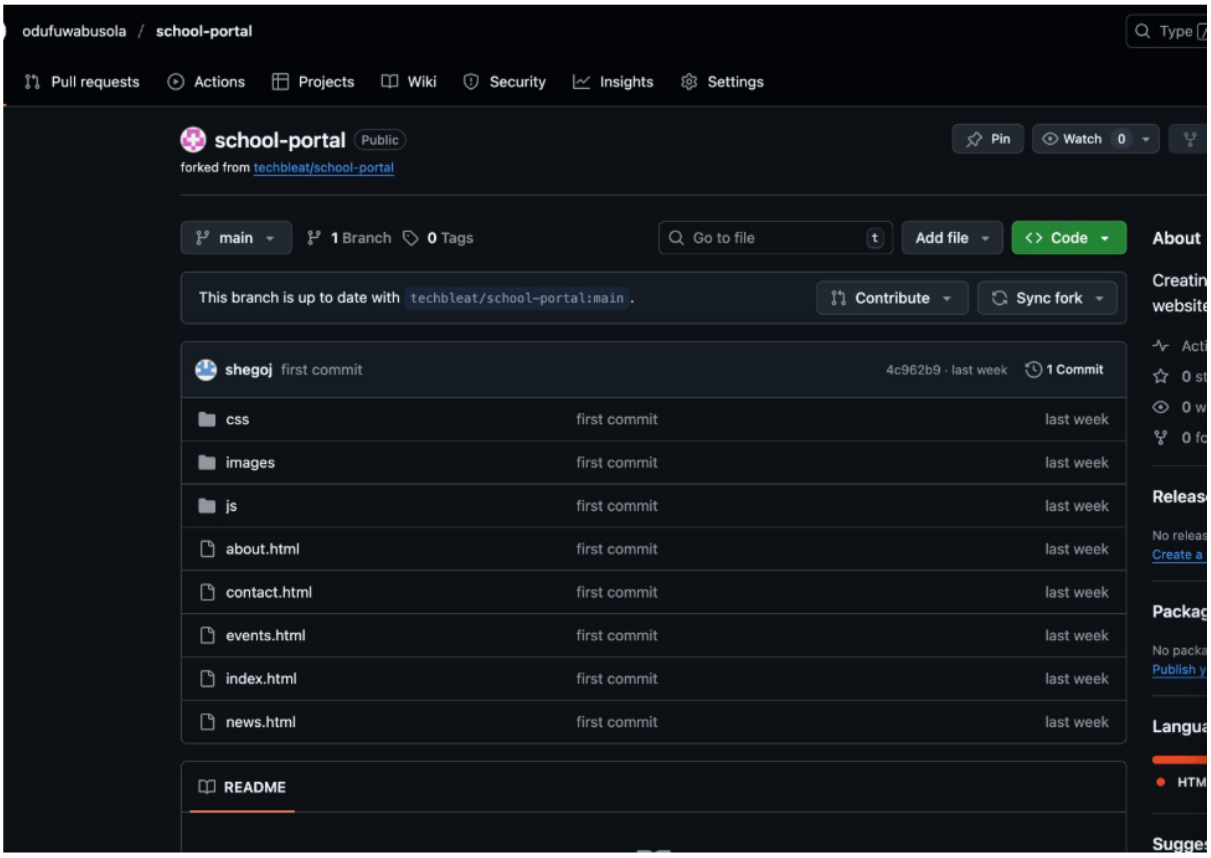
Week 2 - DevOps Masterclass

Deploy a static site via GitHub → VM → Nginx

Objective: Create a public web endpoint that serves a provided index.html using Nginx on a cloud VM, with the file sourced from a GitHub repository.

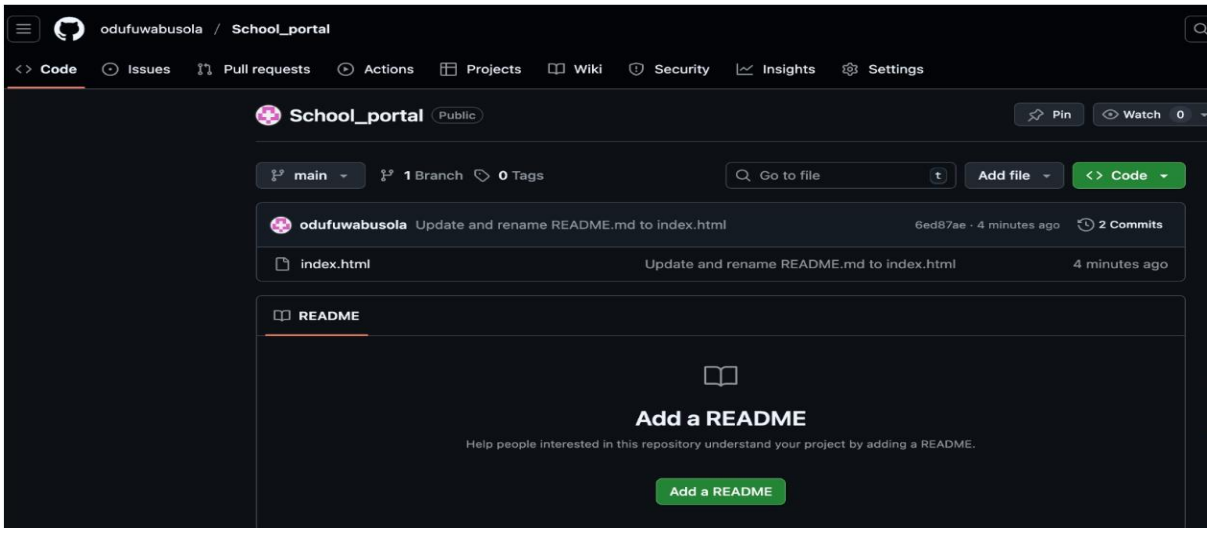
1. GitHub repo



- Create a new GitHub repository (public)—Please share

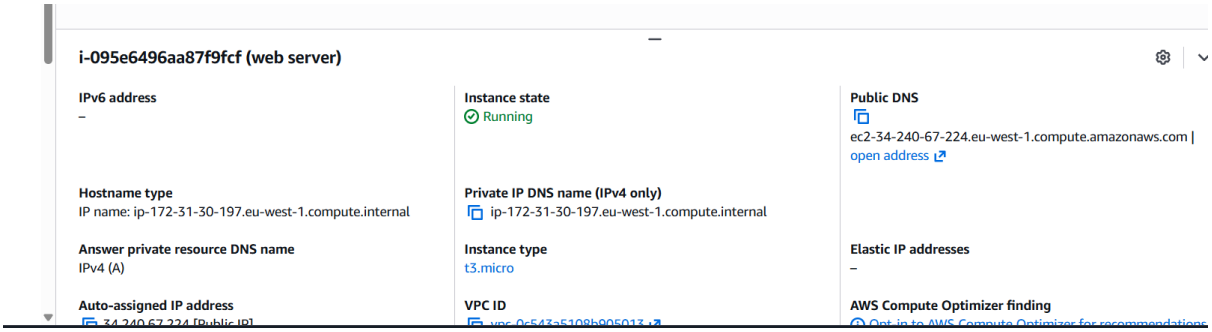
https://github.com/odufuwabusola/School_portal.git

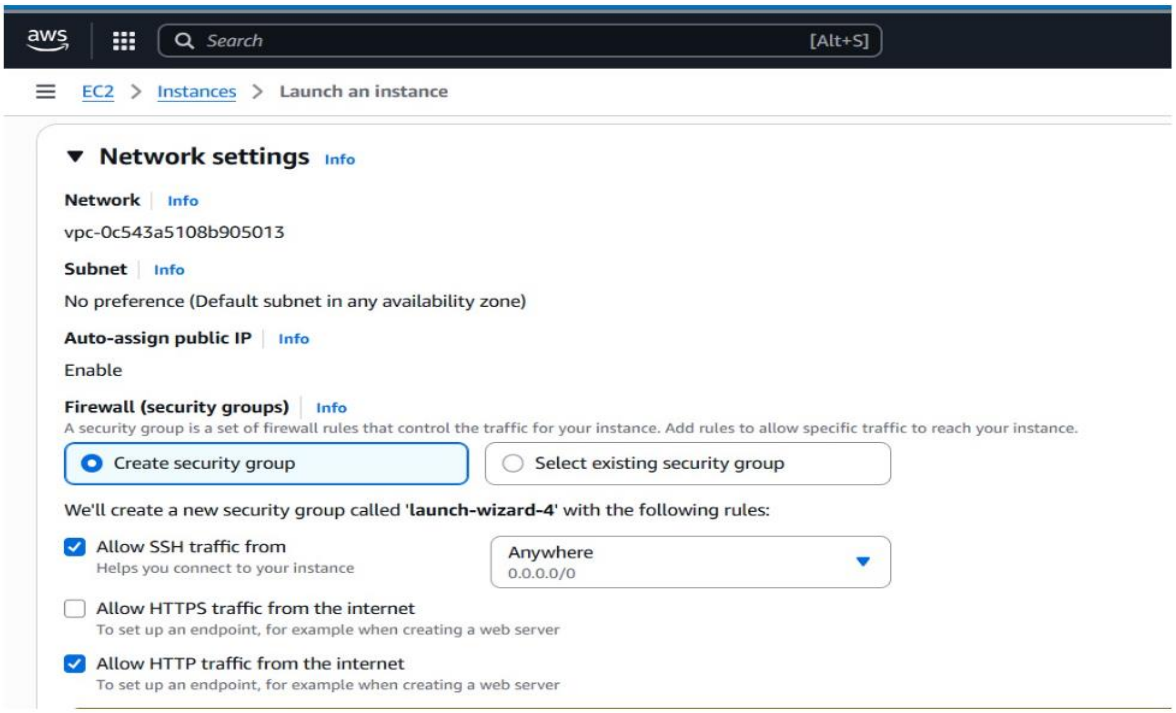
- Add index.html at the repo root and push it.



2. Cloud VM (AWS)

- Provision a small Linux VM (e.g., Amazon-Linux/Ubuntu 22.04) with inbound HTTP (80) open.

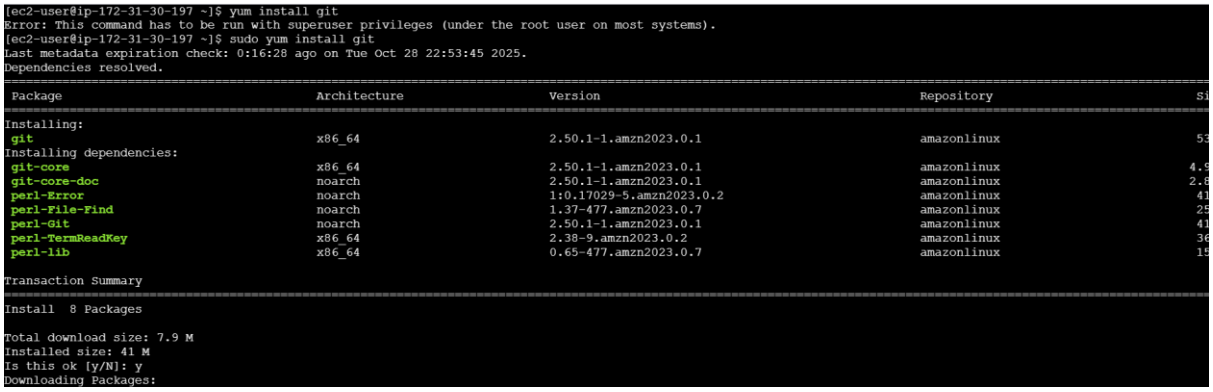


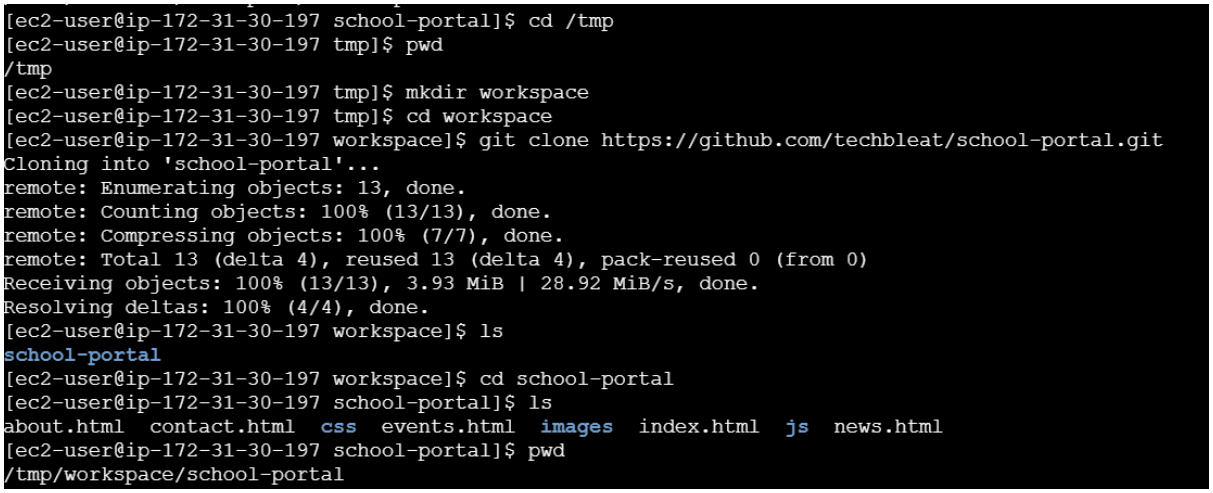


- Provide the VM's public IP or DNS. ec2-34-240-67-224.eu-west-1.compute.amazonaws.com ec2-52-215-222-140.eu-west-1.compute.amazonaws.com

3. Retrieve site via Git

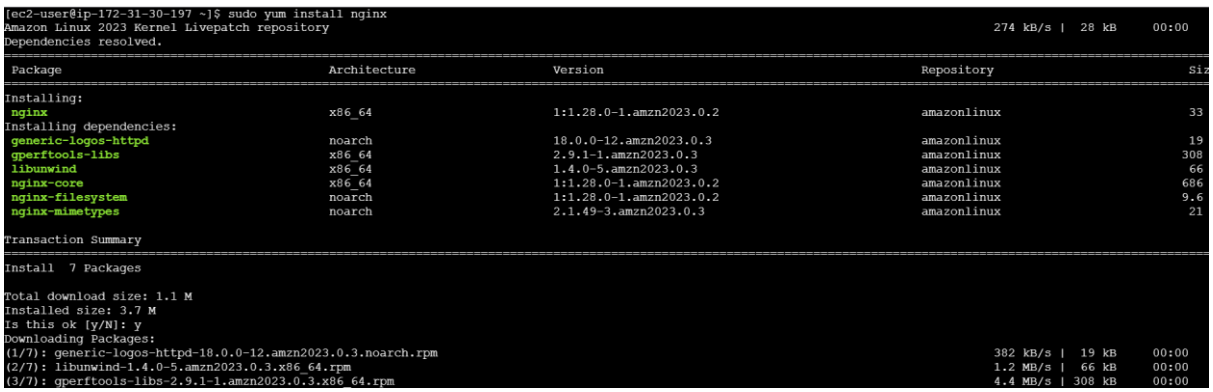
- SSH into the VM, install Git, and clone the repository to the VM.





4. Install & configure Nginx

- Install Nginx.



```
  Verifying        : libunwind-1.4.0-5.amzn2023.0.3.x86_64
  Verifying        : nginx-1:1.28.0-1.amzn2023.0.2.x86_64
  Verifying        : nginx-core-1:1.28.0-1.amzn2023.0.2.x86_64
  Verifying        : nginx-filesystem-1:1.28.0-1.amzn2023.0.2.noarch
  Verifying        : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

================================================================================

WARNING:
  A newer release of "Amazon Linux" is available.

  Available Versions:

  Version 2023.9.20251027:
    Run the following command to upgrade to 2023.9.20251027:

      dnf upgrade --releasever=2023.9.20251027

    Release notes:
     https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.9.20251027.html

================================================================================

Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  libunwind-1.4.0-5.amzn2023.0.3.x86_64
  nginx-1:1.28.0-1.amzn2023.0.2.x86_64
  nginx-core-1:1.28.0-1.amzn2023.0.2.x86_64
  nginx-filesystem-1:1.28.0-1.amzn2023.0.2.noarch
  nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

Complete!
```

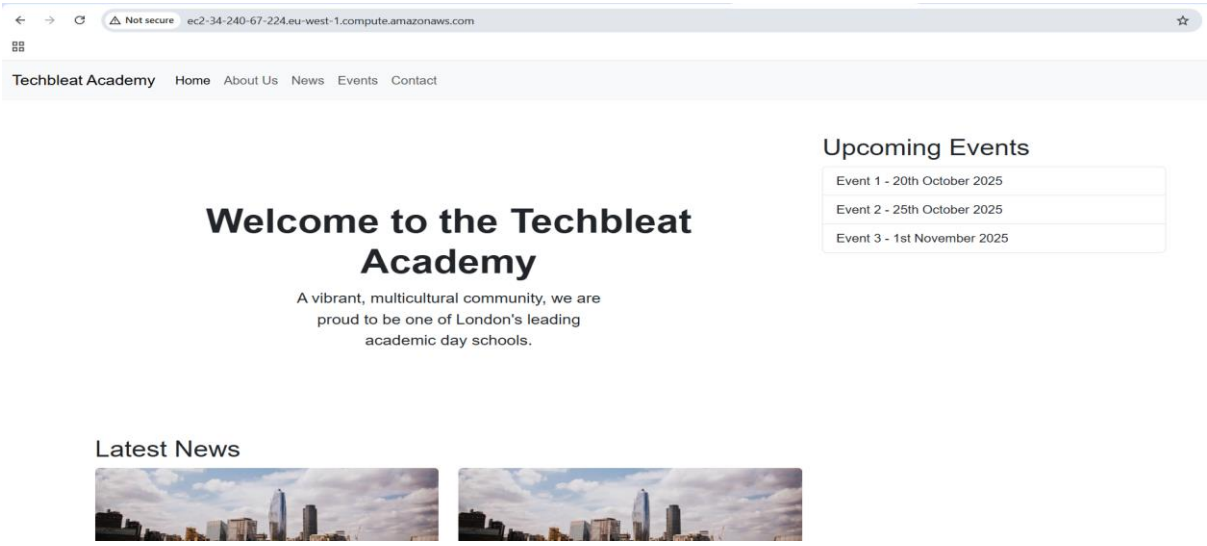
- Place index.html in Nginx's web root

```
[ec2-user@ip-172-31-30-197 school-portal]$ sudo cp -r * /usr/share/nginx/html/
[ec2-user@ip-172-31-30-197 school-portal]$
```

- Start/enable Nginx and verify it serves index.html.

5. Verification

- Access the VM's public IP/DNS over HTTP and confirm the page loads.



- URL: http://ec2-34-240-67-224.eu-west-1.compute.amazonaws.com

- Commands used.

```
  1  uptime
  2  sudo yum install nginx
  3  sudo service nginx start
  4  pwd
  5  yum install git
  6  sudo yum install git
  7  mkdir workspace
  8  git clone https://github.com/techbleat/documentation-week2.git
  9  ls
 10  cd workspace
 11  git clone https://github.com/techbleat/school-portal.git
 12  ls
 13  cd school-portal
 14  ls
 15  ls -ltr
 16  ls /usr/share/n
 17  ls /usr/share/nginx
 18  ls /usr/share/nginx/html/
 19  pwd
 20  ls
 21  cp -r * /usr/share/nginx/html/
 22  cp -r * /usr/share/nginx/html
 23  cp -r * /usr/share/nginx/html/
 24  ls -ltr
 25  pwd
 26  cd /tmp
 27  pwd
```

```
 17  ls /usr/share/nginx
 18  ls /usr/share/nginx/html/
 19  pwd
 20  ls
 21  cp -r * /usr/share/nginx/html/
 22  cp -r * /usr/share/nginx/html
 23  cp -r * /usr/share/nginx/html/
 24  ls -ltr
 25  pwd
 26  cd /tmp
 27  pwd
 28  mkdir workspace
 29  cd workspace
 30  git clone https://github.com/techbleat/school-portal.git
 31  ls
 32  cd school-portal
 33  ls
 34  pwd
 35  ls -ltr
 36  ls
 37  ls /usr/share/nginx/html
 38  ls -ltr
 39  cp -r * /usr/share/nginx/html/
 40  sudo cp -r * /usr/share/nginx/html/
 41  sudo service nginx start
 42  history
[ec2-user@ip-172-31-30-197 school-portal]$
```