AWS Lab 29

Route53 - Private Hosted Zone

Overview of the lab

In this lab you will learn how to resolve name between two ec2 instances with private hosted route53 zone and records

Route53

It is a fully managed DNS service within aws cloud

Private Hosted Zone

It resolves dns query within the VPC

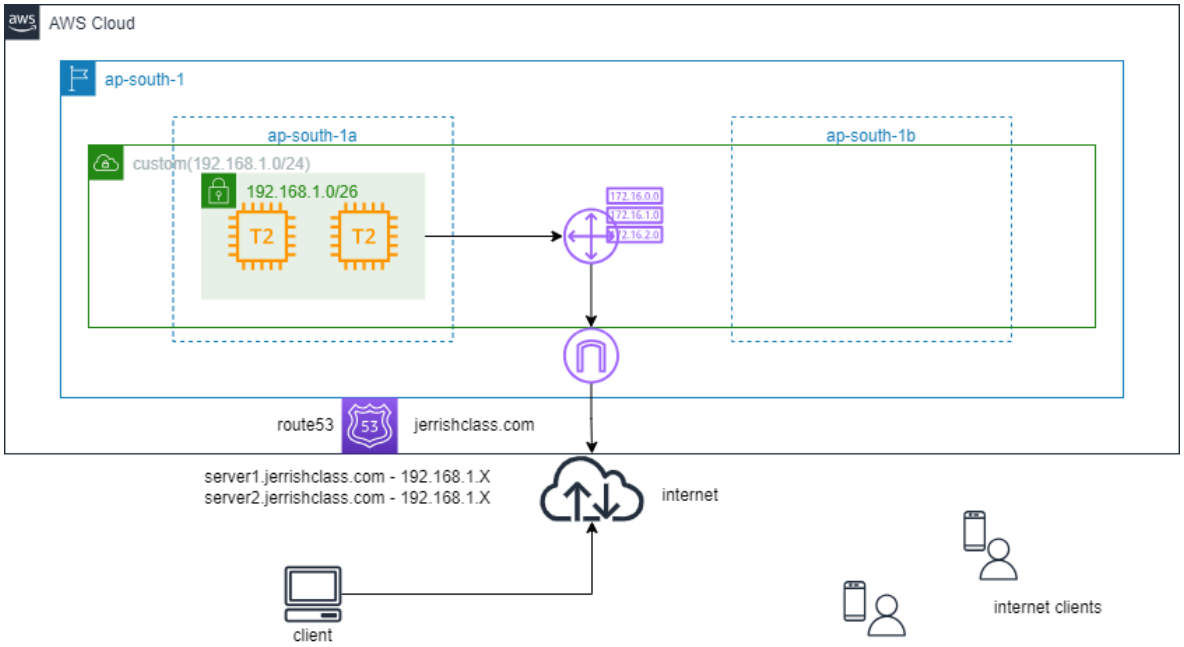
Public Hosted Zone

It resolves dns query over the internet

Domain Registration

Purchasing domain for resolving name over internet

Architecture



Step by Step Lab

1. In EC2 management console, launch instance
    1.1. Name and tag – (tag later) linux1 & linux2
    1.2. Application and OS Images – RedHat
    1.3. Instance type - t2.micro
    1.4. Key pair – select the existing keypair
    1.5. Edit Network settings
        1.5.1. VPC - custom-vpc
        1.5.2. Subnet – custom-vpc-public1(ap-south-1a)
        1.5.3. Auto-assign public IP - Enable
        1.5.4. Firewall - Select existing security group

1.6. In Advanced Details(scroll down to bottom), copy the below bash script in userdata section

```
#!/bin/bash
dnf install httpd -y
systemctl start httpd
systemctl enable httpd
echo $HOSTNAME is running in ap-south-1a > /var/www/html/index.html
```

1.7. Number of instances - 2

1.8. Click on Launch instance

2. In Route53 dashboard - Click on Create hosted zone

2.1. Hosted zone configuration

2.1.1. Domain name - jerrishclass.com

2.1.2. Type - Private hosted zone

2.2. VPCs to associate with the hosted zone

2.2.1. Region - Mumbai

2.2.2. VPC ID - custom-vpc

2.2.3. Click on Create hosted zone

3. Now click on Create record

3.1. Record name - server1

3.2. Record type - A

3.3. Value - (private ip address of instance1)

3.4. TTL - 60

3.5. Routing policy - Simple routing

4. Click on Add another record

4.1. Record name - server2

4.2. Record type - A

4.3. Value - (private ip address of instance2)

4.4. TTL - 60

4.5. Routing policy - Simple routing

5. Click on Create records
6. Login to instance1

```
curl http://server2.jerrishclass.com
```

7. Login to instance2

```
curl http://server1.jerrishclass.com
```

(it will resolve name to ip)

Clean Up Step

1. Select the instances and terminate it
2. Select the records (server1 & server2) and click on delete record
3. Once record is deleted, now click on delete zone and delete