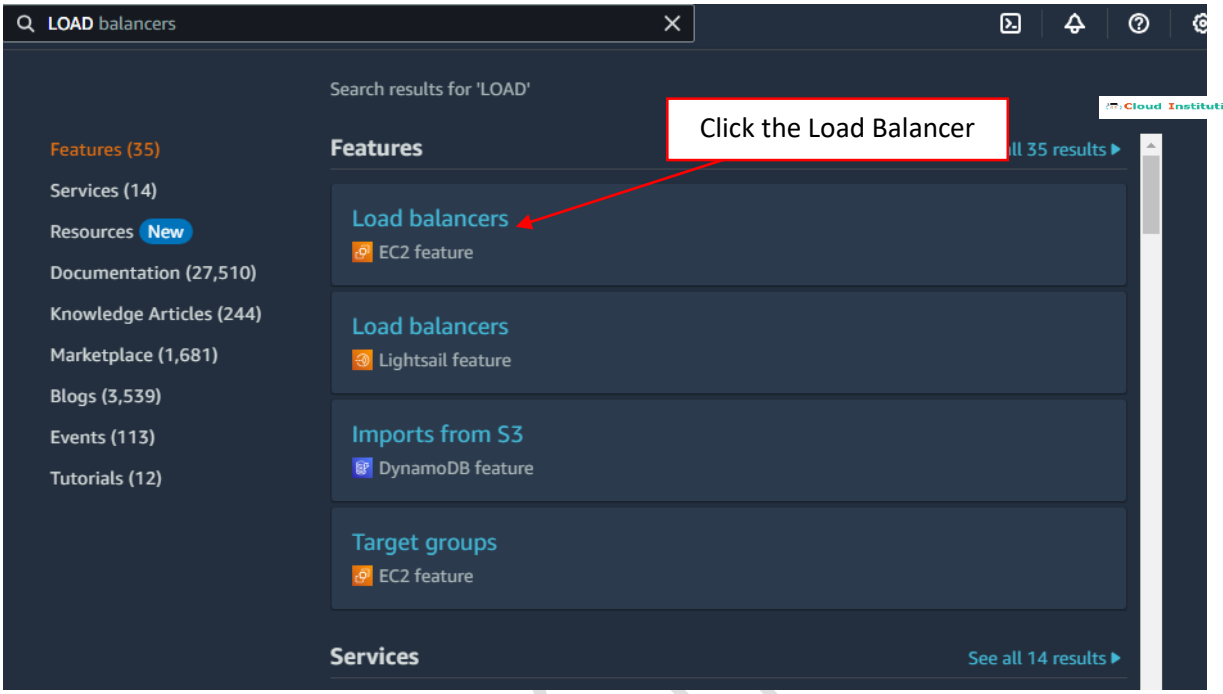
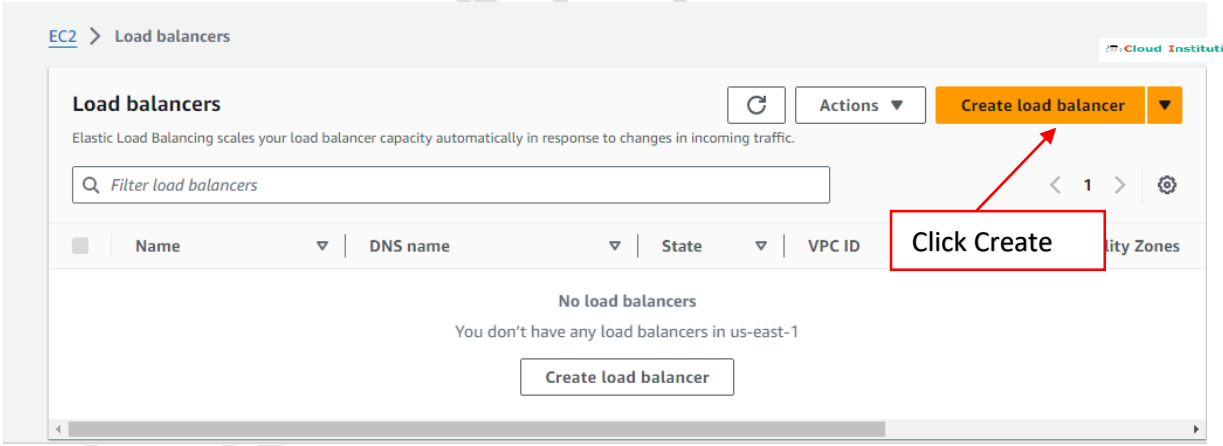
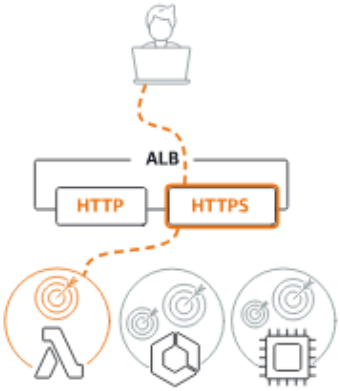
LOAD BALANCER





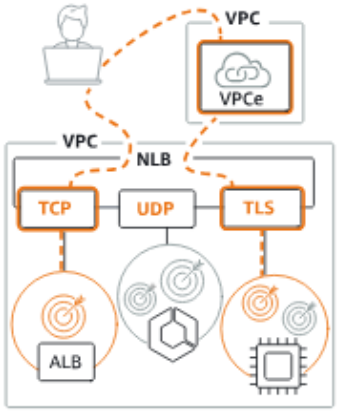
Application Load Balancer Info



Choose an Application Load Balancer when you need a flexible feature set for your 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.

Create

Network Load Balancer Info



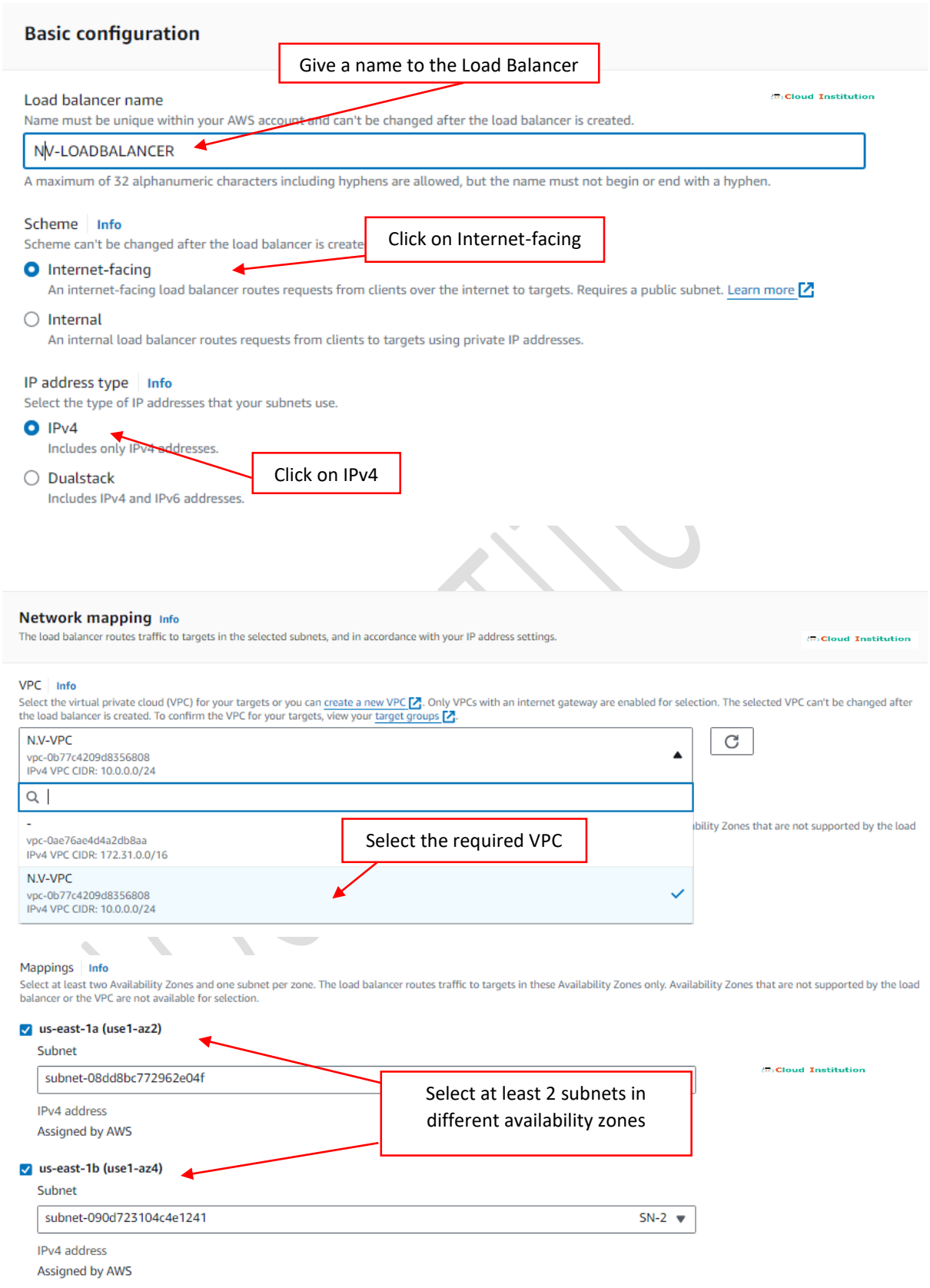
Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your applications. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per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

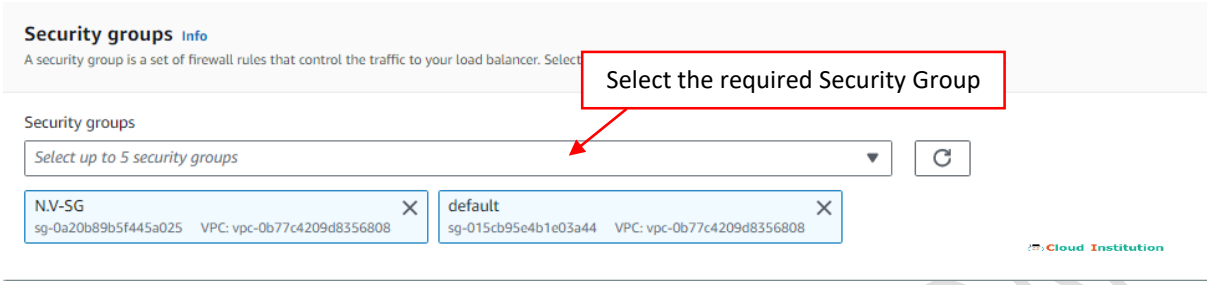
Create

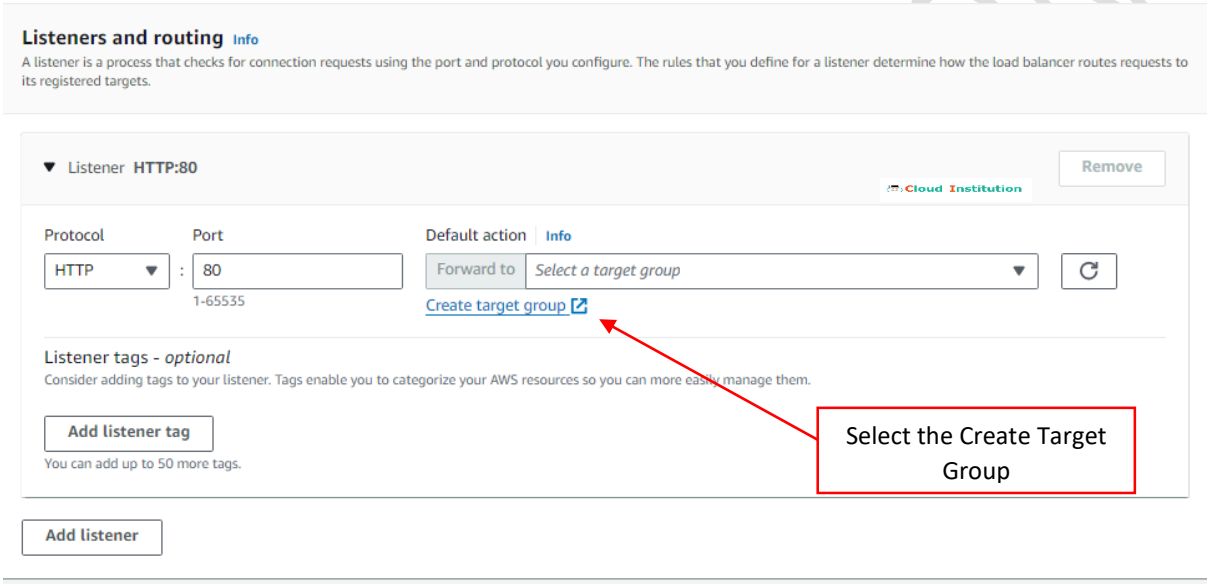
Gateway Load Balancer Info

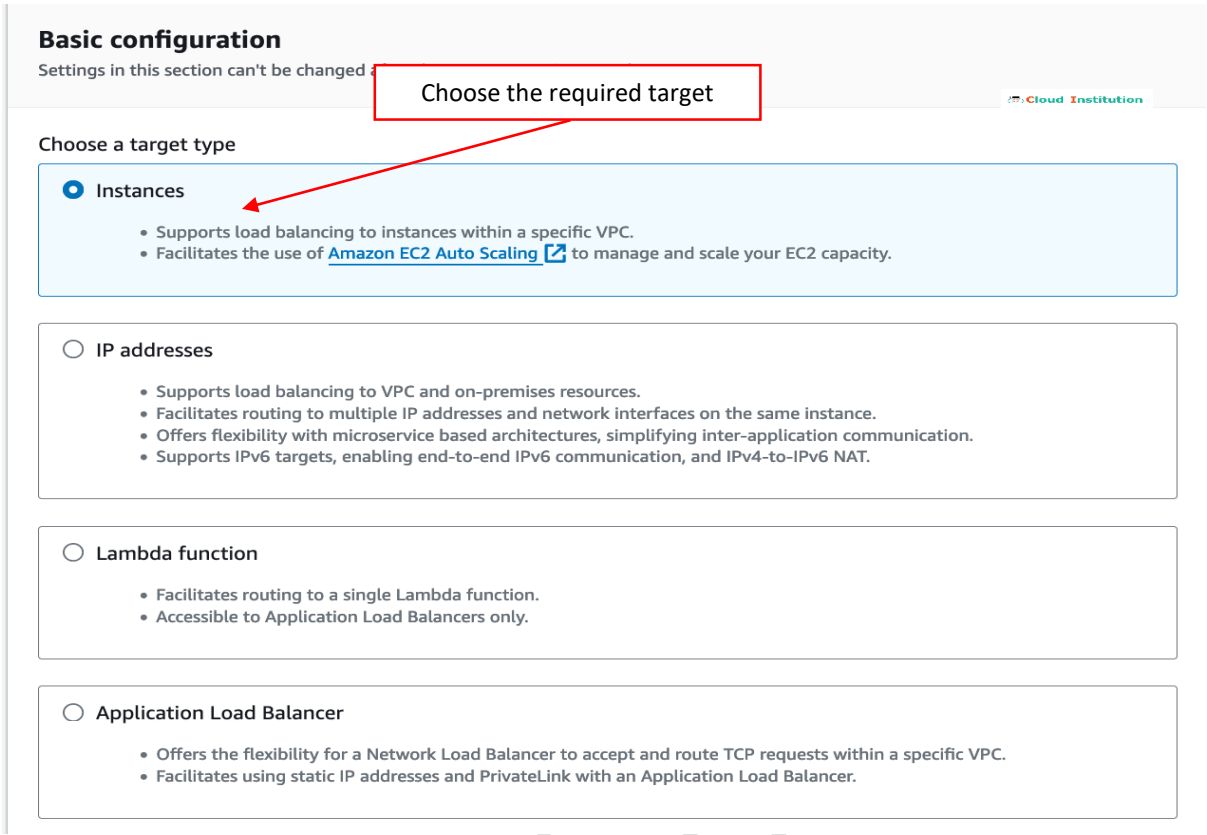
Choose a Gateway Load Balancer when you need to deploy and manage a fleet of third-party virtual appliances that support GENEVE. These appliances enable you to improve security, compliance, and policy controls.

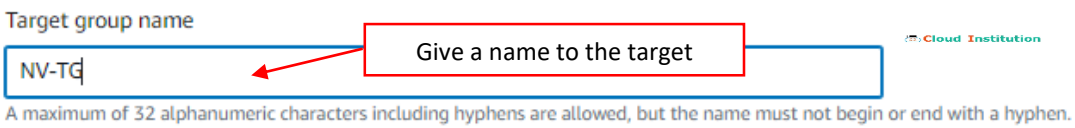
Create

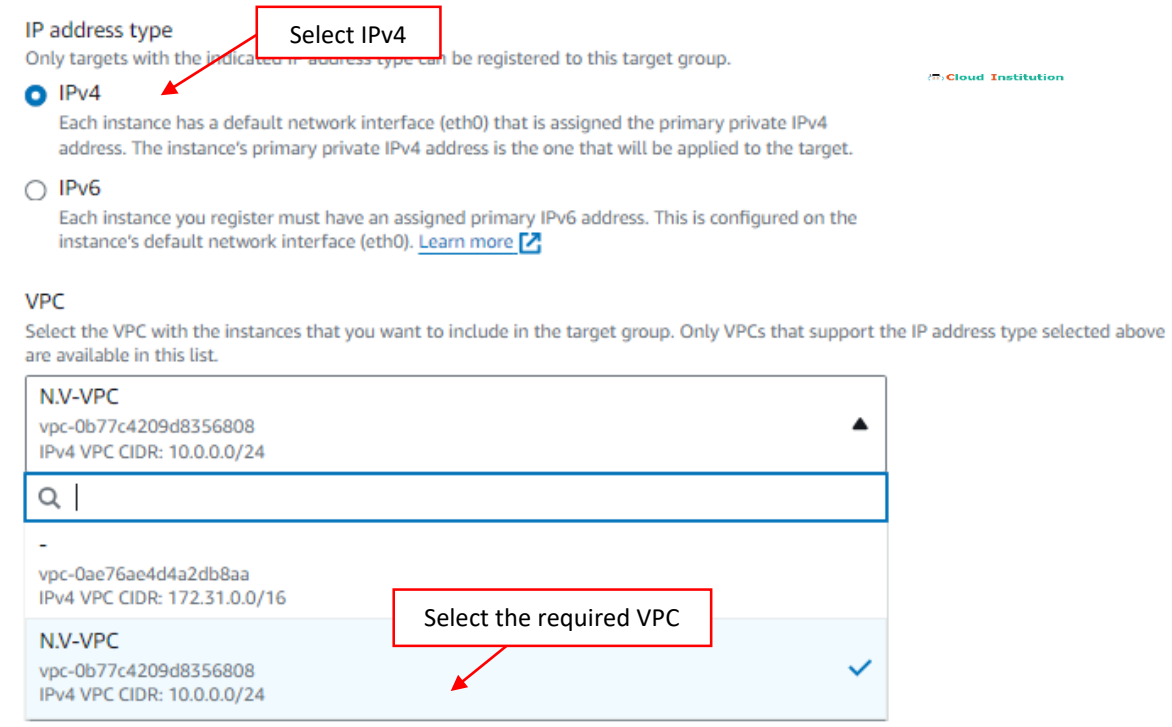

Basic configuration
Give a name to the Load Balancer
Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
N.V-LOADBALANCER
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme can't be changed after the load balancer is create
Click on Internet-facing
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses.
IP address type Info
Select the type of IP addresses that your subnets use.
IPv4
Includes only IPv4 addresses.
Click on IPv4
Dualstack
Includes IPv4 and IPv6 addresses.
Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
Select the virtual private cloud (VPC) for your targets or you can create a new VPC. Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups.
N.V-VPC
vpc-0b77c4209d8356808
IPv4 VPC CIDR: 10.0.0.0/24
-
vpc-0ae76ae4d4a2db8aa
IPv4 VPC CIDR: 172.31.0.0/16
Select the required VPC
N.V-VPC
vpc-0b77c4209d8356808
IPv4 VPC CIDR: 10.0.0.0/24
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
us-east-1a (use1-az2)
Subnet
subnet-08dd8bc772962e04f
IPv4 address
Assigned by AWS
Select at least 2 subnets in different availability zones
us-east-1b (use1-az4)
Subnet
subnet-090d723104c4e1241
SN-2
IPv4 address
Assigned by AWS

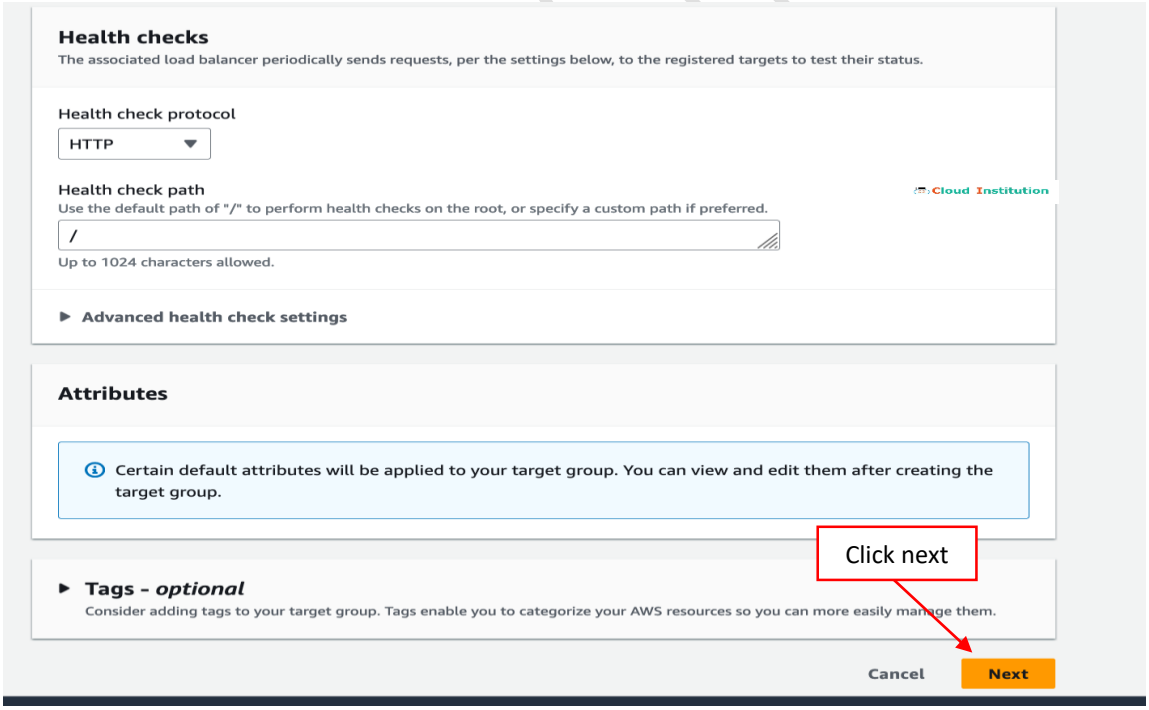

Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer. Select
Select the required Security Group
Security groups
Select up to 5 security groups
N.V-SG
sg-0a20b89b5f445a025 VPC: vpc-0b77c4209d8356808
default
sg-015cb95e4b1e03a44 VPC: vpc-0b77c4209d8356808
Cloud Institution

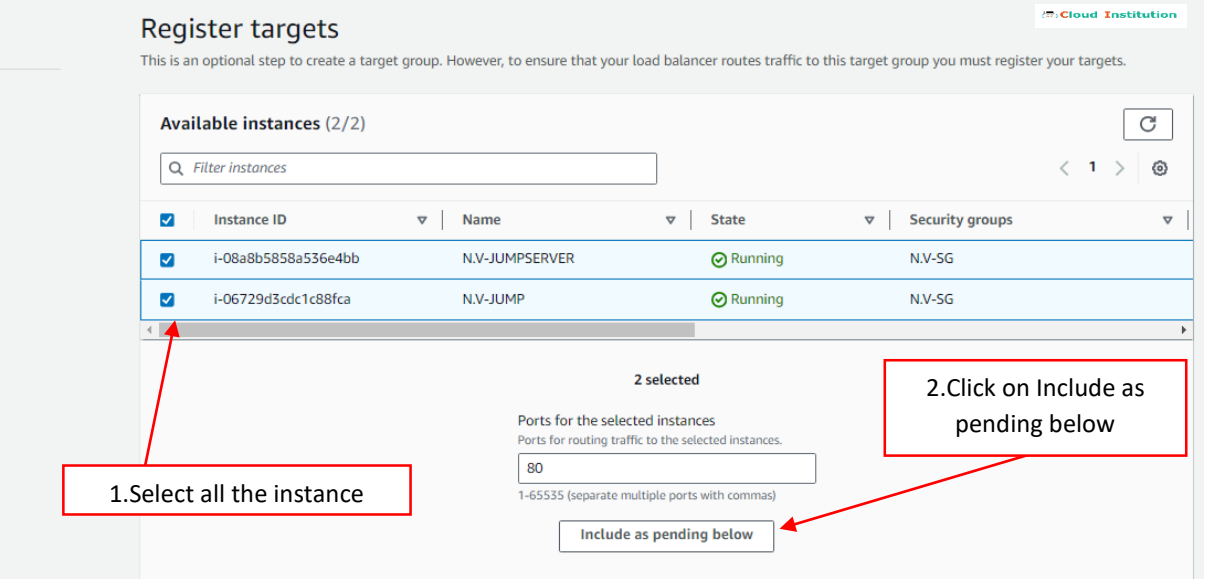

Listeners and routing Info
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.
Listener HTTP:80
Remove
Cloud Institution
Protocol
Port
Default action Info
HTTP
80
1-65535
Forward to
Select a target group
Create target group
Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.
Add listener tag
You can add up to 50 more tags.
Select the Create Target Group
Add listener

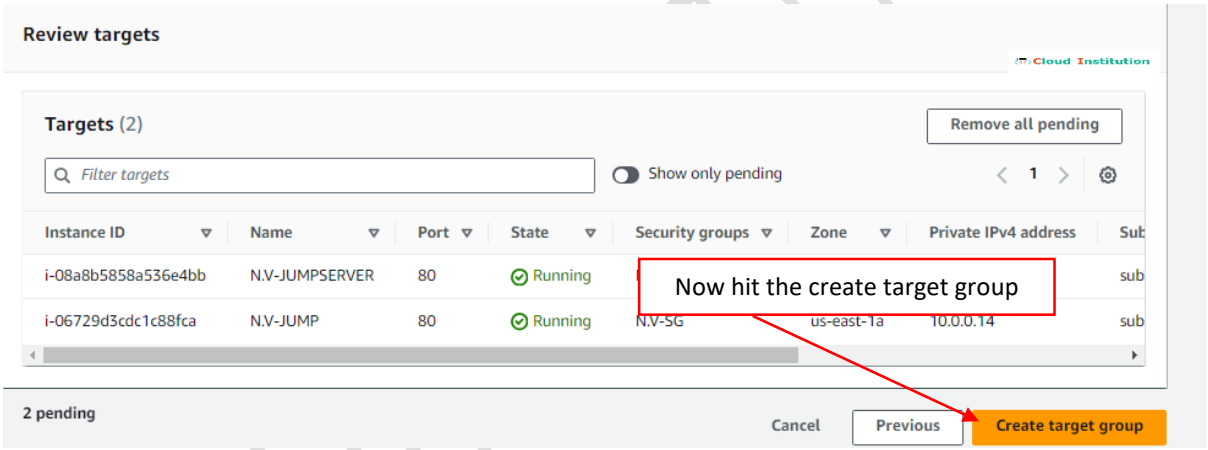

Basic configuration
Settings in this section can't be changed
Choose the required target
Cloud Institution
Choose a target type
Instances
Supports load balancing to instances within a specific VPC.
Facilitates the use of Amazon EC2 Auto Scaling to manage and scale your EC2 capacity.
IP addresses
Supports load balancing to VPC and on-premises resources.
Facilitates routing to multiple IP addresses and network interfaces on the same instance.
Offers flexibility with microservice based architectures, simplifying inter-application communication.
Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
Lambda function
Facilitates routing to a single Lambda function.
Accessible to Application Load Balancers only.
Application Load Balancer
Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.


Target group name
Give a name to the target
NV-TG
Cloud Institution
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

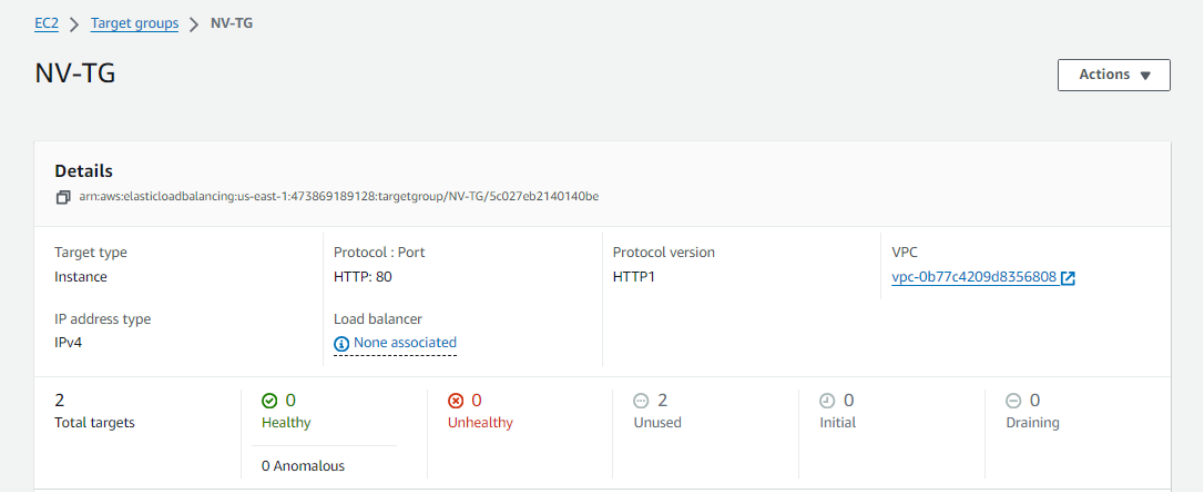

IP address type
Select IPv4
Only targets with the indicated IP address type can be registered to this target group.
IPv4
Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.
IPv6
Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). Learn more
VPC
Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.
N.V-VPC
vpc-0b77c4209d8356808
IPv4 VPC CIDR: 10.0.0.0/24
-
vpc-0ae76ae4d4a2db8aa
IPv4 VPC CIDR: 172.31.0.0/16
Select the required VPC
N.V-VPC
vpc-0b77c4209d8356808
IPv4 VPC CIDR: 10.0.0.0/24


Health checks
The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.
Health check protocol
HTTP
Health check path
Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.
/
Up to 1024 characters allowed.
Advanced health check settings
Attributes
Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.
Click next
Tags - optional
Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.
Cancel
Next

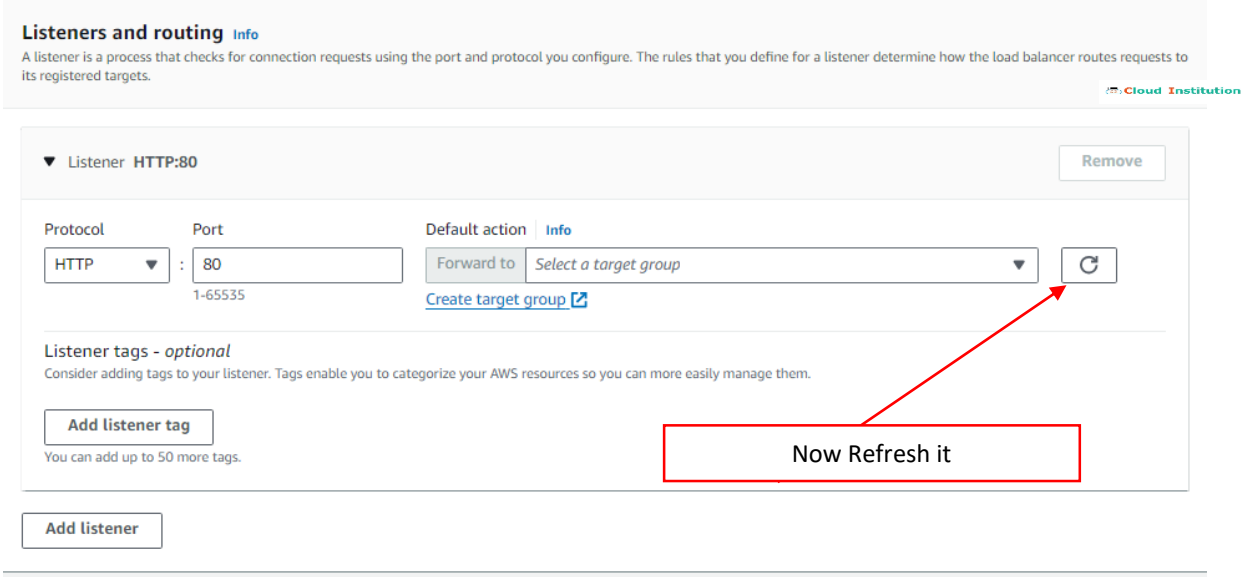

Register targets
This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.
Available instances (2/2)
Filter instances
Instance ID
Name
State
Security groups
i-08a8b5858a536e4bb
N.V-JUMPSERVER
Running
N.V-SG
i-06729d3cdc1c88fca
N.V-JUMP
Running
N.V-SG
2 selected
Ports for the selected instances
Ports for routing traffic to the selected instances.
80
1-65535 (separate multiple ports with commas)
Include as pending below
1.Select all the instance
2.Click on Include as pending below

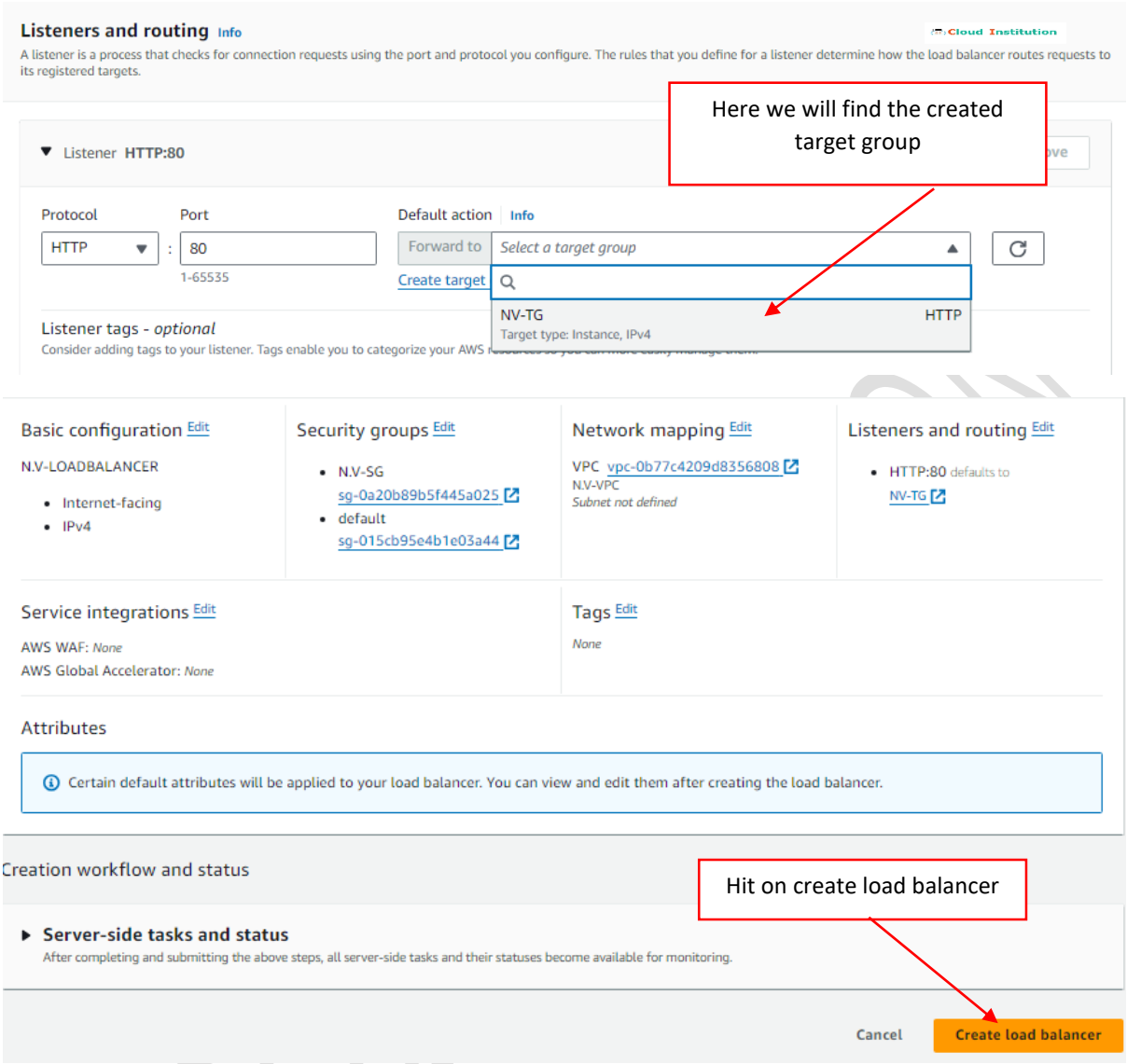

Review targets
Targets (2)
Remove all pending
Filter targets
Show only pending
Instance ID
Name
Port
State
Security groups
Zone
Private IPv4 address
i-08a8b5858a536e4bb
N.V-JUMPSERVER
80
Running
i-06729d3cdc1c88fca
N.V-JUMP
80
Running
N.V-SG
us-east-1a
10.0.0.14
Now hit the create target group
2 pending
Cancel
Previous
Create target group

Target Group is created



Now go back to the Load Balancer creation page





Now Load Balancer is created