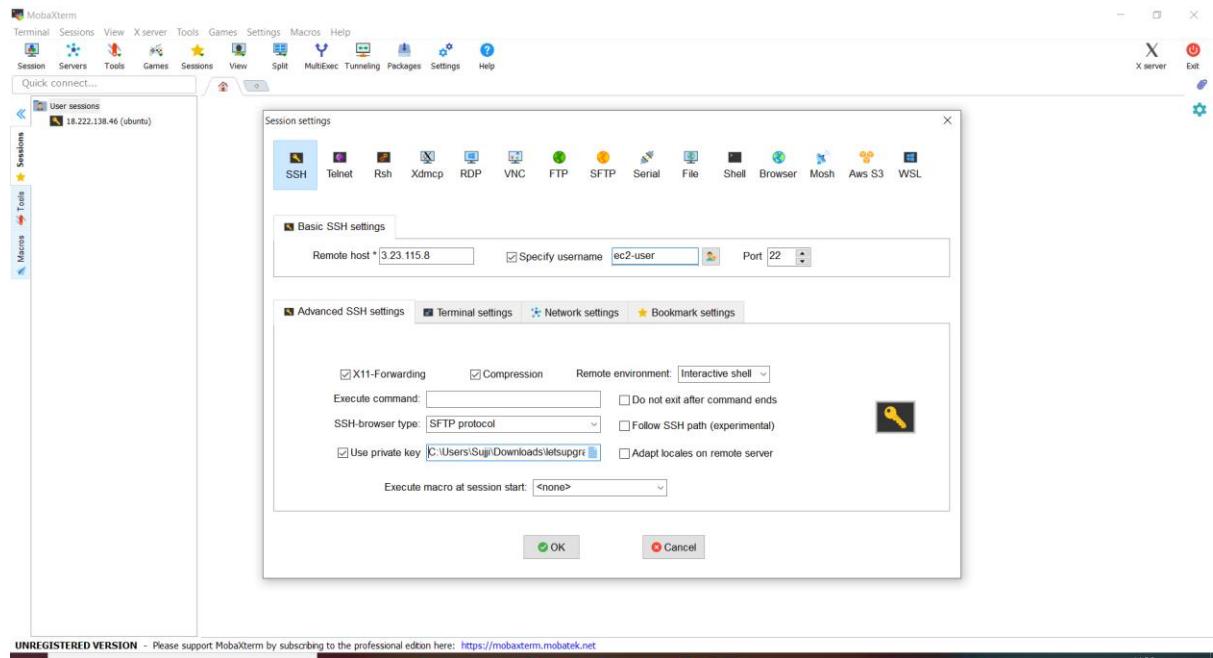
Public DNS (IPv4): ec2-13-58-136-183.us-east-2.compute.amazonaws.com
IPv4 Public IP: 13.58.136.183
IPv6 IPs: -
Elastic IPs:

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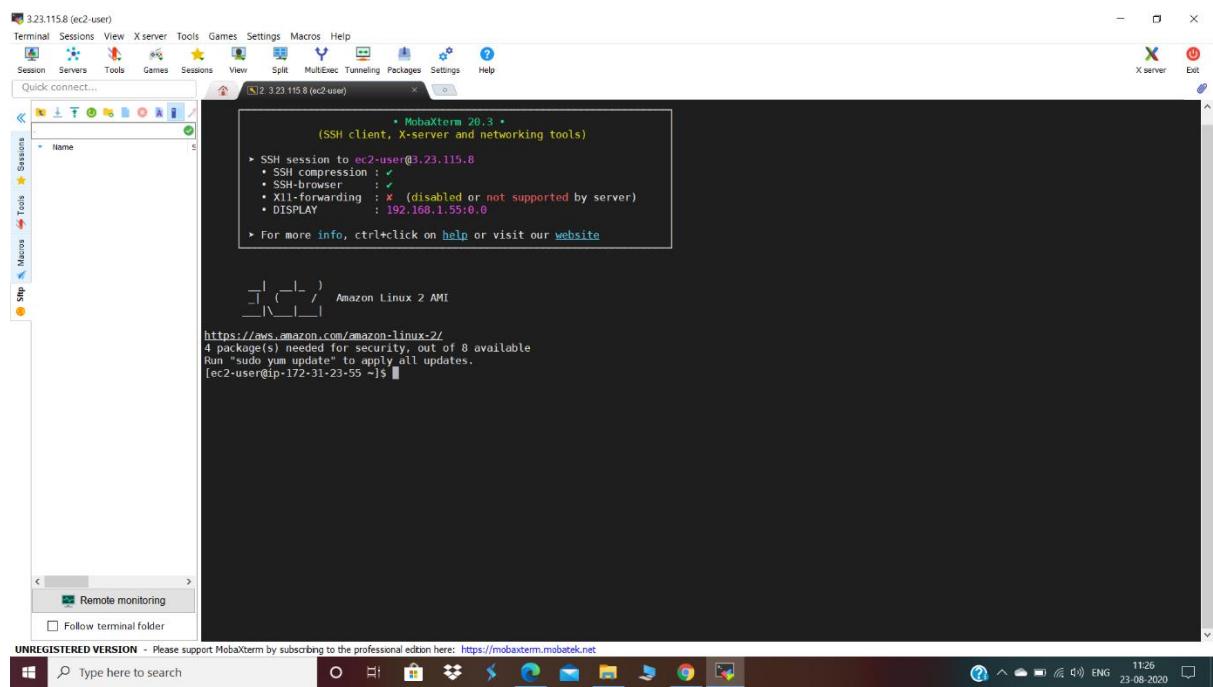


Step2: Launch both instances using MobaXterm

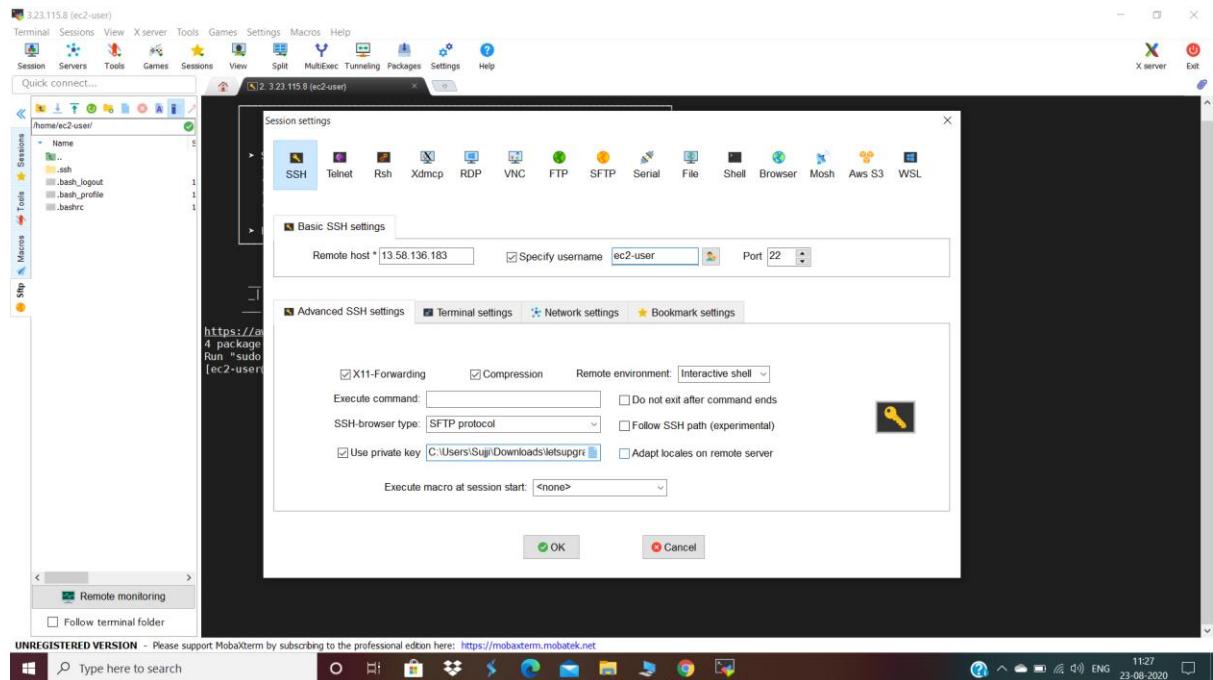




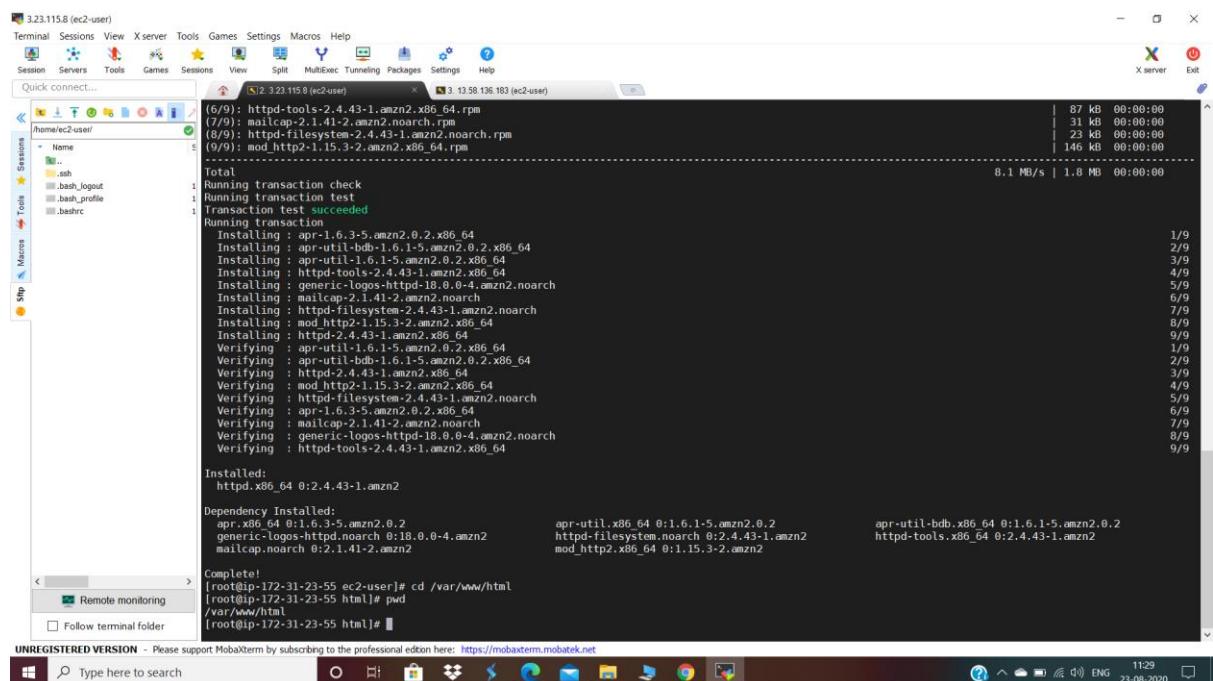
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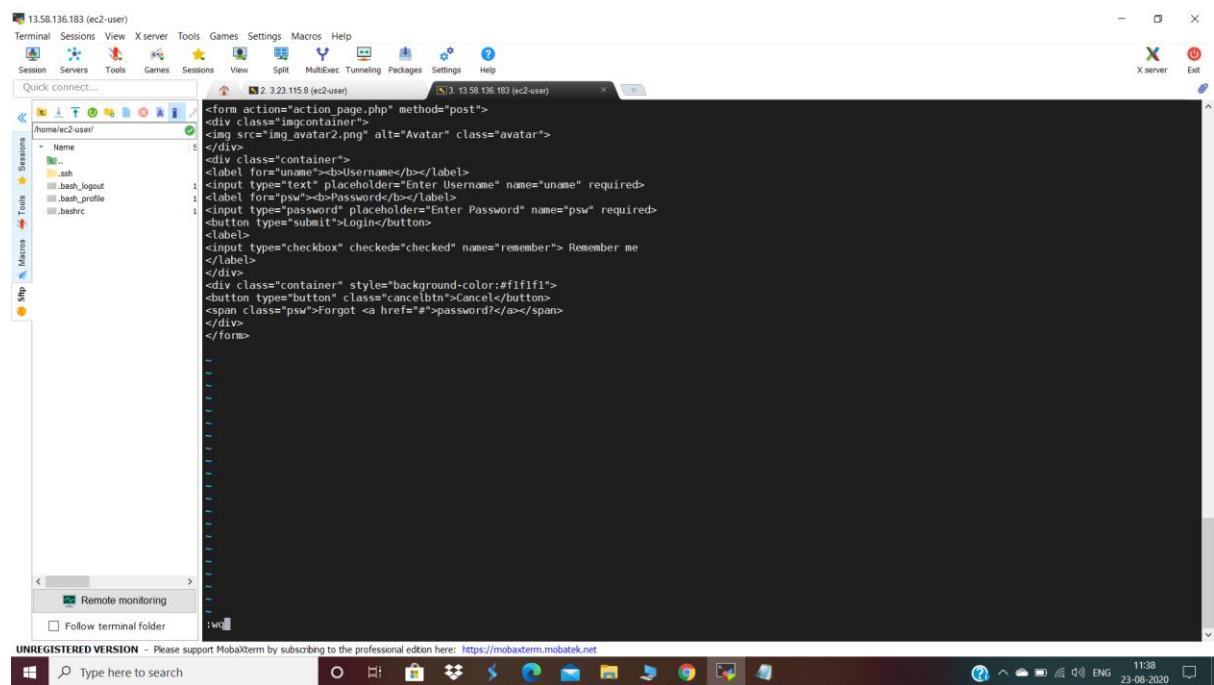
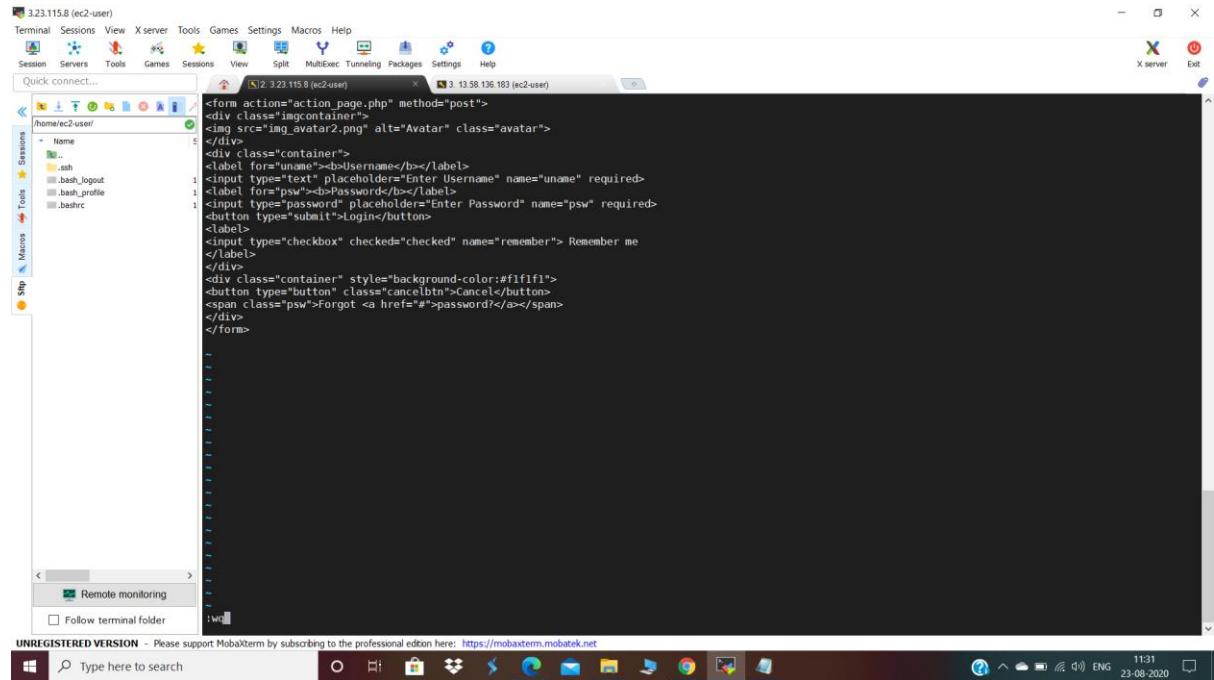


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Step4: Host html login webpage on both servers



```
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64
Verifying : mailcap-2.1.41-2.amzn2.noarch
Verifying : generic-logos-httd-18.0.0-4.amzn2.noarch
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64

Installed:
  httpd.x86_64 0:2.4.43-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2          apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httd.noarch 0:18.0.0-4.amzn2 httpd-filesystem.noarch 0:2.4.43-1.amzn2
  mailcap.noarch 0:2.1.41-2.amzn2           mod_http2.x86_64 0:1.15.3-2.amzn2

Complete!
[root@ip-172-31-23-55 ec2-user]# cd /var/www/html
[root@ip-172-31-23-55 html]# pwd
/var/www/html
[root@ip-172-31-23-55 html]# vi index.html
[root@ip-172-31-23-55 html]# more index.html
<form action="action_page.php" method="post">
<div class="img_container">

</div>
<div class="container">
<label for="uname"><b>Username</b></label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
<label>
<input type="checkbox" checked="checked" name="remember"> Remember me
</label>
</div>
<div class="container" style="background-color:#f1f1f1">
<button type="button" class="cancelbtn">Cancel</button>
<span class="psw">Forgot <a href="#">password?</a></span>
</div>
</form>

[root@ip-172-31-23-55 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-23-55 html]#
```

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```
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64
Verifying : mailcap-2.1.41-2.amzn2.noarch
Verifying : generic-logos-httd-18.0.0-4.amzn2.noarch
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64

Installed:
  httpd.x86_64 0:2.4.43-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2          apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httd.noarch 0:18.0.0-4.amzn2 httpd-filesystem.noarch 0:2.4.43-1.amzn2
  mailcap.noarch 0:2.1.41-2.amzn2           mod_http2.x86_64 0:1.15.3-2.amzn2

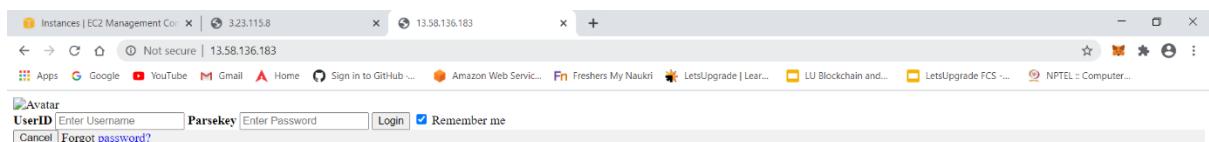
Complete!
[root@ip-172-31-19-195 ec2-user]# cd /var/www/html
[root@ip-172-31-19-195 html]# pwd
/var/www/html
[root@ip-172-31-19-195 html]# vi index.html
[root@ip-172-31-19-195 html]# more index.html
<form action="action_page.php" method="post">
<div class="img_container">

</div>
<div class="container">
<label for="uname"><b>Username</b></label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
<label>
<input type="checkbox" checked="checked" name="remember"> Remember me
</label>
</div>
<div class="container" style="background-color:#f1f1f1">
<button type="button" class="cancelbtn">Cancel</button>
<span class="psw">Forgot <a href="#">password?</a></span>
</div>
</form>

[root@ip-172-31-19-195 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-19-195 html]#
```

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Step5: Check is application is deployed on both servers by copy pasting the public ip of the servers into the browser.



Step6: Create a application Load balancer with the above two instances as targets

The screenshot shows the 'Select load balancer type' step of the AWS Create Load Balancer wizard. It compares three types:

- Application Load Balancer**: Handles HTTP and HTTPS traffic.
- Network Load Balancer**: Handles TCP, TLS, and UDP traffic.
- Classic Load Balancer**: Handles HTTP, HTTPS, and TCP traffic, designed for previous-generation applications.

Each section includes a 'Create' button and a 'Learn more >' link.

The screenshot shows the Windows taskbar with the AWS Lambda icon visible among other application icons.

The screenshot shows the 'Step 1: Configure Load Balancer' page of the AWS Create Load Balancer wizard. The steps are numbered 1 through 6.

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.

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

Availability Zones

Cancel Next: Configure Security Settings

Create Load Balancer | EC2 Manager

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

Services Resource Groups

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

Step 1: Configure Load Balancer

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify only one subnet per Availability Zone. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.

VPC vpc-35ee4c5e (172.31.0.0/16) (default)

Availability Zones us-east-2a subnet-33c105b
 us-east-2b subnet-fccaca86
 us-east-2c subnet-17c9a15b

IPv4 address Assigned by AWS

Add-on services

Additional AWS services can be integrated with this load balancer at launch when you enable them below. You can also add these and other services after your load balancer is created by reviewing the "Integrated Services" tab for the selected load balancer.

AWS Global Accelerator Create an accelerator to get static IP addresses and improve the performance and availability of your application. [Learn more](#)

Cancel Next: Configure Security Settings

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Create Load Balancer | EC2 Manager

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

Services Resource Groups

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

Step 2: Configure Security Settings

⚠ Improve your load balancer's security. Your load balancer is not using any secure listener.

If your traffic to the load balancer needs to be secure, use the HTTPS protocol for your front-end connection. You can go back to the first step to add/configure secure listeners under Basic Configuration section. You can also continue with current settings.

Cancel Previous Next: Configure Security Groups

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Create Load Balancer | EC2 Manager

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateLBWizard?type=application:

Services Resource Groups

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: load-balancer-wizard-1

Description: load-balancer-wizard-1 created on 2020-08-23T11:21:15.763+05:30

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

Add Rule

Cancel Previous Next: Configure Routing

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Create Load Balancer | EC2 Manager

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateLBWizard?type=application:

Services Resource Groups

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: New target group

Name: newtarget

Target type: Instance IP Lambda function

Protocol: HTTP

Port: 80

Health checks

Protocol: HTTP

Path: /

Advanced health check settings

Cancel Previous Next: Register Targets

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Create Load Balancer | EC2 Manager

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Services Resource Groups

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.

Instance	Name	Port	State	Security groups	Zone
No instances available.					

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 80

Search Instances

Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
i-068ff89e16e92c380	Linux1	running	launch-wizard-1	us-east-2b	subnet-fccaca86	172.31.16.0/20
i-0fc787d11da042174	Linux2	running	launch-wizard-1	us-east-2b	subnet-fccaca86	172.31.16.0/20

Cancel Previous Next: Review

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Create Load Balancer | EC2 Manager

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

Services Resource Groups

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.

Instance	Name	Port	State	Security groups	Zone
i-068ff89e16e92c380	Linux1	80	running	launch-wizard-1	us-east-2b
i-0fc787d11da042174	Linux2	80	running	launch-wizard-1	us-east-2b

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 80

Search Instances

Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
i-068ff89e16e92c380	Linux1	running	launch-wizard-1	us-east-2b	subnet-fccaca86	172.31.16.0/20
i-0fc787d11da042174	Linux2	running	launch-wizard-1	us-east-2b	subnet-fccaca86	172.31.16.0/20

Cancel Previous Next: Review

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Create Load Balancer | EC2 Manager

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

Services Resource Groups

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

Step 6: Review

Load balancer

Name: Sujileb
Scheme: Internet-facing
Listeners: Port:80 - Protocol:HTTP
IP address type: ipv4
VPC: vpc-35ee4c5e
Subnets: subnet-33c10b58, subnet-focaca86
Tags

Security groups

Security groups: load-balancer-wizard-1

Routing

Target group: New target group
Target group name: newtarget
Port: 80
Target type: Instance
Protocol: HTTP
Health check protocol: HTTP
Path: /
Health check port: traffic port
Healthy threshold: 5

Cancel Previous Create

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Create Load Balancer | EC2 Manager

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

Services Resource Groups

Load Balancer Creation Status

Successfully created load balancer
Load balancer Sujileb 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 Sujileb
- Consider using AWS Global Accelerator to further improve the availability and performance of your applications. [AWS Global Accelerator console](#)

Close

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The screenshot shows the AWS EC2 Management Console with the Load Balancers section selected. A table displays the following data:

Name	DNS name	State	VPC ID	Availability Zones	Type	Created
Sujjelb	Sujjelb-1457313433.us-east-2.elb.amazonaws.com	active	vpc-35ee4c5e	us-east-2a, us-east-2b	application	August 23

Step7: Check the functioning of ELB

The screenshot shows a web browser displaying the login page for the ELB. The URL in the address bar is 'sujjelb-1457313433.us-east-2.elb.amazonaws.com'. The page contains the following form elements:

Avatar
Username Enter Username
Password Enter Password
Login Remember me
Cancel [Forgot password?](#)

