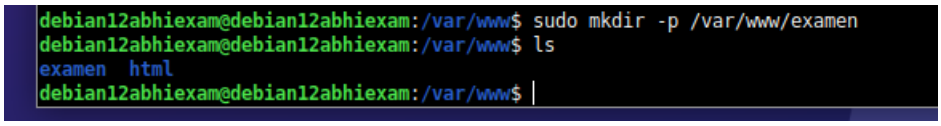
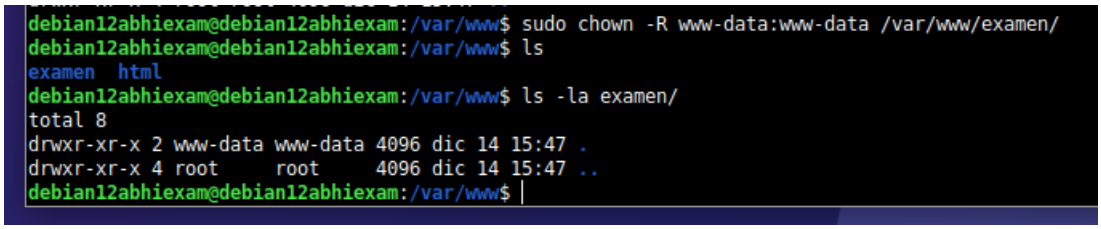
Exercisi 1:

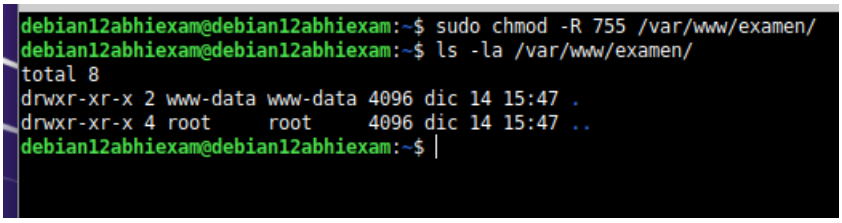
Creamos la carpeta:



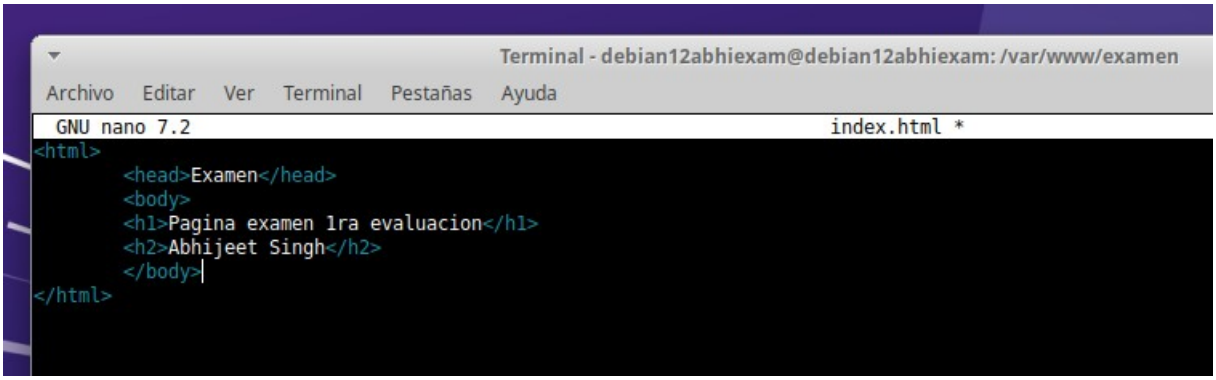
Asignamos el www-data como propietario :

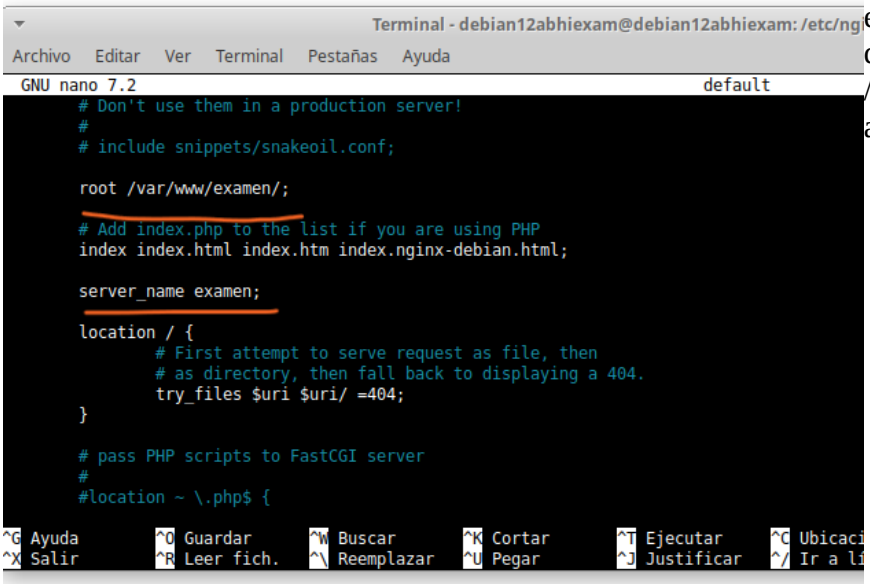


Asignamos los permisos:



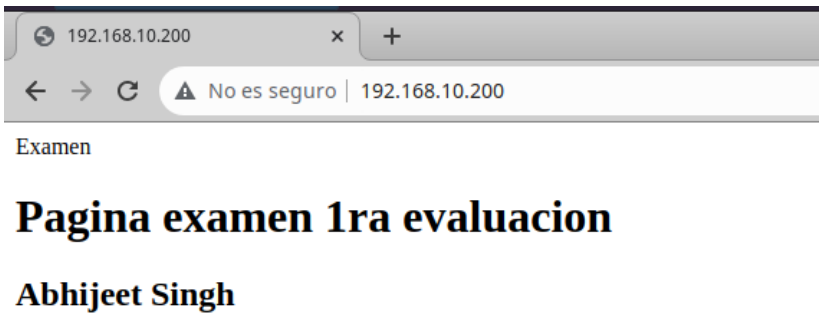
Creamos el index.html dentro del /var/www/examen





editamos el archivo default en /etc/nginx/sites-available :

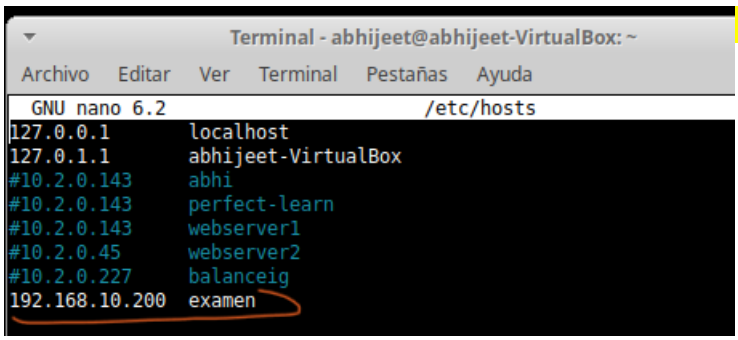
1. Accedemos desde el cliente (xubuntu en mi caso):



2. Podemos acceder desde la maquina anfitiriona porque nuestro debian tiene 2 redes, una interna y otra adaptador puente con lo cual se puede acceder con el ip publica.

3. accesso desde anfitrion:

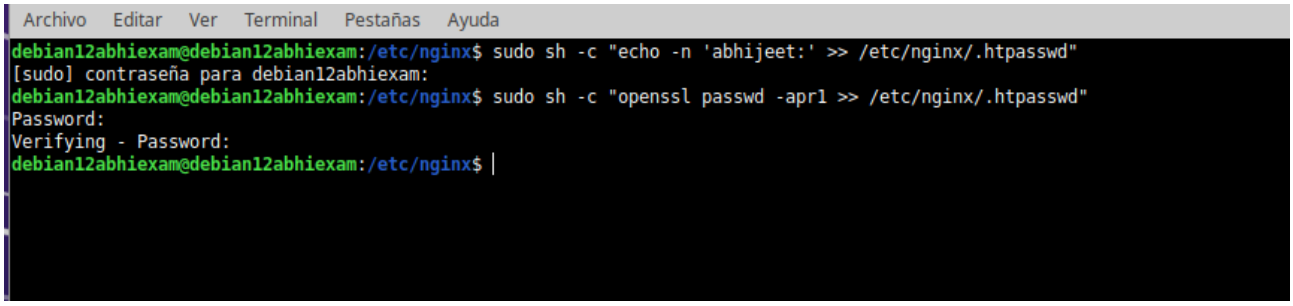
4.
editamos el fichero /etc/hosts para poder acceder con el nombre del sitio web:



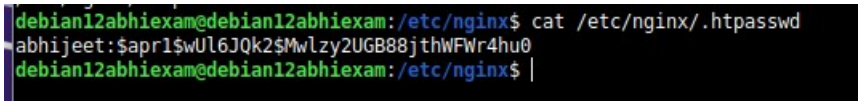
Podemos acceder correctamente:

Exercisi 2:

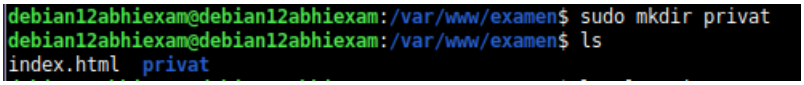
Creamos el usuario y la contraseña:



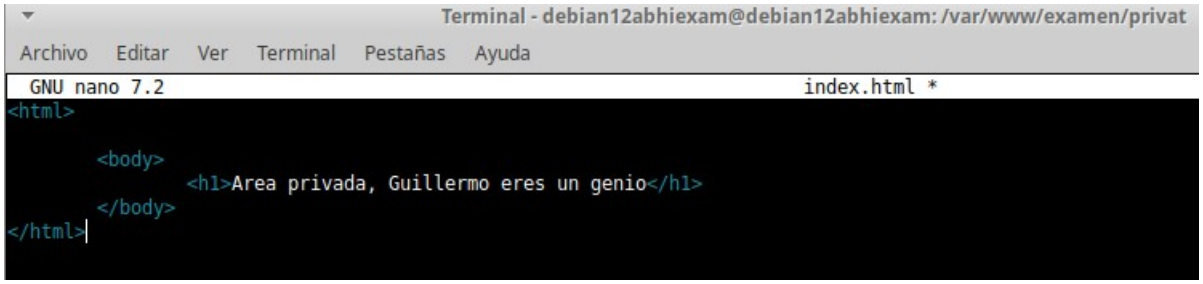
compruebamos que se ha generado el usuario y la contraseña correctamente:



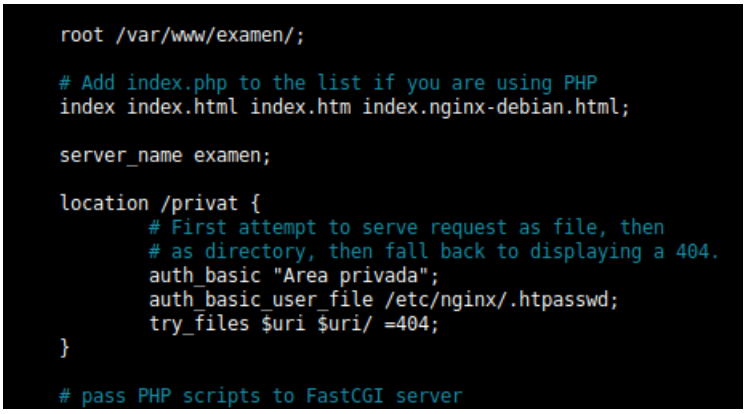
creamos la carpeta:



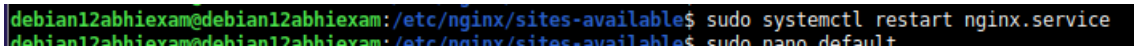
creamos el archivo index.html dentro del directorio privat:



modificamos el server block para que solo puedan usarios registardos :



reiniciamos el servidor:



Podemos comprobar que pide la autenticacion:

Configuramos de forma que se pueda acceder cualquier desde maquina anfitrion y solo los usaruios reguistardos desde cliente.

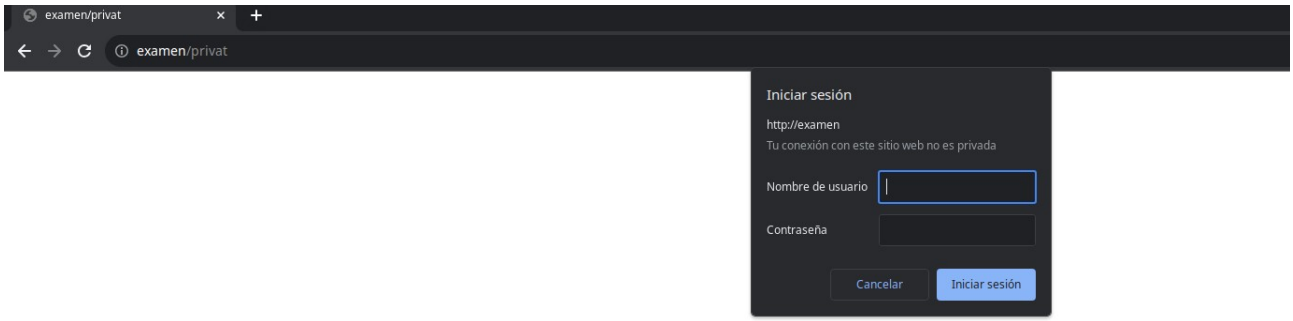
```
GNU nano 7.2                                                    default *
        index index.html index.htm index.nginx-debian.html;

        server_name examen;

        location /privat {
                # First attempt to serve request as file, then
                # as directory, then fall back to displaying a 404.
                satisfy any;
                allow   10.2.0.21/24;
                auth_basic "Area privada";
                auth_basic_user_file /etc/nginx/.htpasswd;


                try_files $uri $uri/ =404;
                deny all;
        }

        # pass PHP scripts to FastCGI server
        #
```

reinicamos el servidor:

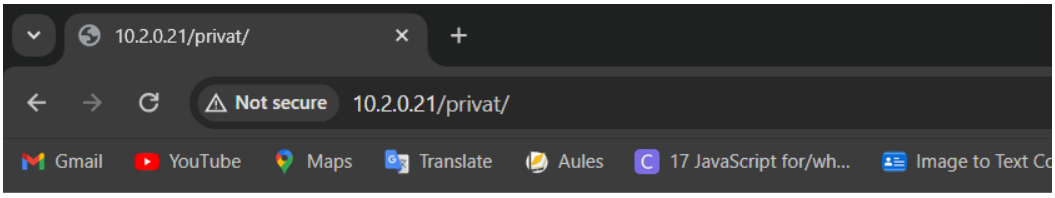
```
debian12abhiexam@debian12abhiexam:/etc/nginx/sites-available$ sudo systemctl restart nginx.service
```

compruebamos de nuevo.

Pide la autenticacion desde cliente:



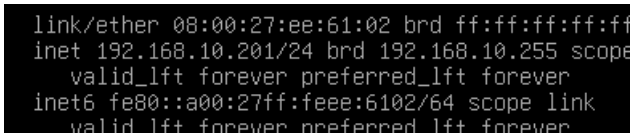
accedemos directamente desde maquina anfitrion:



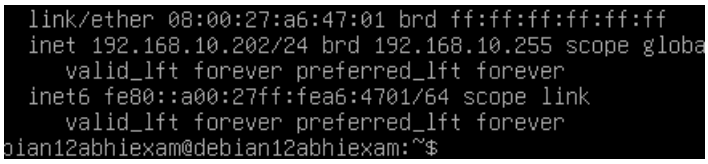
Area privada, Guillermo eres un genio

Exercisi 3:

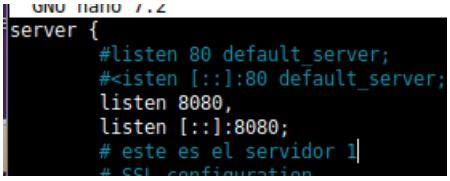
Cambiamos el ip de servidor a 192.168.10.201:



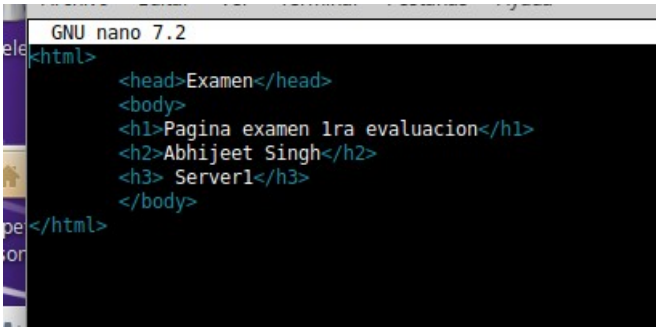
Cambiamos el ip de proxy a 192.168.10.202



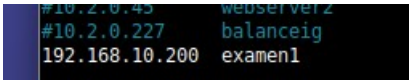
cambiamos el servidor que escuche por 8080



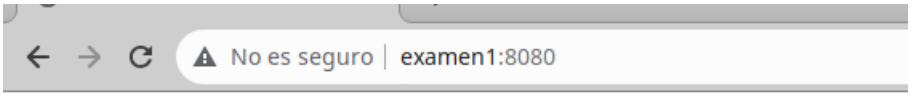
cambiamos el index.html:



cambiamos en /etc/hosts:



accedemos:



Examen

Pagina examen 1ra evaluacion

Abhijeet Singh

Server1

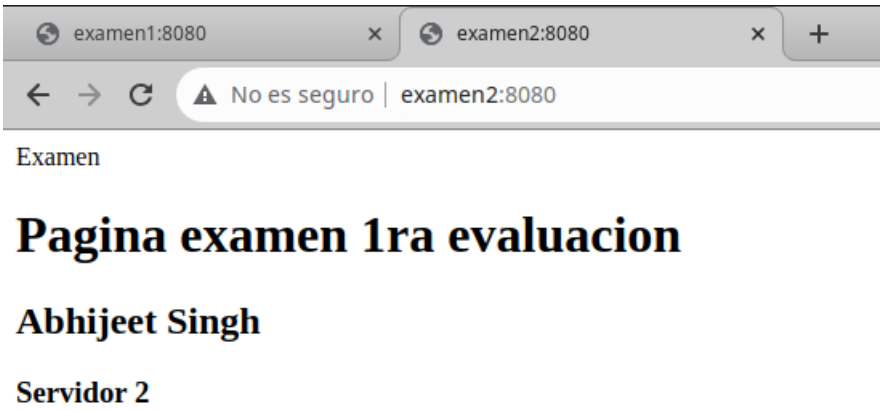
cambiamos el servidor2 que escuche por 8080

```
#
server {
        #listen 80 default_server;
        #listen [::]:80 default_server;

        listen 8080;
        listen [::]:8080;
        # SSL configuration
```

```
debian12abhiexam@debian12abhiexam:/var/www/examen$ cat index.html
<html>
        <head>Examen</head>
        <body>
        <h1>Pagina examen 1ra evaluacion</h1>
        <h2>Abhijeet Singh</h2>
        <h3>Servidor 2</h3>
</body>
</html>
debian12abhiexam@debian12abhiexam:/var/www/examen$
```

```
#10.2.0.227     balancelg
192.168.10.200  examen1
192.168.10.201  examen2
```

accedemos:



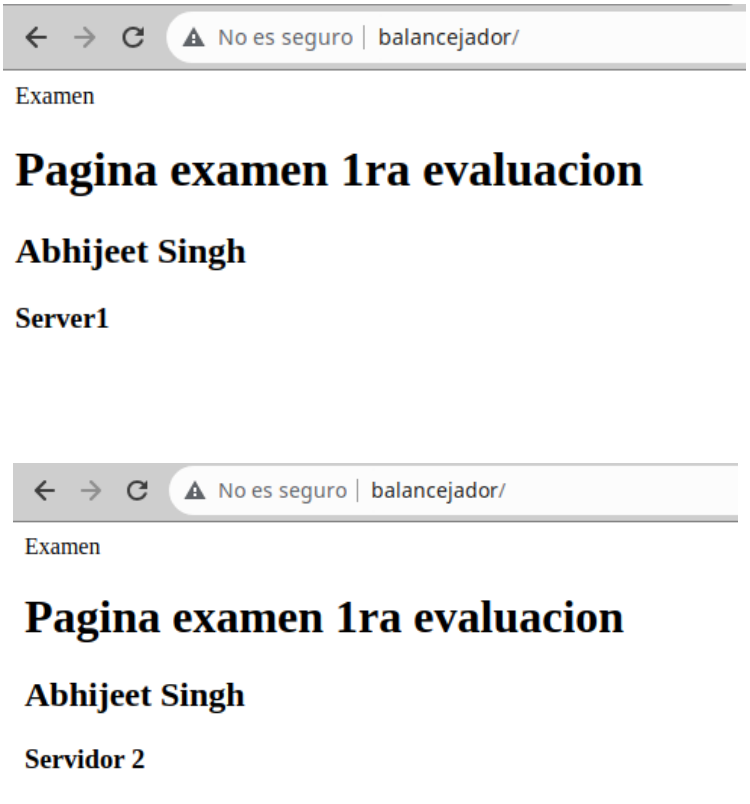
configuramos le balancerador:

```
upstream backend_host{
        random;
        server 192.168.10.200:8080;
        server 192.168.10.201:8080;
}
```

```
nano 7.2                                    default *
  listen [::]:80 default_server;

  # SSL configuration
  #
  # listen 443 ssl default_server;
  # listen [::]:443 ssl default_server;
  #
  # Note: You should disable gzip for SSL traffic.
  # See: https://bugs.debian.org/773332
  #
  # Read up on ssl_ciphers to ensure a secure configuration.
  # See: https://bugs.debian.org/765782
  #
  # Self signed certs generated by the ssl-cert package
  # Don't use them in a production server!
  #
  # include snippets/snakeoil.conf;


  # Add index.php to the list if you are using PHP

  server_name balancejador;

  location / {
          # First attempt to serve request as file, then
          # as directory, then fall back to displaying a 404.

          proxy_pass      http://backend_hosts;
  }
```

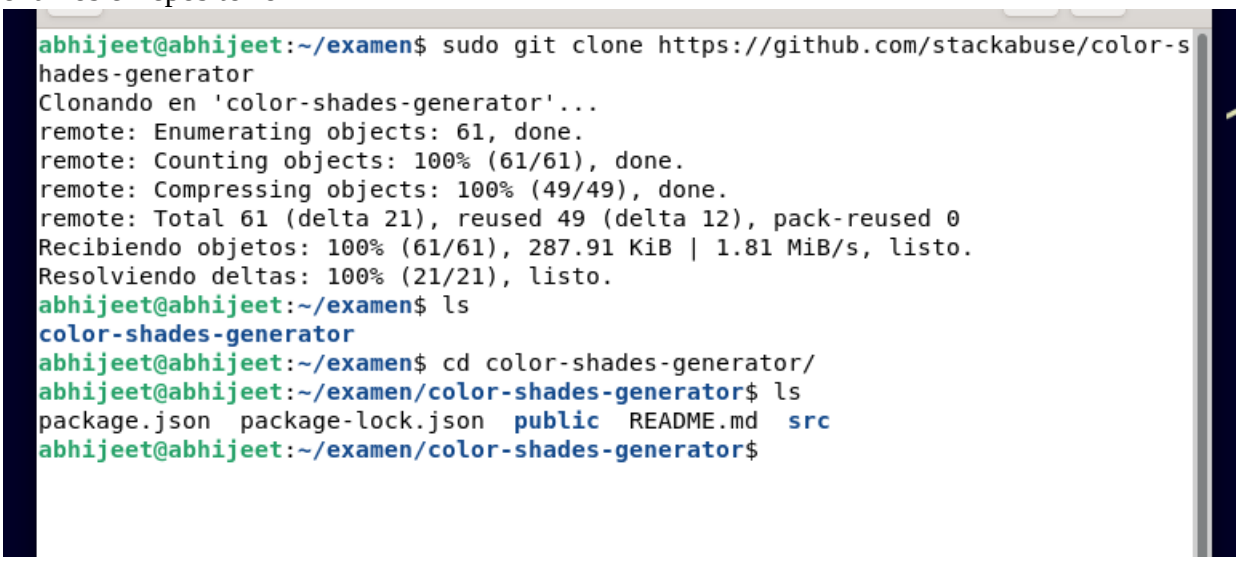
```
#10.2.0.45      webserver2
#10.2.0.227     balanceig
192.168.10.200  examen1
192.168.10.201  examen2
192.168.10.202  balancejador

# The following lines are desirable for
::1     ip6-localhost ip6-loopback
```

accedemos :

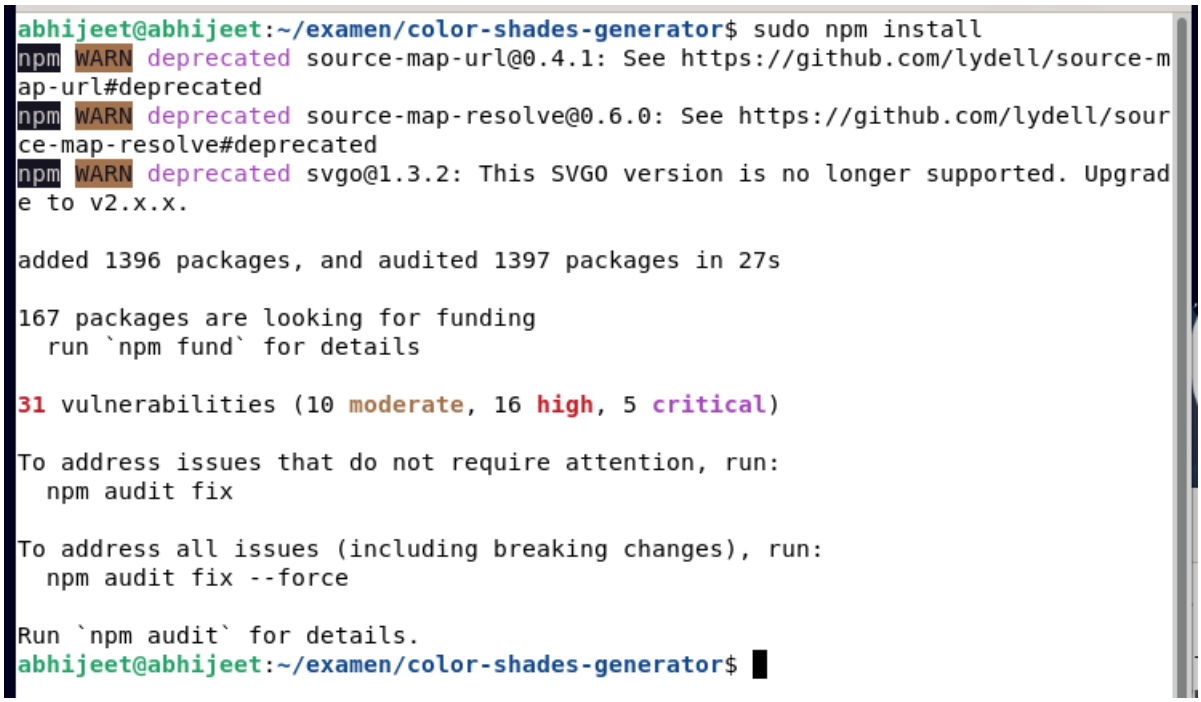


4. Vercel

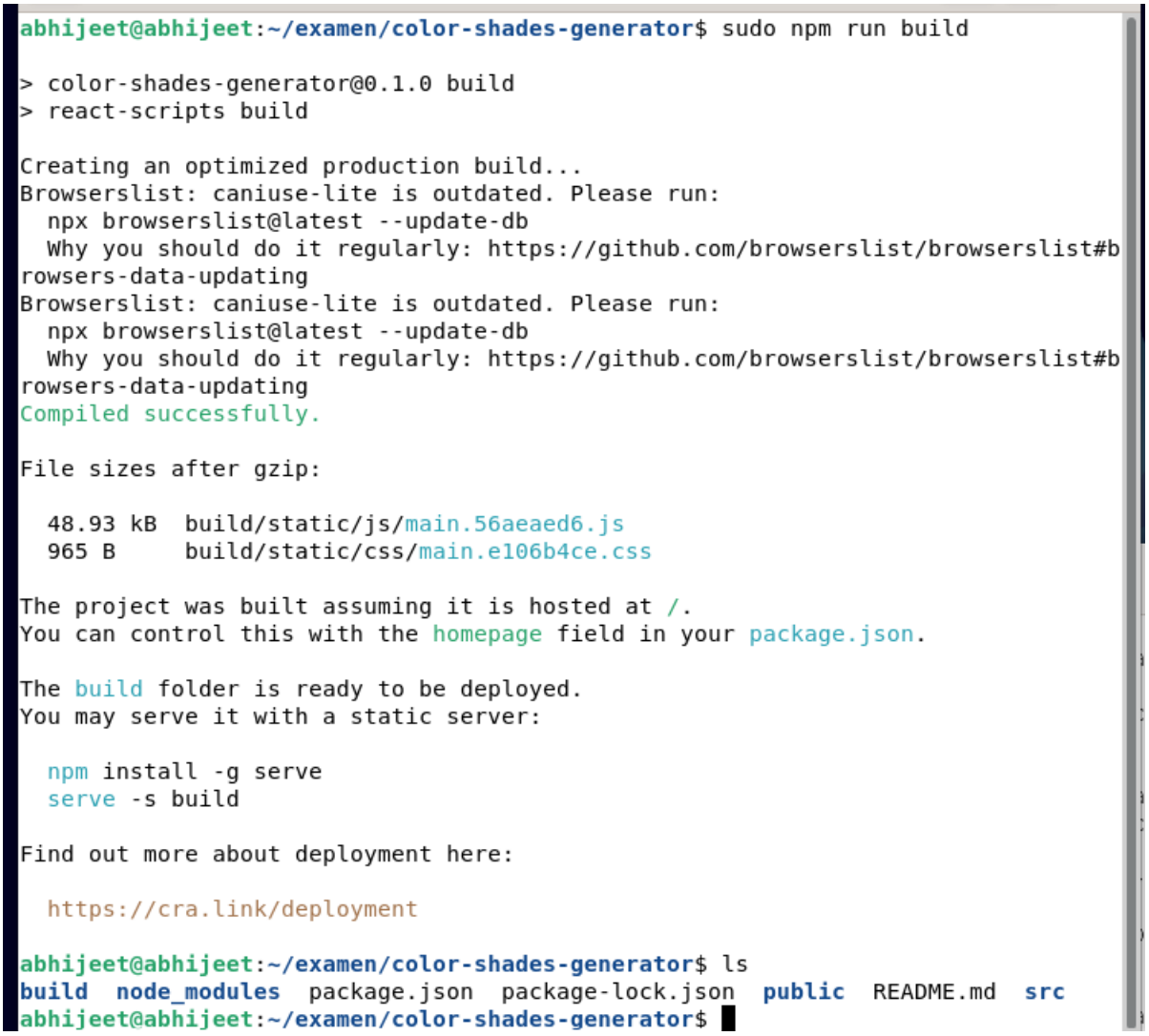
clonamos el repositorio



Instalamos las dependencias´:



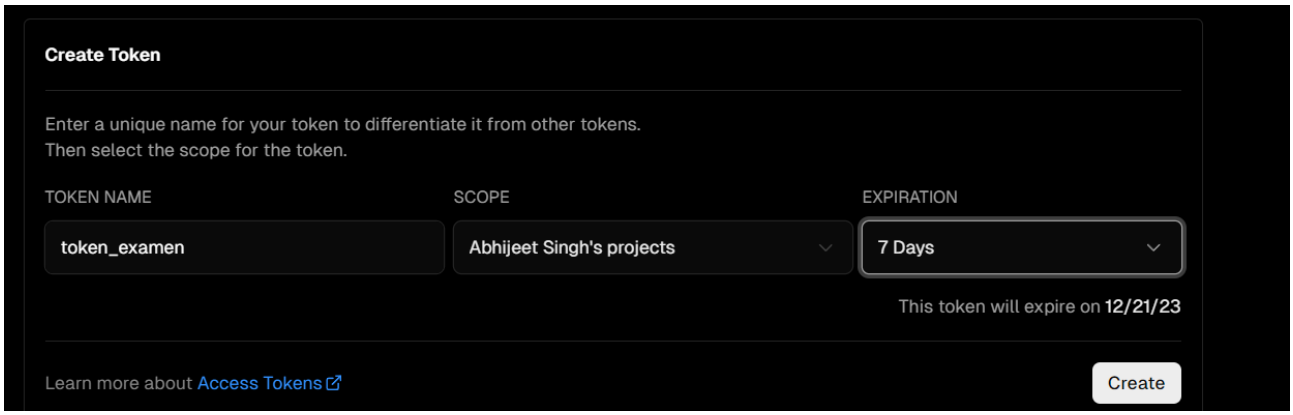
generamps el build:



Instalamos vercel:

```
abhijeet@abhijeet:~/examen/color-shades-generator$ sudo npm i -g vercel
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 hav
e a low-severity ReDos regression when used in a Node.js environment. It is reco
mmended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/iss
ues/797)
npm WARN deprecated uuid@3.3.2: Please upgrade  to version 7 or higher.  Older v
ersions may use Math.random() in certain circumstances, which is known to be pro
blematic.  See https://v8.dev/blog/math-random for details.

changed 246 packages, and audited 247 packages in 17s

17 packages are looking for funding
  run `npm fund` for details

3 moderate severity vulnerabilities

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.
abhijeet@abhijeet:~/examen/color-shades-generator$ vercel --version
Vercel CLI 32.7.2
32.7.2
abhijeet@abhijeet:~/examen/color-shades-generator$
```

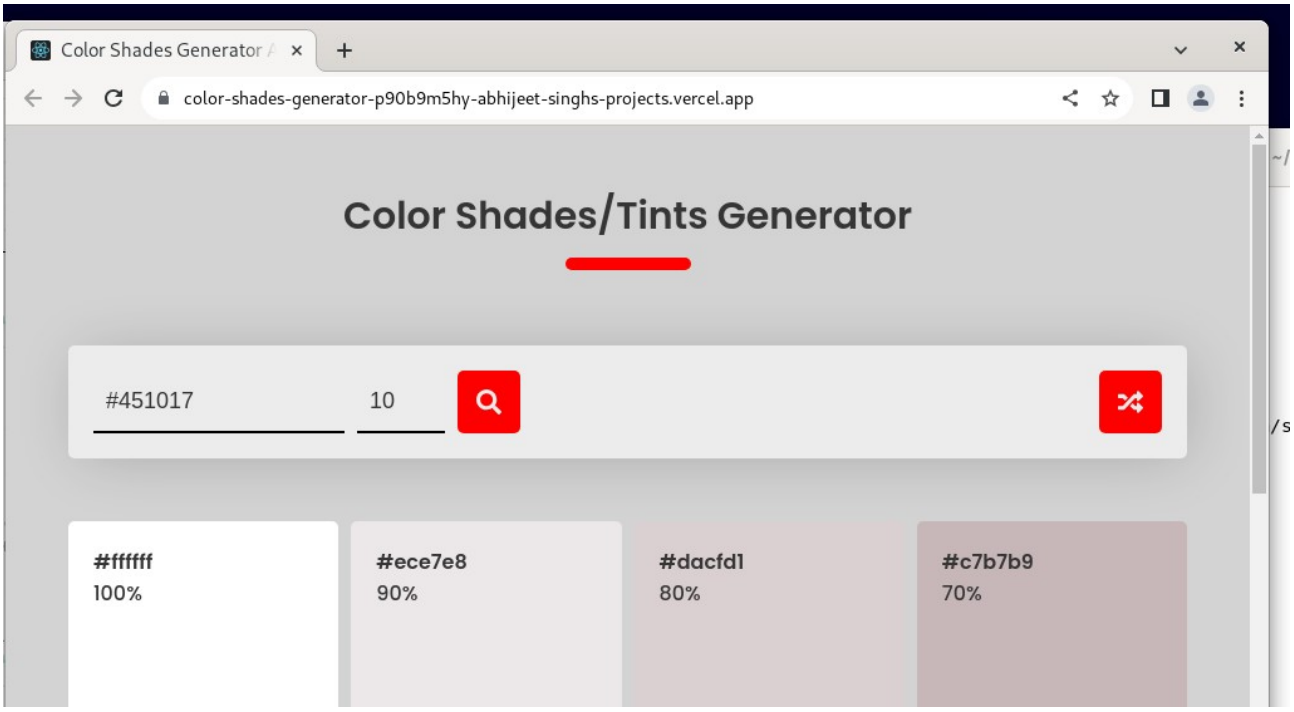
genrramos el token:



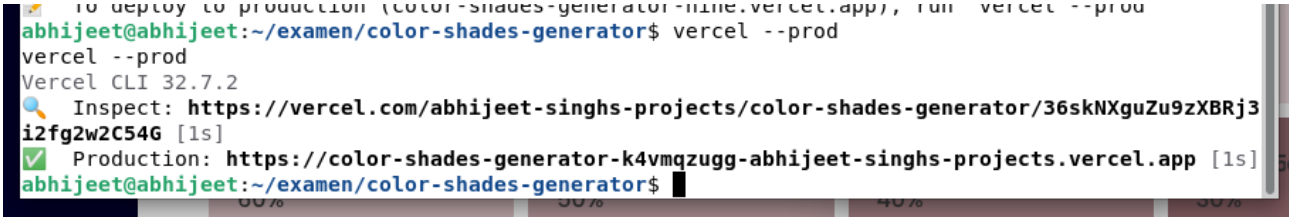
hacemos el deploy contoken:

```
abhijeet@abhijeet:~/examen/color-shades-generator$ vercel -t l0moPMhBkPYeGkn9qjBCZR7c
Vercel CLI 32.7.2
? Set up and deploy “~/examen/color-shades-generator”? [Y/n] y
? Which scope do you want to deploy to? Abhijeet Singh's projects
? Link to existing project? [y/N] n
? What’s your project’s name? color-shades-generator
? In which directory is your code located? ./
Local settings detected in vercel.json:
Auto-detected Project Settings (Create React App):
- Build Command: react-scripts build
- Development Command: react-scripts start
- Install Command: `yarn install`, `pnpm install`, `npm install`, or `bun install`
- Output Directory: build
? Want to modify these settings? [y/N] n
Error: EACCES: permission denied, mkdir '/home/abhijeet/examen/color-shades-generator/.vercel'
abhijeet@abhijeet:~/examen/color-shades-generator$ sudo vercel -t l0moPMhBkPYeGkn9qjBCZR7c
Vercel CLI 32.7.2
? Set up and deploy “/home/abhijeet/examen/color-shades-generator”? [Y/n] y
? Which scope do you want to deploy to? Abhijeet Singh's projects
? Found project “abhijeet-singhs-projects/color-shades-generator”. Link to it? [Y/n] y
🔗  Linked to abhijeet-singhs-projects/color-shades-generator (created .vercel and added it to .g
itignore)
🔍  Inspect: https://vercel.com/abhijeet-singhs-projects/color-shades-generator/7GTiA71mS5zof8ACg
DKpGAAqEccE [1s]
✅  Preview: https://color-shades-generator-p90b9m5hy-abhijeet-singhs-projects.vercel.app [1s]
📝  To deploy to production (color-shades-generator-nine.vercel.app), run `vercel --prod`
abhijeet@abhijeet:~/examen/color-shades-generator$
```

accedemos:



deploy en prdocucuin:


To deploy to production (color-shades-generator-nine.vercel.app), run "vercel --prod"
abhijeet@abhijeet:~/examen/color-shades-generator$ vercel --prod
vercel --prod
Vercel CLI 32.7.2
Inspect: https://vercel.com/abhijeet-singhs-projects/color-shades-generator/36skNXguZu9zXBRj3i2fg2w2C54G [1s]
Production: https://color-shades-generator-k4vmqzugg-abhijeet-singhs-projects.vercel.app [1s]
abhijeet@abhijeet:~/examen/color-shades-generator$