

# Certificate manager & Route 53 project

Created complex architecture with VPC and launching instances using auto scaling group in private subnet, managing traffic with the help of load balancer in private subnets. Static website has been hosted on both private instance using http server.

```
ubuntu@ip-10-0-3-59: ~$
To check for new updates run: sudo apt update

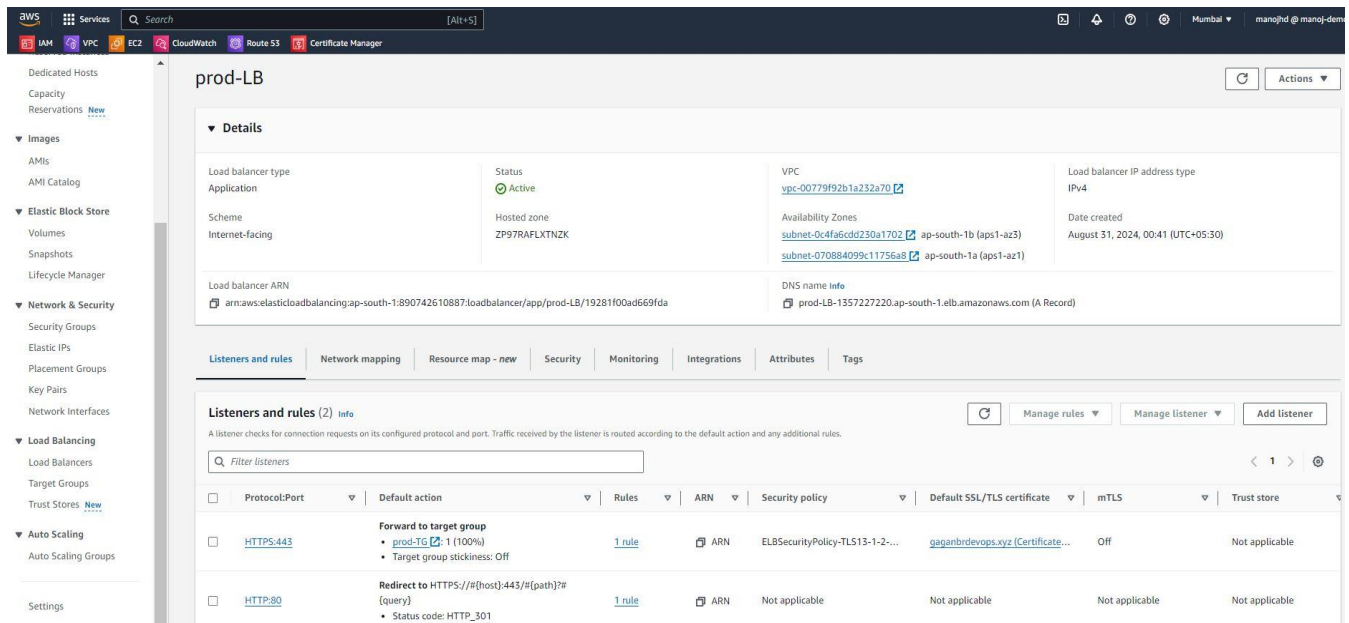
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

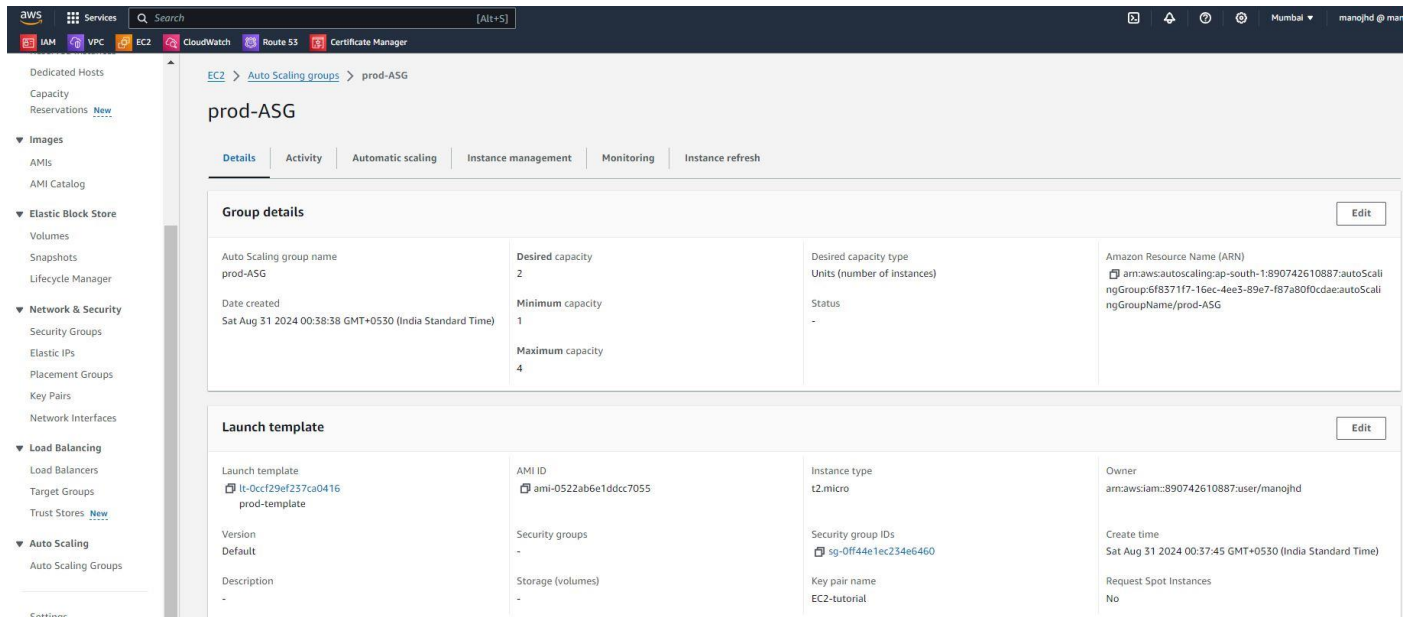
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-0-3-59:~$ vi index.html
ubuntu@ip-10-0-3-59:~$ python3 -m http.server 8000
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
10.0.2.245 - - [30/Aug/2024 19:17:16] "GET / HTTP/1.1" 200 -
10.0.1.36 - - [30/Aug/2024 19:17:21] "GET / HTTP/1.1" 200 -
10.0.1.36 - - [30/Aug/2024 19:17:33] "GET / HTTP/1.1" 200 -
10.0.1.36 - - [30/Aug/2024 19:17:36] "GET / HTTP/1.1" 304 -
10.0.1.36 - - [30/Aug/2024 19:17:38] "GET / HTTP/1.1" 304 -
10.0.1.36 - - [30/Aug/2024 19:17:39] "GET / HTTP/1.1" 304 -
10.0.1.36 - - [30/Aug/2024 19:17:39] "GET / HTTP/1.1" 304 -
```

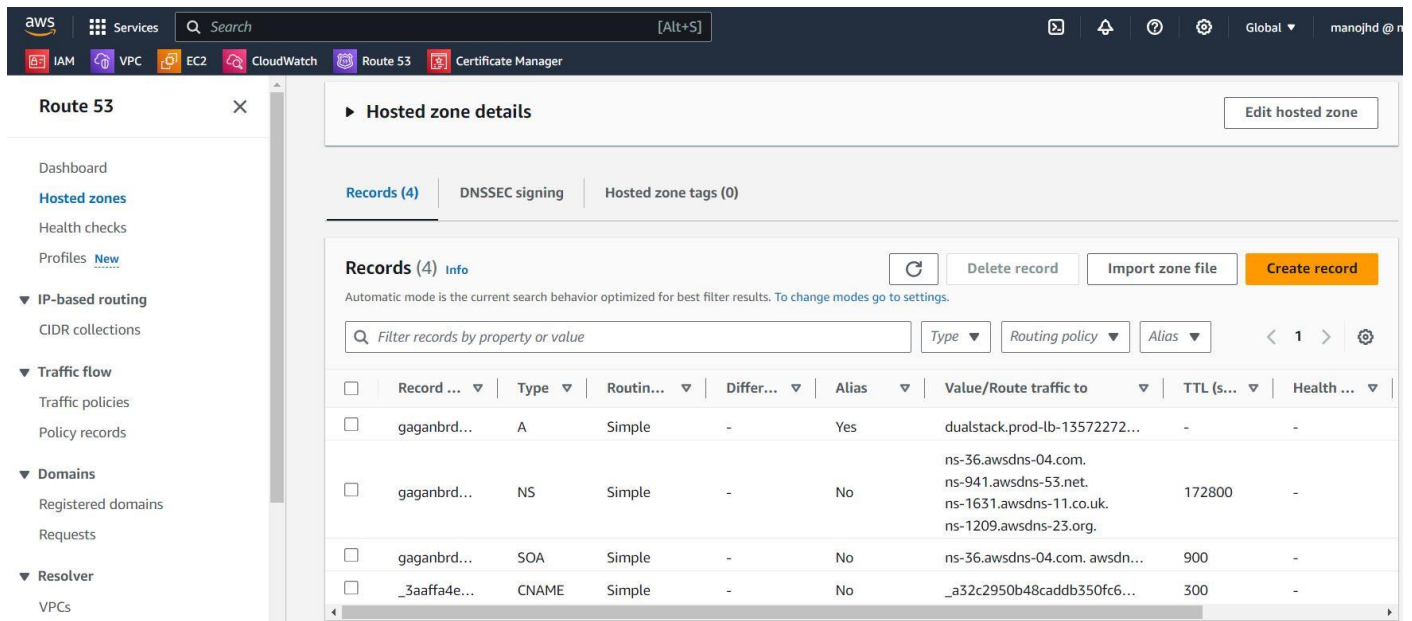
Traffic has managed using load balancer.



**Instances are scale up and scale down depending on traffic using auto scaling group.**



**Website hosted in server is accessible with domain name by using Route 53 service.**



**SSL certificate has been created using Certificate manager service to prevent the application using https protocol.**

aws

Services

Search

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IAM

VPC

EC2

CloudWatch

Route 53

Certificate Manager

Mumbai

manojd @ manoj-d

AWS Certificate Manager (ACM)

List certificates

Request certificate

Import certificate

AWS Private CA

AWS Certificate Manager

Certificates

e572fbbc-9c5a-45c8-8202-ffe3cbd2f7c1

e572fbbc-9c5a-45c8-8202-ffe3cbd2f7c1

Delete

Certificate status

Identifier

e572fbbc-9c5a-45c8-8202-ffe3cbd2f7c1

Status

Issued

ARN

arn:aws:acm:ap-south-1:890742610887:certificate/e572fbbc-9c5a-45c8-8202-ffe3cbd2f7c1

Type

Amazon Issued

Domains (1)

Create records in Route 53

Export to CSV

< 1 >

Domain	Status	Renewal status	Type	CNAME name
gaganbrdevops.xyz	Success	-	CNAME	_3aaffa4e650e75333f8d72c56ced0613.gaganbrdevops.xyz.

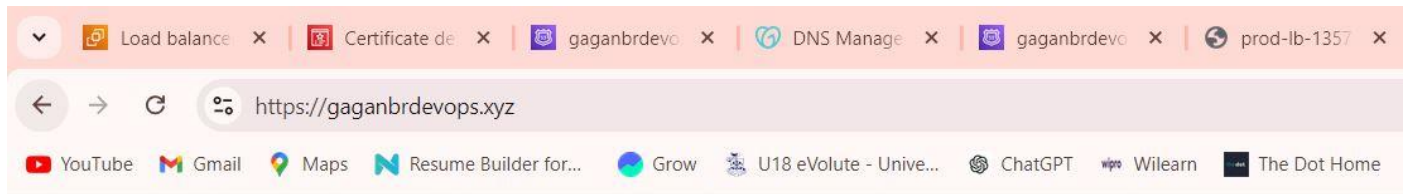
The screenshot shows the AWS Certificate Manager (ACM) console interface. On the left sidebar, there are navigation links: "List certificates", "Request certificate", "Import certificate", and "AWS Private CA". The main panel displays a table with one certificate entry:

Domain	Status	Renewal status	Type	CNAME name
gaganbrdevops.xyz	<span style="color: green;">✔ Success</span>	-	CNAME	_3aaffa4e650e75333f8d72c56ced0613.gaganbrdevops.yz.

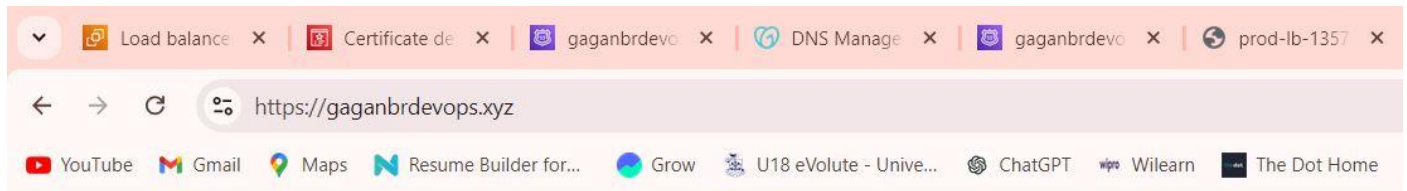
Below the table, there is a "Details" section with the following information:

- In use:** Yes
- Serial number:** 0b:13:1e:44:3e:99:d3:ec:22:76:84:1a:4b:d4:1c:64
- Requested at:** August 31, 2024, 00:54:48 (UTC+05:30)
- Renewal eligibility:** Eligible
- Domain name:** gaganbrdevops.xyz
- Public key info:** RSA 2048
- Issued at:** August 31, 2024, 00:55:37 (UTC+05:30)
- Number of additional names:** 0
- Signature algorithm:** SHA-256 with RSA
- Not before:** August 30, 2024, 05:30:00 (UTC+05:30)
- Not after:** September 29, 2025, 05:29:59 (UTC+05:30)
- Can be used with:**

**Website is accessible from https protocol.**



**Server is responding from instance 1 with secure https protocol**



**Server is responding from instance 2 with secure https protocol**