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| Step 1.1 | **Creating a firebase project**  1. Open this link on your browser. Link -https://firebase.google.com/  2. Sign in with your goggle account.  3. Go to console which is present on right side of screen.  4.Click on Add project  5. Enter the name of your project and click on continue. Note**: Please ensure name of project is six random characters like bjtyhi**  6.Do not change any settings in Step 2 of creating project and click on continue  7. Select your firebase account and create project .It will take some time to setup.  8.Project dashboard will open |
| Step 1.2 | **Hosting an Angular / React app on Firebase**  1.Install command line tolls of firebase(If you already have then no need for this step)  **npm i – g firebase-tools**  2.Make a firebase project and deploy your app to the that project  Angular – https://medium.com/@treviergits/how-to-deploy-an-angular-7-app-on-firebase-hosting-30341f3bcb22  React--https://medium.com/swlh/how-to-deploy-a-react-app-with-firebase-hosting98063c5bf425 |
| Step 2.1 | **Create Account on render or login with git hub**  Link- https://render.com/ |
| Step 2.2 | Create a new directory and open it. For example folder is named demo as shown below  mkdir demo  cd demo  Initialize your node project. This will add a package.json file to your directory  npm init --yes |
|  | **Add express via npm**.  npm i express –save |
| Step 2.3 | Add a file names app.js. This is the main file with node code. Use the following line for line in the node where port is defined. |
| Step 2.4 | Update your package.json file to include a start script and change the "main" property to app.js. Change scripts property in your package.json |
| Step 2.5 | **Create git repository**  Initialise a git repo and commit your work.  git init  git add .  git branch -M main  git remote add origin Repository\_Name (e.g. - <https://github.com/xyz/storeApp.git>)  git commit -m “Initial Commit”  git push -u origin main |
| Step 2.6 | **in render**  Create a new Web Service  Choose / import git repository and press connect |
| Step 2.7 | Enter unique web service name and at bottom press create web service.  The server will be deployed.    Press the link shown in upper left corner. And test the server. |
| Step 3.1 | **When any change to node is made repeat the following steps**  git add .  git commit -m “Initial Commit”  git push -u origin main  Update will be automatically deployed if not click on manually deploy and select deploy latest commit. |
| Step 4 | **Updating the URL of the Node server in the Angular / React app**  1.In the Angular / React app, update the server URL to the one obtained from render  2.Deploy the Angular / React app again•  Repeat the point 2 of step 1.2 |