

# Experiment : 9

## Title : Configure Failover Routing with Amazon Route 53

D.Bhargav  
RA2011028010069

Date: 09/11/2022

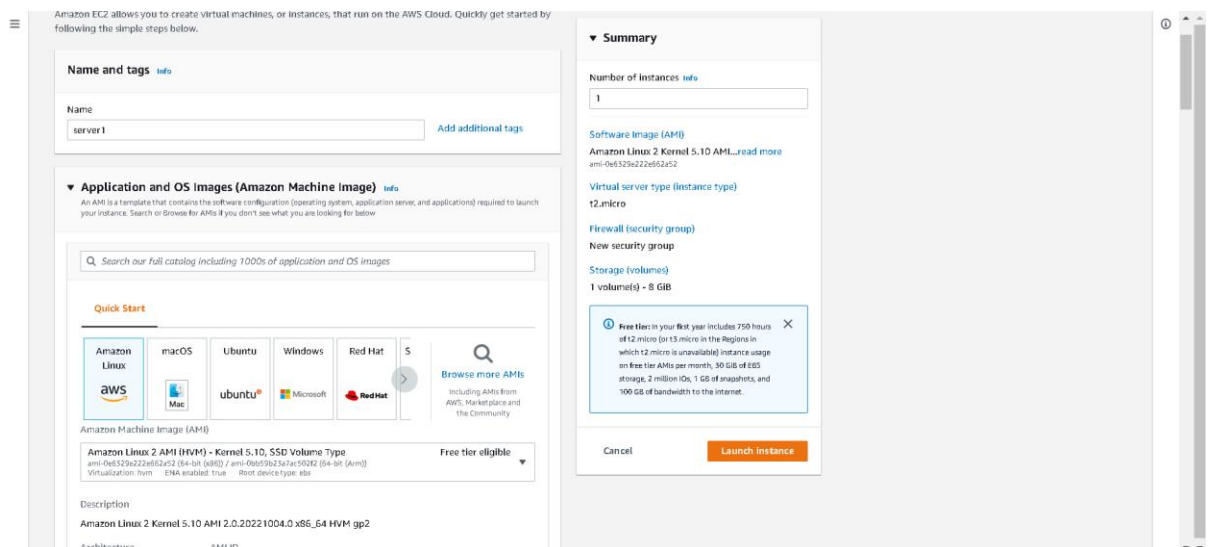
**Aim :** Configure DNS failover routing policy for Webservers across AWS Regions.

**Pre-requisites :** AWS Console, Amazon Route 53, Amazon EC2.

## Procedure :

Steps:

1. Create a Public webserver in region 1.



Launch an instance | EC2 Manag

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#launchInstances

Services

Search

[Alt+S]

Instance type

t2.micro

Free tier eligible

Compare instance types

Key pair (login)

Key pair name - required

ad1543

Create new key pair

Network settings

VPC - required

vpc-0f5e6ca3b5f734813

(default)

Subnet

subnet-0d666856a68d53e15

Availability Zone: ap-south-1b

Auto-assign public IP

Enable

Firewall (security groups)

Create security group

Select existing security group

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Launch instance

27°C Cloudy

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Launch an instance | EC2 Manag

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#launchInstances

Services

Search

[Alt+S]

Firewall (security groups)

Create security group

Select existing security group

Security group name - required

webserver

Description - required

launch-wizard-7 created 2022-11-08T09:04:56.116Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 14.96.13.220/32)

Type

ssh

Protocol

TCP

Port range

22

Source type

My IP

Name

14.96.13.220/32

Description - optional

e.g. SSH for admin desktop

Security group rule 2 (TCP, 80, 0.0.0.0/0)

Type

HTTP

Protocol

TCP

Port range

80

Source type

Custom

Source

0.0.0.0/0

Description - optional

e.g. SSH for admin desktop

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

Virtual server type (instance type)

t2.micro

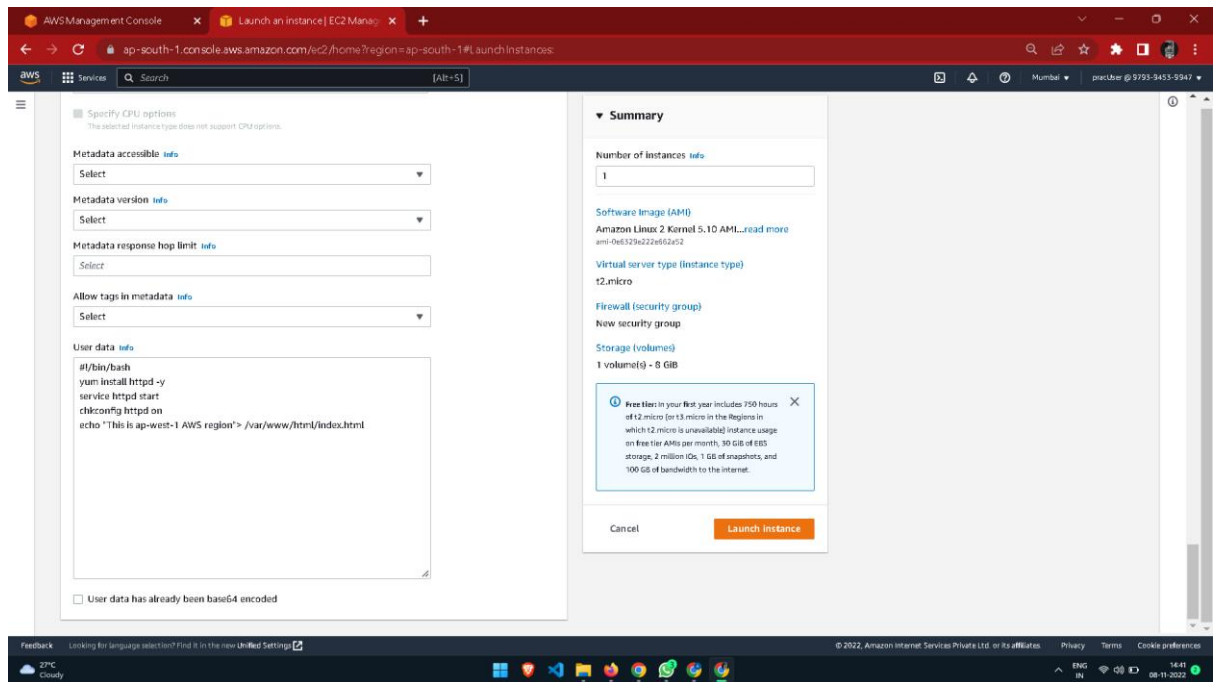
Firewall (security group)

New security group

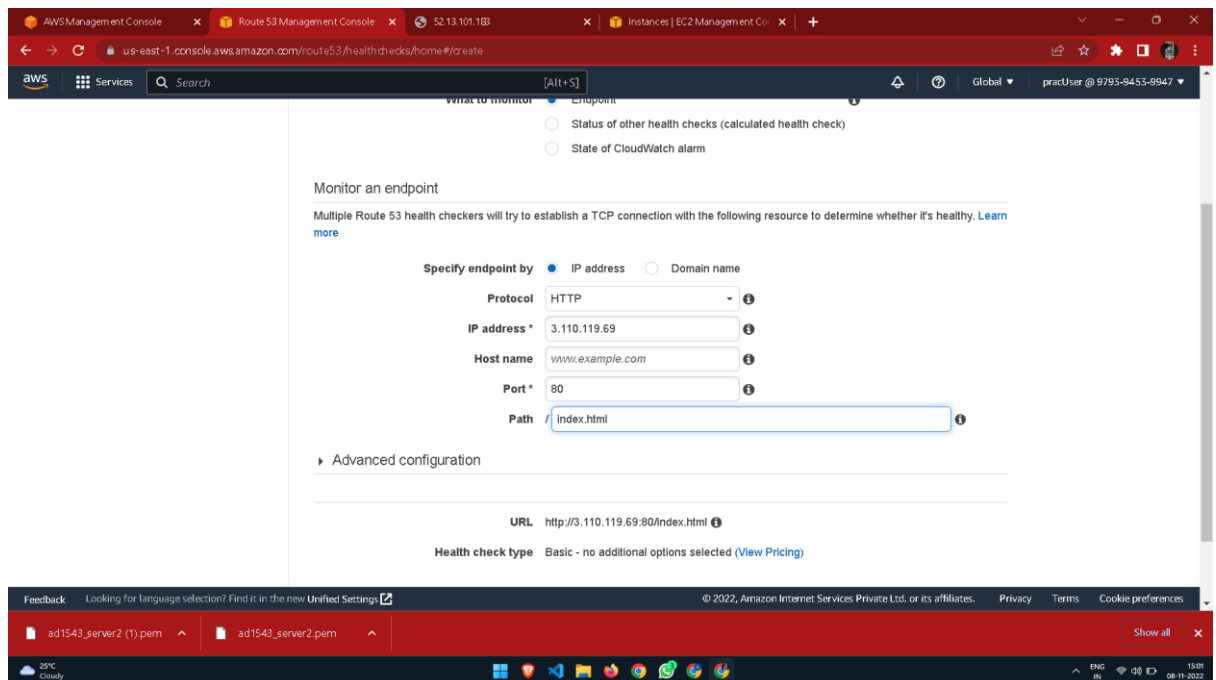
Storage (volumes)

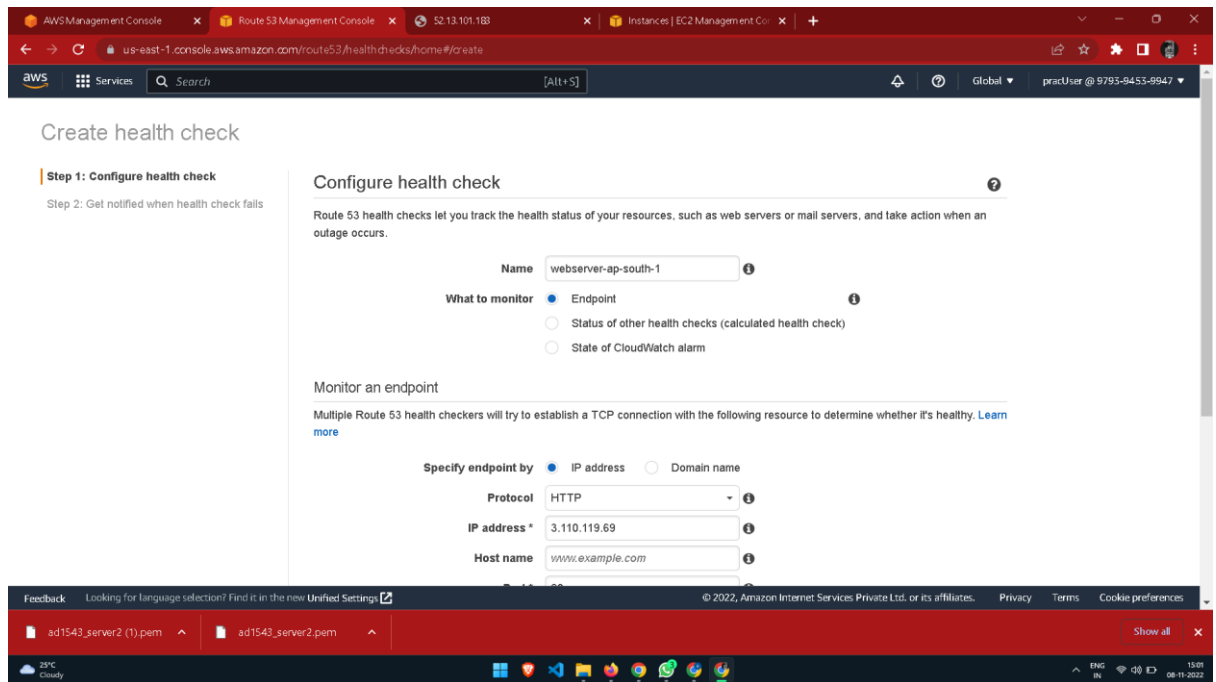
1 volume(s) - 8 GiB

Launch instance

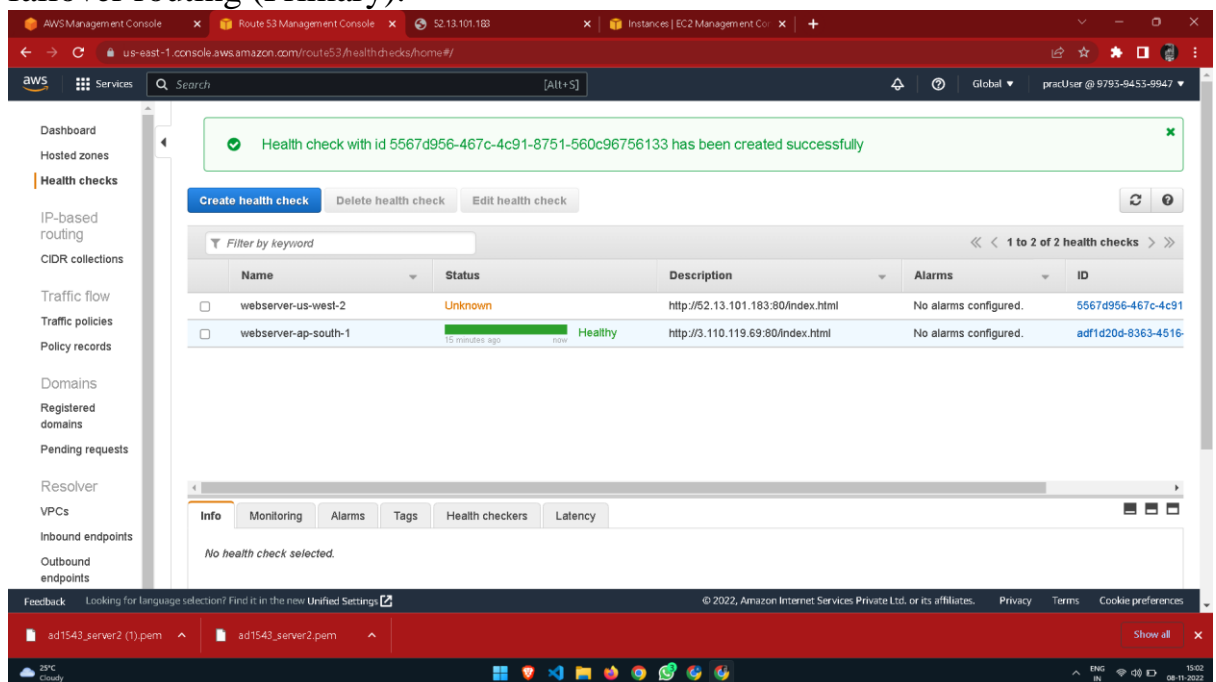


2. Create a public webserver in region 2.
3. Create a Route53 public hosted zone (e.g: Yourdomain.com).
4. Create 2 health checks for both the webserver.

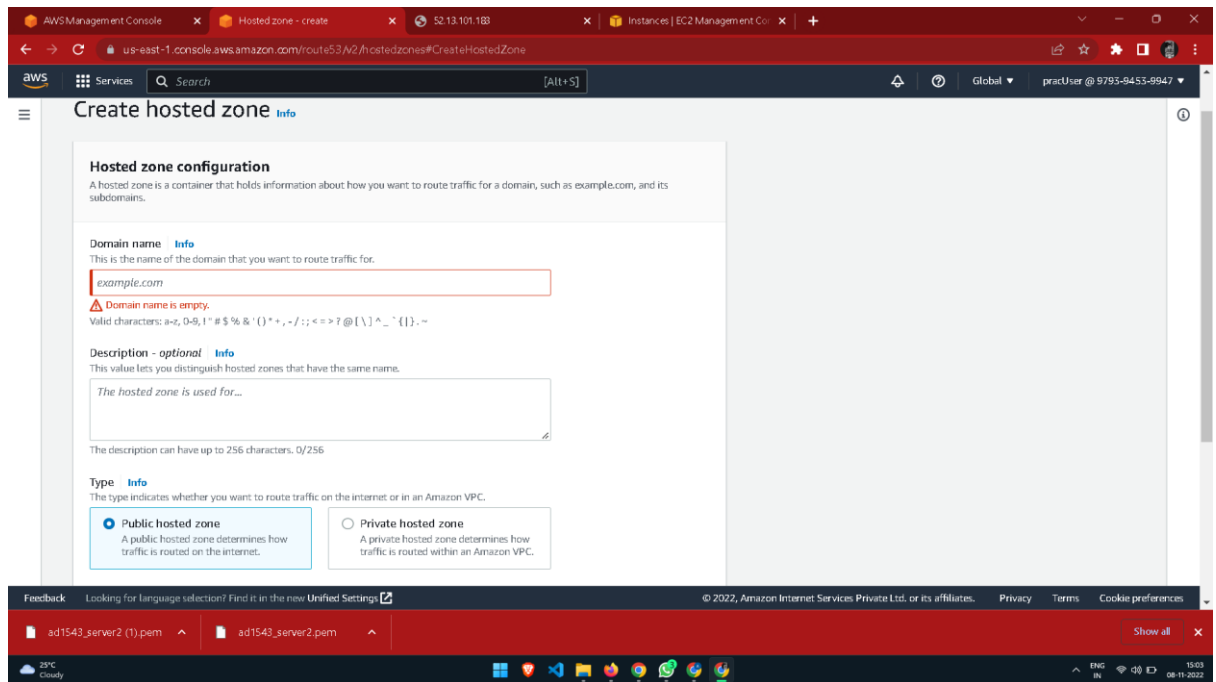




5. Create a subdomain A record test.yourdomain.com and configure it as failover routing (Primary).



6. Create another same subdomain A record test.yourdomain.com and configure it as failover routing (secondary).



7. Test the connection by hitting <http://test.yourdomain.com>.
8. Login to primary webserver in region 1 and stop httpd service.
9. Wait for TTL to expire and see If you get redirected to another web server in region 2.

## Result:

Hence, we have successfully configure DNS failover routing policy for Webservers across AWS Regions.