Assignment 2 Cloud Project and Video Explainer

Project Name: Prakriti Tiffin

Ip Address: http://13.53.168.75

DNS: https://prakritittiffin.online/

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Unit Code: ICT1711

Introduction:

My project is Food delivery website (Prakriti tiffin), a website dedicated to promoting eco-friendly food choices and sustainability practices. You can visit it at https://prakritittiffin.online/ . The purpose of this website is to create a platform where customers could explore, subscribe to, and manage healthy organic meal plans. My aim is to promote sustainable eating habits and reduce environment impact by emphasizing the use of locally sourced, organic ingredients and eco- friendly packaging. "The project utilizes AWS for hosting. Virtual-box for virtualization, and lubuntu as the operating system.

1. Project planning

Prakritittiffin.com is an online platform dedicated to providing an eco-friendly avenue for ordering and managing healthy organic meals. The idea is to foster sustainable eating habits by providing meal subscription customization with minimal environmental burden. The site will ensure a smooth user experience while showcasing the company's commitment to sustainability and local sourcing.

2. Setup and configuration

Amazon Web Services (AWS) has been selected by me as the hosting solution of choice as it has a tradition of reliability and a wealth of documentation supply all across the Internet.

3. Login into the console

Visit AWS Management Console (https://aws.amazon.com/console/) and sign up then use your credentials to login.

4. Launch an EC2 Instance

- In order to activate "EC2", enter the keyword in the "search" part and choose "service" on the AWS management console.
- Now from the EC2 dashboard, choose the "Launch Instance" option.
- In AMI options, select Amazon Linux.
- For instance type, select "t3.micro"; this is within the free tier.
- Click "Next: Add Storage." 8GB storage is sufficient on my part.
- For the new security group, allow traffic for HTTP and SSH (ports 80 and 22, respectively).
- Create a key-pair.
- Make configuration checks and click "Launch Instances." The deployment is available for use within 5 minutes.

5. Launch instance and Connect to terminal

- Obtain your IP address and launch a terminal.

6. Purchase domain

7. Add new DNS record to connect with my IP

Add a new record

<u>DNS records</u> define how your domain behaves, like
showing your website content and delivering your
email.

Add New Record

8. Install Apache on Amazon Linux

```
[ec2-user@ip-172-31-46-159 ~]$ sudo dnf update -y
sudo dnf install httpd -y
```

- IP address is working

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It works!
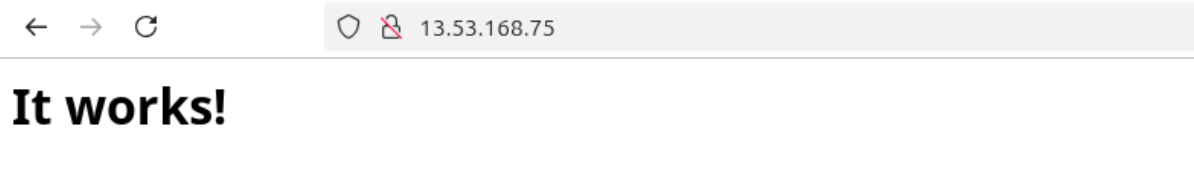
9. Edit index.html file
sudo nano /var/www/html

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Prakriti Tiffin   Menu   Subscriptions   Contact   Cart (0)

Sustainable Organic Meals Delivered to Your Door
Nourish your body while protecting the planet with our eco-friendly, organic meal delivery service.

Explore Plans

Our Organic Menu

Discover our delicious, sustainably-sourced meal options

Vegetable Curry
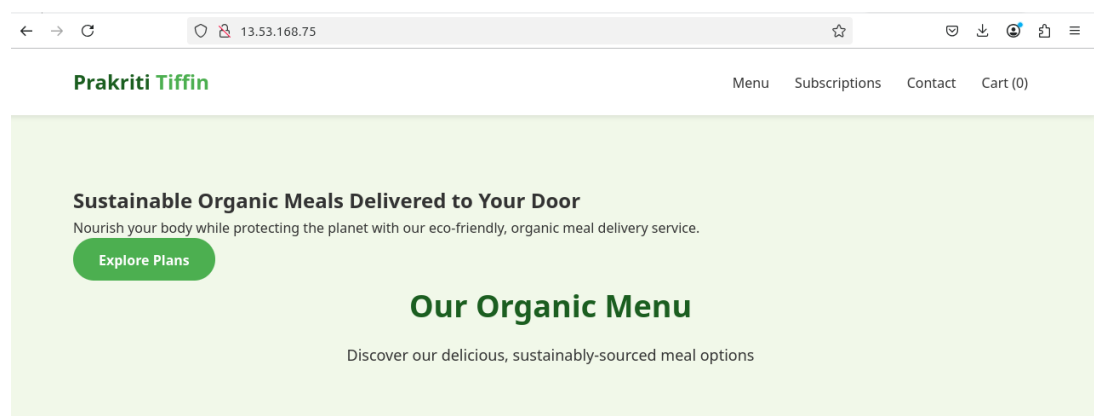
10. Add Domain to IP address through DNS on go daddy website

	Add New Record				Verify Domain Ownership	

Filters   ⋯ Actions

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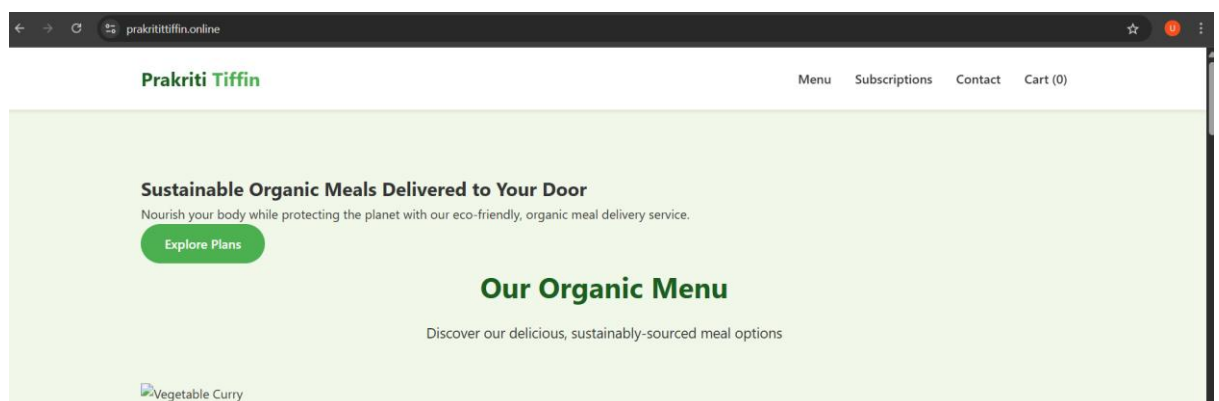- Check if domain connected to IP successfully.
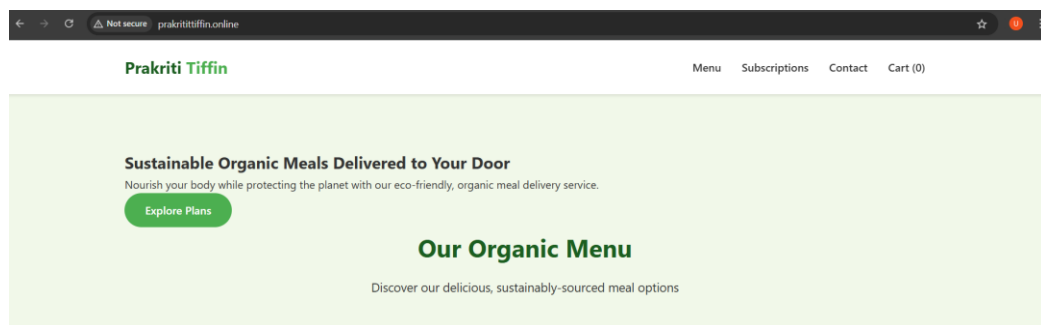
Domain successfully connected to IP and website is working.

11. Add SSL to secure website


```
[ec2-user@ip-172-31-46-159 ~]$ sudo dnf install -y python3-certbot-apache
Last metadata expiration check: 0:25:10 ago on Wed Apr  9 20:08:24 2025.
Dependencies resolved.
================================================================================
 Package                          Architecture      Version
================================================================================
```

- Check website has a secure or not

- Yes, my website has a secure connection