

# 2021 Multi-Region NextJS Deployment using Route 53 and EC2

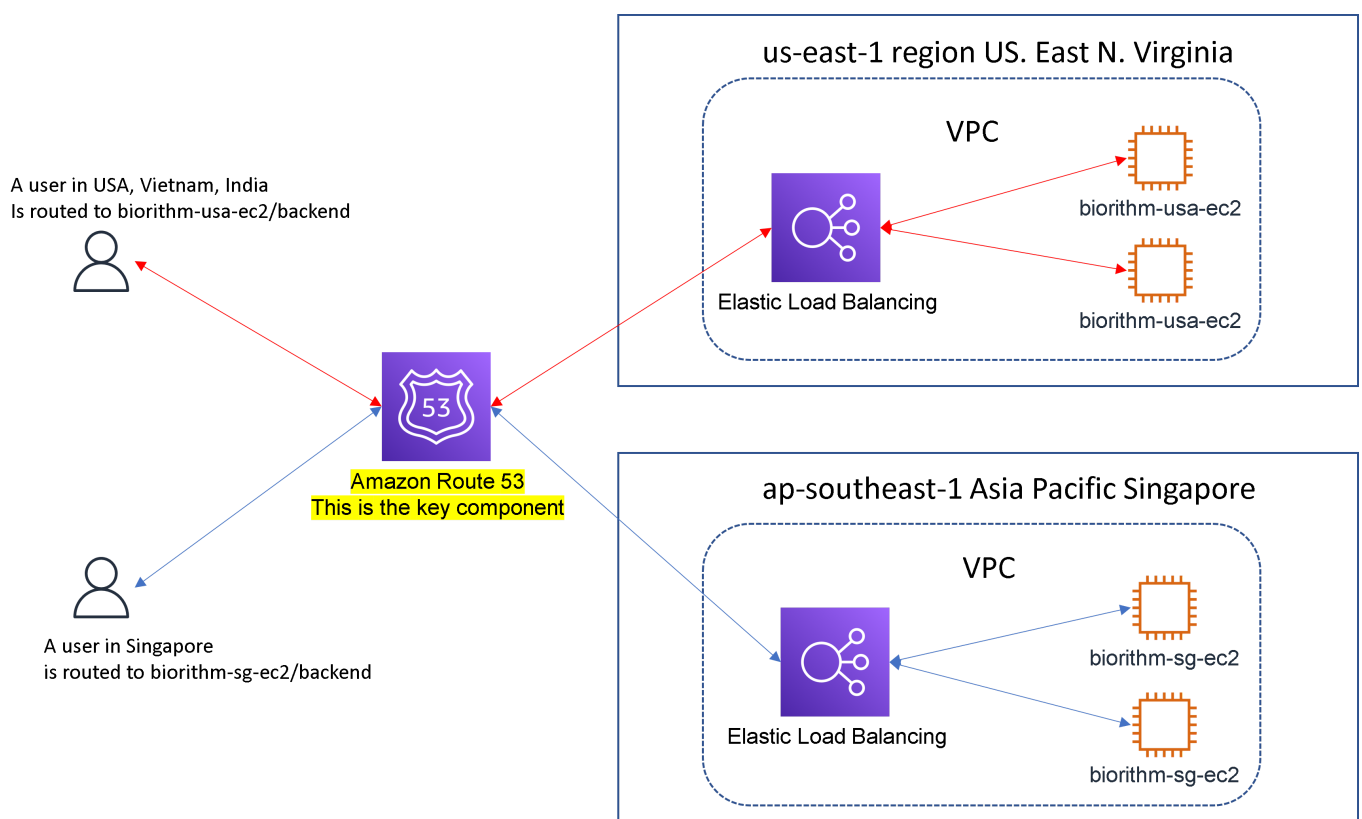
03 DEC 2021 TRAN MINH HAI

## Abstract

When users click in this web [biorithm](http://test.entest.io) they will be routed based on their ip **geolocation**

- Users in Signapore are routed to aws ap-southeast-1 Asia Pacific Singapore
- Users in USA, India, Vietnam are routed to aws us-east-1 US Eeast N.Virginia
- Noted: support **http** only <http://test.entest.io>. No **https** for this demo.
- Based on your location, you will see different things as the end of this note

## 1. Architecture



## 2. Use cases

- Fail-over handle
- Better user experience per region

## 3. Key component route 53 and routing policy

- Geolocation based on location of users
- Geoproximity based on location of resources
- Failover active-passive failover
- Latency based on latency round-trip
- Weighted
- Multivalue answer

- Simple

## 4. Simple example

- A web <http://test.entest.io>
- Code repo for the web [web repo](#)
- Users in USA, Vietnam, India will be routed to the **aws us-east-1** US-East(N.Virignia)
- Users in Singapore, Asia will be routed to **aws ap-southeast-1** Asia Pacific (Singapore)

## 5. Configure

### Singapore

**Edit record**
⚙️
✕

Record name [Info](#)  
 .entest.io  
Valid characters: a-z, 0-9, ! \* \$ % & ' ( ) \* + , - / : ; < = > ? @ [ \ ] ^ \_ ` { | } , ~

Record type [Info](#)  
A – Routes traffic to an IPv4 address and some AWS re... ▼

Value [Info](#)  
  
Enter multiple values on separate lines.

TTL (seconds) [Info](#)  
     
Recommended values: 60 to 172800 (two days)

Routing policy [Info](#)  
Geolocation ▼

Location  
Asia ▼

### USA

**Edit record**
⚙️
✕

Record name [Info](#)  
 .entest.io  
Valid characters: a-z, 0-9, ! \* \$ % & ' ( ) \* + , - / : ; < = > ? @ [ \ ] ^ \_ ` { | } , ~

Record type [Info](#)  
A – Routes traffic to an IPv4 address and some AWS re... ▼

Value [Info](#)  
  
Enter multiple values on separate lines.

TTL (seconds) [Info](#)  
     
Recommended values: 60 to 172800 (two days)

Routing policy [Info](#)  
Geolocation ▼

Location  
North America ▼

### India

**Edit record**
⚙️
✕

Record name [Info](#)  
 .entest.io  
Valid characters: a-z, 0-9, ! \* \$ % & ' ( ) \* + , - / : ; < = > ? @ [ \ ] ^ \_ ` { | } , ~

Record type [Info](#)  
A – Routes traffic to an IPv4 address and some AWS re... ▼

Value [Info](#)  
  
Enter multiple values on separate lines.

TTL (seconds) [Info](#)  
     
Recommended values: 60 to 172800 (two days)

Routing policy [Info](#)  
Geolocation ▼

Location  
India ▼

### Vietnam

**Edit record**
⚙️
✕

Record name [Info](#)  
 .entest.io  
Valid characters: a-z, 0-9, ! \* \$ % & ' ( ) \* + , - / : ; < = > ? @ [ \ ] ^ \_ ` { | } , ~

Record type [Info](#)  
A – Routes traffic to an IPv4 address and some AWS re... ▼

Value [Info](#)  
  
Enter multiple values on separate lines.

TTL (seconds) [Info](#)  
     
Recommended values: 60 to 172800 (two days)

Routing policy [Info](#)  
Geolocation ▼

Location  
Vietnam ▼

## 6. Result

• Users in Singapore will see

test.entest.io

Not secure | test.entest.io


Window Snip

# Biorithm Singapore, Southeast Asia!

Users from AWS Asia Pacific (Singapore) ap-southeast-1 will be routed here!

Get started

How It Works



Where is my IP location? (Geoloc...

iplocation.net

IPv4 Address	18.142.34.243	Hide my IP with VPN
IPv6 Address	Not detected	
IP Location	Singapore, Singapore (SG) <a href="#">[Details]</a>	
Host Name	ec2-18-142-34-243.ap-southeast-1.compute.amazonaws.com	
ISP	Amazon Data Services Singapore	
Proxy	18.142.34.243, 18.142.34.243	

• Users in USA, India, Vietnam will see

test.entest.io

Not secure test.entest.io

Update

# Biorithm USA, Welcome!

Users from USA will be routed here - US East (N.Virginia) aws-us-east-1 !

Get started

How It Works

Where is my IP location? (x)

iplocation.net

Update

IPv4 Address	116.96.47.38	Hide my IP with VPN
IPv6 Address	Not detected	
IP Location	Phu Ly, Ha Nam (VN) <a href="#">[Details]</a>	
ISP	Viettel Group	
Proxy	116.96.47.38, 116.96.47.38	
Platform	Linux	

Blog

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What is an IP Address?