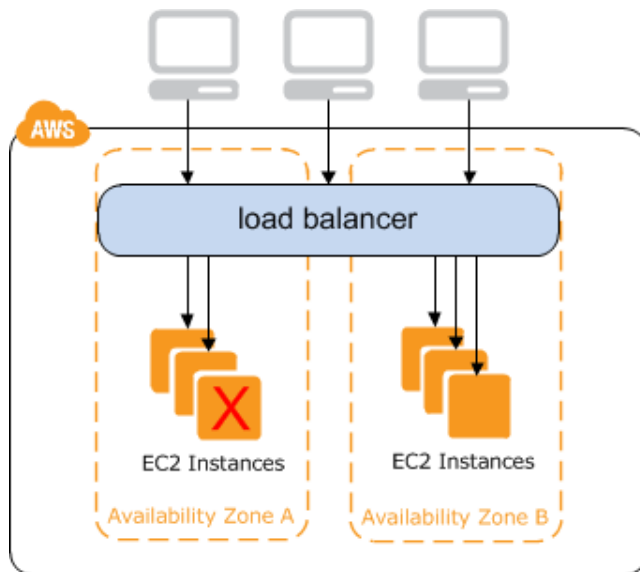


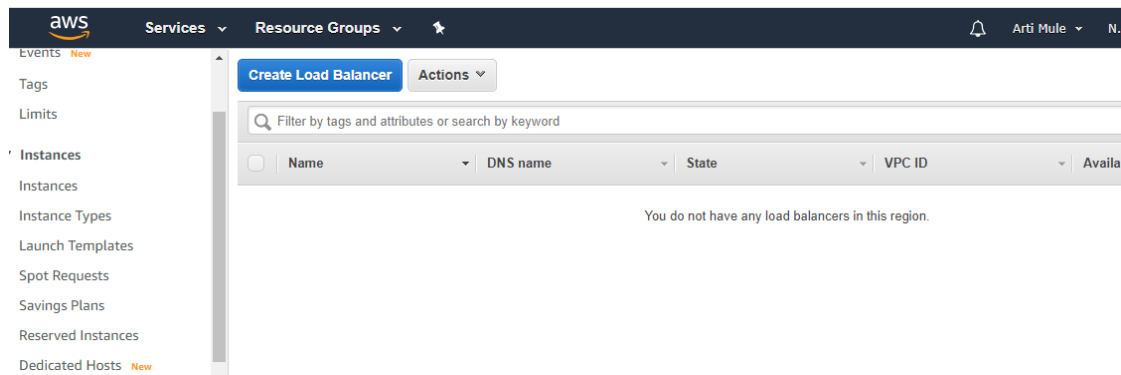
EC2 - Classic Load Balance

A load balancer distributes incoming application traffic across multiple EC2 instances in multiple Availability Zones. This increases the fault tolerance of your applications. Elastic Load Balancing detects unhealthy instances and routes traffic only to healthy instances.



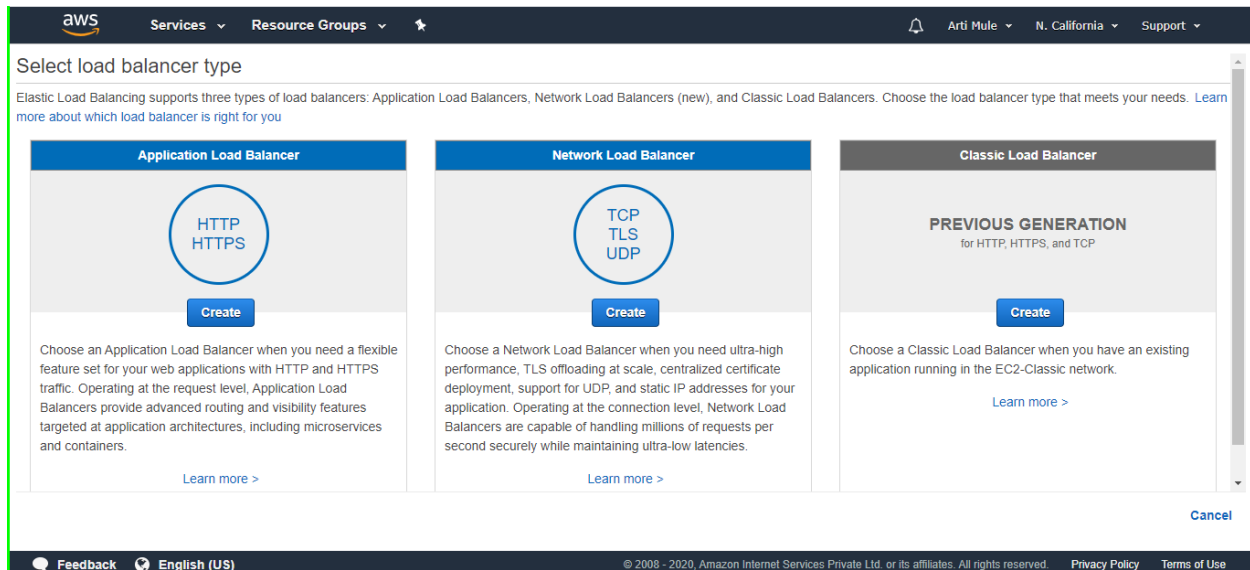
For example, if you have ten instances in Availability Zone us-west-2a and two instances in us-west-2b, the requests are distributed evenly between the two Availability Zones. As a result, the two instances in us-west-2b serve the same amount of traffic as the ten instances in us-west-2a. Instead, you should have six instances in each Availability Zone.

1. Open the Amazon EC2 console, On the navigation pane, under LOAD BALANCING, choose Load Balancers. And click create Load Balancer



2. Select a load balancer type:

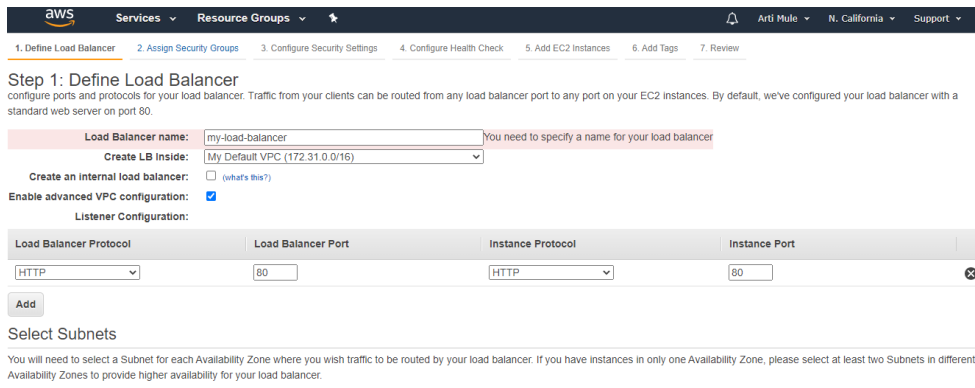
Elastic Load Balancing supports three types of load balancers: Application Load Balancers, Network Load Balancers, and Classic Load Balancers. For create create a Classic Load Balancer



3. For Load Balancer name, type a name for your load balancer.

For Create LB inside, select the same network that you selected for your instances: EC2-Classic or a specific VPC.

[Default VPC] If you selected a default VPC and would like to choose the subnets for your load balancer, select Enable advanced VPC configuration.



4. Select Available subnets

Select Subnets

You will need to select a Subnet for each Availability Zone where you wish traffic to be routed by your load balancer. If you have instances in only one Availability Zone, please select at least two Subnets in different Availability Zones to provide higher availability for your load balancer.

VPC vpc-5042b036 (172.31.0.0/16)

Available subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
---------	-------------------	-----------	-------------	------

Selected subnets

Actions	Availability Zone	Subnet ID	Subnet CIDR	Name
	us-west-1a	subnet-c2ba4298	172.31.0.0/20	
	us-west-1b	subnet-4cdc702a	172.31.16.0/20	

[Cancel](#) [Next: Assign Security Groups](#)

Choose Next: Assign Security Groups.

- On the Assign Security Groups page, select Create a new security group
Type a name and description for your security group, or leave the default name and description. This new security group contains a rule that allows traffic to the port that you configured your load balancer to use.

Step 2: Assign Security Groups
You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.

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

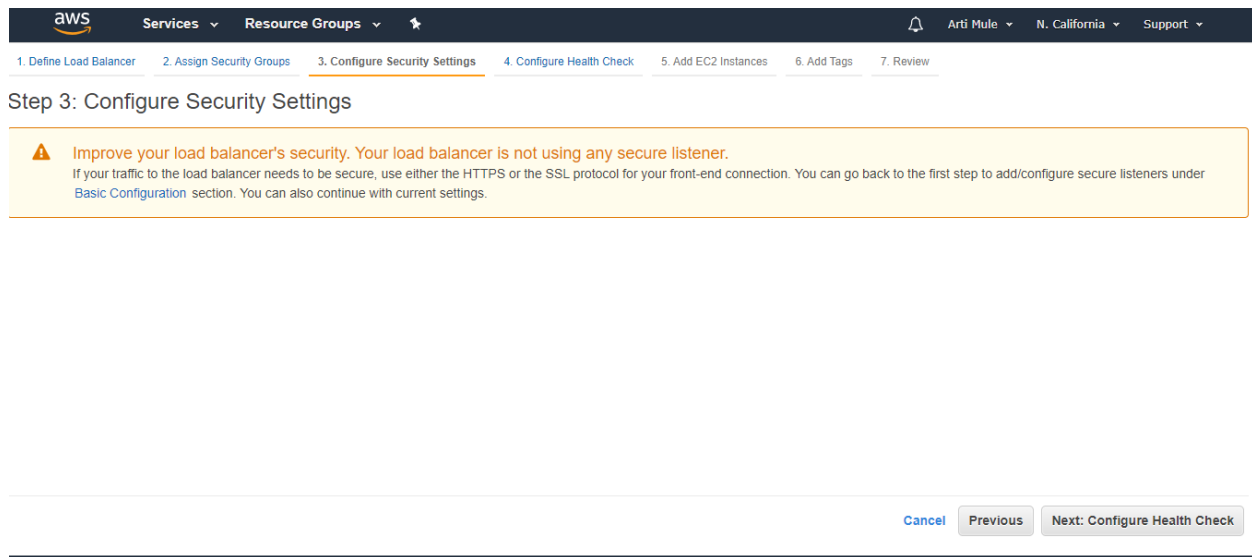
Security group name:
Description:

Type	Protocol	Port Range	Source
HTTP	TCP	80	Custom 0.0.0.0/0

[Add Rule](#)

[Cancel](#) [Previous](#) [Next: Configure Security Settings](#)

Click Next:Configure Security Setting



aws Services Resource Groups

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

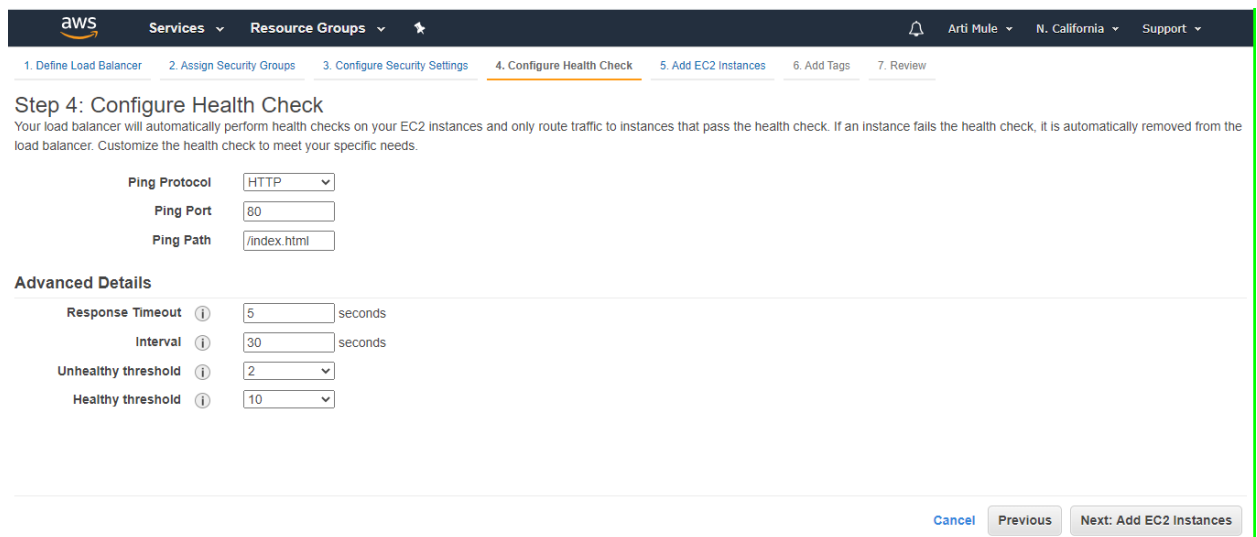
Step 3: Configure Security Settings

⚠ 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 either the HTTPS or the SSL 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 Health Check

Click Next: Configure Health Check

- On the Configure Health Check page, leave Ping Protocol set to HTTP and Ping Port set to 80.
For Ping Path, replace the default value with a single forward slash ("/"). This tells Elastic Load Balancing to send health check queries to the default home page for your web server, such as `index.html`.



aws Services Resource Groups

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

Step 4: Configure Health Check

Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.

Ping Protocol

Ping Port

Ping Path

Advanced Details

Response Timeout seconds

Interval seconds

Unhealthy threshold

Healthy threshold

Cancel Previous Next: Add EC2 Instances

Click Next: Add EC2 Instances.

- On the Add EC2 Instances page, select the instances to register with your load balancer.

The screenshot shows the AWS Management Console interface for the 'Add EC2 Instances' step. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a star icon. The breadcrumb trail shows steps: 1. Define Load Balancer, 2. Assign Security Groups, 3. Configure Security Settings, 4. Configure Health Check, 5. Add EC2 Instances (highlighted), 6. Add Tags, and 7. Review. The main heading is 'Step 5: Add EC2 Instances'. Below it, a message states: 'The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.' A VPC identifier 'vpc-5042b036 (172.31.0.0/16)' is shown. A table lists EC2 instances with columns: Instance (checkbox), Name, State, Security groups, Zone, Subnet ID, and Subnet CIDR. One instance is listed: 'i-02c1a2dbb62bc007' with state 'running' and security group 'launch-wizard-1'. Below the table, the 'Availability Zone Distribution' section has two checked options: 'Enable Cross-Zone Load Balancing' and 'Enable Connection Draining' (set to 300 seconds). At the bottom right are buttons for 'Cancel', 'Previous', and 'Next: Add Tags'.

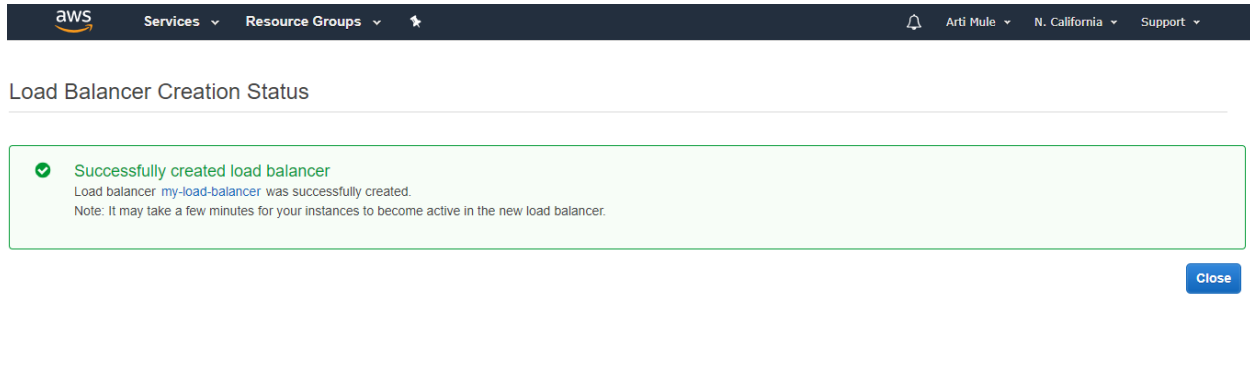
<input type="checkbox"/>	Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
<input type="checkbox"/>	i-02c1a2dbb62bc007		running	launch-wizard-1	us-west-1b	subnet-4cdc702a	172.31.16.0/20

Click Next: Add Tags.

- check Review status if you want any changes we can do it. otherwise click on create

The screenshot shows the 'Step 7: Review' page of the AWS Management Console. The breadcrumb trail is: 1. Define Load Balancer, 2. Assign Security Groups, 3. Configure Security Settings, 4. Configure Health Check, 5. Add EC2 Instances, 6. Add Tags, and 7. Review (highlighted). The page is divided into three expandable sections: 'Define Load Balancer', 'Configure Health Check', and 'Add EC2 Instances'. The 'Define Load Balancer' section shows: Load Balancer name: my-load-balancer, Scheme: internet-facing, and Port Configuration: 80 (HTTP) forwarding to 80 (HTTP). The 'Configure Health Check' section shows: Ping Target: HTTP:80/index.html, Timeout: 5 seconds, Interval: 30 seconds, Unhealthy threshold: 2, and Healthy threshold: 10. The 'Add EC2 Instances' section shows: Cross-Zone Load Balancing: Enabled, Connection Draining: Enabled, 300 seconds, and Instances: (empty list). Each section has an 'Edit' link. At the bottom right are buttons for 'Cancel', 'Previous', and 'Create'. The footer includes 'Feedback', 'English (US)', and copyright information: '© 2008 - 2020. Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

9. Successfully create load balancer



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information. Below this, the page title is 'Load Balancer Creation Status'. A green success message box states: 'Successfully created load balancer. Load balancer my-load-balancer was successfully created. Note: It may take a few minutes for your instances to become active in the new load balancer.' A 'Close' button is located at the bottom right of the message box.

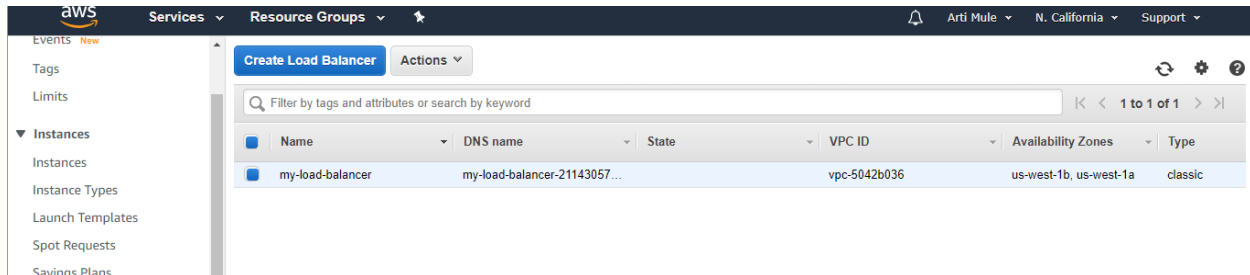
aws Services Resource Groups

Load Balancer Creation Status

✓ **Successfully created load balancer**
Load balancer [my-load-balancer](#) was successfully created.
Note: It may take a few minutes for your instances to become active in the new load balancer.

Close

10. check Load Balancer



The screenshot shows the AWS Management Console interface for the 'Load Balancers' page. The left sidebar shows the navigation menu with 'Instances' expanded. The main content area has a 'Create Load Balancer' button and an 'Actions' dropdown. Below this is a search bar and a table listing the load balancers. The table has columns: Name, DNS name, State, VPC ID, Availability Zones, and Type. One load balancer is listed: 'my-load-balancer' with DNS name 'my-load-balancer-21143057...', VPC ID 'vpc-5042b036', Availability Zones 'us-west-1b, us-west-1a', and Type 'classic'.

aws Services Resource Groups

Events Tags Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
my-load-balancer	my-load-balancer-21143057...		vpc-5042b036	us-west-1b, us-west-1a	classic