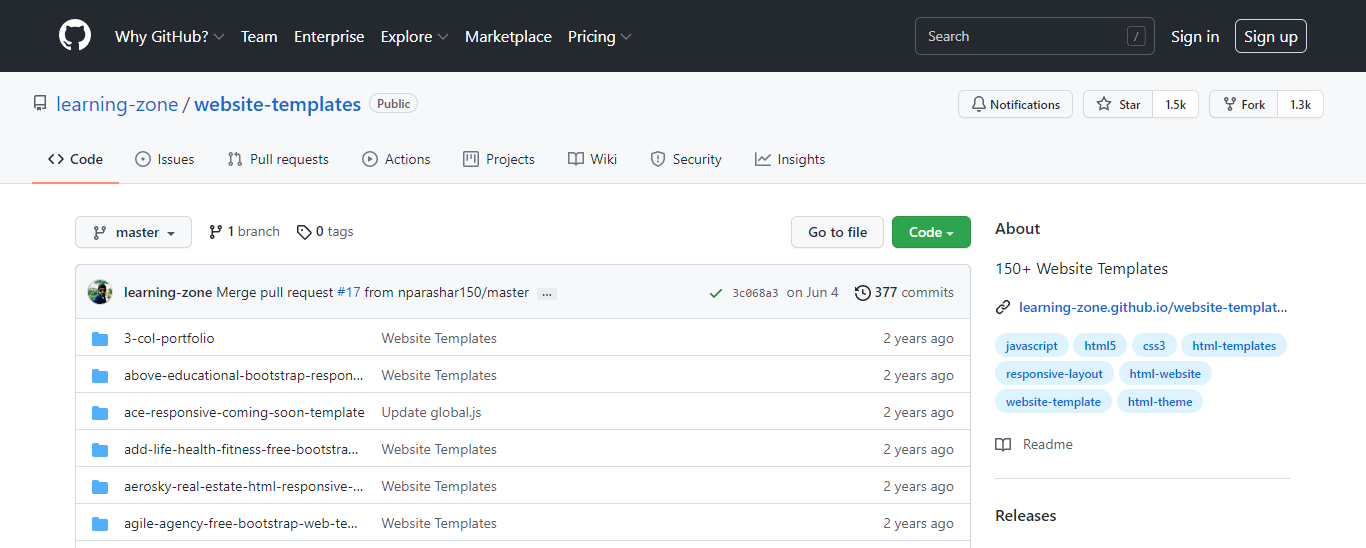
**8) Create a domain and host a website using Cloud DNS**

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **Create and deploy Kubernetes Engine** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

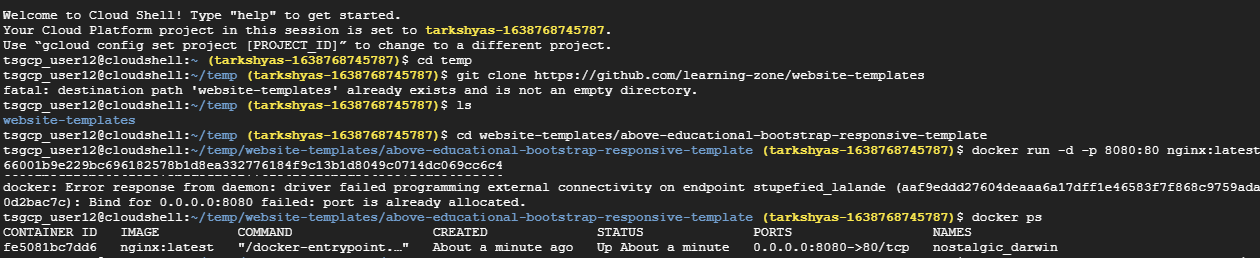
Step 1 : Find a github repository for hosting the website : https://github.com/learning-zone/website-templates



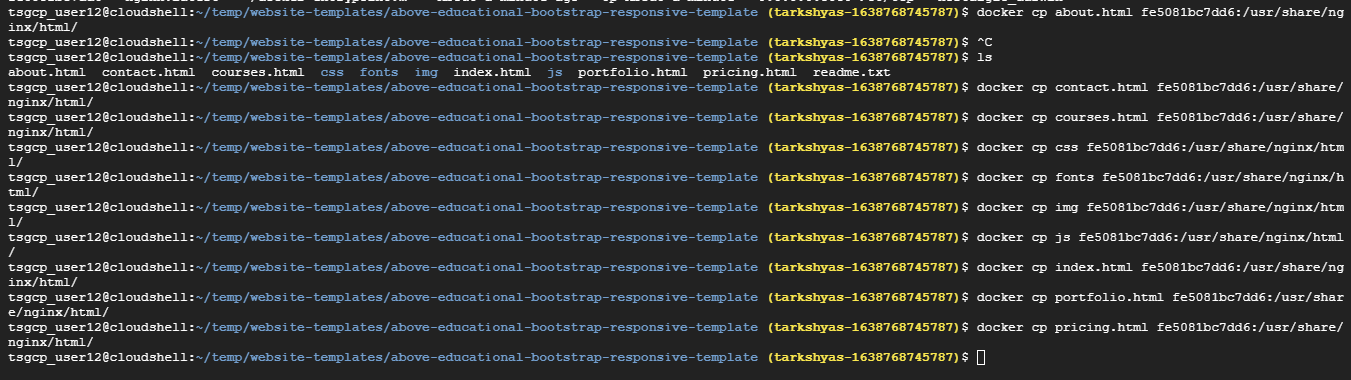
Step 2 : Open the cloud shell and make a directory ‘temp’.

Step 3 : Inside that directory clone the github site using git clone command and then go to the path of github repository which contains the required files.

Step 4 : Create a container using docker run command and view the running containers by using docker ps : docker run -d -p 8080:80 nginx:latest



Step 5 : Copy all the files insides github repository to the container by using docker cp command : docker cp about.html fe5081bc7dd6:/usr/share/nginx/html/

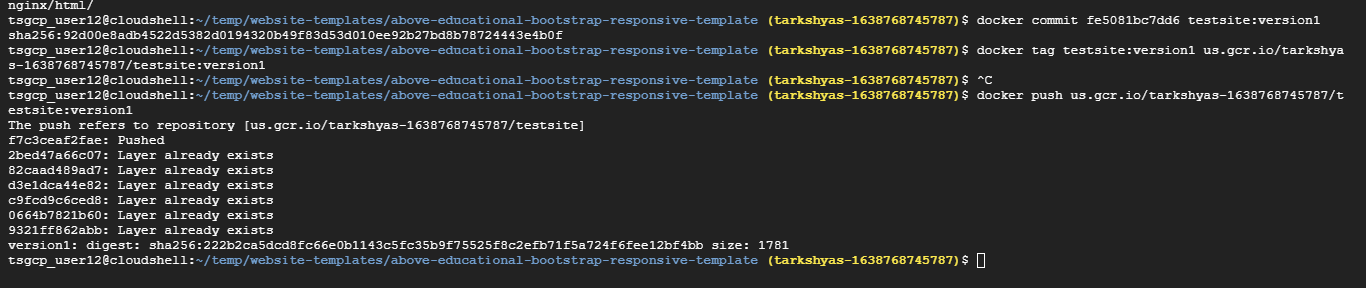


Step 6 : Then commit docker inorder to allow users to take the running container and save its current state as an image : docker commit fe5081bc7dd6 testsite:version1

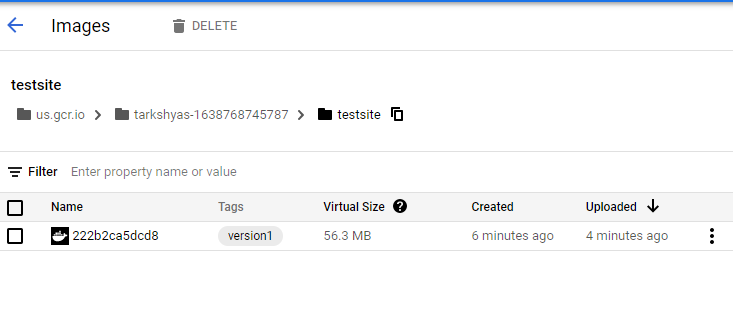
Step 7 : Share those images to the Docker Hub registry using docker push :

docker tag testsite:version1 us.gcr.io/ tarkshyas-1638768745787/testsite:version1

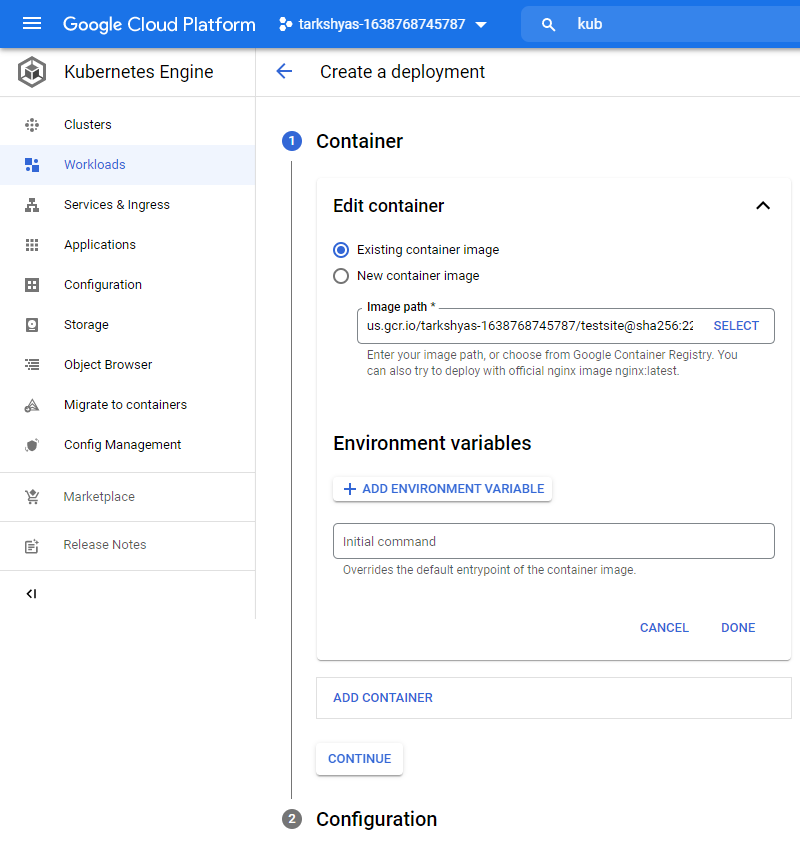
docker push us.gcr.io/ tarkshyas-1638768745787/testsite:version1

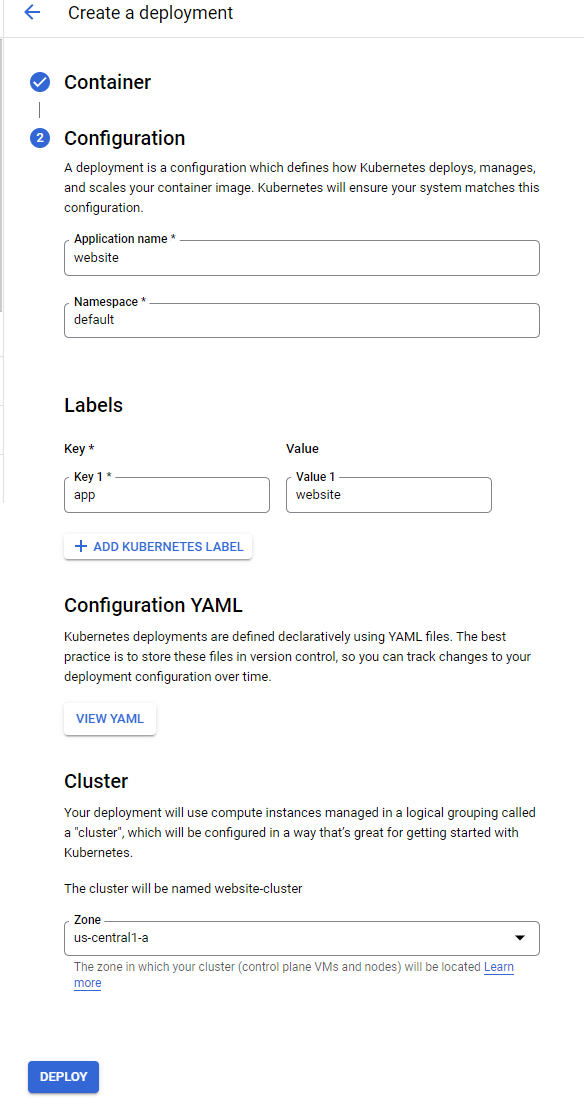


Step 8 : Go to the container registry and view the image created

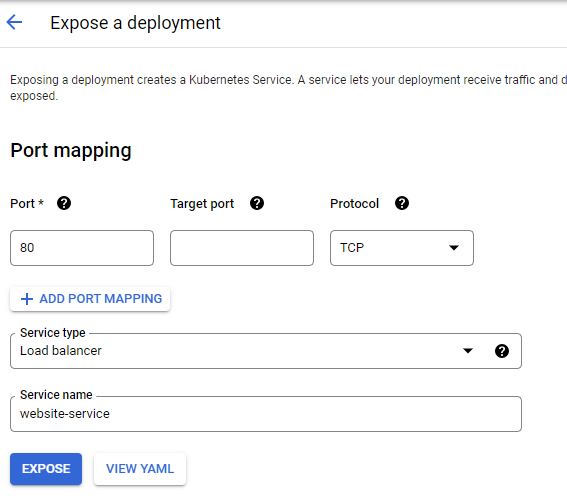


Step 9 : Open Workloads in Kubernetes Engine and deploy the application

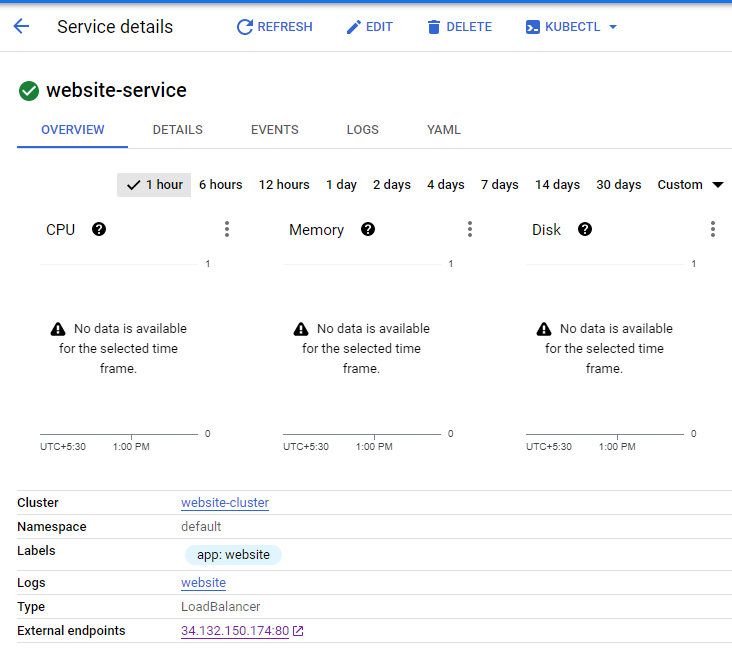


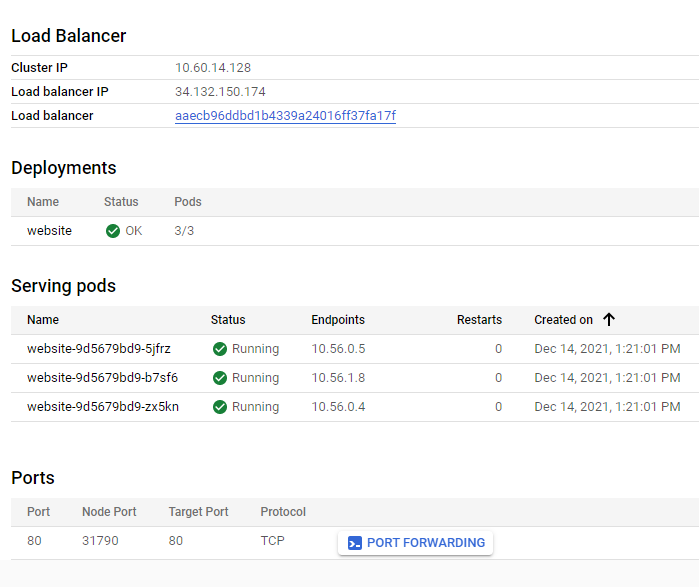


Step 10 : Expose the deployed application

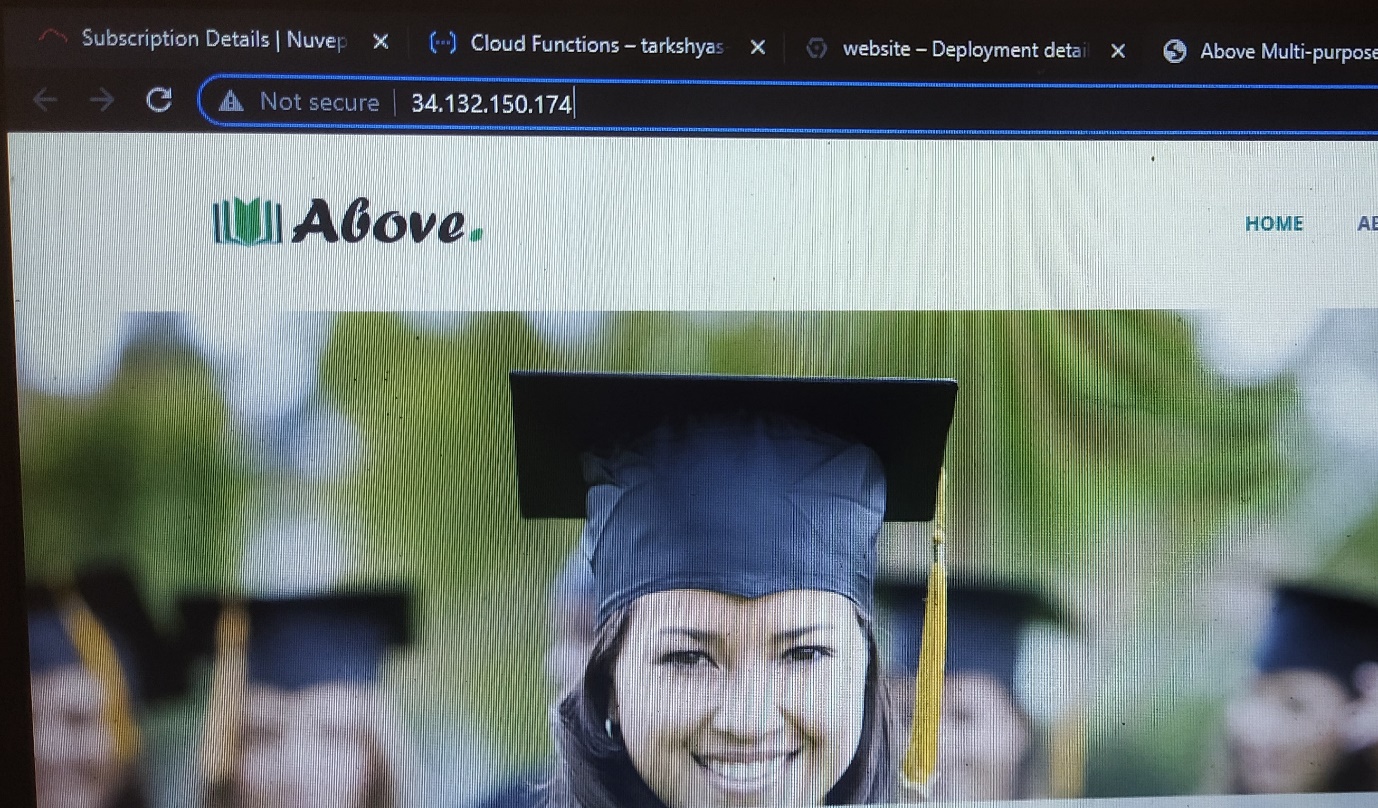


Step 11 : After deployment and expose



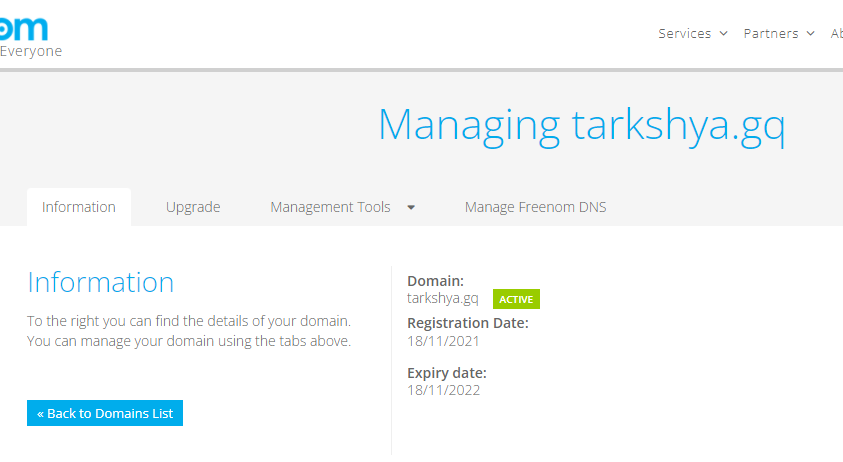


Step 12 : By clicking on external endpoints we get the required website

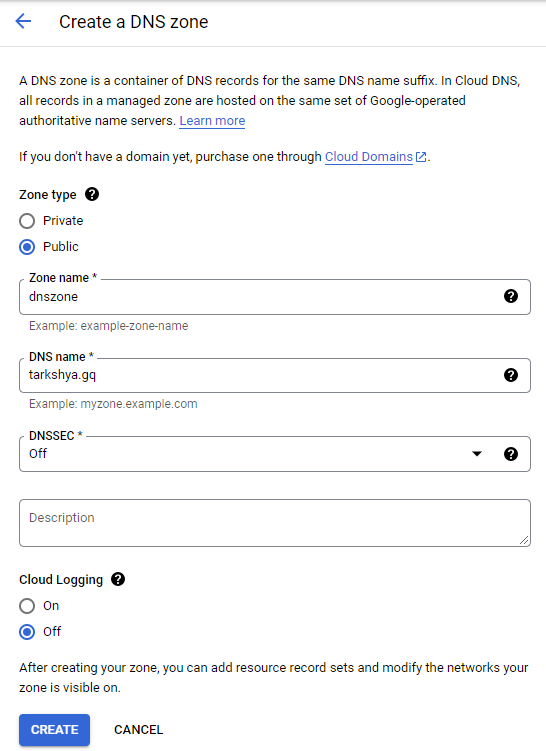


//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **Cloud DNS** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//

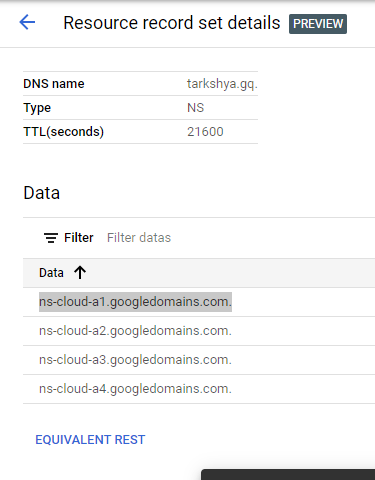
Step 13 : Create a domain in freenom

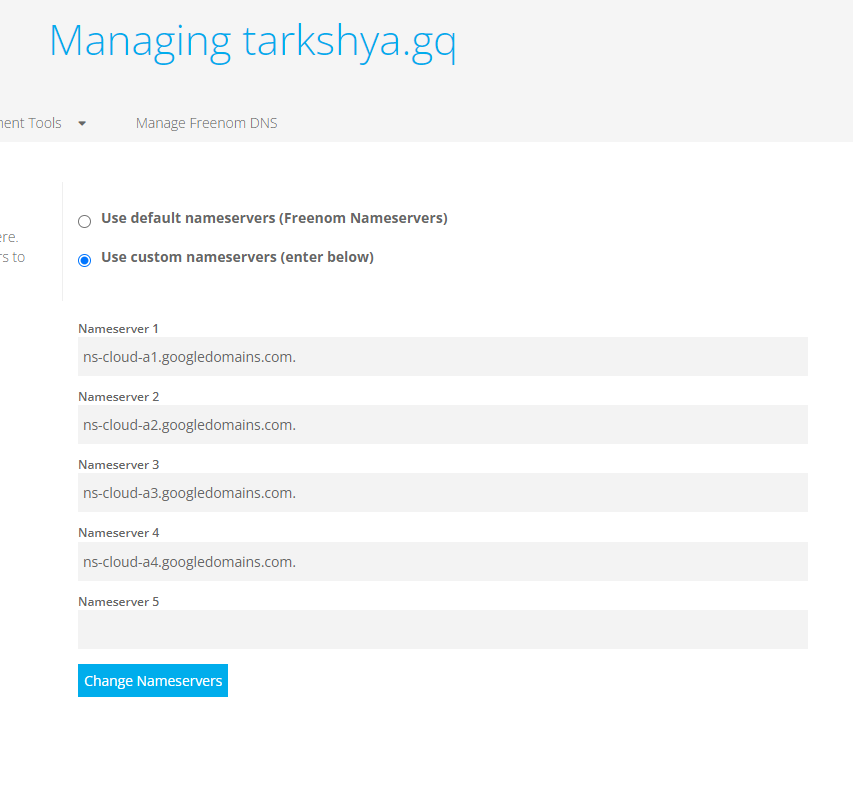


Step 14 : Create zone in Cloud DNS

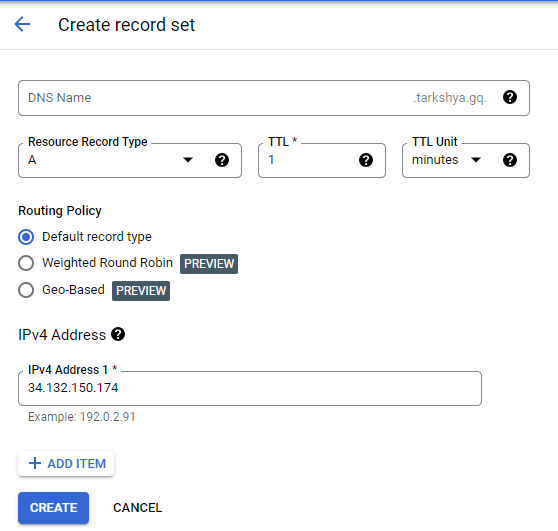


Step 15 : Copy the nameservers of created zone and paste it in nameserver of created domain

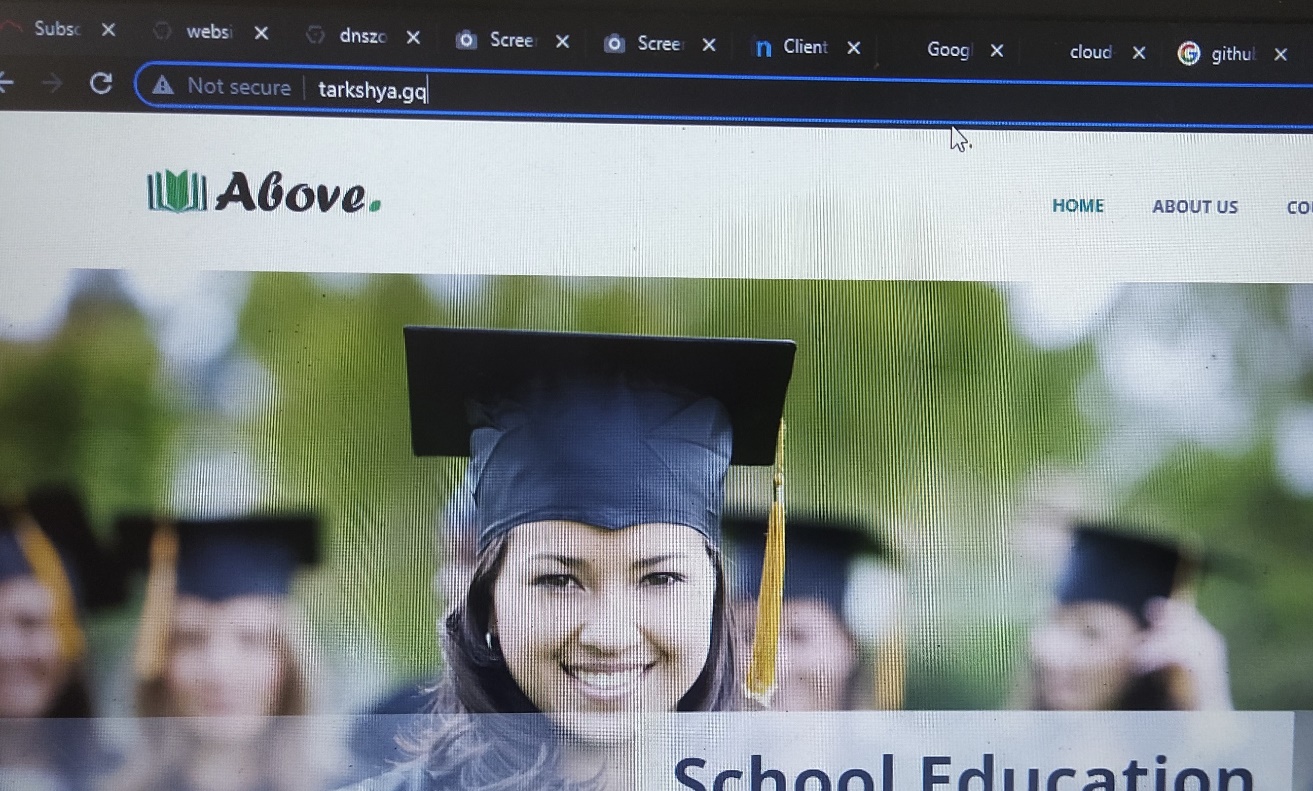




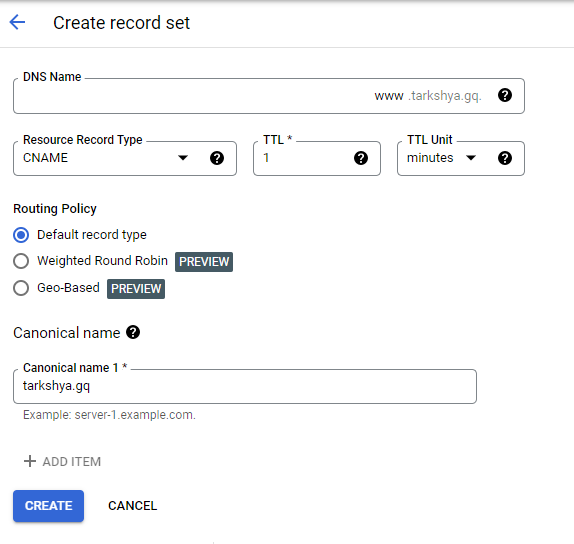
Step 16 : Create a record set in the zone with resourse record type as A and assign the IPv4 address as the external endpoints created in Kubernetes engine



Step 17 : Browse tarkshya.gq in google and we can see the respective site



Step 18 : Create a record set in the zone with resourse record type as CNAME and assign the IPv4 address as the external endpoints created in Kubernetes engine



Step 19 : Browse www.tarkshya.gq in google and we can see the respective site

