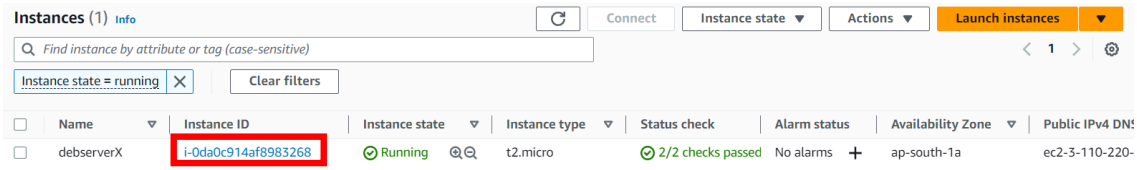
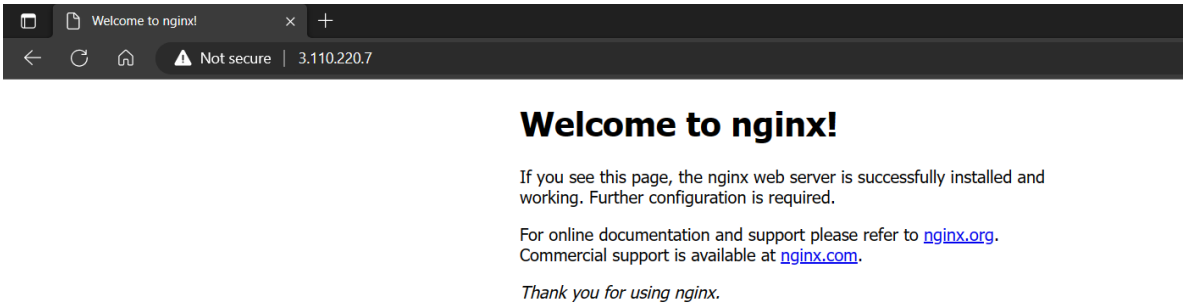
ASSIGNMENT – 16

Problem Statement: Manage Amazon DNS service and run a project using domain-name and URL

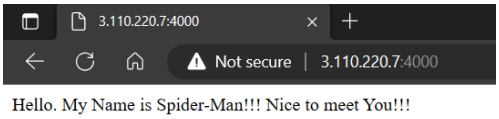
1. **Sign-in** to your **AWS** console.
2. **Create** an **instance** with custom security group and user data. (**Refer Ass10**)
3. **Click** on the **instance.**



4. **Copy** the **public IPv4 address** and **paste** it in **another browser**.



5. **Check** if the **project webpage** is **accessible** by appending **:4000** to your address.

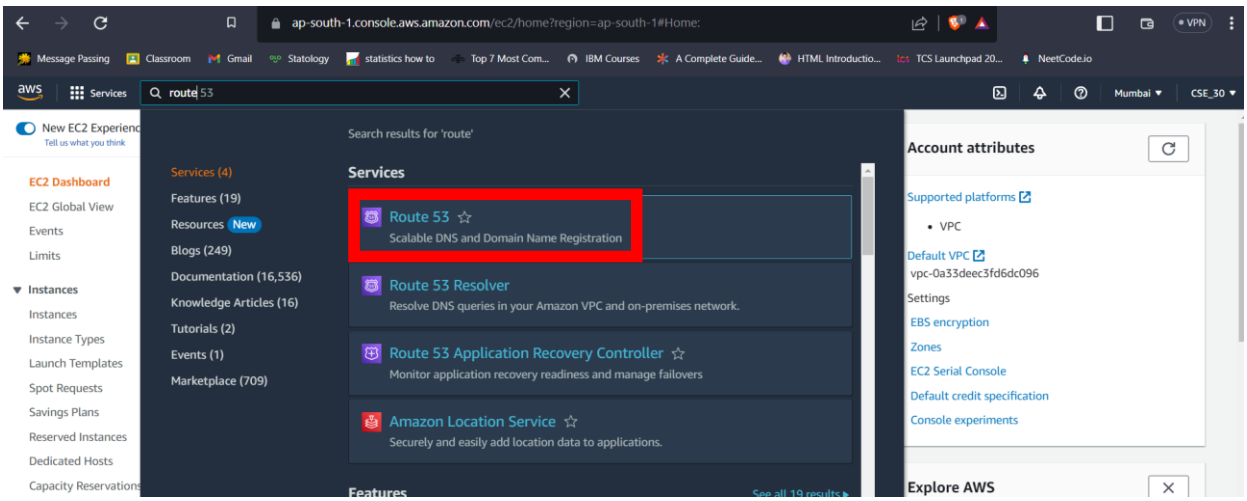


Hello. My Name is Spider-Man!!! Nice to meet You!!!

Our EC2 instance works as intended. However, to access our webpage one always requires the public IPv4 address of our server instance which is very complicated/less accessible for end-users of our webpage/web application.

So, to make it easier for our end-users, **we need to bind a domain name to the server instance. Now anyone can use the domain name and the URL to access our project.**

6. **Search Route 53** in the search bar of AWS console. **Select the first result**.

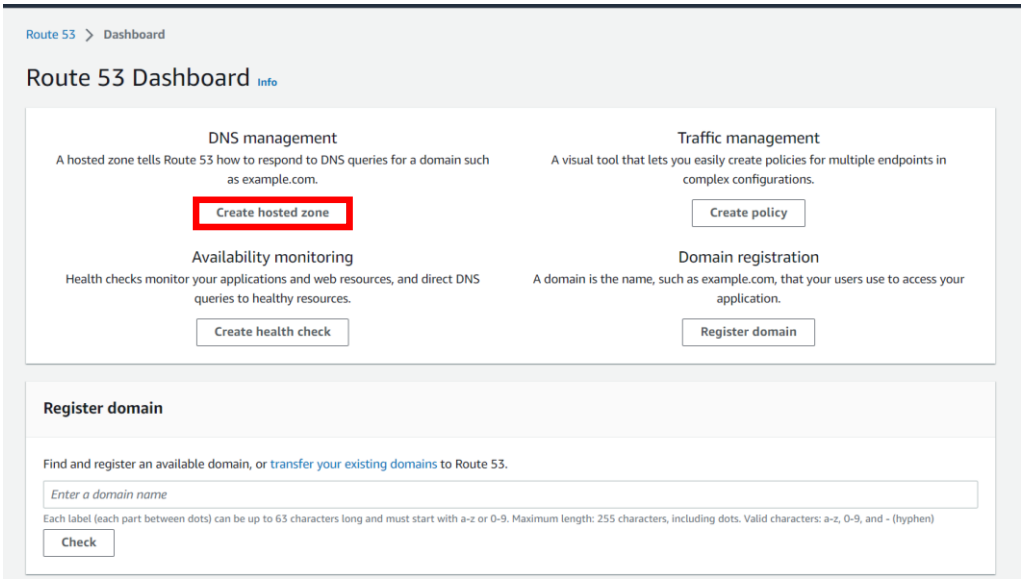


We **require a registered Domain name** for this assignment. So, after obtaining one (free or paid) go to the Webpage of your Domain provider and log-in to your account where you can find all the details of your purchased Domains.

This may vary from site to site, so you will have to do this based on what site you are using.

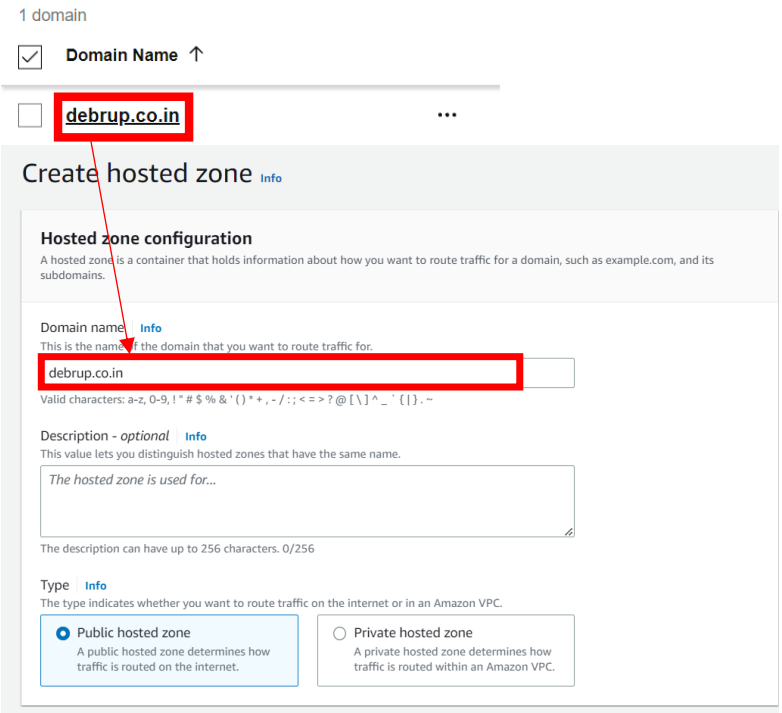
We (for now) will be using **GoDaddy.com**, because we have purchased a Domain from them.

7. **After Reaching the Route 53** dashboard **click** on the **Create Hosted Zone** button.

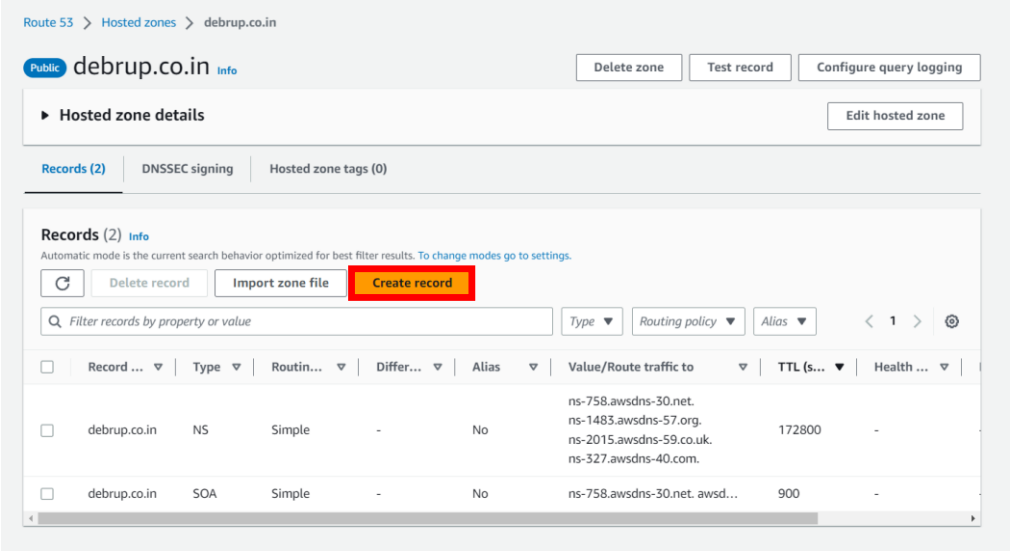


Alternatively, you can go to **hosted zones** from the left-side bar and then select create hosted zone option.

8. Now, **copy your Domain name** from your **Domain providers website**. Here we used GoDaddy.com. **Paste** the domain name in the given field in **Hosted Zone configuration page**.



9. Now **scroll-down** and **click** on the **Create Hosted Zone** button.
10. Now **click** on the **Create a record** button.



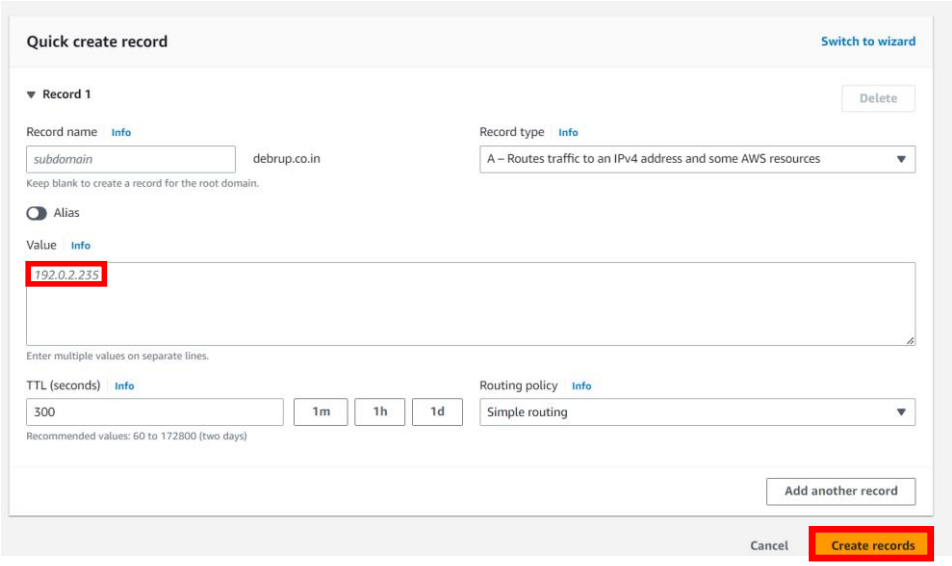
11. Then, follow these Steps:

a. **Do not give any name**. Keep the record name blank.

b. **Keep record type as it is**. No change required.

c. Under the **value**, **copy** and **paste** your **server instance's public IPv4 address** which you want to route to using your DNS.

d. Then **click** on **create records** button



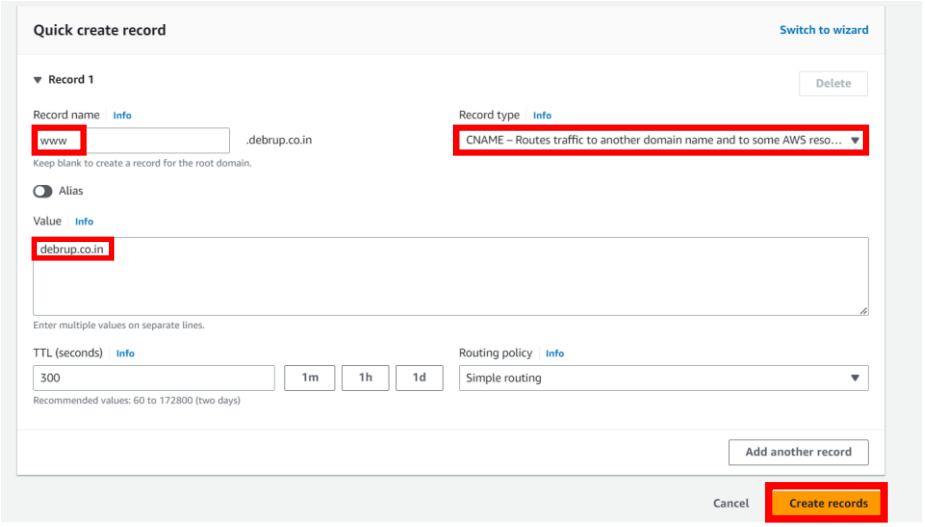
12. Now **again click** on the **Create Record** button like the previous step.

a. But this time give the record name → **www**

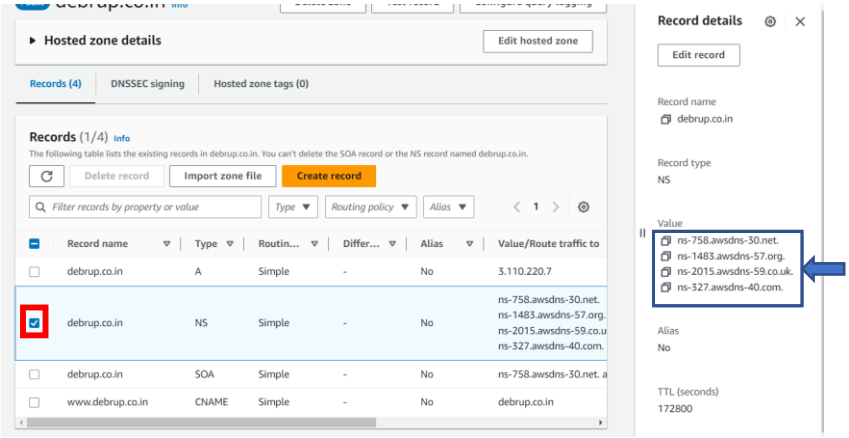
b. Select **Record type** → **"CNAME"**

c. In the text box under **value**, write the **full domain-name** there. (For example: example.com)

d. **Click** on **create records** button.



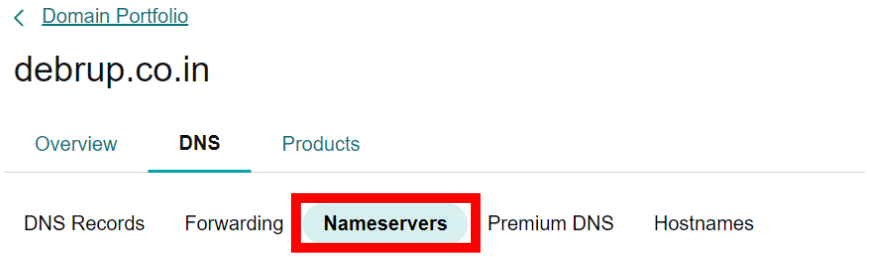
13. Now **select** the **record** with **type** = **nameserver** (**NS**).



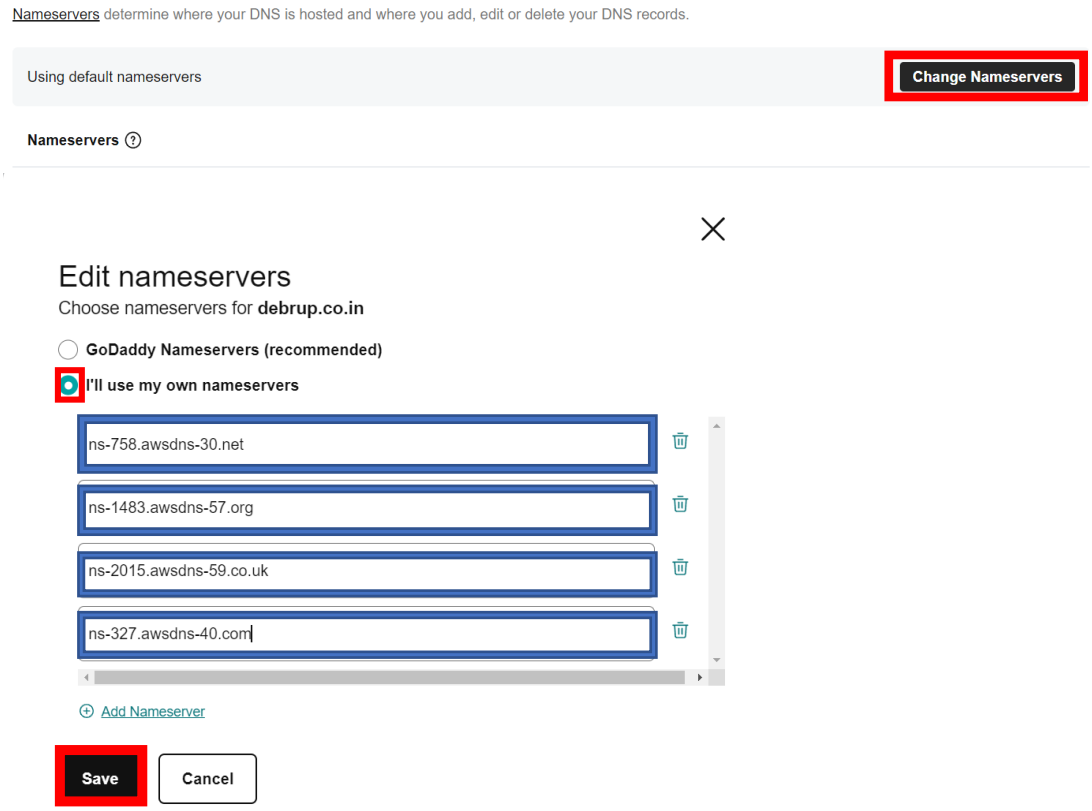
The values seen on the right-hand side are required for the next steps.

14. Now **go to** your **Domain providers webpage**. Go to your purchased **Domain settings**.

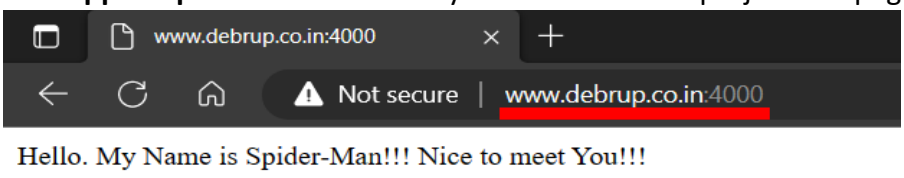
15. **Click** on **DNS** section. **(This may vary from provider to provider)**
16. **Click** on the **nameservers** option.



17. **Click** on the **Change nameservers** and **add** here **all the values opened in the Route 53 page**.
    a. **Select "use my own nameservers"** option.
    b. **Add nameservers one by one**.
    c. Then **click** on the **save** button.



18. **Wait** for **few minutes (15 to 20 mins)**.
19. Now try **searching** from any browser using your domain name with www.
    (For example: www.example.com)
20. **Also append port no.** like we always do to access our project webpage.



Hello. My Name is Spider-Man!!! Nice to meet You!!!

We have successfully run our project using our custom domain-name and URL.