

EC2 Management Console S3 Management Console PhotoBusiness Free Website Template 52.87.222.38 + ↻ 🔍 ↺ ↻ VPN N. Virginia Subham Pradhan

aws Services Q s3 Instances (1/5) Info C Connect Instance state Actions Launch instances ▾

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events

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

Images AMIs

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28°C Cloudy ⚡ ENG 05:52 PM 25-08-2023

**Instances (1/5)**

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Ava
Test-server	i-0758609f5d67c16d5	Running	t2.micro	-	No alarms	us-e

**Instance: i-0758609f5d67c16d5 (Test-server)**

Details Security Networking Storage Status checks Monitoring Tags

▶ Instance summary Info

▼ Instance details Info

Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-0f409bae3775dc8e5	disabled
Platform details	AMI name	Termination protection
Linux/UNIX	amzn2-ami-kernel-5.10-hvm-	Disabled



## This site can't be reached

52.87.222.38 took too long to respond.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR\_CONNECTION\_TIMED\_OUT

Reload

Details



root@ip-172-31-57-237:/var/www/html

```
ASUS@LAPTOP-Q9QDRNKO MINGW64 ~  
$ cd Downloads
```

```
ASUS@LAPTOP-Q9QDRNKO MINGW64 ~/Downloads  
$ chmod 400 AWS-CLG-LAB.pem
```

```
ASUS@LAPTOP-Q9QDRNKO MINGW64 ~/Downloads  
$ ssh -i "AWS-CLG-LAB.pem" ec2-user@ec2-52-87-222-38.compute-1.amazonaws.com  
The authenticity of host 'ec2-52-87-222-38.compute-1.amazonaws.com (64:ff9b::345  
7:de26)' can't be established.  
ED25519 key fingerprint is SHA256:KjynYJB9QmXc0wg7jhIvIm1RdowpMsMMJfCwXp7UYUE.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-52-87-222-38.compute-1.amazonaws.com' (ED25519)  
to the list of known hosts.
```

```
  _|_(_|-_) Amazon Linux 2 AMI  
  _|\_\_|_ |
```

```
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-57-237 ~]$ sudo su  
[root@ip-172-31-57-237 ec2-user]# yum install httpd  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Resolving Dependencies  
--> Running transaction check  
--> Package httpd.x86_64 0:2.4.57-1.amzn2 will be installed  
--> Processing Dependency: httpd-tools = 2.4.57-1.amzn2 for package: httpd-2.4.5  
7-1.amzn2.x86_64  
--> Processing Dependency: httpd-filesystem = 2.4.57-1.amzn2 for package: httpd-  
2.4.57-1.amzn2.x86_64  
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.57-1.amzn2.  
x86_64  
--> Processing Dependency: mod_http2 for package: httpd-2.4.57-1.amzn2.x86_64  
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.57-1.amzn2.x8  
6_64  
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.57-1.amzn2.x86  
_64  
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.57-  
1.amzn2.x86_64  
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.57-1.am  
zn2.x86_64  
--> Running transaction check  
--> Package apr.x86_64 0:1.7.2-1.amzn2 will be installed  
--> Package apr-util.x86_64 0:1.6.3-1.amzn2.0.1 will be installed  
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.3-1.amzn2.0.1 for package:  
apr-util-1.6.3-1.amzn2.0.1.x86_64  
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
```



Type here to search



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root@ip-172-31-57-237:/var/www/html

Verifying : apr-util-1.6.3-1.amzn2.0.1.x86_64	4/9
Verifying : mailcap-2.1.41-2.amzn2.noarch	5/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch	6/9
Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64	7/9
Verifying : httpd-2.4.57-1.amzn2.x86_64	8/9
Verifying : httpd-filesystem-2.4.57-1.amzn2.noarch	9/9

Installed:

httpd.x86\_64 0:2.4.57-1.amzn2

Dependency Installed:

apr.x86\_64 0:1.7.2-1.amzn2  
apr-util.x86\_64 0:1.6.3-1.amzn2.0.1  
apr-util-bdb.x86\_64 0:1.6.3-1.amzn2.0.1  
generic-logos-httpd.noarch 0:18.0.0-4.amzn2  
httpd-filesystem.noarch 0:2.4.57-1.amzn2  
httpd-tools.x86\_64 0:2.4.57-1.amzn2  
mailcap.noarch 0:2.1.41-2.amzn2  
mod\_http2.x86\_64 0:1.15.19-1.amzn2.0.1

Complete!

```
[root@ip-172-31-57-237 ec2-user]# cd /var/www/html
[root@ip-172-31-57-237 html]# echo "Hello from Test Server">>index.html
[root@ip-172-31-57-237 html]# systemctl start httpd
[root@ip-172-31-57-237 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-57-237 html]# |
```



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# Hello From Test Server



Domain Overview | Hostinger X +

hpanel.hostinger.com/domain/subhampradhan.online/domain-overview

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Back to domains

subhampradhan.online

Connect your website to your hosting plan  
Create and manage your website by adding it to a hosting plan

Get a new domain-based email account  
Create a professional subham@subhampradhan.online email address

Your domain is pending verification!  
Great, subhampradhan.online is registered! Now you will receive an email from the domain registry with a request to verify your contact information. Do not forget to do it within 15 days. Otherwise the registry will suspend your domain. Email verification takes up to 15 minutes to refresh automatically.

Resend verification email

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Dashboard | EC2 Manager Instances | EC2 Manager Hosted zone - create S3 Management Console PhotoBusiness Free Web 52.87.222.38 + - × ↻ us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateHostedZone ↻ 6 A VPN Global Subham Pradhan

aws Services Search [Alt+S]

Route 53 > Hosted zones > Create hosted zone

## Create hosted zone Info

**Hosted zone configuration**

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

**Domain name Info**  
This is the name of the domain that you want to route traffic for.  
  
Valid characters: a-z, 0-9, !"#\$%&'()\*+,-/:;<=>?@[\]^\_`{|}~

**Description - optional Info**  
This value lets you distinguish hosted zones that have the same name.  
  
The description can have up to 256 characters. 20/256

**Type Info**  
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.

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Dashboard | EC2 Manager Instances | EC2 Manager subhampradhan.onli S3 Management Console PhotoBusiness Free Web 52.87.222.38 + - VPN

us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#ListRecordSets/Z06...

aws Services Search [Alt+S] Edit hosted zone Global Subham Pradhan

Route 53 Hosted zone details Records (2) DNSSEC signing Hosted zone tags (0)

Records (2) Info

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Delete record Import zone file Create record

Filter records by property or value Type Routing policy Alias < 1 >

Value/Route traffic to	TTL (s...)	Health ...	Evaluat...	Record
ns-537.awsdns-03.net. ns-1931.awsdns-49.co.uk. ns-1406.awsdns-47.org. ns-33.awsdns-04.com.	172800	-	-	
ns-537.awsdns-03.net. awsd...	900	-	-	

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DNS / Nameservers | Hostinger +

hpanel.hostinger.com/domain/subhampradhan.online/dns

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Select Nameservers

Use Hostinger nameservers (recommended)

Change nameservers

ns-537.awsdns-03.net

ns-1931.awsdns-49.co.uk

ns-1406.awsdns-47.org

ns-33.awsdns-04.com

Save Cancel

Domain Overview

DNS / Nameservers

Domain Ownership

Give feedback

Type here to search

Rain tomorrow 06:14 PM 25-08-2023 ENG

Manage DNS records

DNS / Nameservers | Hostinger +

hpanel.hostinger.com/domain/subhampradhan.online/dns

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Back to domains subhampradhan.online

Domain Overview DNS / Nameservers Domain Ownership Give feedback

Nameservers changed!

Your nameservers has been changed to:

- ns-537.awsdns-03.net
- ns-1931.awsdns-49.co.uk
- ns-1406.awsdns-47.org
- ns-33.awsdns-04.com

*It might take up to 24 hours for the domain to propagate to the new nameservers.*

Close

Tutorials Feeling lost? There are a lot of tutorials ?

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Dashboard | EC2 Manager Instances | EC2 Manager subhampradhan.onli S3 Management Console PhotoBusiness Free Web 52.87.222.38 + - X

us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateRecordSet/Z0...

aws Services Search [Alt+S] Global Subham Pradhan

## Create record Info

**Quick create record** [Switch to wizard](#)

**Record 1** [Delete](#)

**Record name** [Info](#) **Record type** [Info](#)

www **.subhampradhan.online** A – Routes traffic to an IPv4 address and some AWS resources

Keep blank to create a record for the root domain.

Alias

**Value** [Info](#)

52.87.222.38

Enter multiple values on separate lines.

**TTL (seconds)** [Info](#) **Routing policy** [Info](#)

300 1m 1h 1d Simple routing

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Screenshot of the AWS Route 53 console showing the 'Records' page for the hosted zone 'subhampradhan.online'. The 'www.subhampradhan.online' record is selected, displaying its details: Record type A, Value 52.87.222.38, TTL (seconds) 300, and Routing policy Simple. A context menu is open over the record, with the 'Copied' option highlighted.

Records (1/3) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

[Create record](#)

[Edit record](#)

[Copied](#)

Record type: A

Value: 52.87.222.38

Alias: No

TTL (seconds): 300

Routing policy: Simple

Record ...	Type	Routing ...	Differ...
subhampr...	NS	Simple	-
subhampr...	SOA	Simple	-
www.sub...	A	Simple	-



# Hello From Test Server



Dashboard | EC2 Ma Instances | EC2 Man Route 53 - dashboard S3 Management Co PhotoBusiness Free 52.87.222.38 subhampradhan +

Not secure subhampradhan.online

subhampradhan.online

⚠ Your connection to this site is not secure  
You should not enter any sensitive information on this site (for example, passwords or credit cards), because it could be stolen by attackers.  
[Learn more](#)

Cookies 0 in use

Site settings

# Hello Server



Dashboard | EC2 Instances | EC2 N Route 53 - dashb S3 Management PhotoBusiness Fi 52.87.222.38 subhampradhan Online Shop + 9 A 1 VPN

flipkart.com

**Flipkart** Explore Plus+ Search for products

Grocery Mobiles Fashion ▾

Certificate Viewer: www.flipkart.com

**General** Details

Issued To

Common Name (CN)	www.flipkart.com
Organization (O)	FLIPKART INTERNET PRIVATE LIMITED
Organizational Unit (OU)	<Not Part Of Certificate>

Issued By

Common Name (CN)	GlobalSign RSA OV SSL CA 2018
Organization (O)	GlobalSign nv-sa
Organizational Unit (OU)	<Not Part Of Certificate>

Validity Period

Issued On	Tuesday, May 16, 2023 at 11:26:15 AM
Expires On	Sunday, June 16, 2024 at 11:26:14 AM

Fingerprints

SHA-256 Fingerprint	CE 13 10 34 88 2F 77 39 C1 FC C1 A2 BA 01 5D 50 A0 BA 53 BE 17 58 D8 20 FF 9E 29 EF 15 5F 0B 79
SHA-1 Fingerprint	46 5A 58 47 28 AE D6 29 F7 39 39 0C 17 2F 3E B5 B8 E0 CD 54

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aws Services Q route 53

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
**Instances**  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances  
Capacity Reservations

Instances (5/5) Info C Connect Instance state Actions Launch instances

Find instance by attribute or tag (case-sensitive)

Instance state = running Clear filters < 1 > us-e

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Ava
SERVER-1	i-090deed45088dac82	Running	t2.micro	2/2 checks passed	No alarms	
SERVER-2	i-093fb958fc380dc25	Running	t2.micro	2/2 checks passed	No alarms	
SERVER-3	i-03847f0aef45b52cf	Running	t2.micro	2/2 checks passed	No alarms	
SERVER-4	i-0f23618226d384b92	Running	t2.micro	2/2 checks passed	No alarms	

Instances: i-090deed45088dac82 (SERVER-1), i-093fb958fc380dc25 (SERVER-2), i-03847f0aef45b52cf (SERVER-3), i-0f23618226d384b92 (SERVER-4), i-0758609f5d67c16d5 (Test-server)

Monitoring

1h 3h 12h 1d 3d 1w Custom Add to dashboard

CPU utilization (%) Status check fail... Status check fail... Status check fail... Percent Count Count Count

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```
[root@ip-172-31-59-251 ~]#
```

- □ X

```
Verifying : httpd-2.4.57-1.amzn2.x86_64 8/9
```

```
Verifying : httpd-filesystem-2.4.57-1.amzn2.noarch 9/9
```

Installed:

```
httpd.x86_64 0:2.4.57-1.amzn2
```

Dependency Installed:

```
apr.x86_64 0:1.7.2-1.amzn2
```

```
apr-util.x86_64 0:1.6.3-1.amzn2.0.1
```

```
apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1
```

```
generic-logos-httpd.noarch 0:18.0.0-4.amzn2
```

```
httpd-filesystem.noarch 0:2.4.57-1.amzn2
```

```
httpd-tools.x86_64 0:2.4.57-1.amzn2
```

```
mailcap.noarch 0:2.1.41-2.amzn2
```

```
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1
```

Complete!

```
[root@ip-172-31-59-251 ~]# cd /var/www/html
```

```
[root@ip-172-31-59-251 html]# echo "Hello from server-1">index.html
```

```
[root@ip-172-31-59-251 html]# systemctl start httpd
```

```
[root@ip-172-31-59-251 html]# systemctl enable httpd
```

```
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
```

```
[root@ip-172-31-59-251 html]#
```



Type here to search



27°C



ENG

07:38 PM  
25-08-2023

```
MINGW64:/c/Users/ASUS/Downloads
apr-util.x86_64 0:1.6.3-1.amzn2.0.1
apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1
generic-logos-htpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.57-1.amzn2
httpd-tools.x86_64 0:2.4.57-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-59-251 ~]# cd /var/www/html
[root@ip-172-31-59-251 html]# echo "Hello from server-1">>index.html
[root@ip-172-31-59-251 html]# systemctl start httpd
[root@ip-172-31-59-251 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-59-251 html]# client_loop: send disconnect: Connection reset by peer

root@ip-172-31-59-115:/var/www/html
Dependency Installed:
apr.x86_64 0:1.7.2-1.amzn2
apr-util.x86_64 0:1.6.3-1.amzn2.0.1
apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1
generic-logos-htpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.57-1.amzn2
httpd-tools.x86_64 0:2.4.57-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-59-115 ~]# cd /var/www/html
[root@ip-172-31-59-115 html]# echo "Hello from server-3">>index.html
[root@ip-172-31-59-115 html]# systemctl start httpd
[root@ip-172-31-59-115 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-59-115 html]#
```

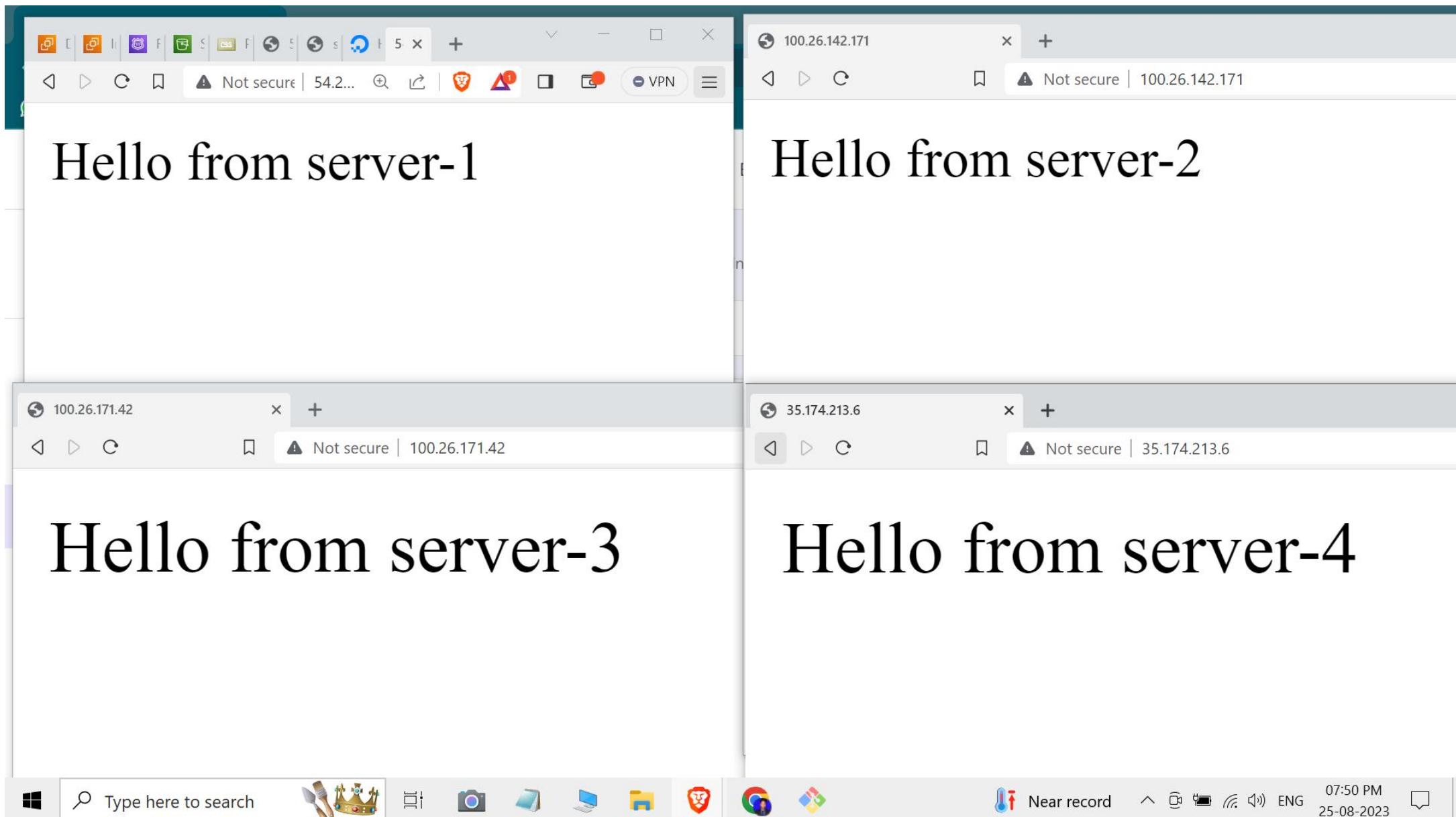
```
MINGW64:/c/Users/ASUS/Downloads
apr.x86_64 0:1.7.2-1.amzn2
apr-util.x86_64 0:1.6.3-1.amzn2.0.1
apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1
generic-logos-htpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.57-1.amzn2
httpd-tools.x86_64 0:2.4.57-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-56-101 ~]# cd /var/www/html
[root@ip-172-31-56-101 html]# echo "Hello from server-1">>index.html
[root@ip-172-31-56-101 html]# systemctl start httpd
[root@ip-172-31-56-101 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-56-101 html]# echo "Hello from server-2">>index.html
[root@ip-172-31-56-101 html]# systemctl start httpd
Failed to start httpd.service: Unit not found.
[root@ip-172-31-56-101 html]# client_loop: send disconnect: Connection reset by peer

root@ip-172-31-56-83:/var/www/html
Verifying : httpd-filesystem-2.4.57-1.amzn2.noarch
9/9
Installed:
httpd.x86_64 0:2.4.57-1.amzn2

Dependency Installed:
apr.x86_64 0:1.7.2-1.amzn2
apr-util.x86_64 0:1.6.3-1.amzn2.0.1
apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1
generic-logos-htpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.57-1.amzn2
httpd-tools.x86_64 0:2.4.57-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-56-83 ~]#
[root@ip-172-31-56-83 ~]# cd /var/www/html
[root@ip-172-31-56-83 html]# echo "Hello from server-4">>index.html
[root@ip-172-31-56-83 html]# systemctl start httpd
[root@ip-172-31-56-83 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-56-83 html]#
```



Dashboard Instances Create  Load balancer Route 53 S3 Manager PhotoBusiness 52.87.222. subhampr How To Set 54.237.88. +  us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:    VPN N. Virginia Subham Pradhan

aws Services Search [Alt+S]

EC2 > Target groups > Create target group

Step 1 Specify group details

Step 2 Register targets

## Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

### Basic configuration

Settings in this section can't be changed after the target group is created.

#### 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.

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Dashboard Instances Target **X** Load balancer Route 53 S3 Manager PhotoBusiness 52.87.222. subhampr How To Se 54.237.88. + ↻ 🔍 🌐 VPN Services Search [Alt+S] EC2 > Target groups

**Target groups (1/1) Info** Actions **Create target group**

Search or filter target groups

<input checked="" type="checkbox"/>	Name	ARN	Port	Protocol	Target type	Load balancer
<input checked="" type="checkbox"/>	Mytargetgroup	arn:aws:elasticloadbalancing:us-east-1:782921506756:targetgroup/Mytargetgroup/ce0f042a9a0811c7	80	HTTP	Instance	<small>None associated</small>

**Target group: Mytargetgroup**

Details Targets Monitoring Health checks Attributes Tags

**Details**

arn:aws:elasticloadbalancing:us-east-1:782921506756:targetgroup/Mytargetgroup/ce0f042a9a0811c7

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP : 80	HTTP/1.1	0751161550-000000-57

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27°C Mostly cloudy ENG 07:57 PM 25-08-2023

Dashboard | Instances | Target groups | Load balancers | Route 53 | S3 Manager | PhotoBrowser | 52.87.222.1 | subhampr | How To Set | 54.237.88.1 | + | - | X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:

aws Services Search [Alt+S]

New EC2 Experience Tell us what you think

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EC2 Global View

Events

Instances

Instances

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Load balancers

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Actions ▾ Create load balancer ▾

Filter by property or value

Name DNS name State VPC ID Availability Zone

0 load balancers selected

Select a load balancer above.

27°C Mostly cloudy ENG 07:58 PM 25-08-2023

Dashboard Instances Target groups Create EC2 Manager Route 53 S3 Manager PhotoBrowser 52.87.22.1 subham How To S 54.237.86.1 + VPN

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:

aws Services Search [Alt+S] N. Virginia Subham Pradhan

EC2 > Load balancers > Create Application Load Balancer

## Create Application Load Balancer Info

The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.

▶ How Elastic Load Balancing works

### Basic configuration

Load balancer name  
Name must be unique within your AWS account and can't be changed after the load balancer is created.  
 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 created.  
 Internet-facing  
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

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Type here to search           27°C Mostly cloudy  ENG 08:03 PM 25-08-2023

The screenshot shows the AWS Management Console with the EC2 service selected. The URL in the browser is [us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup). The top navigation bar includes links for Dashboard, Instances, Target groups, Create a new security group, EC2, Route 53, S3 Manager, PhotoBrowser, 52.87.22.1, subham, How To, 54.237.86.1, and a plus sign for creating new resources. The search bar contains "Search [Alt+S]" and the AWS logo. The top right shows notifications (3), alerts (1), and a VPN icon. The region is set to N. Virginia, and the user is Subham Pradhan.

[EC2](#) > [Security Groups](#) > Create security group

## Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

### Basic details

Security group name Info

Name cannot be edited after creation.

Description Info

VPC Info

 X

### Inbound rules Info

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Dashboard Instances Target groups Create a... EC2 Route 53 S3 Manager PhotoBrowser 52.87.22.1 subham How To S 54.237.86.1 + ▾ ▾ - ▾ ▾ X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup

aws Services Search [Alt+S] N. Virginia Subham Pradhan

This security group has no inbound rules.

Add rule

**Outbound rules** Info

Type	Protocol	Port range	Destination	Description - optional	Action
HTTP	TCP	80	Anywhere <input type="text"/> 0.0.0.0/0 <input type="button" value="X"/>	<input type="text"/>	Delete
HTTPS	TCP	443	Anywhere <input type="text"/> 0.0.0.0/0 <input type="button" value="X"/>	<input type="text"/>	Delete

Add rule

**Tags - optional**

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Dashboard Instances Target groups Create EC2 Manager Route 53 S3 Manager PhotoBrowser 52.87.22.1 subham How To S 54.237.86.1 + ↻ 🔍 🌐 VPN 🔍 Services Search [Alt+S] N. Virginia Subham Pradhan

Assigned by AWS

**Security groups** Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

Security groups

Select up to 5 security groups

default sg-0ec5b6b0b02fcf688 VPC: vpc-03fd1615f6a986005 X

load-balancer-sg sg-0923e8d60b3d51594 VPC: vpc-03fd1615f6a986005 X

**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

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Dashboard Instances Target groups Create EC2 Manager Route 53 S3 Manager PhotoBrowser 52.87.22.1 subham How To S 54.237.86.1 + - X us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard: ↻ 🔍 A+ VPN Search [Alt+S] Services N. Virginia Subham Pradhan

### 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

Protocol	Port	Default action	Info
HTTP	: 80 1-65535	Forward to	Mytargetgroup Target type: Instance, IPv4
<a href="#">Create target group</a>			

**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.

[Add listener](#)



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Screenshot of the AWS Management Console showing the EC2 service dashboard. The top navigation bar includes links for Dashboard, Instances, Target groups, Load (selected), EC2 Manager, Route 53, S3 Manager, PhotoBrowser, and How To. The URL in the address bar is [us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateLBWizardSuccess:loadBalancing](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateLBWizardSuccess:loadBalancing). The top right corner shows user information for Subham Pradhan and a VPN icon.

Successfully created load balancer: [Myloadbalancer](#)

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

[EC2](#) > [Load balancers](#) > [Myloadbalancer](#) > Create Application Load Balancer

## Create Application Load Balancer



### Suggested next steps

- Review, customize, or configure attributes for your load balancer and listeners using the **Description** and **Listeners** tabs within [Myloadbalancer](#).
- Discover other services that you can integrate with your load balancer. Visit the **Integrated services** tab within [Myloadbalancer](#).

[View load balancer](#)

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Near record



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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:v=3

EC2 / Load Balancers

### Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Filter by property or value < 1 >

<input checked="" type="checkbox"/> Name	DNS name	State	VPC ID	Availability Zones	Type
<input checked="" type="checkbox"/> <a href="#">Myloadbalancer</a>	Myloadbalancer-2140918...	Active	vpc-03fd1615f6a986005	2 Availability Zones	application

[Create load balancer](#)

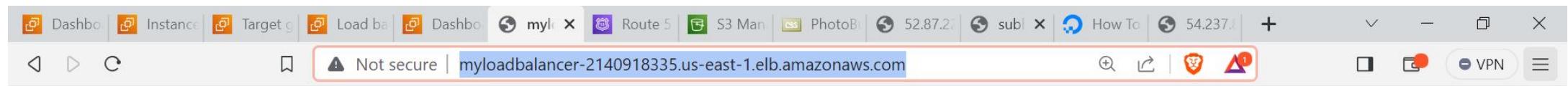
### Load balancer: Myloadbalancer

Load balancer ARN  
 arn:aws:elasticloadbalancing:us-east-1:782921506756:loadbalancer/app/Myloadbalancer/f0c477e092713233

subnet-012ad3beb27a35a1d us-east-1 (use 1 availability zone)  
 DNS name copied  
 Myloadbalancer-2140918335.us-east-1.elb.amazonaws.com (A Record)

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# Hello from server-3



Dashboard Instance Edit Load balancer Dashboard myload Route 5 S3 Manager PhotoBrowser 52.87.21 subham How To 54.237.8.1 + VPN

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroupEditAttributes:targetG...

aws Services Search [Alt+S] N. Virginia Subham Pradhan

Stickiness [Info](#)  
Stickiness allows the load balancer to bind a user's session to a specific target. The stickiness type differs based on the type of cookie used. You can use a combination of stickiness types across your target groups, or even turn off stickiness. Stickiness can't be turned on if cross-zone load balancing is turned off.

Stickiness type  
 Load balancer generated cookie  
 Application-based cookie

Stickiness duration  
1 seconds ▾  
1 second - 7 days

Cross-zone load balancing [Info](#)  
Cross-zone load balancing can be configured for each target group or inherited from the load balancer.  
Inherit settings from load balancer attributes  
Uses the cross-zone settings from the Application Load Balancer attributes - On by default.

► Target group health requirements [Info](#)  
Specify the target group health requirements and the resulting actions when the minimum is not met.



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25-08-2023

Dashboard Instances Edit tags Load balancers Route Dashboards myload Balancer S3 Manager PhotoEditor 52.87.2 subhar How To 54.237 + ▾ ▾ - ▾ ▾ X

us-east-1.console.aws.amazon.com/acm/home?region=us-east-1#/welcome

aws Services Search [Alt+S] N. Virginia Subham Pradhan

## AWS Certificate Manager (ACM)

List certificates Request certificate Import certificate AWS Private CA

# AWS Certificate Manager

Easily provision, manage, deploy, and renew SSL/TLS certificates

### Security, Identity, & Compliance

#### New ACM managed certificate

Request a public certificate from Amazon or a private certificate from your organization's certificate authority (CA).

[Request a certificate](#)

#### Import certificates that you obtained outside of AWS

[Import a certificate](#)

#### Create private certificate authority (CA) hierarchies for your organization.

[Create a private CA](#)

https://us-east-1.console.aws.amazon.com/acm/home?region=us-east-1#/c... © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

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Dashboard Instances Edit tasks Load balancers AWS Route Dashboards myload S3 Manager Photos 52.87.2 subhar How To 54.237 + - VPN Search [Alt+S] N. Virginia Subham Pradhan

## AWS Certificate Manager (ACM)

List certificates Request certificate Import certificate AWS Private CA

### Request certificate

**Certificate type** Info

ACM certificates can be used to establish secure communications access across the internet or within an internal network. Choose the type of certificate for ACM to provide.

Request a public certificate  
Request a public SSL/TLS certificate from Amazon. By default, public certificates are trusted by browsers and operating systems.

Request a private certificate  
No private CAs available for issuance.

Requesting a private certificate requires the creation of a private certificate authority (CA). To create a private CA, visit [AWS Private Certificate Authority](#)

Cancel Next

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09:24 PM 25-08-2023

Dashboard Instances Edit tags Load balancers AWS Route Dashboards myload S3 Manager Photos 52.87.2 subhar How To 54.237 + - VPN Search [Alt+S] Services N. Virginia Subham Pradhan

AWS Certificate Manager (ACM) X

AWS Certificate Manager > Certificates > Request certificate > Request public certificate

## Request public certificate

**Domain names**  
Provide one or more domain names for your certificate.

Fully qualified domain name [Info](#)

subhampradhan.online [Remove](#)

\*.subhampradhan.online [Remove](#)

**Add another name to this certificate**

You can add additional names to this certificate. For example, if you're requesting a certificate for "www.example.com", you might want to add the name "example.com" so that customers can reach your site by either name.

**Validation method** [Info](#)

Select a method for validating domain ownership.

DNS validation – recommended

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### AWS Certificate Manager (ACM)

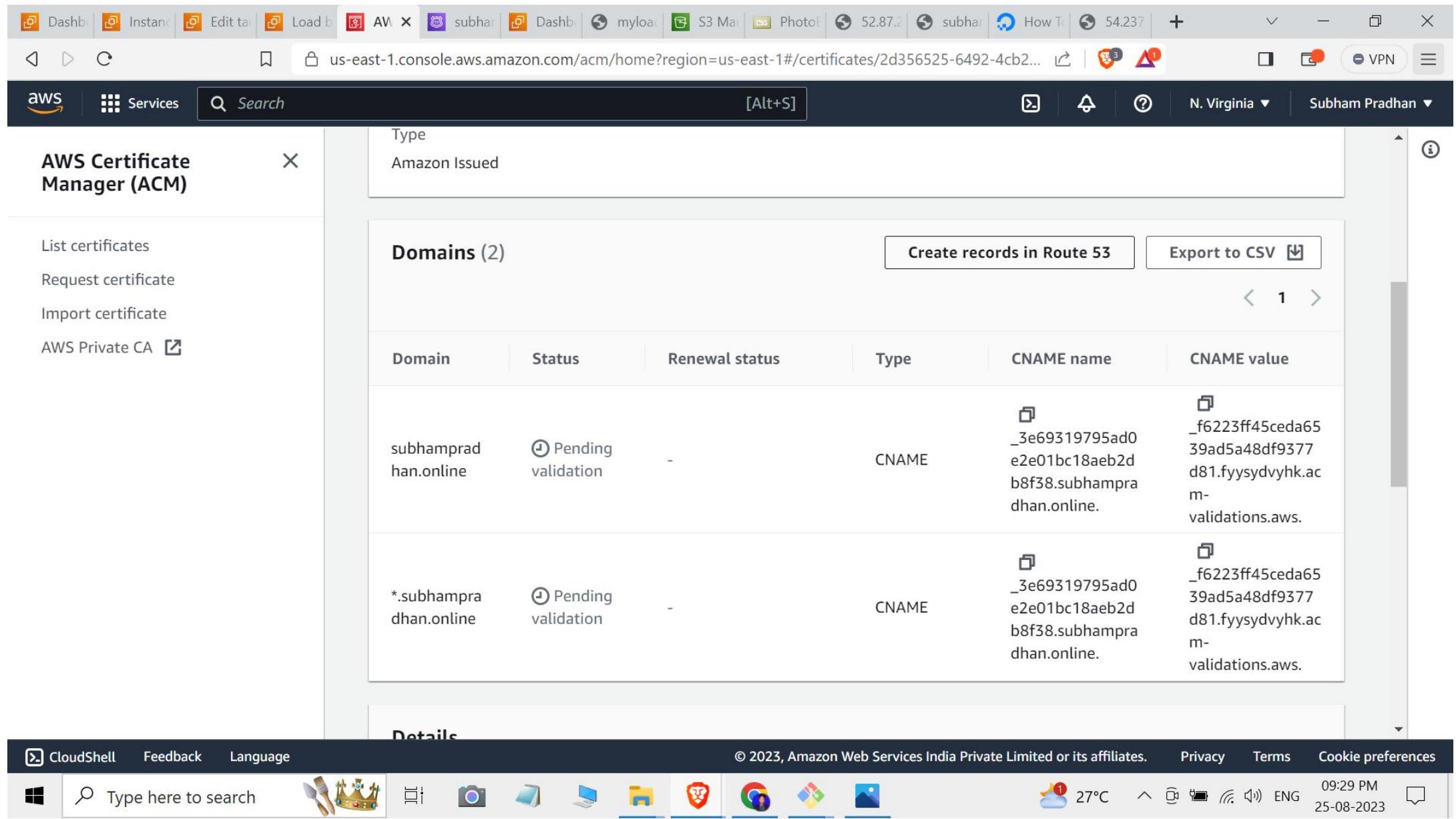
List certificates Request certificate Import certificate AWS Private CA

AWS Certificate Manager (ACM) > Certificates

Certificates (1/1)

Certificate ID	Domain name	Type	Status	In use	Renewal eligibility	Key algorithm
2d356525-6492-4cb2-9c9f-51a7fd709ffd	subhampradh an.online	Amazon Issued	Pending validation	No	Ineligible	RSA 2048

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Dashboard Instances Edit tags Load balancers AWS CloudWatch Metrics Dashboards myload Balancer S3 Manager Photos 52.87.2 subham How To 54.237 + - VPN Search [Alt+S] Services Global Subham Pradhan

## Route 53

Records (1/4) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

[Delete record](#) [Import zone file](#) [Create record](#)

Filter records by property or value [Type](#) [Routing policy](#) [Alias](#)

	Record ...	Type	Routine...	Differ...	Alias	Value/Route traffic to
<input type="checkbox"/>	subhampr...	NS	Simple	-	No	ns-537.awsdns-03.net. ns-1931.awsdns-49.co.uk. ns-1406.awsdns-47.org. ns-33.awsdns-04.com.
<input type="checkbox"/>	subhampr...	SOA	Simple	-	No	ns-537.awsdns-03.net. awsd...
<input checked="" type="checkbox"/>	_3e69319...	CNAME	Simple	-	No	_f6223ff45ceda6539ad5a48...
<input type="checkbox"/>	www.sub...	A	Simple	-	No	52.87.222.38

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Type here to search          Nea...  ENG 09:30 PM 25-08-2023

us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-1#CreateRecordSet/Z0...

aws Services Search [Alt+S]

Route 53 > Hosted zones > subhampradhan.online > Create record

## Create record Info

**Quick create record** Switch to wizard

**Record 1** Delete

**Record name** Info app .subhampradhan.online Keep blank to create a record for the root domain.

**Record type** Info A – Routes traffic to an IPv4 address and some AWS resources

**Route traffic to** Info

- Alias to Application and Classic Load Balancer
- US East (N. Virginia)
- dualstack.Myloadbalancer-2140918335.us-east-1.elb.amazonaws.com**

Alias hosted zone ID: Z35SXDOTRQ7X7K

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Type here to search  

Win...  ENG 09:31 PM 25-08-2023

Route 53

Records (1/5) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

[Create record](#)

Filter records by property or value

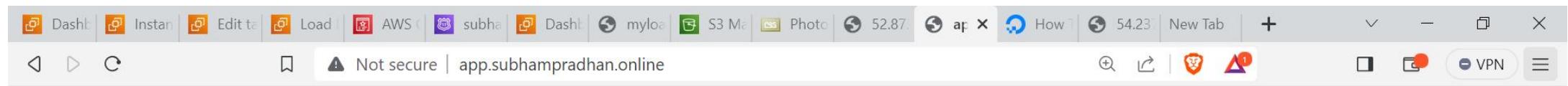
Type ▾ Routing policy ▾ Alias ▾

Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic to
<input type="checkbox"/> subhampr...	NS	Simple	-	No	ns-537.awsdns-03.net. ns-1931.awsdns-49.co.uk. ns-1406.awsdns-47.org. ns-33.awsdns-04.com.
<input type="checkbox"/> subhampr...	SOA	Simple	-	No	ns-537.awsdns-03.net. awsd...
<input type="checkbox"/> _3e69319...	CNAME	Simple	-	No	_f6223ff45ceda6539ad5a48...
<input checked="" type="checkbox"/> app.subha...	A	Simple	-	Yes	dualstack.myloadbalancer-2...
<input type="checkbox"/> www.sub...	A	Simple	-	No	52.87.222.38

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# Hello from server-2



Dash | Insta | Edit | Add | AWS | subh | Dash | mylo | S3 M | Photos | 52.87 | app.s | How | 54.23 | New Tab | + | VPN

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:v=3

aws Services Search [Alt+S]

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

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

Load Balancing

**Load Balancers**

- Target Groups

Auto Scaling

- Auto Scaling Groups

**Load balancers (1/1)**

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

C Actions ▾ Create load balancer ▾

Filter by property or value

Name	DNS name	State	VPC ID	Availability Z
<a href="#">Myloadbalancer</a>	Myloadbalancer-2140918...	Active	vpc-03fd1615f6a986005	2 Availability Z

**Load balancer: Myloadbalancer**

Details **Listeners and rules** Network mapping Security Monitoring Integrations Attributes Tags

**Listeners and rules (1) Info**

A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.

C Manage rules ▾ Manage listener ▾ Add listener

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Dash | Insta | Edit | A | Load | AWS | subh | Dash | mylo | S3 M | Photos | 52.87 | app.s | How | 54.23 | New Tab | + | ▾ | - | ☰ | X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ElbAddListener:loadBalancerArn=a... ↗ | 🛡️ | 🎨 | N. Virginia | Subham Pradhan

## certificate Manager

EC2 > Load balancers > Myloadbalancer > Add listener

### Add listener Info

Add a listener to your Application Load Balancer (ALB) to define how client requests and network traffic are routed within your application. Every listener is made up of a default action that's required and can only be edited. Additional rules can be added, edited and deleted from the listener.

**Load balancer details: Myloadbalancer**

Load balancer type Application	Status <span>Active</span>	VPC <a href="#">vpc-03fd1615f6a986005</a>
IP address type IPv4	Scheme Internet-facing	Hosted zone <a href="#">Z35SXDOTRQ7X7K</a>
Availability Zones <a href="#">subnet-0957e7ac3acacddd</a> us-east-1d (use1-az1)	Date created August 25, 2023, 20:06 (UTC+05:30)	
<a href="#">subnet-012ad3beb27a35a1d</a> us-east-1e (use1-az3)		

**Default actions**

The default action is the Action type that applies to traffic on the listener. The default action is also called the default rule. Default rules don't have conditions. A default action is performed if no other rules are present, or if none of the other conditions specified in the listener's rules are met.

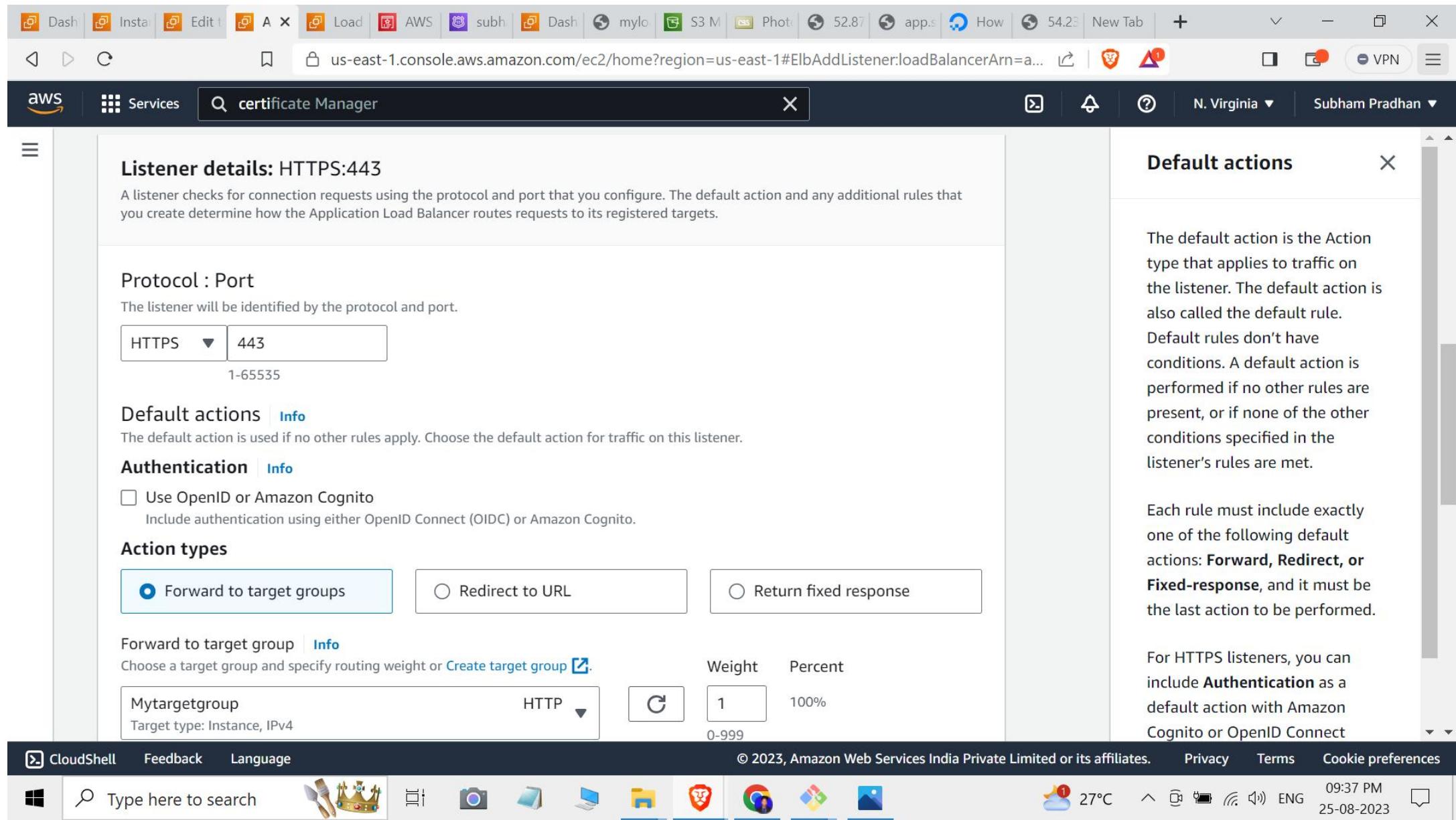
Each rule must include exactly one of the following default actions: **Forward**, **Redirect**, or **Fixed-response**, and it must be the last action to be performed.

For HTTPS listeners, you can include **Authentication** as a default action with Amazon Cognito or OpenID Connect

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Dash Insta Edit A Load AWS subh Dash mylo S3 M Photos 52.87 app.s How 54.28 New Tab + VPN

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ElbAddListener:loadBalancerArn=a... ↗

aws Services certificate Manager X N. Virginia Subham Pradhan

**Secure listener settings** Info

**Security policy**  
Your load balancer uses a Secure Socket Layer (SSL) negotiation configuration, known as a security policy, to negotiate SSL connections with clients.

ELBSecurityPolicy-TLS13-1-2-2021-06 (recommended)

[Compare security policies](#)

**Default SSL/TLS certificate**  
The certificate used if a client connects without SNI protocol, or if there are no matching certificates. This certificate will automatically be added to your listener certificate list.

From ACM subhampradhan.online 2d356525-6492-4cb2-9c9f-51a7fd709ffd C

[Request new ACM certificate](#)

**Listener tags - optional**  
Tags can help you manage, identify, organize, search for and filter resources.

Cancel Add

**Default actions**

The default action is the Action type that applies to traffic on the listener. The default action is also called the default rule. Default rules don't have conditions. A default action is performed if no other rules are present, or if none of the other conditions specified in the listener's rules are met.

Each rule must include exactly one of the following default actions: **Forward**, **Redirect**, or **Fixed-response**, and it must be the last action to be performed.

For HTTPS listeners, you can include **Authentication** as a default action with Amazon Cognito or OpenID Connect

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Type here to search Windows Start File Camera Cloud Folder Amazon Shield Google Sheets OneDrive CloudWatch Metrics CloudWatch Logs 27°C ENG 09:37 PM 25-08-2023

Dash | Insta | Edit | E | Load | AWS | subh | Dash | mylo | S3 M | Photos | 52.87 | app.s | How | 54.23 | New Tab | + | - | X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancer:loadBalancerArn=arn:aws:elasticloadbalancing:us-east-1:123456789012:loadbalancer/12345678901234567890123456789012

aws Services certificate Manager

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Scheduled Instances

Capacity Reservations

Listeners and rules (2) Info

A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.

Manage rules ▾ Manage listener ▾ Add listener

Filter listeners by property or value

Protocol:Port	Default action	Rules	ARN	Security policy
HTTP:80	Forward to target group <ul style="list-style-type: none"><li>Mytargetgroup: 1 (100%)</li><li>Group-level stickiness: Off</li></ul>	1 rule	ARN	Not applicable
HTTPS:443	Forward to target group <ul style="list-style-type: none"><li>Mytargetgroup: 1 (100%)</li><li>Group-level stickiness: Off</li></ul>	1 rule	ARN	ELBSecurityPolicy

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ELBListenerV2:loadBalancerArn=arn:aws:elasticloadbalancing:us-east-1:123456789012:listener/2d356525-6492-4...:443

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52.8 54.2 New Tab +

VPN

N. Virginia Subham Pradhan

EC2 > Load balancers > Myloadbalancer > HTTPS:443 listener > Add certificate to listener

## Add certificate to listener Info

Select the certificates you would like to add to this listener. The certificates below are managed by AWS Certificate Manager (ACM) or AWS Identity and Access Management (IAM). You can also import additional certificates and request new certificates using the ACM console.

### ACM and IAM certificates (1/1) Info

All certificates from ACM and IAM are below.

Certificate ID	Name or domain	Status	SAN	Expiration
<a href="#">2d356525-6492-4...</a>	subhampradhan.online	Valid	2	September 23, 2024, 0...

1 selected

Include more or add your pending selections to listener when ready

[Include as pending below](#)

Dashboard | EC2 Ma Instances | EC2 Man Edit target group att Edit listener | Lo Load balancers | EC2 app.subhampradhar How To Secure Ngin +  
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ElbEditListener:listenerArn=arn:aws:elb:us-east-1:782921506756:listener/app/Myloadbalancer/f0c477e092713233/a21144a084fbe6f6 VPN  
aws Services Search [Alt+S] N. Virginia Subham Pradhan

EC2 > Load balancers > Myloadbalancer > HTTPS:443 listener > Edit listener

## Edit listener

Edit the protocol, port or default actions of your Application Load Balancer (ALB) listener.

▶ Load balancer details: Myloadbalancer

### Listener details

A listener checks for connection requests using the protocol and port that you configure. The default action and any additional rules that you create determine how the Application Load Balancer routes requests to its registered targets.

Listener ARN

arn:aws:elasticloadbalancing:us-east-1:782921506756:listener/app/Myloadbalancer/f0c477e092713233/a21144a084fbe6f6

Protocol : Port

The listener will be identified by the protocol and port.

HTTPS ▾ 443  
1-65535

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Use OpenID or Amazon Cognito  
Include authentication using either OpenID Connect (OIDC) or Amazon Cognito.

**Action types**

Forward to target groups  Redirect to URL  Return fixed response

**Redirect to URL** [Info](#)  
Redirect client requests from one URL to another. You cannot redirect HTTPS to HTTP. To avoid a redirect loop, you must modify at least one of the following components: protocol, port, hostname or path. Components that you do not modify retain their original values.

**URI parts** **Full URL**

**Full URL** [Info](#)  
Enter the redirect URL.

protocol://hostname:port/path?query

Status code

301 - Permanently moved

**Secure listener settings** [Info](#)

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