

Assignment – 16

Problem Statement: -

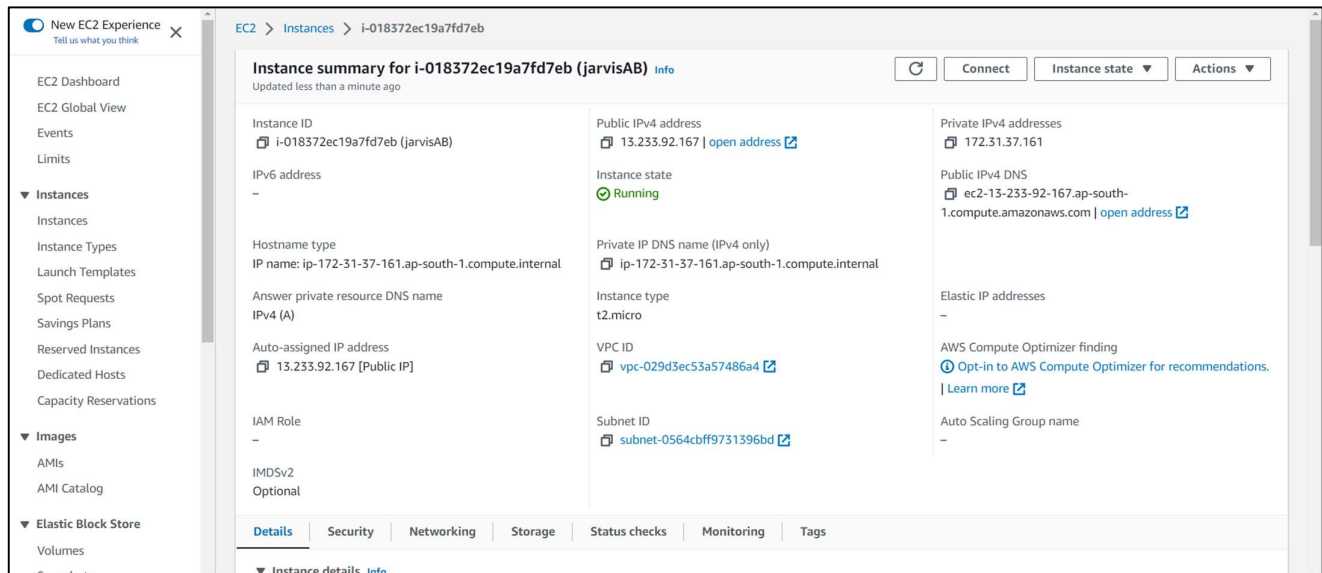
Manage Amazon DNS service and run project using domain name URL.

Steps for manage Amazon DNS service and run project using domain name URL: -

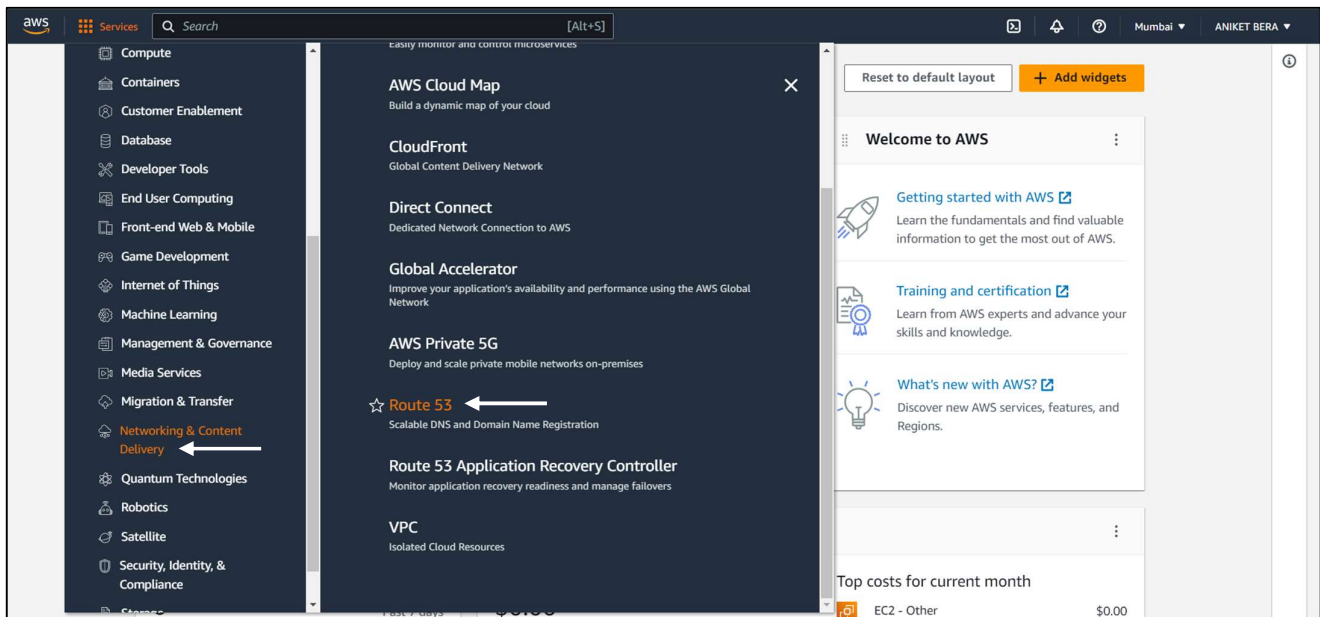
1. At first, buy a domain. Otherwise, go to **Namecheap** and create an account. Now, you can use your **GitHub account**; first approved your **GitHub Student Developer Pack** and get some benefits. Then go to namecheap section link your GitHub **authorized** with your created **namecheap account**. Now, you can get one free domain (*E.g.: jarvis.me*).
2. Create an **EC2 instance** with using port number in security group and following commands:

```
#!/bin/bash
apt-get update
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs
git clone https://github.com/ABgithub-17/DemoProject2.git
cd DemoProject2
npm install
node index.js
```
3. Go to AWS Management console home page. Then go to **Services**; next **Networking & Content Delivery**; next click on **Route 53**.
4. Next, go to **Hosted zones** and click on **Create hosted zone**.
5. Now, in **Hosted zone configuration** give **Domain name** (*created domain name*), choose **Public hosted zone** now creation done hosted zone.
6. Now create two records in created hosted zone.
 - a) Record type – **A**; Value – **created EC2 instance IPv4 address**
 - b) Record name – **subdomain**; Record type – **CNAME**; Value – **domain name**
7. Now, copy **NS type** record's all DNS and paste it at **nameservers** in your domain.
8. Now, go any browser put your **domain name** then start webserver and add your port number with domain name then you can see your project (*this process may take several time*).

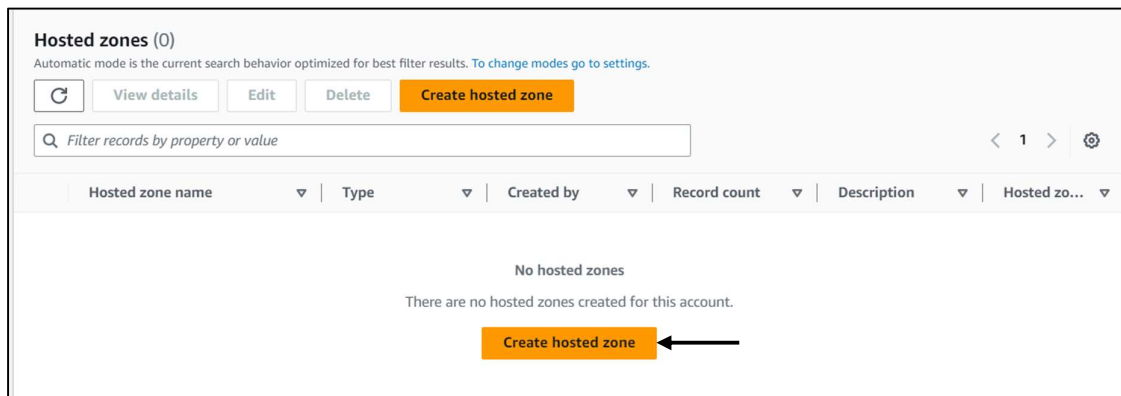
Some snapshots of above process: -



Create an EC2 instance



Go to Route 53



Click on Create hosted zone

Route 53 > Hosted zones > Create hosted zone

Create hosted zone [Info](#)

Hosted zone configuration

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

Domain name [Info](#)
This is the name of the domain that you want to route traffic for.

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

Description - optional [Info](#)
This value lets you distinguish hosted zones that have the same name.

The description can have up to 256 characters. 0/256

Type [Info](#)
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.

☒ **Public hosted zone**
A public hosted zone determines how traffic is routed on the internet.

☐ **Private hosted zone**
A private hosted zone determines how traffic is routed within an Amazon VPC.

Configure hosted zone

Route 53 > Hosted zones > jarvis17.me

Public jarvis17.me [Info](#) [Delete zone](#) [Test record](#) [Configure query logging](#)

► Hosted zone details [Edit hosted zone](#)

[Records \(2\)](#) | [DNSSEC signing](#) | [Hosted zone tags \(0\)](#)

Records (2) [Info](#)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

[Refresh](#) [Delete record](#) [Import zone file](#) [Create record](#)

[Type](#) ▼ [Routing policy](#) ▼ [Alias](#) ▼ < 1 > [Settings](#)

Click on Create record

Route 53 > Hosted zones > jarvis17.me > Create record

Create record [Info](#)

Quick create record [Switch to wizard](#)

▼ Record 1 [Delete](#)

Record name [Info](#) jarvis17.me

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

Keep blank to create a record for the root domain.

☒ Alias

Value [Info](#)

Enter multiple values on separate lines.

TTL (seconds) [Info](#) [1m](#) [1h](#) [1d](#) Routing policy [Info](#) Simple routing ▼

Recommended values: 60 to 172800 (two days)

Create Type A record with domain name

Route 53 > Hosted zones > jarvis17.me > Create record

Create record [Info](#)

Quick create record [Switch to wizard](#)

▼ Record 1 [Delete](#)

Record name [Info](#) jarvis17.me

Record type [Info](#) CNAME – Routes traffic to another domain name and to some AWS reso... ▼

Keep blank to create a record for the root domain.

☒ Alias

Value [Info](#)

Enter multiple values on separate lines.

TTL (seconds) [Info](#) [1m](#) [1h](#) [1d](#) Routing policy [Info](#) Simple routing ▼

Recommended values: 60 to 172800 (two days)

Create Type CNAME record with record name & domain name

Route 53

Dashboard
Hosted zones
Health checks
IP-based routing
CIDR collections
Traffic flow
Traffic policies
Policy records
Domains
Registered domains
Pending requests
Resolver
VPCs
Inbound endpoints
Outbound endpoints
Rules
Query logging

Route 53 > Hosted zones > jarvis17.me

Public jarvis17.me
Delete zone
Test record
Configure query logging

Hosted zone details
Edit hosted zone

Records (4)
DNSSEC signing
Hosted zone tags (0)

Records (1/4) Info
The following table lists the existing records in jarvis17.me. You can't delete the SOA record or the NS record named jarvis17.me.

Refresh
Delete record
Import zone file
Create record

Filter records by property or value
Type
Routing policy
Alias

	Record name	Type	Routing...	Differ...	Alias	Value/...
<input type="checkbox"/>	jarvis17.me	A	Simple	-	No	13.233.
<input checked="" type="checkbox"/>	jarvis17.me	NS	Simple	-	No	ns-877. ns-1126. ns-243. ns-1691.

Record details
Edit record
Record name
jarvis17.me
Record type
NS
Value
ns-877.awsdns-45.net. ns-1126.awsdns-12.org. ns-243.awsdns-30.com. ns-1691.awsdns-19.co.uk.
Alias
No
TTL (seconds)
172800
Routing policy

Copy Custom DNS

Dashboard
Expiring / Expired
Domain List
Hosting List
Private Email
SSL Certificates
Apps
Profile

Domains → Details

jarvis17.me
Domain
Products
Sharing & Transfer
Advanced DNS

STATUS & VALIDITY
ACTIVE
May 10, 2023 - May 10, 2024
ADD YEARS

Withheld for Privacy
PROTECTION
May 10, 2023 - May 10, 2024
ADD YEARS
SHOW DETAILS

PremiumDNS
Enable PremiumDNS protection in order to switch your domain to our PremiumDNS platform. With our PremiumDNS platform, you get 100% DNS uptime and DDoS protection at the DNS level.
BUY NOW

NAME SERVERS
Custom DNS

ns-877.awsdns-45.net ns-1126.awsdns-12.org ns-243.awsdns-30.com ns-1691.awsdns-19.co.uk
ADD NAME SERVER

Paste it copied DNS

Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.
Thank you for using nginx.

Start web server

Hello ANIKET

Project running