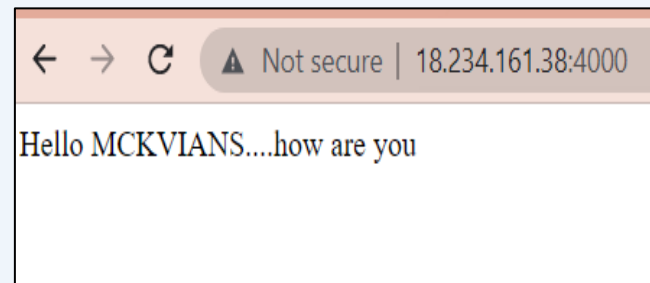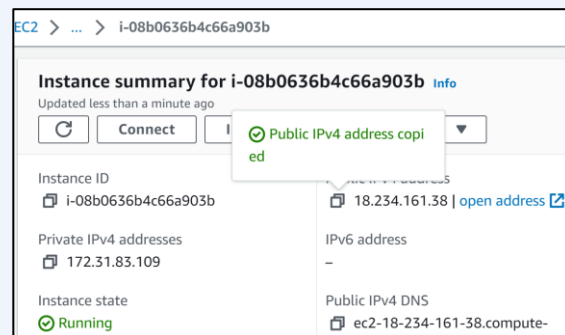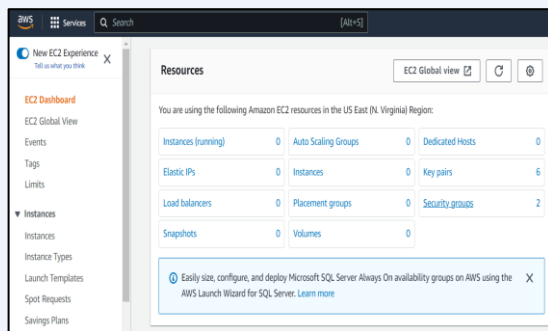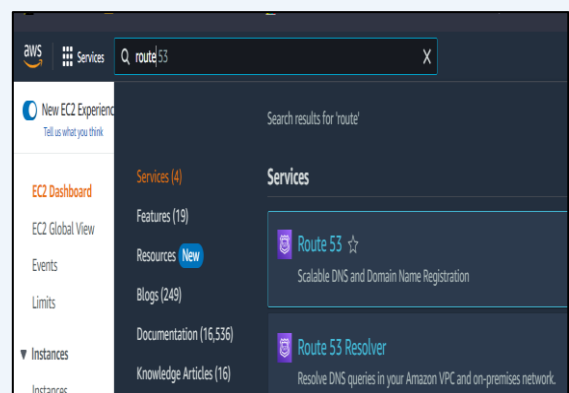# Assignment No. 16

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

1. Visit **aws.amazon.com** and Sign in.
2. **Go to EC2 Service**
3. **Create an instance with custom security group and user data.(As done in Assignment 10)**
4. **Click on the instance and copy the public IPv4 address and paste in the browser.**
5. **Check accessibility of project by appending port number after the public IPv4 address.**

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.

Hello MCKVIANS....how are you

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6. Our EC2 instance works as intended. However, to access the webpage one always requires the public IPv4 address of the server instance which is very complicated/less accessible for end-users of our webpage/web application. To make it easier for our end-users, we need to bind a domain name to the server instance so that anyone can use the domain name and the URL to access the project.
Now Search "Route 53" in the search bar of AWS console and click on "Route 53"

7. 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.
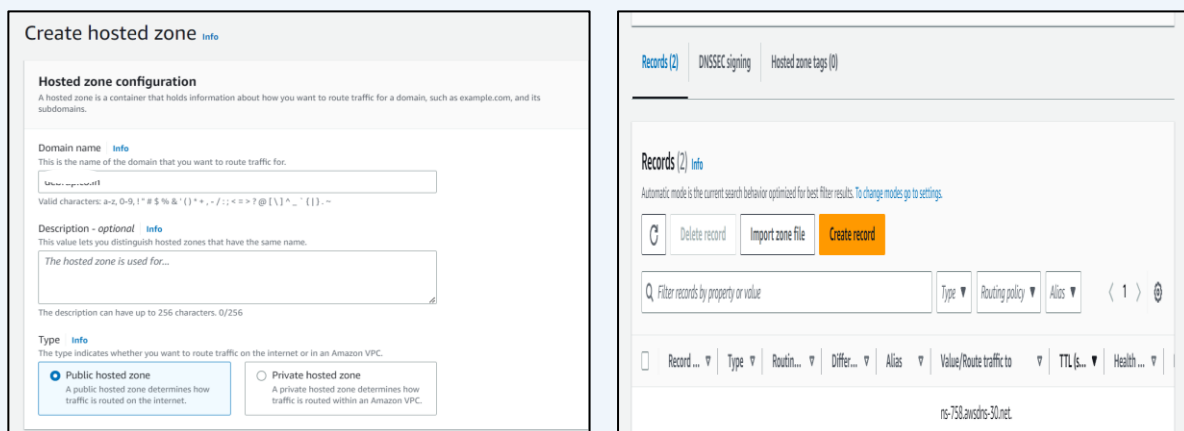This may vary from site to site, so you will have to do this based on what site you are using.
We (for now) will be using GoDaddy.com, because we have purchased a Domain from them.

8. In the Route 53 dashboard "Click on "Create Hosted Zone button".(Alternatively, you can go to hosted zones from the left-side bar and then select create hosted zone option.)
9. 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.
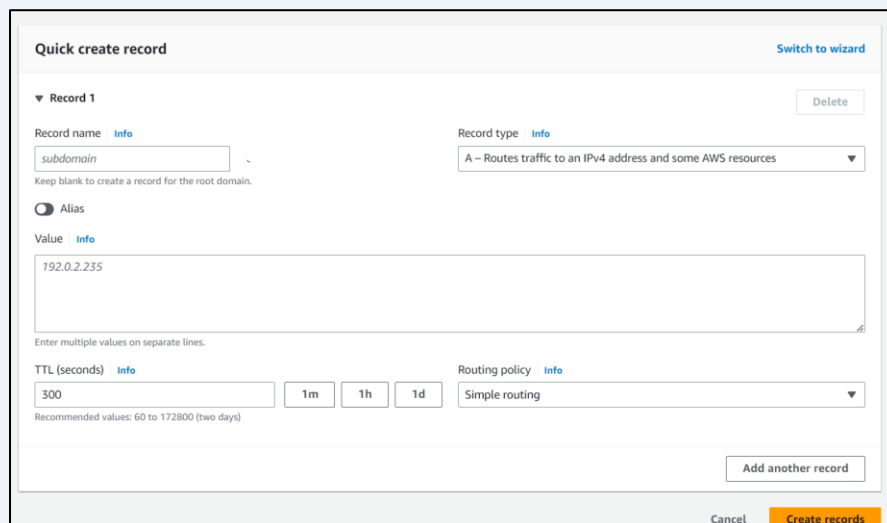**10.** Click on "Create Hosted Zone".
11. Click on "Create a record button".

12. Need not to give any name. Keep the record name blank and record type as it is.
13. Under the value, copy and paste your server instance public IPv4 address which you want to route to using your DNS.Then click on create records button

14. Click on the Create Record button again.But this time give the record name as "www". Select Record type as CNAME. In the text box under value, write the full domain-name there. (For example: example.com). Click on "create records".
15. Now select the record with type nameserver (NS) .(The values seen on the right-hand side are required for the next steps.)
16. Now go to your Domain providers webpage. Go to your purchased Domains settings.
17. Click on DNS section. (This may vary from provider to provider)
18. Click on the nameservers option.
19. Click on the Change nameservers and add here all the values opened in the Route 53 page.Select use my own nameservers option.Add nameservers.Then click on "Save".

20. Search from any browser using your domain name with www.

21. Append port no. to access the project.

Thus,we have successfully run our project using our custom domain-name and URL.