

**Name – Parth**

**Position - Intern**

## **Task –1 & Project –1 [Document]**

- ❖ Create a Vpc (Virtual Private Cloud), and create 2 public subnets and 2 private subnets, connect public subnets with internet gateway and private subnets with Nat gateway. So, that a network can be established, after that create a ec2 instance in public subnet and try to access that instance in cli. Also, create a ec2 instance in private subnet and also try to access that in cli. Note: Private instance can't be accessed directly (without Vpn). The other alternative way is to access with the help of instance present in public subnet.

Step 1: Creating a vpc and involving all the dependencies needed.

ap-south-1.console.aws.amazon.com

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

My\_vpc\_alb

vpc-0d97a8dfb62881fad / My\_vpc\_alb

Details

VPC ID: vpc-0d97a8dfb62881fad

State: Available

Tenancy: Default

Default VPC: No

Network Address Usage metrics: Disabled

DHCP option set: dopt-0e6262be9f5f26312

IPv4 CIDR: 10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups: -

DNS hostnames: Disabled

Main route table: rtb-09c8ac97efc25758f

IPv6 pool: -

Owner ID: 215182049470

DNS resolution: Enabled

Main network ACL: acl-0b1af29ef7611dfaa

IPv6 CIDR (Network border group): -

Resource map

Subnets (4)

Subnets within this VPC

ap-south-1a

Route tables (1)

Route network traffic to resources

rtb-09c8ac97efc25758f

My\_vpc\_alb

CloudShell

Feedback

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Step 2: Now, Creating 2 public subnets and 2 private subnets, with required configurations.

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Egress-only internet gateways

DHCP option sets

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NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS Firewall

VPC > Subnets > subnet-06b8383b3ee5636f7

subnet-06b8383b3ee5636f7 / my-public-subnet-1a

Actions

Details

Subnet ID

subnet-06b8383b3ee5636f7

Available IPv4 addresses

251

Network border group

ap-south-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

Subnet ARN

arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-06b8383b3ee5636f7

IPv6 CIDR

-

VPC

vpc-0d97a8dfb62881fad | My\_vpc\_alb

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

215182049470

State

Available

Availability Zone

ap-south-1a

Route table

rtb-09c8ac97efc25758f

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name DNS A record

Disabled

IPv4 CIDR

10.0.1.0/24

Availability Zone ID

aps1-az1

Network ACL

acl-0b1af29ef7611dfaa

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

CloudShell

Feedback

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VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS Firewall

VPC > Subnets > subnet-0e5ad72adcb84cd56

subnet-0e5ad72adcb84cd56 / my-public-subnet-1b

Actions

Details

Subnet ID

subnet-0e5ad72adcb84cd56

Available IPv4 addresses

251

Network border group

ap-south-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

Subnet ARN

arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-0e5ad72adcb84cd56

IPv6 CIDR

-

VPC

vpc-0d97a8dfb62881fad | My\_vpc\_alb

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

215182049470

State

Available

Availability Zone

ap-south-1b

Route table

rtb-09c8ac97efc25758f

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name DNS A record

Disabled

IPv4 CIDR

10.0.2.0/24

Availability Zone ID

aps1-az3

Network ACL

acl-0b1af29ef7611dfaa

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

CloudShell

Feedback

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The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left sidebar shows the 'VPC dashboard' with a filter set to 'Virtual private cloud'. The main content area shows the details for 'subnet-040d9a960a18f03a8 / my-private-subnet-1a'. The details are organized into a table with four columns: Subnet ID, Subnet ARN, State, and IPv4 CIDR. The Subnet ID is 'subnet-040d9a960a18f03a8', the Subnet ARN is 'arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-040d9a960a18f03a8', the State is 'Available', and the IPv4 CIDR is '10.0.3.0/24'. Other details include Availability Zone 'ap-south-1a', Route table 'rtb-09c8ac97efc25758f', Network ACL 'acl-0b1af29ef7611dfaa', and various reservation and DNS settings. The bottom of the console shows the footer with copyright information for 2024 Amazon Web Services.

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-040d9a960a18f03a8	arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-040d9a960a18f03a8	Available	10.0.3.0/24

The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left sidebar shows the 'VPC dashboard' with a filter set to 'Virtual private cloud'. The main content area shows the details for 'subnet-0c3ceab6ce1548079 / my-private-subnet-1b'. The details are organized into a table with four columns: Subnet ID, Subnet ARN, State, and IPv4 CIDR. The Subnet ID is 'subnet-0c3ceab6ce1548079', the Subnet ARN is 'arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-0c3ceab6ce1548079', the State is 'Available', and the IPv4 CIDR is '10.0.4.0/24'. Other details include Availability Zone 'ap-south-1b', Route table 'rtb-09c8ac97efc25758f', Network ACL 'acl-0b1af29ef7611dfaa', and various reservation and DNS settings. The bottom of the console shows the footer with copyright information for 2024 Amazon Web Services.

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-0c3ceab6ce1548079	arn:aws:ec2:ap-south-1:215182049470:subnet/subnet-0c3ceab6ce1548079	Available	10.0.4.0/24

Step 3: Create an internet gateway and associate it with public subnets. And, association will take place when you will go and click on subnet association and attach those 2 public subnets with Internet Gateway.

The screenshot shows the AWS Management Console interface for creating an internet gateway. The breadcrumb navigation is VPC > Internet gateways > Create internet gateway. The page title is 'Create internet gateway' with an 'Info' link. A descriptive paragraph states: 'An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.' The 'Internet gateway settings' section contains a 'Name tag' field with the value 'my-ig-public-gateway'. Below this is a 'Tags - optional' section with a table showing a tag with key 'Name' and value 'my-ig-public-gateway'. At the bottom are 'Cancel' and 'Create internet gateway' buttons.

Internet gateway settings

Name tag  
Creates a tag with a key of 'Name' and a value that you specify.

my-ig-public-gateway

Tags - optional  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
Name	my-ig-public-gateway

Add new tag  
You can add 49 more tags.

Cancel Create internet gateway

Step 4: Create a Nat gateway and associate it with private subnets. And association will take place when you will go and click on subnet association and attach those 2 private subnets with Nat Gateway.

The screenshot shows the AWS Management Console interface for creating a NAT gateway. The breadcrumb navigation is VPC > NAT gateways > Create NAT gateway. The page title is 'Create NAT gateway' with an 'Info' link. A descriptive paragraph states: 'A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.' The 'NAT gateway settings' section contains a 'Name - optional' field with the value 'my-nat-private-gateway-1', a 'Subnet' dropdown menu showing 'subnet-040d9a960a18f03a8 (my-private-subnet-1a)', and a 'Connectivity type' section with 'Public' selected. Below this is an 'Elastic IP allocation ID' field with the value 'eipalloc-09b10a2b01518fc6c' and an 'Allocate Elastic IP' button. At the bottom are 'Additional settings' and 'Tags' sections.

NAT gateway settings

Name - optional  
Create a tag with a key of 'Name' and a value that you specify.

my-nat-private-gateway-1  
The name can be up to 256 characters long.

Subnet  
Select a subnet in which to create the NAT gateway.

subnet-040d9a960a18f03a8 (my-private-subnet-1a)

Connectivity type  
Select a connectivity type for the NAT gateway.

Public  
Private

Elastic IP allocation ID - Info  
Assign an Elastic IP address to the NAT gateway.

eipalloc-09b10a2b01518fc6c Allocate Elastic IP

Additional settings - Info

Tags  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Step 5: Also, create 2 route tables one for the public subnet and one for the private Subnet. For, the public in inbound security give http port 80 or 443 and for private give the inbound security ssh 23.

The screenshot displays the AWS Management Console interface. The top navigation bar shows the AWS logo, a search bar, and various service icons. The left sidebar contains the 'VPC dashboard' and a list of services including EC2, S3, EFS, IAM, Elastic Container Service, Elastic Kubernetes Service, and Lambda. The main content area shows the details of a route table named 'rtb-0087623b52d9bc732 / my-public-route-table'. A green notification banner at the top states 'Route table rtb-0087623b52d9bc732 | my-public-route-table was created successfully.' The route table details include its ID, VPC, and owner information. Below the details, there is a 'Routes' section showing a single route with destination '10.0.0.0/16' and target 'local', which is active. The bottom section shows the 'Create route table' wizard, where the 'Name' is set to 'my-route-table-public-subnet' and the 'VPC' is 'vpc-0d97a8dfb62881fad (My\_vpc\_alb)'. The 'Tags' section shows a key-value pair 'Name: my-route-table-public-subnet'. The 'Create route table' button is highlighted in orange.

ap-south-1.console.aws.amazon.com

Route table rtb-0087623b52d9bc732 | my-public-route-table was created successfully.

VPC > Route tables > rtb-0087623b52d9bc732

### rtb-0087623b52d9bc732 / my-public-route-table

Actions

**Details** info

Route table ID rtb-0087623b52d9bc732	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-0d97a8dfb62881fad   My_vpc_alb	Owner ID 215182049470		

Routes | Subnet associations | Edge associations | Route propagation | Tags

**Routes (1)** Both Edit routes

Filter routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

**Create route table** info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.  
my-route-table-public-subnet

**VPC**  
The VPC to use for this route table.  
vpc-0d97a8dfb62881fad (My\_vpc\_alb)

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

**Key**  
Name

**Value - optional**  
my-route-table-public-subnet

Add new tag

You can add 49 more tags.

CreateRouteTable

Cancel Create route table

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The screenshot displays the AWS Management Console interface. At the top, the navigation bar shows the AWS logo, 'Services', a search bar, and the current region 'Mumbai'. Below the navigation bar, the left-hand sidebar contains a list of services: VPC, EC2, S3, EFS, Billing and Cost Management, IAM, Elastic Container Service, Elastic Kubernetes Service, and Lambda. The main content area is titled 'EC2 Dashboard' and shows the 'Instances' page for the specific instance 'i-02c45ae603b2eebf9'. The instance summary is displayed, showing it is in the 'Running' state. The summary includes details such as the Public IPv4 address (10.0.1.145), Private IPv4 addresses, Instance state (Running), Private IP DNS name (ip-10-0-1-145.ap-south-1.compute.internal), Instance type (t2.micro), VPC ID (vpc-0d97a8dfb62881fad), Subnet ID (subnet-06b8383b3ee5636f7), and Instance ARN (arn:aws:ec2:ap-south-1:215182049470:instance/i-02c45ae603b2eebf9). The bottom of the console shows a footer with the year '© 2024, Amazon Web Services, Inc. or its affiliates.' and links for Privacy, Terms, and Cookie preferences.

```

-r-----@ 1 parthisngh staff    1.6K Jul 2 10:41 vpc-key.pair.pem
-r-----@ 1 parthisngh staff    1.6K Jul 5 11:07 s3-access-keypair.pem
drwxr-xr-x 2 parthisngh staff   64B Feb 18 15:03 projectPlayer
-rw-r--r-- 1 parthisngh staff   27M Apr 2 15:44 jenkins.war
-rw-r--r-- 1 parthisngh staff   40B Apr 2 15:36 jenkins.rpm
-rw-r--r-- 1 parthisngh staff    8B Jan 30 15:36 hello.py
-rw-r--r-- 1 parthisngh staff  289B Mar 28 01:10 Vagrantfile
drwxr-xr-x 5 parthisngh staff  168B May 5 02:10 PycharmProjects
drwxr-xr-x 4 parthisngh staff  128B Jan 15 02:21 Public
drwxr-xr-x 4 parthisngh staff  128B Jan 15 02:22 Pictures
drwxr-xr-x 4 parthisngh staff  128B Jan 16 22:30 Music
drwxr-xr-x 4 parthisngh staff  128B Jan 16 22:27 Movies
drwxr-xr-x 95 parthisngh staff    3K Apr 27 22:40 Library
drwxr-xr-x 28 parthisngh staff  896B Apr 5 00:06 IdeaProjects
drwxr-xr-x @ 169 parthisngh staff   5.3K Jul 9 23:53 Downloads
drwxr-xr-x 3 parthisngh staff   96B Jan 15 02:21 Documents
-rw-r--r-- 1 parthisngh staff  390B Jan 30 15:40 Dockerfile
drwxr-xr-x 44 parthisngh staff   1.4K Jul 10 12:05 Desktop
drwxr-xr-x 48 parthisngh staff   1.5K Jul 10 11:47 .zsh_sessions
-rw-r--r-- 1 parthisngh staff   10K Jul 10 11:47 .zsh_history
-rw-r--r-- 1 parthisngh staff   42B Jan 27 02:44 .zprofile.pysave
-rw-r--r-- 1 parthisngh staff  208B Jan 30 15:26 .zprofile
drwxr-xr-x 5 parthisngh staff  160B Jan 26 02:43 .vscode
-rw-r--r-- 1 parthisngh staff   1.0K Mar 28 01:10 .viminfo
drwxr-xr-x 12 parthisngh staff  384B Mar 29 01:36 -vagrant.d
drwxr-xr-x 5 parthisngh staff  160B Mar 28 01:00 -vagrant
drwxr-xr-x 4 parthisngh staff  128B Jul 5 11:32 .ssh
drwxr-xr-x 3 parthisngh staff   96B Feb 18 15:13 .redhat
drwxr-xr-x 2 parthisngh staff   64B May 5 02:13 .matplotlib
drwxr-xr-x 3 parthisngh staff   96B Jan 21 18:26 .m2
drwxr-xr-x 3 parthisngh staff   96B Mar 28 00:50 .local
drwxr-xr-x 3 parthisngh staff   96B Jan 30 15:27 .idlerc
drwxr-xr-x 12 parthisngh staff  384B Jul 8 15:58 .docker
drwxr-xr-x 3 parthisngh staff   96B Feb 19 11:28 .config
drwxr-xr-x 3 parthisngh staff   96B Feb 18 15:14 .cache
drwxr-xr-x 48 parthisngh staff   1.5K Jul 9 10:44 .Trash
-rw-r--r--@ 1 parthisngh staff   10K Jul 9 10:45 _OS_Store
-rw-r--r-- 1 parthisngh staff    7B Jan 15 02:21 CUserTextEncoding
drwxr-xr-x 5 root      admin  160B Jun 30 00:35 ..
drwxr-xr-x @ 41 parthisngh staff   1.3K Jul 10 11:47 .
[parthisngh@Parths-MacBook-Air ~ % chmod 600 vpc-key\ pair.pem
[parthisngh@Parths-MacBook-Air ~ % ssh -i "vpc-key.pair.pem" ec2-user@13.234.21.145
ec2-user@13.234.21.145: Permission denied (publickey).
[parthisngh@Parths-MacBook-Air ~ % chmod 400 vpc-key\ pair.pem
[parthisngh@Parths-MacBook-Air ~ % ssh -i "vpc-key.pair.pem" ec2-user@13.234.21.145
ec2-user@13.234.21.145: Permission denied (publickey).
[parthisngh@Parths-MacBook-Air ~ % ssh -i "vpc-key.pair.pem" ec2-user@13.234.21.1
The authenticity of host '13.234.21.1 (13.234.21.1)' can't be established.
ED25519 key fingerprint is SHA256:k0BUxQZt0NIBajo4ZVdQL3CVyvc3Vdc0ahXNK.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.234.21.1' (ED25519) to the list of known hosts.
```

Step 8: Now, we will access or go inside the private instance by taking the help of public instance.

```
drwxr-xr-x  5 parthsingh staff 1608 Jan 26 02:43 .vscode
-rw-r--r--  1 parthsingh staff 1.0K Mar 28 01:10 .viminfo
drwxr-xr-x 12 parthsingh staff 3848 Mar 29 01:36 vagrant.d
drwxr-xr-x  5 parthsingh staff 1608 Mar 28 01:00 .vagrant
drwxr-xr-x  4 parthsingh staff 1288 Jul  5 11:32 .ssh
drwxr-xr-x  3 parthsingh staff 968 Feb 18 15:13 .redhat
drwxr-xr-x  2 parthsingh staff 648 May  5 02:13 .matplotlib
drwxr-xr-x  3 parthsingh staff 968 Jan 21 18:26 .m2
drwxr-xr-x  3 parthsingh staff 968 Mar 28 00:50 .local
drwxr-xr-x  3 parthsingh staff 968 Jan 30 15:27 .idlerc
drwxr-xr-x 12 parthsingh staff 3848 Jul  8 15:58 .docker
drwxr-xr-x  3 parthsingh staff 968 Feb 19 11:28 .config
drwxr-xr-x  3 parthsingh staff 968 Feb 18 15:14 .cache
drwxr-xr-x 48 parthsingh staff 1.5K Jul  9 10:44 .Trash
-rw-r--r--  1 parthsingh staff 10K Jul  9 10:45 .DS_Store
-r-----  1 parthsingh staff 78 Jan 15 02:21 .CUserTextEncoding
drwxr-xr-x  5 root      admin 1608 Jun 30 00:35 ..
drwxr-xr-x 41 parthsingh staff 1.3K Jul 10 11:47 .
parthsingh@Parths-MacBook-Air ~ % chmod 600 vpc-key\ pair.pem
parthsingh@Parths-MacBook-Air ~ % ssh -i "vpc-key pair.pem" ec2-user@13.234.21.145
ec2-user@13.234.21.145: Permission denied (publickey).
parthsingh@Parths-MacBook-Air ~ % chmod 400 vpc-key\ pair.pem
parthsingh@Parths-MacBook-Air ~ % ssh -i "vpc-key pair.pem" ec2-user@13.234.21.145
ec2-user@13.234.21.145: Permission denied (publickey).
parthsingh@Parths-MacBook-Air ~ % ssh -i "vpc-key pair.pem" ec2-user@13.234.21.1
The authenticity of host '13.234.21.1 (13.234.21.1)' can't be established.
ED25519 key fingerprint is SHA256:k00UcXQ2t0NIBajo4ZVQzGL3Cv7zyveC3vDco4hxNk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.234.21.1' (ED25519) to the list of known hosts.

#
~\##### Amazon Linux 2023
~~~\#####
~~~\###
~~~\##/ --- https://aws.amazon.com/linux/amazon-linux-2023
~~~\##/ ---
~~~\##/ ---
~~~\##/ ---
~~~\##/ ---
[ec2-user@ip-10-0-2-248 ~]$ client_loop: send disconnect: Broken pipe
parthsingh@Parths-MacBook-Air ~ % ssh -i "vpc-key pair.pem" ec2-user@10.0.3.56
^Z
zsh: suspended ssh -i "vpc-key pair.pem" ec2-user@10.0.3.56
parthsingh@Parths-MacBook-Air ~ % ls
Desktop      Downloads    Movies       Public       hello.py     projectPlayer  yrstes
Dockerfile   IdeaProjects Music        PycharmProjects jenkins.rpm   s3-access-keypair.pem
Documents    Library      Pictures     Vagrantfile  jenkins.war  vpc-key pair.pem
parthsingh@Parths-MacBook-Air ~ % ssh -i "vpc-key pair.pem" ec2-user@13.234.21.1

#
~\##### Amazon Linux 2023
~~~\#####
~~~\###
~~~\##/ --- https://aws.amazon.com/linux/amazon-linux-2023
~~~\##/ ---
~~~\##/ ---
~~~\##/ ---
Last login: Wed Jul 10 06:46:45 2024 from 106.221.227.7
[ec2-user@ip-10-0-2-248 ~]$ ssh -i "vpc-key pair.pem" ec2-user@10.0.3.56
Warning: Identity file vpc-key pair.pem not accessible: No such file or directory.
||
```

Step 9 : Now, we will install nginx server on private ec2 instance. Nginx



```
~ -- ec2-user@ip-10-0-0-248:~ -- -zsh
Last login: Wed Jul 10 12:51:06 on tty002

Package Arch Version Repository Size
-----
Installing:
nginx x86_64 1:1.24.0-1.amzn2023.0.2 amazonlinux 32 k
Installing dependencies:
generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3 amazonlinux 19 k
gperftools-libs x86_64 2.9.1-1.amzn2023.0.3 amazonlinux 308 k
libunwind x86_64 1.4.0-5.amzn2023.0.2 amazonlinux 66 k
nginx-core x86_64 1:1.24.0-1.amzn2023.0.2 amazonlinux 586 k
nginx-filesystem noarch 1:1.24.0-1.amzn2023.0.2 amazonlinux 9.1 k
nginx-mimetypes noarch 2.1.49-3.amzn2023.0.3 amazonlinux 21 k

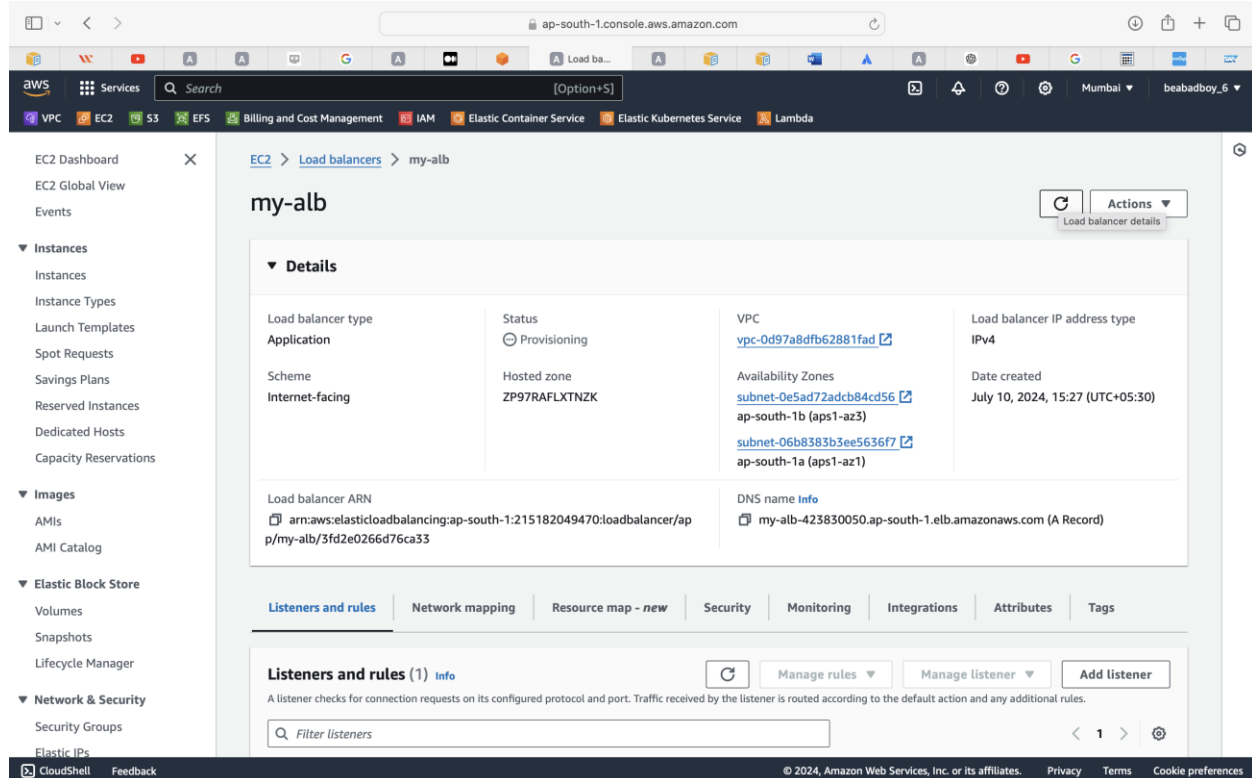
Transaction Summary
-----
Install 7 Packages

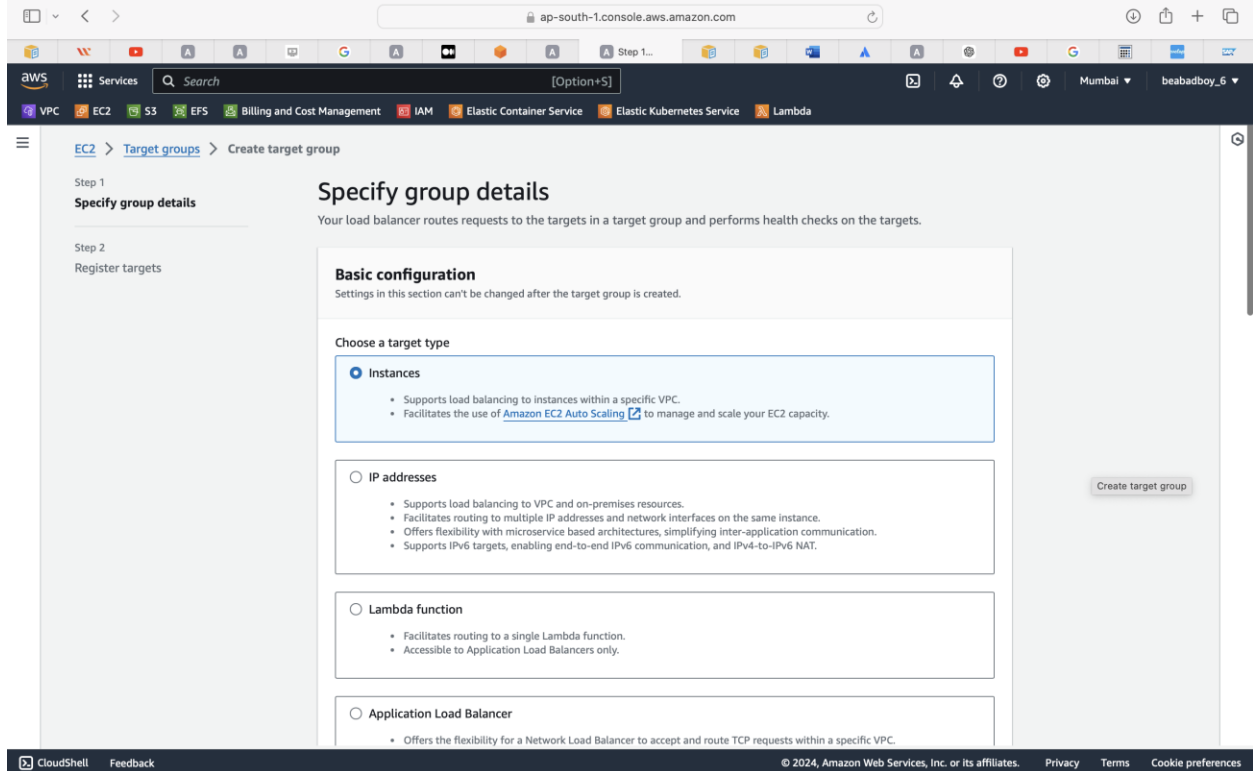
Total download size: 1.0 M
Installed size: 3.4 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): generic-logos-httpd-18.0.0-12.amzn2023.0.332 kB/s | 19 kB 00:00
(2/7): libunwind-1.4.0-5.amzn2023.0.2.x86_64.rp1.0 MB/s | 66 kB 00:00
(3/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x864.1 MB/s | 308 kB 00:00
(4/7): nginx-1.24.0-1.amzn2023.0.2.x86_64.rpm1.5 MB/s | 32 kB 00:00
(5/7): nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64,21 MB/s | 586 kB 00:00
(6/7): nginx-filesystem-1.24.0-1.amzn2023.0.2.no444 kB/s | 9.1 kB 00:00
(7/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.no1.1 MB/s | 21 kB 00:00
-----
Total 6.4 MB/s | 1.0 MB 00:00

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Running scriptlet: nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 1/7
Installing : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 2/7
Installing : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Installing : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 4/7
Installing : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 6/7
Installing : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Running scriptlet: nginx-1:1.24.0-1.amzn2023.0.2.x86_64 7/7
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 1/7
Verifying : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64 2/7
Verifying : libunwind-1.4.0-5.amzn2023.0.2.x86_64 3/7
Verifying : nginx-1:1.24.0-1.amzn2023.0.2.x86_64 4/7
Verifying : nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64 5/7
Verifying : nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch 6/7
Verifying : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch 7/7

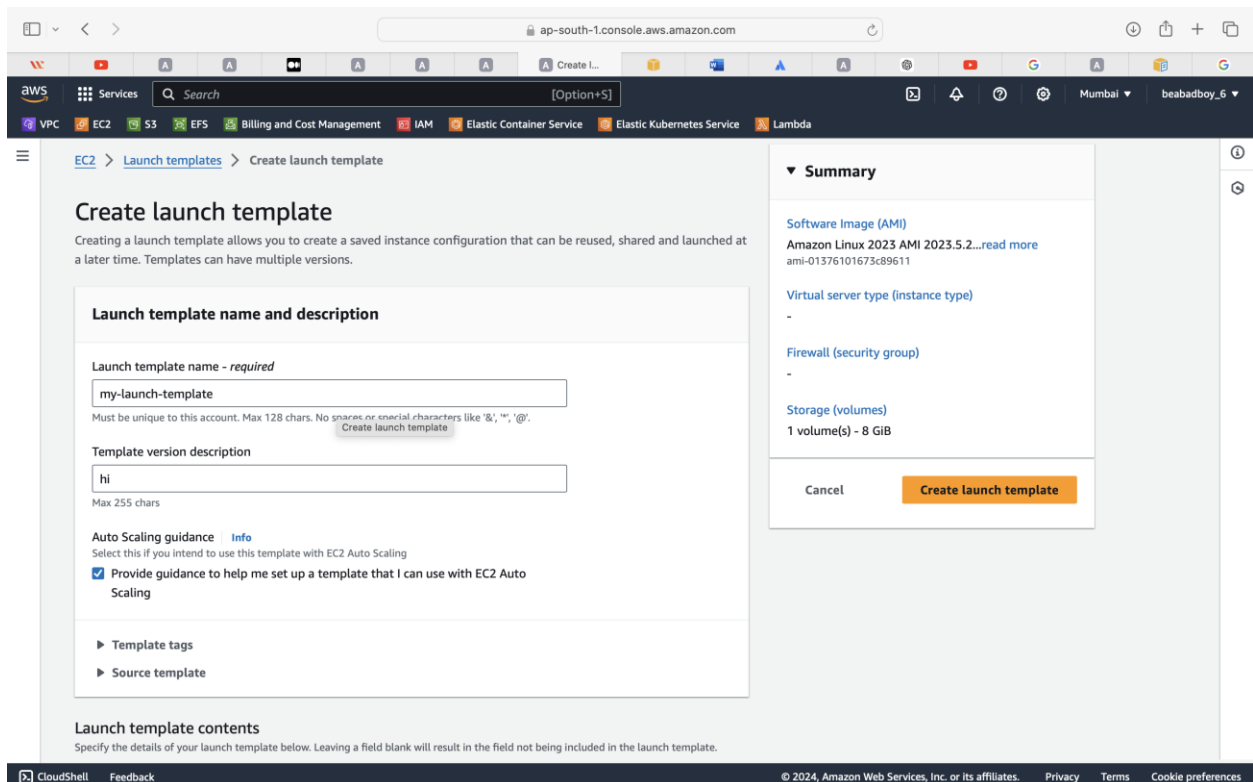
Installed:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
libunwind-1.4.0-5.amzn2023.0.2.x86_64
nginx-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64
nginx-filesystem-1:1.24.0-1.amzn2023.0.2.noarch
```

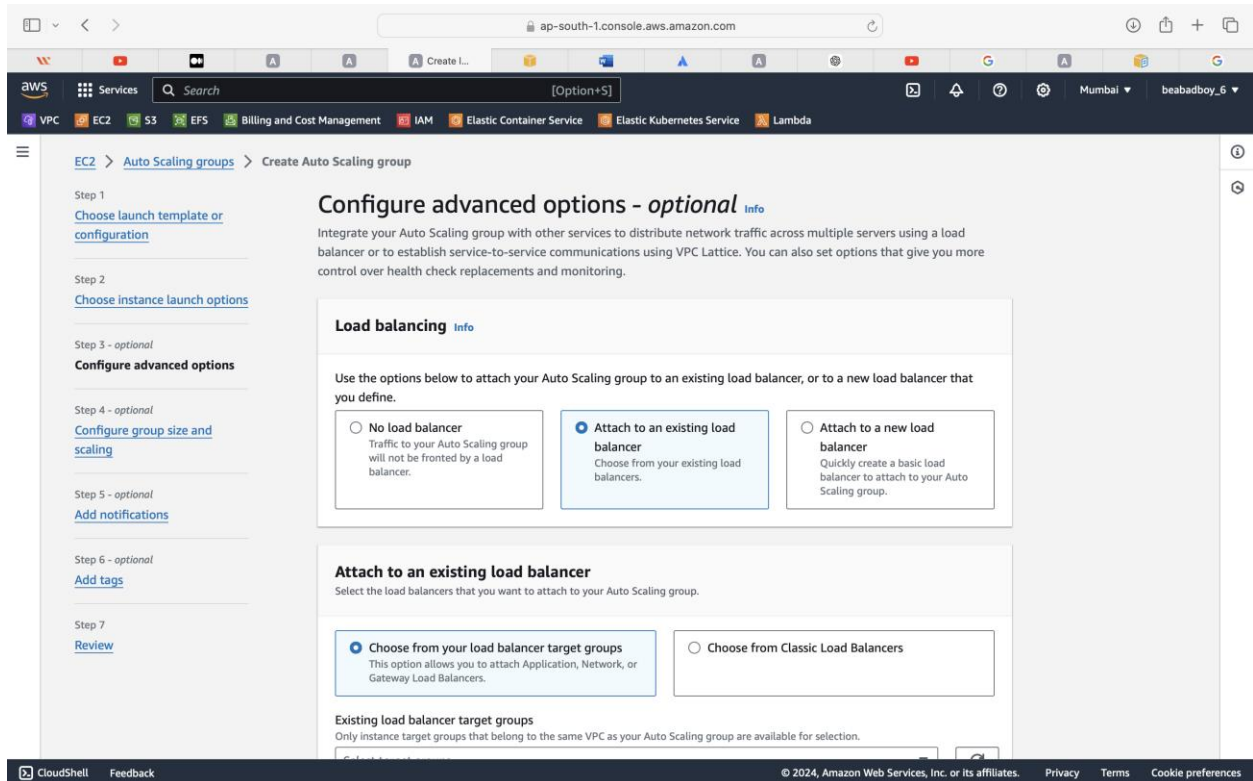
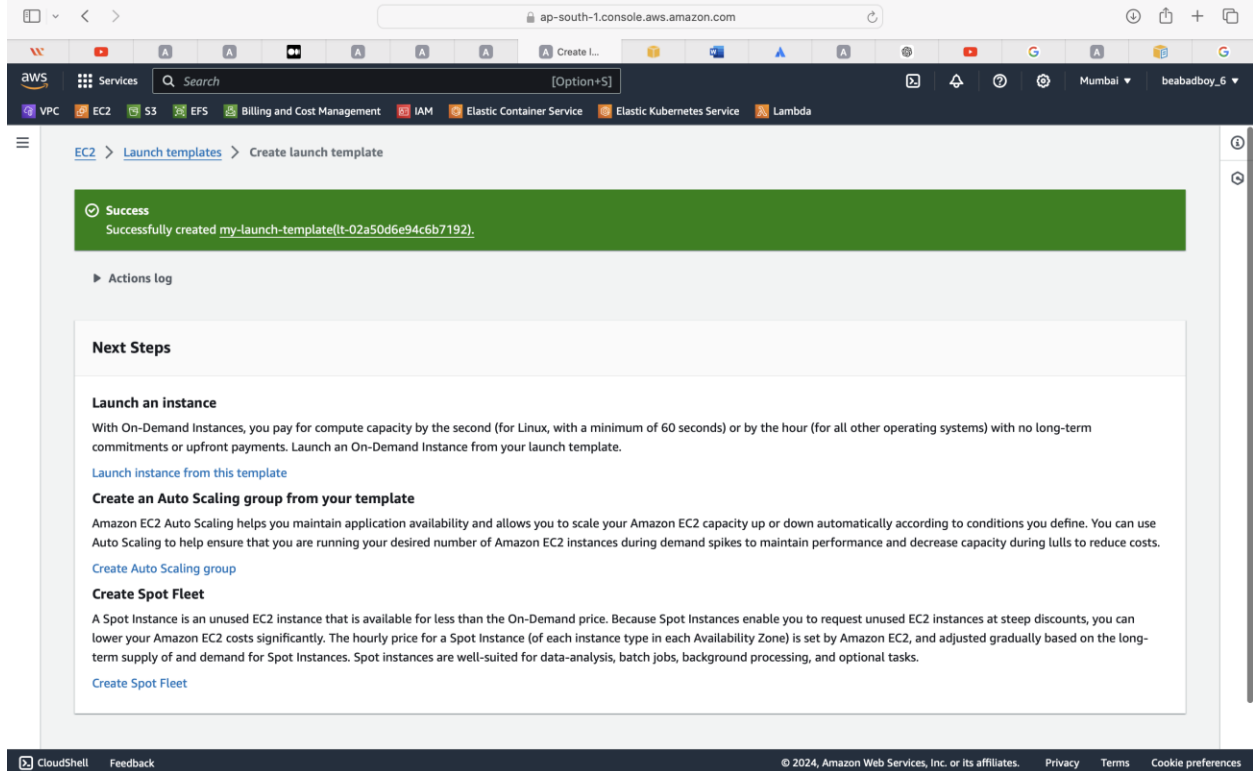
Step 10: Now, we will create alb in public subnet and also create a target group which will shift or point the load of alb towards private instance.



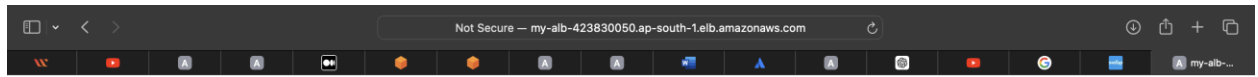


Step 11: Now, we will create auto-scaling groups, and for that first we have to create a launch template(a launch template contains configurational data of an instance).





Step 10: After , editing our index.html file our final text is being displayed on web server.



Hi From, Parth!!!