

Deployment Guideline

Server Side Deployment Steps:

1. comment await commands outside API methods for solving gateway timeout error

```
//comment following commands  
await client.connect();  
await client.db("admin").command({ ping: 1 });
```

2. create vercel.json file for configuring server

```
{  
  "version": 2,  
  "builds": [  
    {  
      "src": "index.js",  
      "use": "@vercel/node"  
    }  
  ],  
  "routes": [  
    {  
      "src": "/*",  
      "dest": "index.js",  
      "methods": ["GET", "POST", "PUT", "PATCH", "DELETE", "OPTIONS"]  
    }  
  ]  
}
```

3. Add Your production domains to your cors configuration

```
//Must remove "/" from your production URL
app.use(
  cors({
    origin: [
      "http://localhost:5173",
      "https://career-portal-ph.web.app",
      "https://career-portal-ph.firebaseio.com",
    ],
    credentials: true,
  })
);
```

4. Let's create a cookie options for both production and local server for vercel

```
const cookieOptions = {
  httpOnly: true,
  secure: process.env.NODE_ENV === "production",
  sameSite: process.env.NODE_ENV === "production" ? "none" : "strict",
};

//localhost:5000 and localhost:5173 are treated as same site. so
sameSite value must be strict in development server. in production
sameSite will be none

// in development server secure will false . in production secure will
be true
```

now we can use this object for cookie option to modify cookies

```
//creating Token
app.post("/jwt", logger, async (req, res) => {
  const user = req.body;
  console.log("user for token", user);
  const token = jwt.sign(user, process.env.ACCESS_TOKEN_SECRET);

  res.cookie("token", token, cookieOptions).send({ success: true });
});
```

```
});

//clearing Token
app.post("/logout", async (req, res) => {
  const user = req.body;
  console.log("logging out", user);
  res
    .clearCookie("token", { ...cookieOptions, maxAge: 0 })
    .send({ success: true });
});
```

5. Deploy to Vercel

```
Vercel
vercel --prod
- After completed the deployment . click on inspect link and copy
the production domain
- setup your environment variables in vercel
- check your public API
```

Production Deployment

The deployment that is available to your visitors.

Build Logs Runtime Logs Instant Rollback

Deployment
job-portal-server-4ks49rtnu-techsoros-projects.vercel.app

Domains
job-portal-server-gules.vercel.app [🔗](#) +2

Status Created
Ready 3h ago by techsoros

Source
main
> 2e9fc1b get specific application specific jobs to sepcific recruiter

Server Deployment on Vercel Done

Client Side Deployment

Firestore deploy:

REASONS THAT FIREBASE MAY REMOVE YOUR APPLICATION

- If your Website and Content Doesn't match with your URL & TITLE
- If you console important credentials such as
 - user
 - passwords
 - API Keys/objects that contain important info's
- If Your API Does not Provide Valid name matched with your content

DO Following Things First

- Give your Website a Title , Logo matches with your content
- Comment the your important credentials log
- Define Meta tags to keep it more understable to Web Engine
- See Below snippet

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <link
      rel="shortcut icon"
      href="https://img.icons8.com/?size=160&id=2zhQitqbq98h&format=png"
      type="image/x-icon"
    />
    <meta
      name="description"
      content="Manage job postings effortlessly with JobPortal. Create,
read, update, and delete job listings in a user-friendly, responsive web
application."
    />
    <meta
```

```

        name="keywords"
        content="Job-Portal Career-Portal Jobs engineering-jobs react
daisyui"
    />
    <meta name="author" content="Jhankar Mahabub" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"
/>
    <title>CAREER</title>
</head>
<body>
    <div id="root"></div>
    <script type="module" src="/src/main.jsx"></script>
</body>
</html>

```

Deployment Steps-1 : FIREBASE INIT

```
firebase init
```

this command will give you a CLI interface for create additional files that needed for deployment. Firebase will ask you some questions . such as

```
Are you ready to proceed? (Y/n) -> y
```

```
Which Firebase features do you want to set up for this directory? Press
Space to select features, then Enter to
confirm your choices. (Press <space> to select, <a> to toggle all, <i> to
invert selection, and <enter> to proceed)
```

- () Data Connect: Set up a Firebase Data Connect service
- () Firestore: Configure security rules and indexes files for Firestore
- () Genkit: Setup a new Genkit project with Firebase
- () Functions: Configure a Cloud Functions directory and its files
- () App Hosting: Configure an apphosting.yaml file for App Hosting

```
>(*) Hosting: Configure files for Firebase Hosting and (optionally) set
up GitHub Action deploys
( ) Storage: Configure a security rules file for Cloud Storage

? What do you want to use as your public directory? dist

? Configure as a single-page app (rewrite all urls to /index.html)? y

? Set up automatic builds and deploys with GitHub? n

#Additionally This can appear if you have build it allready
? File dist/index.html already exists. Overwrite? n
```

Deployment Steps-2 : Build Application

Remember , You are working on Dev mode . when you build your project, every js and css converted into a single js && css file on dist/assets folder. and every file you stored in public will copy to dist. and files/folder on assets also copied to dist.

- Do the command to build your application For Production

```
npm run build
```

Deployment Steps 3: Deploy your Application

```
firebase deploy
```

YAHOO 🕶️ Deployment Done

Redeploy System

- for any code changes.

```
npm run build  
firebase deploy
```

Deploy on NETLIFY:

Deployment Steps-1 : Add Redirects

- Add Redirects to validate Routes

```
/*      /index.html    200
```

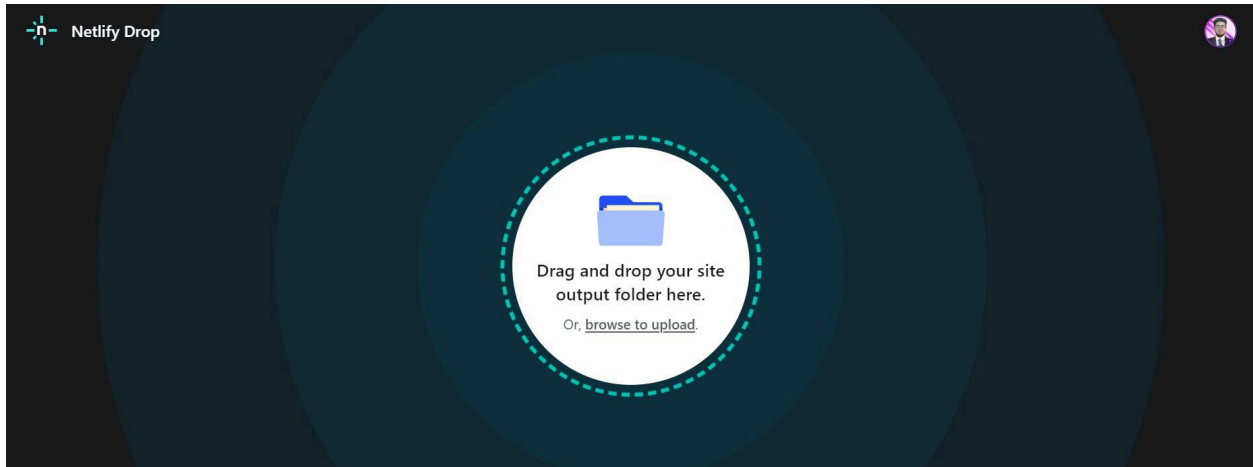
Deployment Steps-2 : Build Application

```
npm run build
```

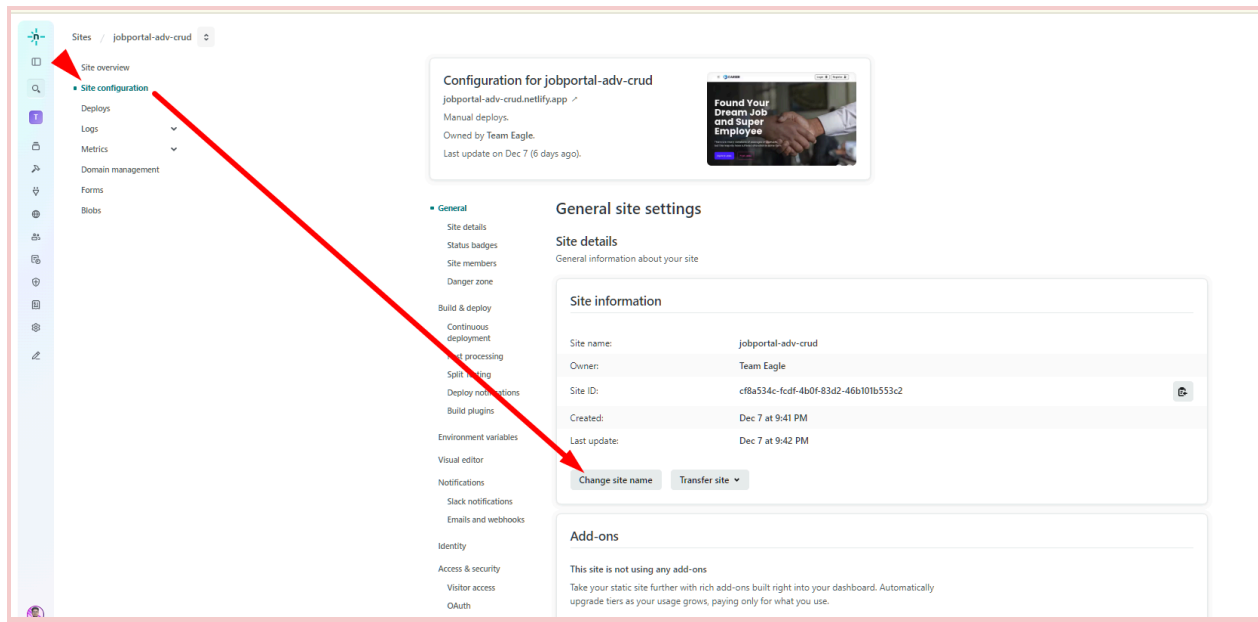
Deployment Steps-3: Drag and Deploy

Go to <https://app.netlify.com/drop>

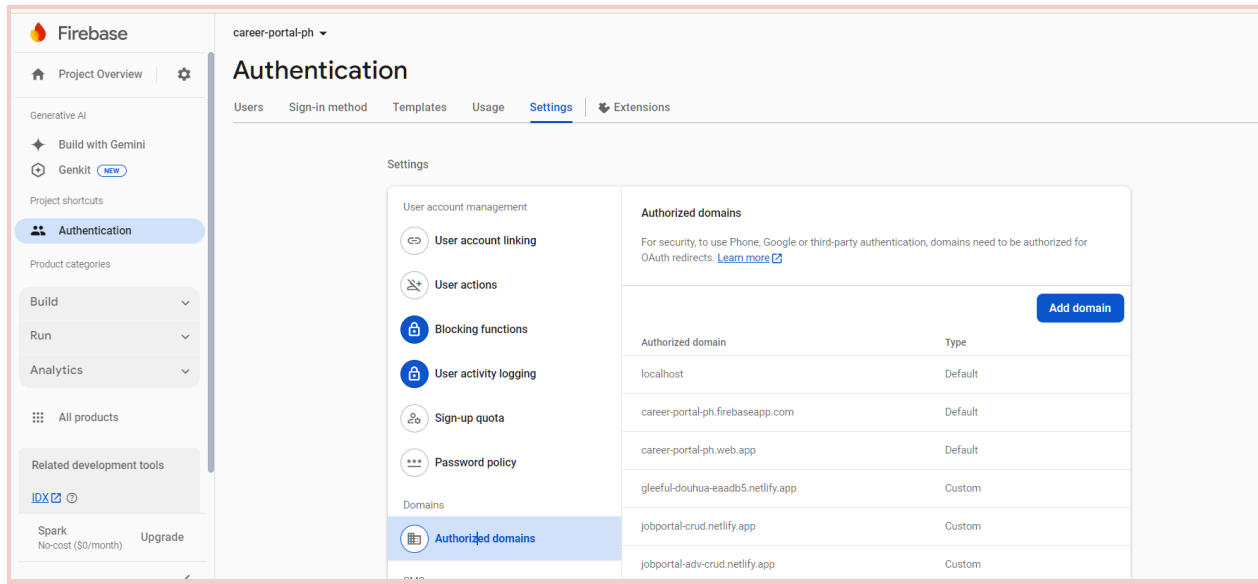
- Drop your Dist Folder



Deployment Steps-4 : change Site-Name According to Your Website



Deployment Steps-5 : Add Domain on Firebase for Auth Authorization



YAHOO 🕶️ Deployment Done

Redeploy System

- for any code changes.

```
npm run build
```

Now Drop your Dist Folder to Netlify

Deploy on SURGE

Deployment Steps-1 : Create CNAME on Public

Add Your Domain like this --> yourdomain.surge.sh

Deployment Steps-2 : Build your Project

```
npm run build
```

Deployment Steps-3 : Set up 200.html on Dist

- copy code from your dist/index.html
- create new file 200.html on dist and paste code of index.html

run this command

```
surge dist
```

It will deploy automatically

Deployment Steps-4 : Add Domain on Firebase for Auth Authorization

YAHOO 🕶️ Deployment Done

Redeploy System

Do Steps 2,3,4

Debug Checklist for No Cookies on Production

Used Cookie Parser

- cookieParser is imported and used at the beginning of the server app.

```
const cookieParser = require("cookie-parser")

//-----
// Some codes....
//-----

// [ ! ] Important
app.use(cookieParser());
```

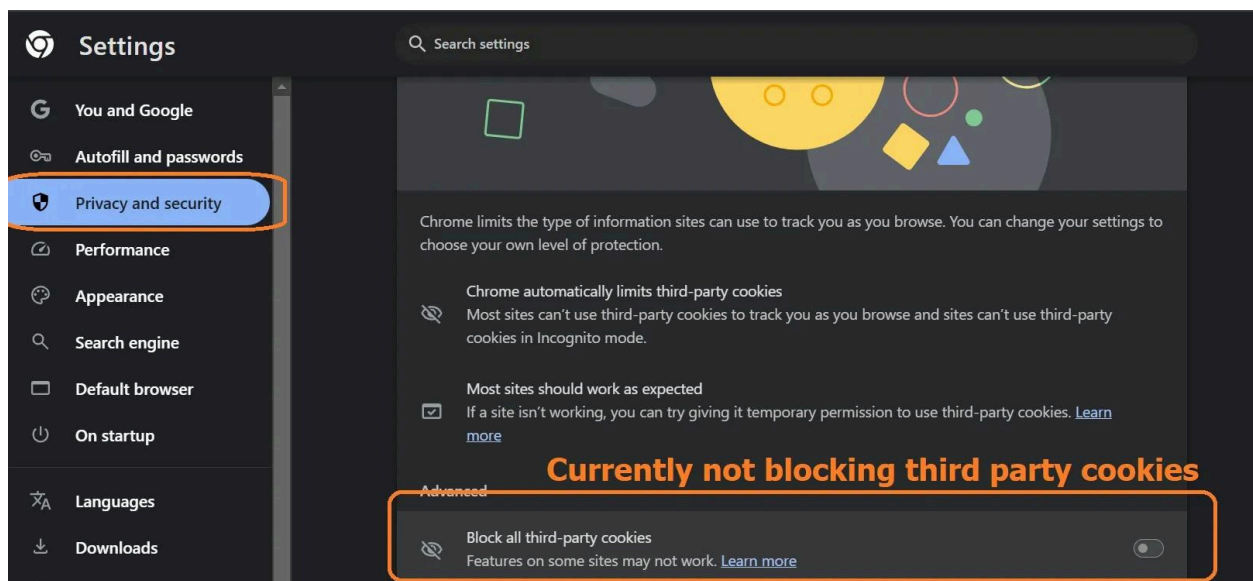
Third Party Cookie is Allowed

- Check if the Browser ****Allows Third Party Cookies****. Sometimes accepting recommended settings or tinkering around browser settings may block the third party cookies

Google Chrome Example:

Go to Settings >> Privacy and security >> Third Party Cookies

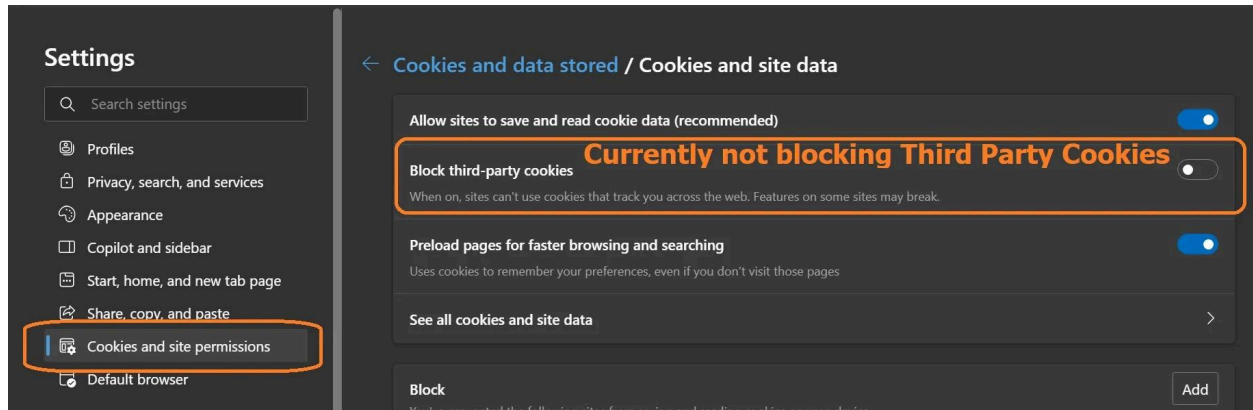
Then **Disable** Block all third-party cookies******



Microsoft Edge Example:

Go to Settings >> Cookies and site permissions >> Manage and delete cookies and site data

Then **Disable** Blocking third-party cookies



No trailing “/” (slash) at the end of the CORS origins.

- Make sure there is no trailing “/” at the end of the origins defined in the **cors** middleware. And credentials spelling is alright.

```
app.use(cors({  
  
  origin: [  
    // 'http://localhost:3000/', [X] "/" at the end  
    'http://localhost:3000', [✓]  
    // 'https://apollo-assignment-09.vercel.app/' [X] "/" at the end  
    'https://apollo-assignment-09.vercel.app' [✓]  
  ],  
  credentials: true,  
}))
```

Some Error solving Resources to resolve different issues:

1. <https://dev.to/chayti/firebase-hosting-setup-complete-issue-43cg>
2. <https://dev.to/chayti/deploy-re-deploy-to-surge-and-common-errors-359d>
3. <https://dev.to/shafia/some-common-vercel-errors-548i>
4. <https://dev.to/shafia/analyzing-and-interpreting-the-bysonypeerror-145g>
5. <https://dev.to/shafia/the-errors-you-may-face-for-not-whitelisting-the-ip-address-0000-in-your-mongodb-network-access-32f8>
6. <https://dev.to/shafia/how-to-fix-the-error-mongoservererror-bad-auth-authentication-failed-5b58>