

DAY-4 ASSIGNMENT

Instances | EC2 Management Console

Services ▾ Resource Groups ▾

Tags Limits Instances

Launch Instance Connect Actions ▾

Filter by tags and attributes or search by keyword

You do not have any running instances in this region.

First time using EC2? Check out the [Getting Started Guide](#).

Click the Launch Instance button to start your own server.

Launch Instance

Select an instance above

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

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Launch instance wizard | EC2 Management Console

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 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-07c8bc5c1ce9598c3 (64-bit x86) / ami-09a67037138f86e67 (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-0f4aeaec5b3ce9152

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

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7:11 PM ENG 23/08/2020

Feedback English (US)

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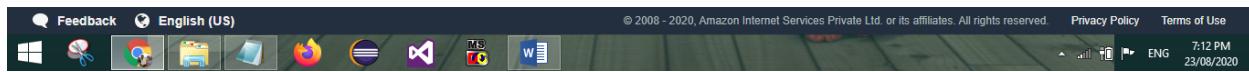
7:12 PM ENG 23/08/2020

NAME:SNEHA MOHAN

This screenshot shows the AWS Launch Instance Wizard at Step 2: Choose an Instance Type. The user has selected the t2.micro instance type, which is highlighted with a green background and labeled "Free tier eligible". The table lists various instance types across different families, including General purpose, Compute optimized, Memory optimized, Storage optimized, and GPU instances. The t2.micro row is the second one in the list.

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 Free tier eligible	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

Buttons at the bottom include Cancel, Previous, Review and Launch (highlighted in blue), and Next: Configure Instance Details.



This screenshot shows the AWS Launch Instance Wizard at Step 3: Configure Instance Details. The user has specified launching 2 instances. A note suggests launching into an Auto Scaling Group for future scaling. The purchasing options section includes Request Spot Instances, Network settings (VPC selected), Subnet (No preference), and Auto-assign Public IP (Enabled). Placement group and Capacity Reservation dropdowns are also present.

Number of instances: 2

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-5cef4d37 (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

Buttons at the bottom include Cancel, Previous, Review and Launch (highlighted in blue), and Next: Add Storage.

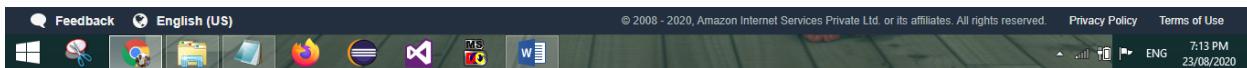


NAME:SNEHA MOHAN

This screenshot shows the 'Configure Instance Details' step of the AWS Launch Instance Wizard. The page title is 'Step 3: Configure Instance Details'. The navigation bar at the top includes tabs for 'Choose AMI', 'Choose Instance Type', 'Configure Instance', 'Add Storage', 'Add Tags', 'Configure Security Group', and 'Review'. The 'Configure Instance' tab is currently selected. The configuration options shown include:

- Placement group:** A checkbox for 'Add instance to placement group'.
- Capacity Reservation:** A dropdown menu set to 'Open'.
- IAM role:** A dropdown menu set to 'None', with a link to 'Create new IAM role'.
- Shutdown behavior:** A dropdown menu set to 'Terminate'.
- Stop - Hibernate behavior:** A checkbox for 'Enable hibernation as an additional stop behavior'.
- Enable termination protection:** A checked checkbox for 'Protect against accidental termination'.
- Monitoring:** A checkbox for 'Enable CloudWatch detailed monitoring'.
- Tenancy:** A dropdown menu set to 'Shared - Run a shared hardware instance'.
- Elastic Inference:** A checkbox for 'Add an Elastic Inference accelerator'.
- T2/T3 Unlimited:** A checkbox for 'Enable'.

At the bottom right are buttons for 'Cancel', 'Previous', 'Review and Launch' (which is highlighted in blue), and 'Next: Add Storage'.

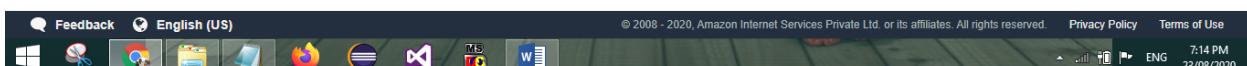


This screenshot shows the 'Add Storage' step of the AWS Launch Instance Wizard. The page title is 'Step 4: Add Storage'. The navigation bar at the top includes tabs for 'Choose AMI', 'Choose Instance Type', 'Configure Instance', 'Add Storage' (which is currently selected), 'Add Tags', 'Configure Security Group', and 'Review'. The configuration options shown include:

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"/>	<input type="checkbox"/> Not Encrypted

Below the table is a button labeled 'Add New Volume'. A note at the bottom states: '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.'

At the bottom right are buttons for 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Add Tags'.



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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)
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: launch-wizard-5

Description: launch-wizard-5 created 2020-08-23T19:14:40.602+05:30

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

Step 7: Review Instance Launch

AMI Details

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-07c8bc5c1ce9598c3
Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.

Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups

Security group name: launch-wizard-5
Description: launch-wizard-5 created 2020-08-23T19:14:40.602+05:30

Launch

Step 7: Review Instance Launch

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 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.

Launch Instances

The screenshot shows the AWS Launch Instance Wizard interface. At the top, there's a green success message: "Your instances are now launching. The following instance launches have been initiated: i-0aa96f42083f53cab, i-01d39dde288f45fc2. View launch log". Below this, there's a blue info message: "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)".

Launch Status

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
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

The screenshot shows the AWS Instances page. On the left, there's a sidebar with navigation links: Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts (New), Capacity Reservations, Images (AMIs), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security.

The main content area displays a table of instances:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
linux1	i-01d39dde288f45fc2	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-191-133-33.us...
linux2	i-0aa96f42083f53cab	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-217-59-25.us-e...

Below the table, there's a detailed view for instance i-0aa96f42083f53cab (linux2). It shows the Public DNS: ec2-18-217-59-25.us-east-2.compute.amazonaws.com. The details tab is selected, showing the following information:

Description	Instance ID: i-0aa96f42083f53cab	Public DNS (IPv4): ec2-18-217-59-25.us-east-2.compute.amazonaws.com	
Instance ID	i-0aa96f42083f53cab	Public DNS (IPv4)	
Instance state	running	IPv4 Public IP	18.217.59.25
Instance type	t2.micro	IPv6 IPs	-

EC2 Management Console New Tab +

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

Sneha Mohan Paused Ohio Support

Services Resource Groups

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name State VPC ID Availability Zones Type

You do not have any load balancers in this region.

AMIs

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups New
- Elastic IPs New
- Placement Groups New
- Key Pairs New
- Network Interfaces

Load Balancing

- Load Balancers**
- Target Groups New

Auto Scaling

- Launch Configurations
- Auto Scaling Groups

Select a load balancer

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Load... © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

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Create Load Balancer | EC2 Manager New Tab +

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

Sneha Mohan Paused Ohio Support

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-Classic network.

[Learn more >](#)

Cancel

Feedback English (US)

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NAME:SNEHA MOHAN

The screenshot shows the 'Basic Configuration' step of the AWS Load Balancer creation wizard. It includes fields for Name (Letupgradeelb), Scheme (internet-facing), and IP address type (Ipv4). Below this, the 'Listeners' section shows a table with one row for port 80, configured for HTTP. A button 'Next: Configure Security Settings' is visible.

The screenshot shows the 'Availability Zones' step of the wizard. It lists three subnets under 'us-east-2': us-east-2a (selected), us-east-2b (selected), and us-east-2c (unchecked). A note at the bottom indicates that at least two zones must be selected. A button 'Next: Configure Security Settings' is visible.

NAME:SNEHA MOHAN

The screenshot shows the AWS Lambda console with the URL us-east-2.console.aws.amazon.com/lambda/v2/home?region=us-east-2#V2CreateFunctionWizard:type=application. The top navigation bar includes 'Services', 'Resource Groups', and user information for 'Sneha Mohan'. Below the navigation, a progress bar shows steps 1 through 6: 1. Configure Lambda Function, 2. Configure Security Settings (which is selected), 3. Configure Security Groups, 4. Configure Tracing, 5. Register Targets, and 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](#)

The screenshot shows the AWS Lambda console with the URL us-east-2.console.aws.amazon.com/lambda/v2/home?region=us-east-2#V2CreateFunctionWizard:type=application. The top navigation bar includes 'Services', 'Resource Groups', and user information for 'Sneha Mohan'. Below the navigation, a progress bar shows steps 1 through 6: 1. Configure Lambda Function, 2. Configure Security Settings (which is selected), 3. Configure Security Groups, 4. Configure Tracing, 5. Register Targets, and 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](#)

The screenshot shows the AWS Lambda console with the URL us-east-2.console.aws.amazon.com/lambda/v2/home?region=us-east-2#V2CreateFunctionWizard:type=application. The top navigation bar includes 'Services', 'Resource Groups', and user information for 'Sneha Mohan'. Below the navigation, a progress bar shows steps 1 through 6: 1. Configure Lambda Function, 2. Configure Security Settings, 3. Configure Security Groups, 4. Configure Tracing (which is selected), 5. Register Targets, and 6. Review.

Create Load Balancer | EC2 Manager New Tab us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard?type=application: Paused

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

Protocol: HTTP

Port: 80

Health checks

Protocol: HTTP

Path: /

Cancel Previous Next: Register Targets

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Create Load Balancer | EC2 Manager New Tab us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard?type=application: Paused

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

Remove

	Instance	Name	Port	State	Security groups	Zone
<input type="checkbox"/>	i-0aa96f42083f53cab	linux2	80	● running	launch-wizard-5	us-east-2b
<input type="checkbox"/>	i-01d39dde288f45fc2	linux1	80	● running	launch-wizard-5	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
<input checked="" type="checkbox"/>	i-0aa96f42083f53cab	linux2	● running	launch-wizard-5	us-east-2b	subnet-25cbc5f	172.31.16.0/20
<input checked="" type="checkbox"/>	i-01d39dde288f45fc2	linux1	● running	launch-wizard-5	us-east-2b	subnet-25cbc5f	172.31.16.0/20

Cancel Previous Next: Review

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Step 6: Review

Please review the load balancer details before continuing

Load balancer

- Name: Letsupgradeelb
- Scheme: internet-facing
- Listeners: Port:80 - Protocol:HTTP
- IP address type: IPv4
- VPC: vpc-5cef4d37
- Subnets: subnet-5ac60c31, subnet-25cbbc5f
- 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

Create

Create Load Balancer | EC2 Manager

Services ▾ **Resource Groups** ▾

Cancel **Previous** **Create**

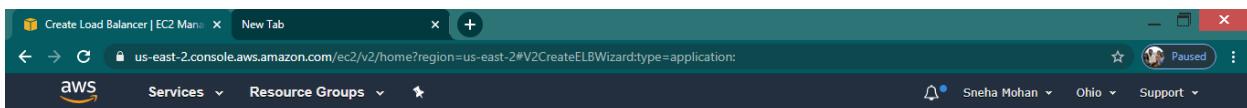
Load Balancer Creation Status

Created security group	Completed
Authorized security groups	Completed
Create Load Balancer	Completed
Create target group	Completed
Add to registered	Completed
Create Listener	In Progress

Create Load Balancer | EC2 Manager

Services ▾ **Resource Groups** ▾

Cancel **Previous** **Create**

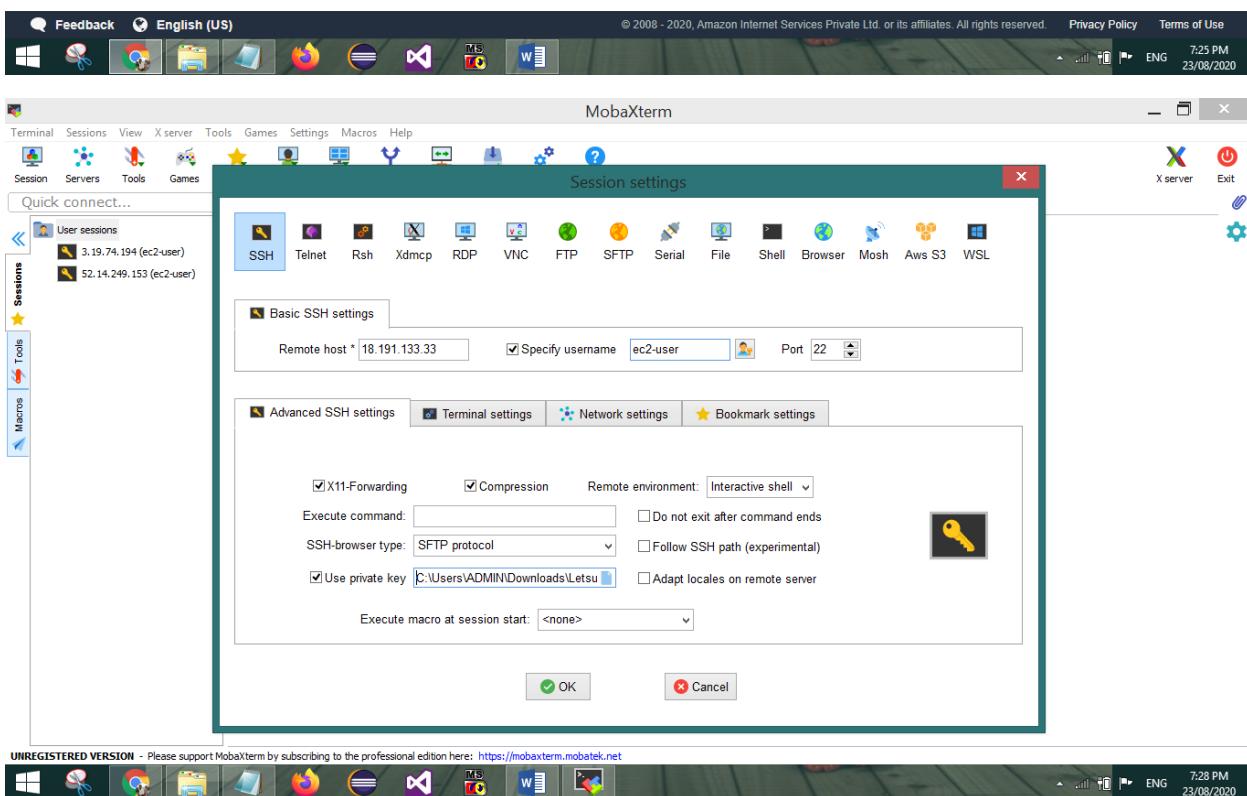


Load Balancer Creation Status

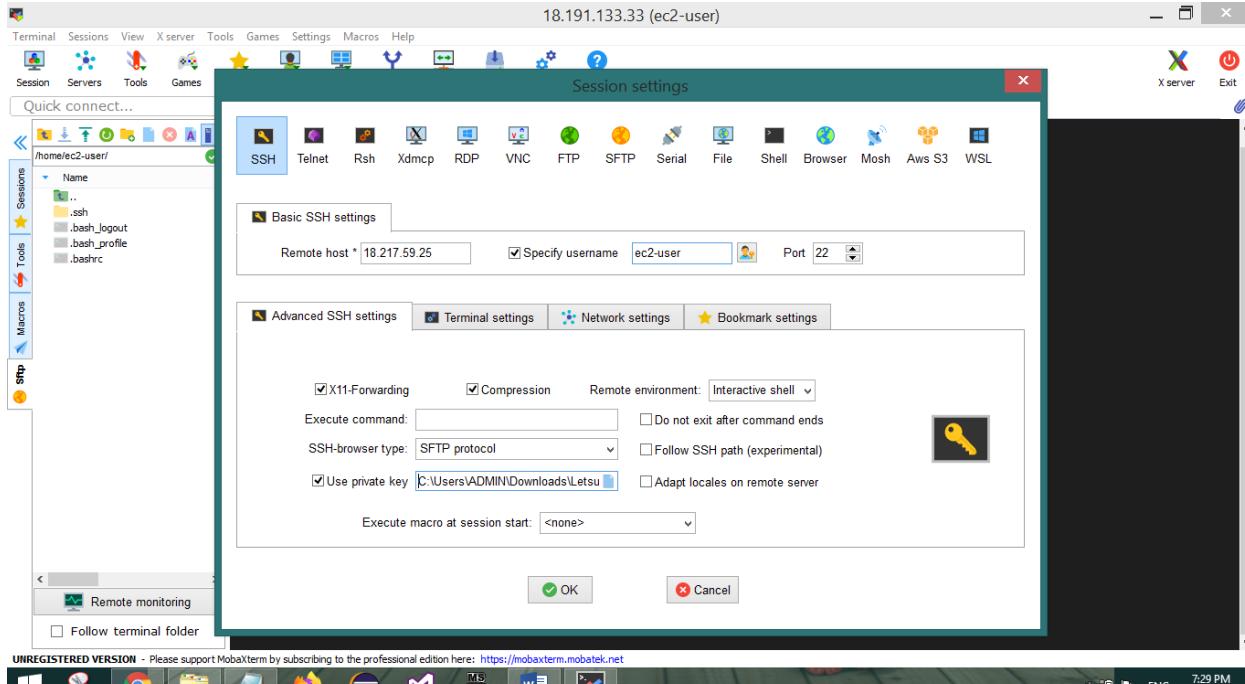
Successfully created load balancer
Load balancer Letsupgradeelb was successfully created.
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.

Suggested next steps

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

Close

NAME:SNEHA MOHAN



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```
18.191.133.33 (ec2-user)
```

The terminal window shows the process of authenticating with a public key:

```
MobaXterm 20.3
(SSHD client, X-server and networking tools)

> SSH session to ec2-user@18.191.133.33
  • SSH compression : ✓
  • SSH-browser : ✓
  • X11-forwarding : ✘ (disabled or not supported by server)
  • DISPLAY : 192.168.18.22:0.0

> For more info, ctrl+click on help or visit our website
```

Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-27-158 ~]$ sudo su
[root@ip-172-31-27-158 ~]# yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.43-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.43-1.amzn2 for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.43-1.amzn2 for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: system-Logos-Httpd for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.43-1.amzn2.x86_64
--> Running transaction check
```

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NAME:SNEHA MOHAN

18.191.133.33 (ec2-user)

Terminal Sessions View Xserver Tools Games Settings Macros Help

Sessions Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect...

/home/ec2-user/

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.43-1.amzn2.x86_64 4/9
Installing : generic-logos-httd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd-filesystem-2.4.43-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.3-2.amzn2.x86_64 8/9
Installing : httpd-2.4.43-1.amzn2.x86_64 9/9
Verifying : apr-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-2.4.43-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.3-2.amzn2.x86_64 4/9
Verifying : httpd-filesystem-2.4.43-1.amzn2.noarch 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logos-httd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9
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

Completed!
[root@ip-172-31-27-158 ec2-user]# cd /var/www/html
[root@ip-172-31-27-158 html]# pwd
/var/www/html

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18.191.133.33 (ec2-user)

Terminal Sessions View Xserver Tools Games Settings Macros Help

Sessions Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect...

/home/ec2-user/

Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9
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 apr-util-bdb.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 httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.3-2.amzn2

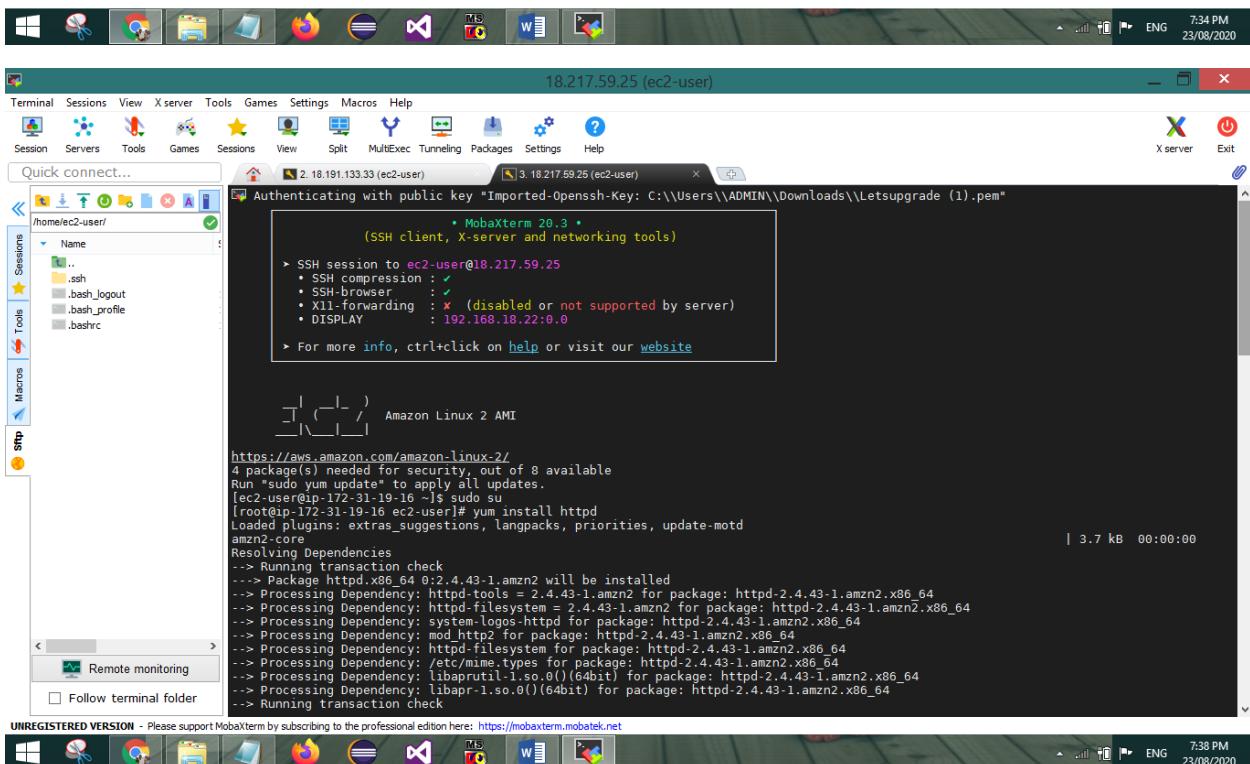
Completed!
[root@ip-172-31-27-158 ec2-user]# cd /var/www/html
[root@ip-172-31-27-158 html]# pwd
/var/www/html
[root@ip-172-31-27-158 html]# vi index.html
[root@ip-172-31-27-158 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

</div>
<div class="container">
<label for="uname">Username</label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw">Password</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>
Forgot password?
</div>
</form>
[root@ip-172-31-27-158 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-27-158 html]# █

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```
18.217.59.25 (ec2-user)

Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help
Quick connect... 2.18.191.133.33 (ec2-user) 3.18.217.59.25 (ec2-user)
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64
Installing : httpd-tools-2.4.43-1.amzn2.x86_64
Installing : generic-logos-httd-18.0.0-4.amzn2.noarch
Installing : mailcap-2.1.41-2.amzn2.noarch
Installing : httpd-filesystem-2.4.43-1.amzn2.noarch
Installing : mod_http2-1.15.3-2.amzn2.x86_64
Installing : httpd-2.4.43-1.amzn2.x86_64
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
Verifying : httpd-2.4.43-1.amzn2.x86_64
Verifying : mod_http2-1.15.3-2.amzn2.x86_64
Verifying : httpd-filesystem-2.4.43-1.amzn2.noarch
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      apr-util-bdb.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  httpd-tools.x86_64 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-172-31-19-16 ec2-user]# cd /var/www/html
[root@ip-172-31-19-16 html]# pwd
/var/www/html
[root@ip-172-31-19-16 html]# vi index.html
[root@ip-172-31-19-16 html]# 
```

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Windows File Explorer Task View Taskbar 7:38 PM 23/08/2020

```
18.217.59.25 (ec2-user)

Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help
Quick connect... 2.18.191.133.33 (ec2-user) 3.18.217.59.25 (ec2-user)
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64
9/9

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      apr-util-bdb.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  httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2          mod_http2.x86_64 0:1.15.3-2.amzn2

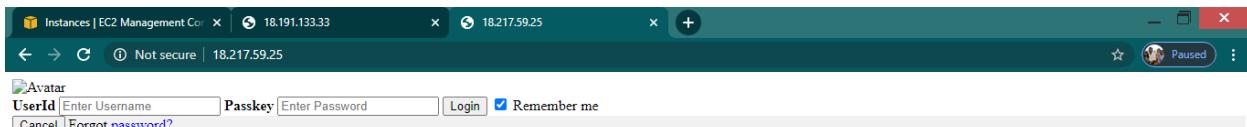
Complete!
[root@ip-172-31-19-16 ec2-user]# cd /var/www/html
[root@ip-172-31-19-16 html]# pwd
/var/www/html
[root@ip-172-31-19-16 html]# vi index.html
[root@ip-172-31-19-16 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

</div>
<div class="container">
<label for="uname"><b>UserId</b></label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw"><b>Passkey</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-172-31-19-16 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-19-16 html]# 
```

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Windows File Explorer Task View Taskbar 7:39 PM 23/08/2020

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The screenshot shows the AWS EC2 Management Console. The left sidebar is collapsed, showing the 'Services' menu with options like 'Images', 'AMIs', 'Elastic Block Store', 'Network & Security', 'Load Balancing', and 'Auto Scaling'. The main content area displays a table for 'Load Balancers'. One entry is visible: 'Name' is 'Letsupgradeelb', 'DNS name' is 'Letsupgradeelb-267678845...', 'State' is 'active', 'VPC ID' is 'vpc-5cef4d37', 'Availability Zones' are 'us-east-2b, us-east-2a', and 'Type' is 'application'. The 'Actions' tab is selected. The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 23/08/2020 at 7:39 PM.

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